

TURNING TOOLS
OUTILS DE TOURNAGE

WINSFEED

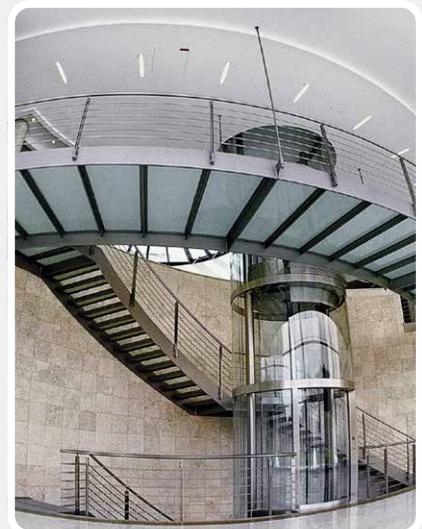




Ingersoll Werkzeuge GmbH is specialized in the production of cutting tools with an excellent vibration-free performance in both standard and special-purpose design.

In addition to very successful solutions for heavy-duty milling and the project-oriented development of special cutting tool solutions, we offer a whole range of technology potential which is applied by the most various industries.

The close cooperation with our customers for the development of technically demanding solutions for machining problems is the basis of long-term and durable partnerships – worldwide. Small as well as medium-sized companies but also international enterprises trust our professional qualification and profit from the reliability and process security of our cutting tools.

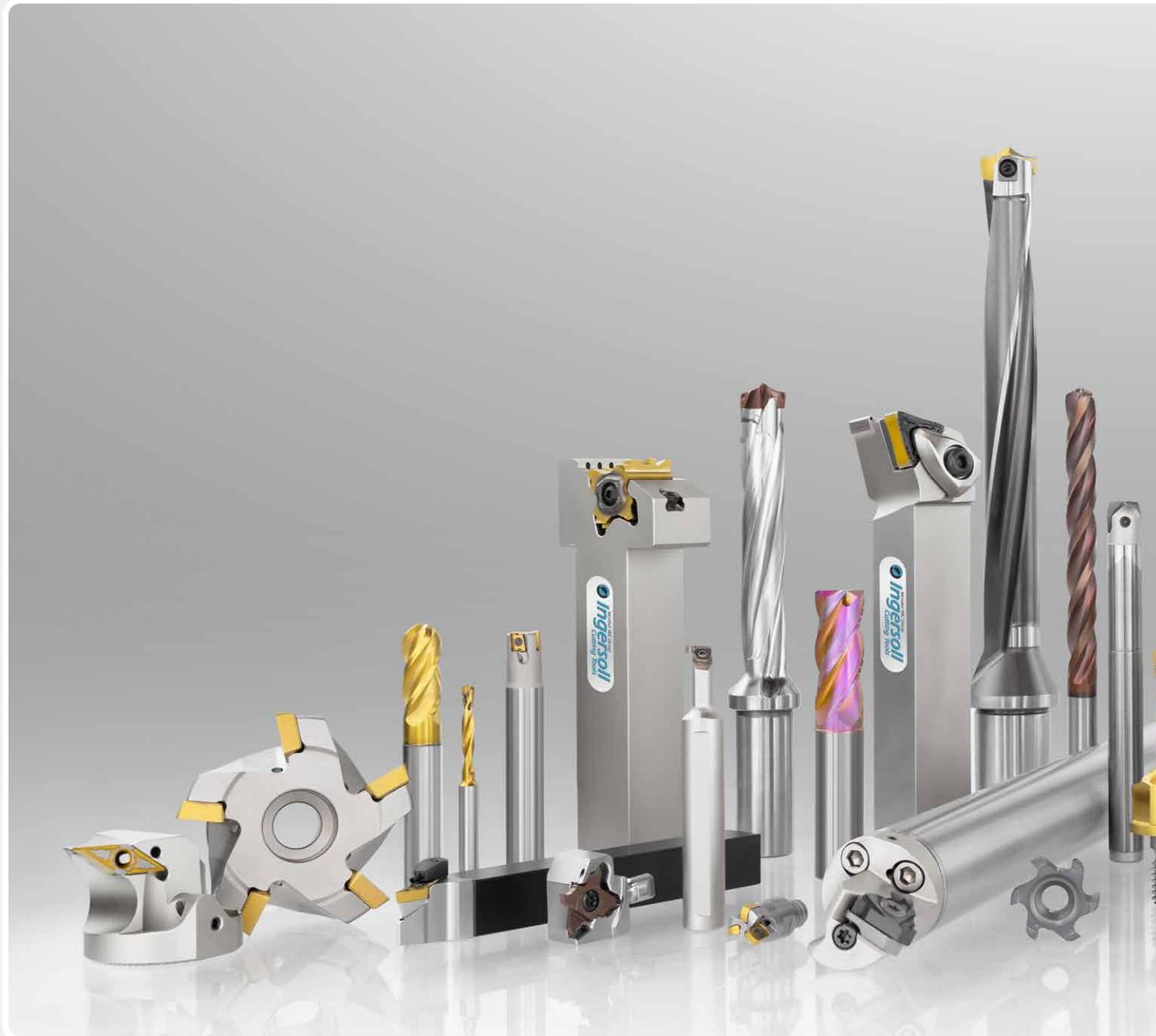




Ingersoll Werkzeuge GmbH est une entreprise spécialisée dans la fabrication d'outils coupants. Les produits standards et spéciaux sont très performants, particulièrement en matière de rigidité.

En plus de nos solutions innovantes pour le fraisage lourd et notre orientation vers le développement d'outils coupants spéciaux, nous offrons une gamme complète pouvant répondre aux technologies appliquées dans la plupart des industries.

Travailler en étroite collaboration avec nos clients afin de développer des solutions techniques en matière de fraisage, tournage et perçage, est pour nous la base d'un partenariat durable, dans le monde entier. Notre professionnalisme ainsi que la fiabilité de nos outils et la sécurité de nos process sont reconnus à la fois par des petites et moyennes entreprises mais aussi par des groupes internationaux.



Ingersoll's standard program comprises a broad and worldwide established range of cutting tools, suitable for the most various applications.

This range of cutting tools is constantly expanded: End mills, shell end mills, shoulder-type milling cutters, face mills, slotting cutters, form milling cutters, indexable drills, solid carbide, adaptations, set-up equipment and indexable inserts.

With a complete line of turning and grooving tools we can now offer our customers a new group of products, thus expanding our capabilities as a broad-range supplier. The development and production of special-purpose tools according to customer-specific requirements is another important factor for Ingersoll Werkzeuge GmbH. Our know-how and great potential of experience, combined with our own demand for quality, functionality and innovation, guarantees our customers the optimum cutting tool solution – for individual machining tasks, for all industries.



Le programme standard d'ingersoll se compose d'une gamme complète d'outils coupants reconnue au niveau international et adaptée à la plupart des usinages.

Cette gamme d'outils coupants se développe constamment: fraise à surfacer, à dresser, à rainurer, 3 tailles, fraises de forme, attachements, moyens de réglage et plaquettes indexables.

La seconde activité importante d'Ingersoll outils coupants est le développement et la fabrication d'outils spéciaux, réalisés selon la demande spécifique du client. Notre savoir faire ainsi que notre expérience, alliés à un souci de qualité, de fonctionnalité et d'innovation garantissent à nos clients des solutions optimales d'outils coupants pour tous les types d'usinage et d'industries.

| | | |
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TURNING INSERT DESIGNATION SYSTEM / SYSTEME DE DESIGNATION ISO PLAQUETTES DE TOURAGE

C

N

M

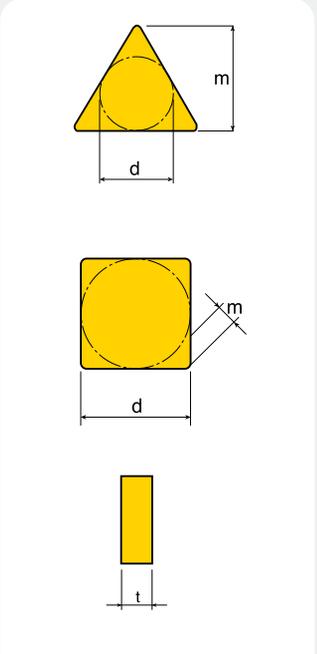
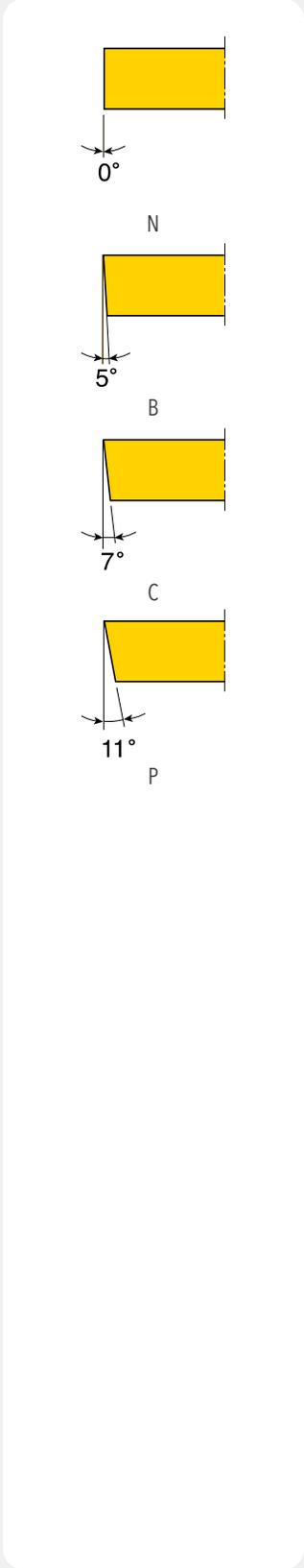
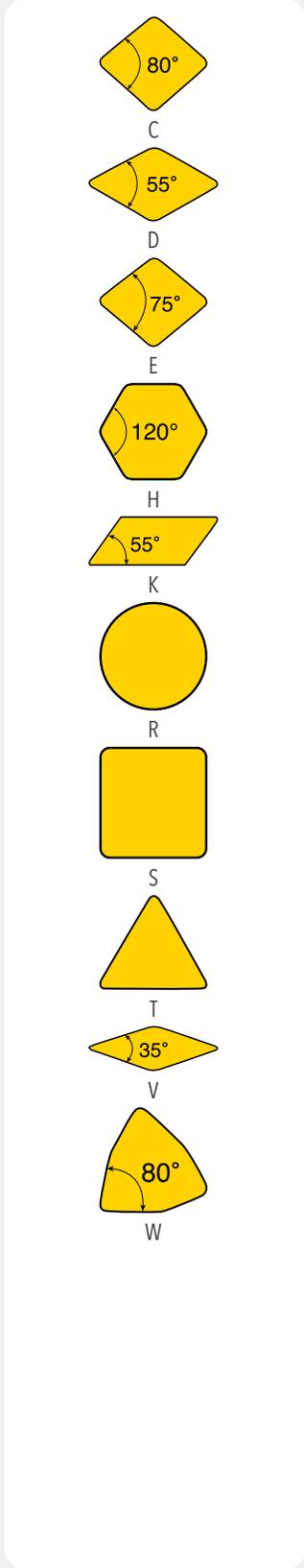
G

SHAPE / FORME DE PLAQUETTE

CLEARANCE ANGLE / ANGLE DE DEPOUILLE

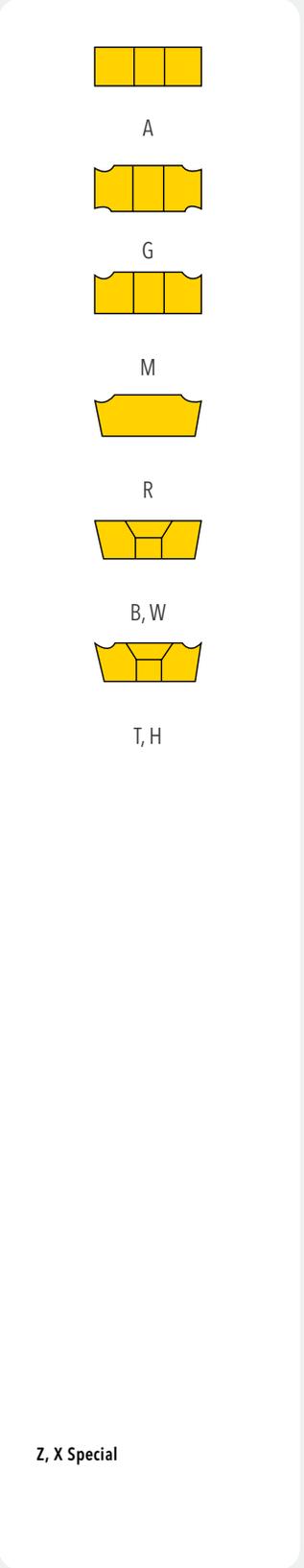
TOLERANCE / TOLÉRANCE

TYPE



| | m | t | d |
|---|---------------|--------|---------------|
| A | ±0,005 | ±0,025 | ±0,025 |
| F | ±0,005 | ±0,025 | ±0,013 |
| C | ±0,013 | ±0,025 | ±0,025 |
| H | ±0,013 | ±0,025 | ±0,013 |
| E | ±0,025 | ±0,025 | ±0,025 |
| G | ±0,025 | ±0,13 | ±0,025 |
| M | ±0,08 - ±0,18 | ±0,13 | ±0,05 - ±0,13 |
| U | ±0,13 - ±0,38 | ±0,13 | ±0,08 - ±0,25 |

| Diameter of IC Diamètre du IC | Tolerance / Tolérance on / sur m | |
|----------------------------------|-------------------------------------|---------|
| | Class M | Class U |
| 6,35 | ±0,08 | ±0,13 |
| 9,52 | ±0,08 | ±0,13 |
| 12,70 | ±0,13 | ±0,20 |
| 15,88 | ±0,15 | ±0,27 |
| 19,05 | ±0,15 | ±0,27 |
| 25,40 | ±0,18 | ±0,38 |
| 31,75 | ±0,18 | ±0,38 |
| | on / sur d | |
| | Class M | Class U |
| 6,35 | ±0,05 | ±0,08 |
| 9,52 | ±0,05 | ±0,08 |
| 12,70 | ±0,08 | ±0,13 |
| 15,88 | ±0,10 | ±0,18 |
| 19,05 | ±0,10 | ±0,18 |
| 25,40 | ±0,13 | ±0,25 |
| 31,75 | ±0,13 | ±0,25 |



12

04

08

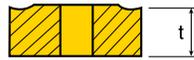
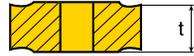
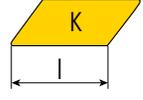
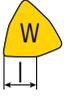
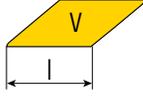
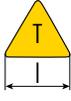
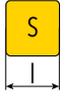
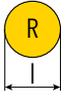
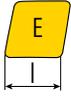
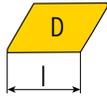
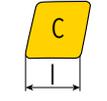
R

MP

CUTTING EDGE LENGTH /
LONGUEUR D'ARÊTE

THICKNESS / EPAISSEUR

CORNER RADIUS / RAYON

HOLDER VERSION /
SENS DE COUPECHIPBREAKER DESIGNATION /
GEOMETRIE PLAQUETTE

T1 = 1,98mm

02 = 2,38mm

T2 = 2,78mm

03 = 3,18mm

T3 = 3,97mm

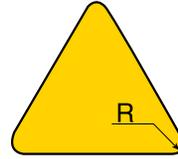
04 = 4,76mm

05 = 5,56mm

06 = 6,35mm

07 = 7,94mm

09 = 9,52mm



01 r=0,1

02 r=0,2

04 r=0,4

05 r=0,5

08 r=0,8

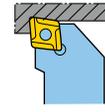
12 r=1,2

16 r=1,6

20 r=2,0

24 r=2,4

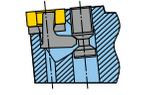
32 r=3,2

Right hand /
DroiteLeft hand /
GaucheSee chipbreaker tables
starting on page 20Voir les tableaux des
brise-copeaux à partir de
la page 20

TOOL HOLDER DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES PORTE-OUTILS

P

CLAMPING SYSTEM /
SYSTEME DE SERRAGE



B, P, H
Lever lock /
Blocage par levier



C
Top clamp /
Bridage par dessus



S
Screw clamp /
Serrage a vis



M
Multi lock /
Multi serrage



T, D
Double clamp /
Double serrage



W
Wedge clamp /
Serrage a bride

C

INSERT SHAPE /
FORME DE LA PLAQUETTE



C



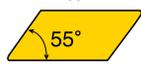
D



E



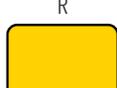
H



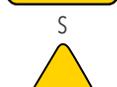
K



R



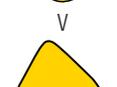
S



T



V



W

L

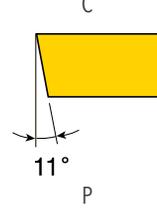
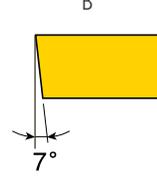
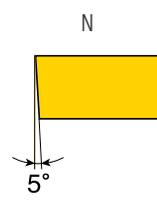
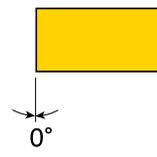
APPROACH ANGLE / ANGLE
D'ATTAQUE

| Symbol Symbole | Shape Forme | Offset Compensa- tion |
|-------------------|----------------|-----------------------------|
| A | 90° | × |
| B | 90° | × |
| D | 75° | × |
| E | 45° | × |
| F | 60° | × |
| G | 90° | 0 |
| J | 90° | 0 |
| K | 93° | 0 |
| L | 75° | 0 |
| M | 90° | 0 |
| N | 90° | 0 |
| R | 50° | × |
| S | 63° | × |
| T | 75° | 0 |
| U | 45° | 0 |
| V | 60° | 0 |
| W | 93° | 0 |
| X | 72,5° | × |
| Y | 60° | 0 |
| Z | SPECIAL | |
| C* | 90° | × |
| H* | 107,5° | 0 |
| Q* | 45° | 0 |

Note: 0 = I.S.O.,
× = Ingersoll standard

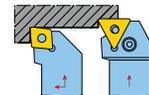
N

INSERT CLEARANCE ANGLE /
ANGLE DE DÉPOUILLE

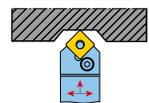


R

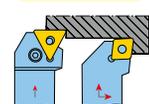
HOLDER VERSION /
SENS DE L'OUTIL



Right hand /
Droite



Neutral /
Neutre



Left hand /
Gauche

25

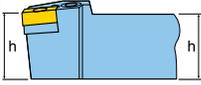
25

M

12

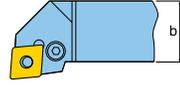
SHANK HEIGHT /
HAUTEUR

SHANK WIDTH / LARGEUR

TOOL LENGTH /
LONGUEUR DE L'OUTILCUTTING EDGE LENGTH /
LONGUEUR ARÊTE DE COUPECLASSIFICATION OF TOOL /
CLASSIFICATION DE L'OUTILMANUFACTURER'S TYPE
DESIGNATION /
DESIGNATION FABRICANT

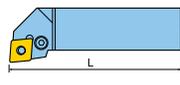
Integers to be preceded by 0
e.g.: h=8mm indicated by 08

Entiers précédés de 0
h.: h=8mm indiqué par 08

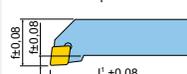
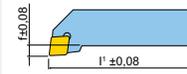
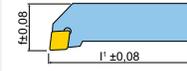
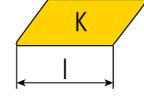
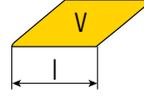
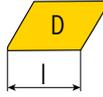


Integers to be preceded by 0
e.g.: b=8mm indicated by 08

Entiers précédés de 0
h.: b=8mm indiqué par 08



| Symbol Symbole | L (mm) |
|-------------------|---------|
| A | 32 |
| B | 40 |
| C | 50 |
| D | 60 |
| E | 70 |
| F | 80 |
| G | 90 |
| H | 100 |
| J | 110 |
| K | 125 |
| L | 140 |
| M | 150 |
| N | 160 |
| P | 170 |
| Q | 180 |
| R | 200 |
| S | 250 |
| T | 300 |
| U | 350 |
| V | 400 |
| W | 450 |
| Y | 500 |
| X | SPECIAL |



Determined by
manufacturer

Défini par le fabricant

BORING BAR DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES BARRES D'ALÉSAGE

S

32

S

C

T

BORING BAR / BARRE ALÉSAGE

BAR DIAMETER / DIAMÈTRE

TOOL LENGTH / LONGUEUR

CLAMPING SYSTEM /
SYSTEME DE SERRAGE

INSERT SHAPE /
FORME DE LA PLAQUETTE

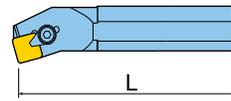
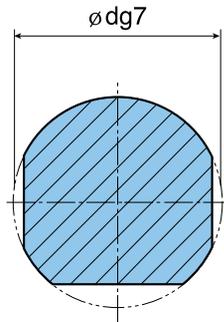
S: Steel shank /
Barre en acier
monobloc

A: Coolant through
steel shank /
Barre en acier avec
arrosage central

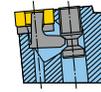
C: Carbide shank /
Barre carbure

E: Coolant through
carbide shank /
Barre carbure avec
arrosage central

X: Special /
Special



| | |
|---|---------|
| K | 125 |
| M | 150 |
| Q | 180 |
| R | 200 |
| S | 250 |
| T | 300 |
| U | 350 |
| V | 400 |
| W | 450 |
| Y | 500 |
| X | Special |



B, P, H
Lever lock /
Blocage par levier



C
Top clamp /
Bridage par dessus



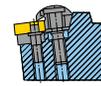
S
Screw clamp /
Serrage a vis



M
Multi lock /
Multi serrage



T, D
Double clamp /
Double serrage



W
Wedge clamp /
Serrage a bride



C



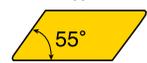
D



E



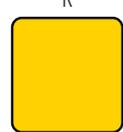
H



K



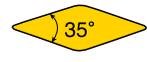
R



S



T



V



W

F

P

R

16

APPROACH ANGLE /
ANGLE D'ATTAQUE

INSERT CLEARANCE ANGLE /
ANGLE DE DÉPOUILLE Ø

HOLDER VERSION /
SENS DE L'OUTIL

CUTTING EDGE LENGTH /
LONGUEUR ARÊTE

MANUFACTURER'S DESIGNATION /
DESIGNATION FABRICANT



L



K



U



Z



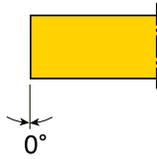
F



Q

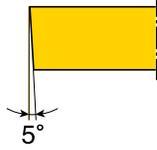


P



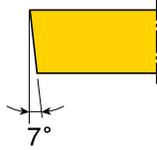
0°

N



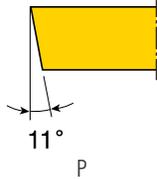
5°

B



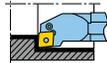
7°

C



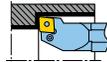
11°

P



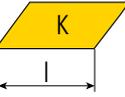
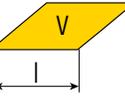
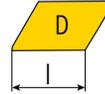
Right hand /
Droite

*Left handed insert used /
*Outil à droite



Left hand /
Gauche

*Right handed insert used /
*Outil à gauche



Determined by manufacturer
Défini par le fabricant

C-ADAPTER DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES C-ADAPTER

C4

T

C

L

N

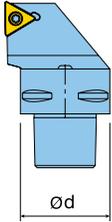
C-ADAPTER

CLAMPING SYSTEM /
SYSTEME DE SERRAGE

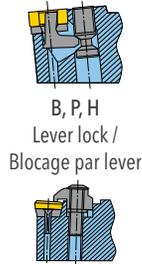
INSERT SHAPE /
FORME DE LA PLAQUETTE

APPROACH ANGLE /
ANGLE D'ATTAQUE

INSERT CLEARANCE ANGLE /
ANGLE DE DÉPOUILLE D'ATTAQUE



| Symbol | Ød (mm) |
|--------|---------|
| C4 | 40 |
| C5 | 50 |
| C6 | 63 |
| C8 | 80 |



B, P, H
Lever lock /
Blocage par lever



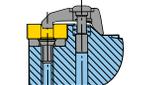
C
Top clamp /
Bridage par dessus



S
Screw clamp /
Serrage a vis



M
Multi lock /
Multi serrage



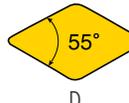
T, D
Double clamp /
Double serrage



W
Wedge clamp /
Serrage a bride



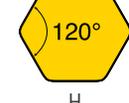
C



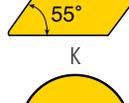
D



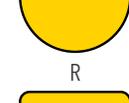
E



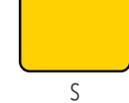
H



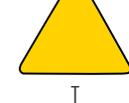
K



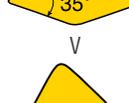
R



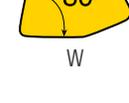
S



T



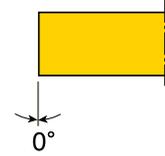
V



W

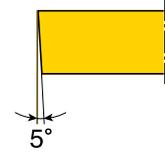
| Symbol Symbole | Shape Forme | Offset Compensa- tion |
|-------------------|----------------|-----------------------------|
| A | 90° | × |
| B | 75° | × |
| D | 45° | × |
| E | 60° | × |
| F | 90° | 0 |
| G | 90° | 0 |
| J | 93° | 0 |
| K | 75° | 0 |
| L | 95° | 0 |
| M | 50° | × |
| N | 63° | × |
| R | 75° | 0 |
| S | 45° | 0 |
| T | 60° | 0 |
| U | 93° | 0 |
| V | 72.5° | × |
| W | 60° | 0 |
| X | SPEZIAL | |
| C* | 90° | × |
| H* | 107.5° | 0 |
| Q* | 45° | 0 |

0 = I.S.O.,
× = Ingersoll Standard



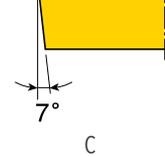
0°

N



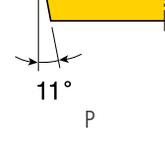
5°

B



7°

C



11°

P

R

P

R

16

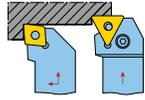
HOLDER VERSION /
SENS DE L'OUTIL

CLASSIFICATION OF TOOL /
CLASSIFICATION DE L'OUTIL

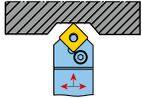
TOOL LENGTH / LONGUEUR

CUTTING EDGE LENGTH /
LONGUEUR ARETE

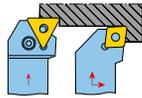
MANUFACTURER'S DESIGNATION /
DESIGNATION FABRICANT



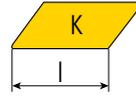
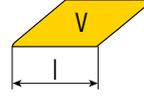
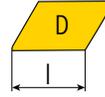
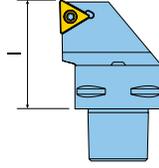
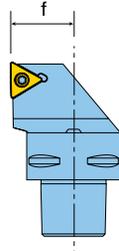
Right hand /
Droite



Neutral /
Neutre

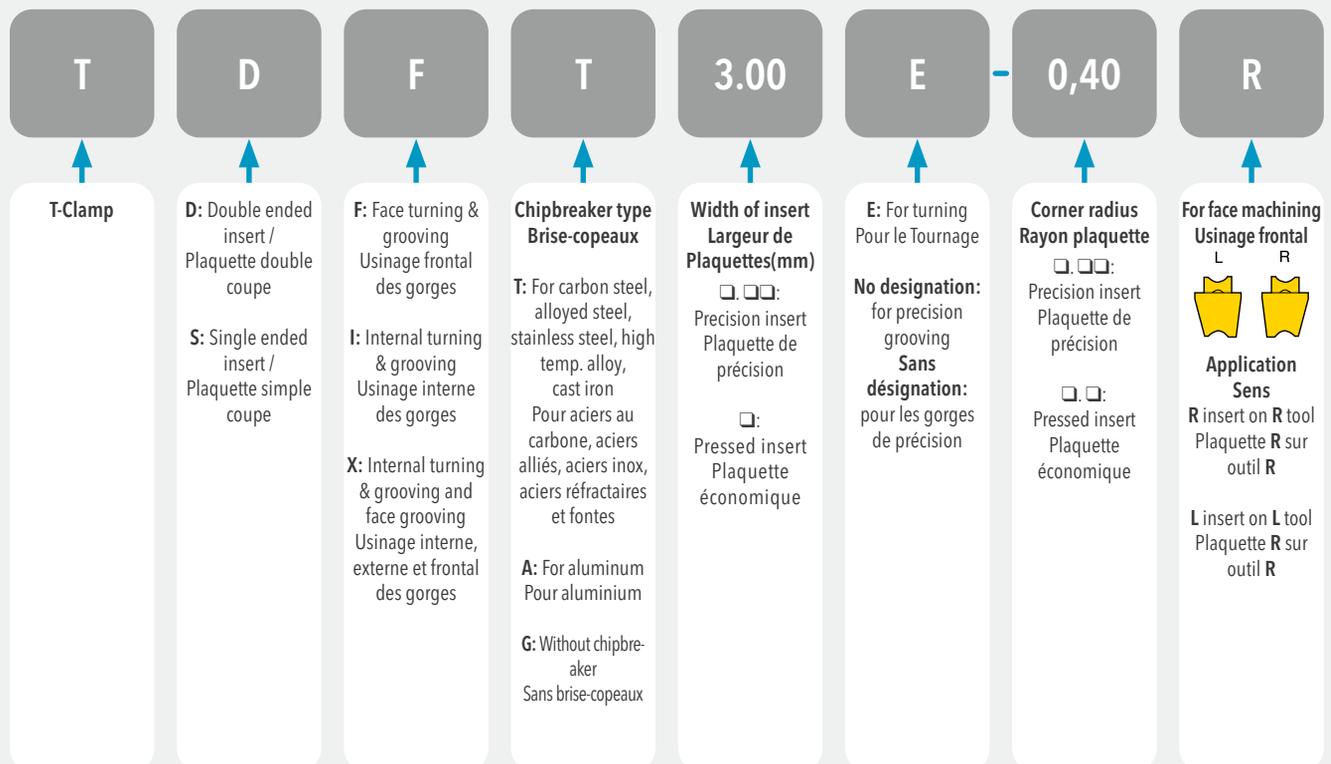
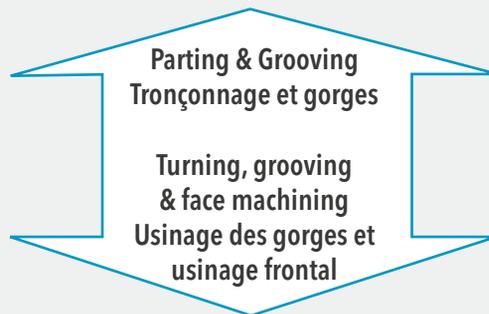
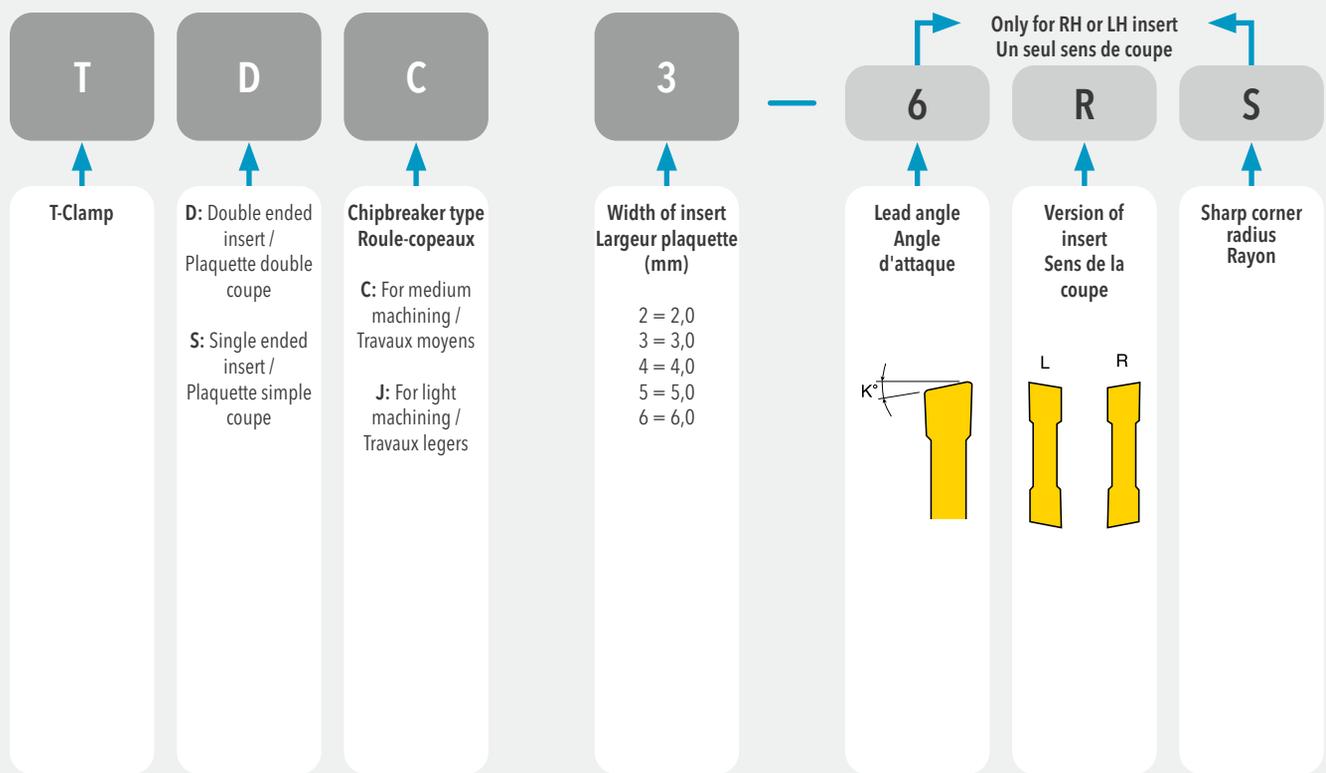


Left hand /
Gauche

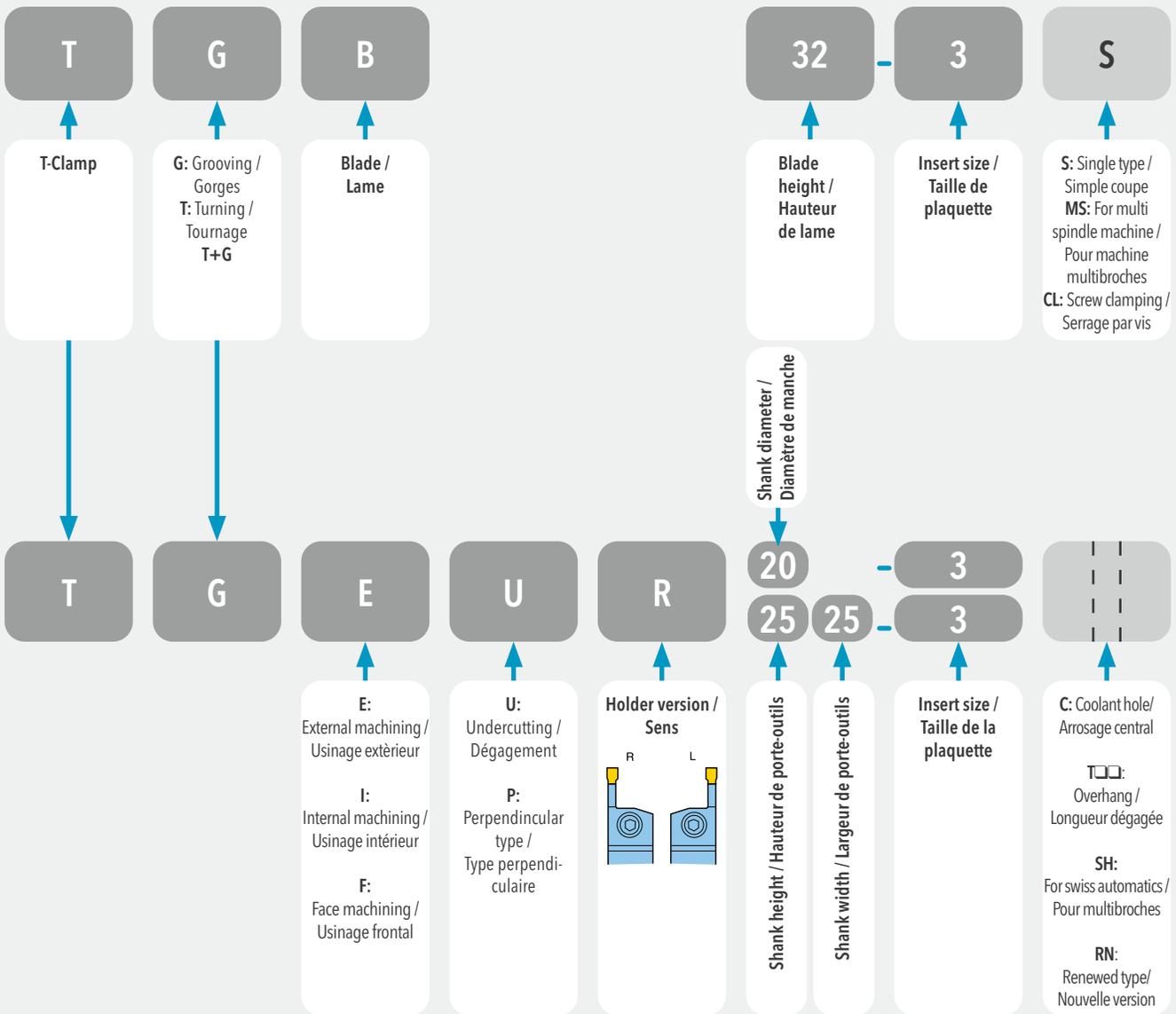


Determined by manufacturer
Défini par le fabricant

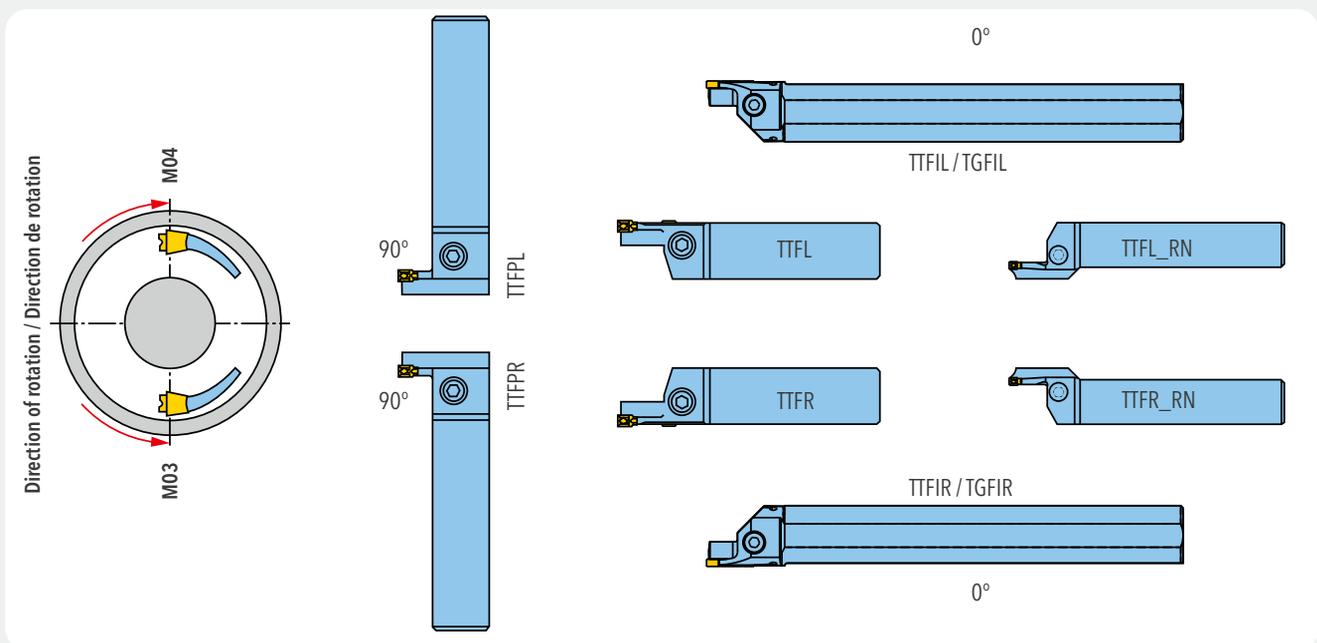
INSERT DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES PLAQUETTES T-CLAMP



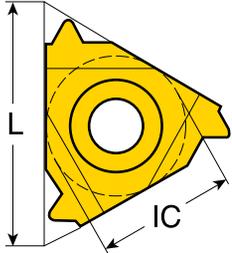
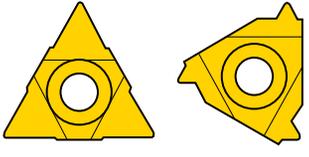
BLADE & HOLDER DESIGNATION SYSTEM / DESIGNATION DES LAMES ET PORTE-OUTIL T-CLAMP



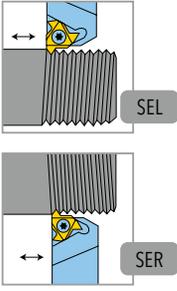
Direction of axial tools / Outils pour gorges frontales



THREAD TURNIN INSERT DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES PLAQUETTES A FILETER

| 16 | E | R | M | | | | | | | | | | | | | | |
|--|--------------------|----------------------------|-------------|------------------|----|------------------|----|-----------------|----|-----------------|----|------------------|----|------------------|---|--|---|
| INSERT SIZE / TAILLE DE PLAQUETTE | APPLICATION | HAND OF TOOL / SENS | TYPE | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="189 734 503 922"> <thead> <tr> <th>L (mm)</th> <th>IC</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>3,968 mm = 5/32"</td> </tr> <tr> <td>08</td> <td>4,762 mm = 3/16"</td> </tr> <tr> <td>11</td> <td>6,350 mm = 1/4"</td> </tr> <tr> <td>16</td> <td>9,525 mm = 3/8"</td> </tr> <tr> <td>22</td> <td>12,700 mm = 1/2"</td> </tr> <tr> <td>27</td> <td>15,875 mm = 5/8"</td> </tr> </tbody> </table> | L (mm) | IC | 06 | 3,968 mm = 5/32" | 08 | 4,762 mm = 3/16" | 11 | 6,350 mm = 1/4" | 16 | 9,525 mm = 3/8" | 22 | 12,700 mm = 1/2" | 27 | 15,875 mm = 5/8" |  <p>U-Type Regular Type / Type rectifié</p> <p>E: External / Externe</p> <p>I: Internal / Interne</p> <p>UE: U-type, external / U-type, externe</p> <p>UI: U-type, internal, U-type, interne</p> <p>UEI: U-type, external and internal / U-type externe et interne</p> | <p>R = Right hand / Droite</p> <p>L = Left hand / Gauche</p> <p>RL = Right and left hand / Droite et Gauche</p> | <p>M: Pressed chipbreaker " - No indication, regular type</p> <p>M: Brise-copeaux pressé " - Pas d'indication type rectifié</p> |
| L (mm) | IC | | | | | | | | | | | | | | | | |
| 06 | 3,968 mm = 5/32" | | | | | | | | | | | | | | | | |
| 08 | 4,762 mm = 3/16" | | | | | | | | | | | | | | | | |
| 11 | 6,350 mm = 1/4" | | | | | | | | | | | | | | | | |
| 16 | 9,525 mm = 3/8" | | | | | | | | | | | | | | | | |
| 22 | 12,700 mm = 1/2" | | | | | | | | | | | | | | | | |
| 27 | 15,875 mm = 5/8" | | | | | | | | | | | | | | | | |

THREADING TOOL HOLDERS DESIGNATION SYSTEM / SYSTEME DE DESIGNATION DES PORTE-OUTILS DE FILETAGE

| | | | |
|--|---|---|--|
| S | E | R | 2525 |
| CLAMPING SYSTEM / SYSTÈME DE SERRAGE | APPLICATION | HAND OF TOOL / SENS | SHANK SIZE / TAILLE DU MANCHE |
| <p>S = Screw clamping / Serrage par vis</p> | <p>E: External / Externe</p> <p>I: Internal / Interne</p> | <p>R = Right hand / Droite</p> <p>L = Left hand / Gauche</p>  | <p>External tool holder / Porte-outils extérieurs:</p> <p>Shank / Manche: h x b 2020 = 20 x 20 mm</p> <p>Internal tool holders / Porte-outils intérieurs:</p> <p>Shank: Diameter d Manche: Diametre d 0025 = Diameter / Diametre 25 mm</p> |

1.50

ISO

2M

TT9030

PITCH / PAS

THREAD STANDARD /
FILETAGE STANDARD

NO. OF TEETH (OPTIONAL) /
NOMBRE DE DENTS

GRADE / NUANCE

Full profile / Profil complet
(Value by number /
Valeur par nombre)
0,35 - 9,0 mm
72 - 2 TPI

Partial profile / Profil partiel
(Range by letter /
Gamme par lettre)

| | mm | TPI |
|----|------------|------------|
| A | 0,50 - 1,5 | 48 - 16 |
| AG | 0,50 - 3,0 | 48 - 8 |
| G | 1,75 - 3,0 | 14 - 8 |
| N | 3,50 - 5,0 | 7 - 5 |
| U | 5,50 - 9,0 | 4,5 - 2,75 |
| Q | 5,50 - 6,0 | 4,5 - 4 |

| | |
|--------|--|
| 60 | Partial profile / Profil partiel 60° |
| 55 | Partial profile / Profil partiel 55° |
| ISO | ISO metric / ISO metrique |
| UN | American / Américain UN |
| W | Withworth |
| BSPT | British / Anglais BSPT |
| RND | Round / Rond DIN 405 |
| TR | Trapeze / Trapezoidale DIN 103 |
| ACME | ACME |
| STACME | Stub / Court ACME |
| ABUT | American Buttress / Américain carré |
| UNJ | UNJ |
| NPT | NPT |
| API RD | API Round / Rond |
| BUT | API Buttress Casing / API Carré |
| VAM | VAM |
| API | API |

2M = 2 Teeth / Dents
3M = 3 Teeth / Dents

Coated / Revêtue
TT7010
TT8010
TT9030

Uncoated / Non-revêtue
CT3000 (Cermet)
P30

M

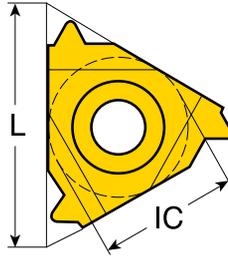
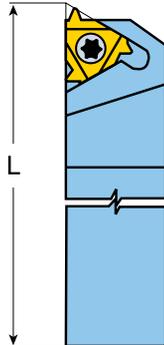
16

TOOL LENGTH / LONGUEUR OUTIL

INSERT SIZE / TAILLE DE PLAQUETTE

OPTIONAL SPECIFICATIONS /
AUTRES SPÉCIFICATION

| | mm |
|-----|-----|
| D - | 60 |
| F - | 80 |
| H - | 100 |
| K - | 125 |
| L - | 140 |
| M - | 150 |
| P - | 170 |
| R - | 200 |
| S - | 250 |
| T - | 300 |
| U - | 350 |
| V - | 400 |



| L (mm) | IC |
|--------|------------------|
| 06 | 3,968 mm = 5/32" |
| 08 | 4,762 mm = 3/16" |
| 11 | 6,350 mm = 1/4" |
| 16 | 9,525 mm = 3/8" |
| 22 | 12,700 mm = 1/2" |
| 27 | 15,875 mm = 5/8" |

U: For U-type inserts /
Pour plaquettes type U

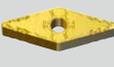
B: Bore for coolant /
Arrosage central

C: Carbide shank /
Manche en carbure

SP: Special / Spécial

Negative Inserts



| Chipbreaker name and geometry | | | | Machining and features |
|-------------------------------|---|-----------|--|--|
| FS |  | CNMG 0904 |   | <ul style="list-style-type: none"> • For super finishing • Steel machining • Excellent chip control • Minimal vibration because of low machining load |
| FA |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For super finishing • Steel, stainless steel and heat resistant alloy machining • Excellent chip control |
| EA |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For finishing • Exotic materials • Excellent chip control at low feeds and depths of cut |
| FLP |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For finishing applications for steel machining • Wide supporting area |
| FG |  | WNMG 0604 |   | <ul style="list-style-type: none"> • For finishing and semi finishing • Steel, stainless steel and cast iron machining • Low cutting forces |
| SF |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For finishing • Stainless steel and heat resistant alloy machining • Low cutting forces |
| FX |  | VNMG 1604 |   | <ul style="list-style-type: none"> • For finishing • low carbon steel • Narrow chipbreaker for excellent chip control |
| FC |  | CNMG 1204 |   | <ul style="list-style-type: none"> • Ideal for finishing • Low carbon steel & low carbon alloy steel • Effective chip breaking in both turning and facing operations |
| FM |  | CNMG 0904 |   | <ul style="list-style-type: none"> • For medium machining to semi-finishing • Steel machining |
| MLP |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For semi-finishing and medium applications on steel • Wave cutting edge |
| MC |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For medium machining • Steel and cast iron machining • Strong rake geometry • Excellent chip control on medium turning machining |
| FT |  | CNMG 0904 |   | <ul style="list-style-type: none"> • For medium machining to semi-finishing • Steel machining • Serrated cutting edge |
| PC |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For medium machining to semi-finishing • Steel & Automotive component • Positive geometry • Excellent chip control on medium machining |
| VF |  | DNMG 1504 |   | <ul style="list-style-type: none"> • For slender workpiece machining • Vibration free • Steel and stainless steel machining • High positive rake geometry to minimize cutting forces |
| MGS |  | CNMG 1204 |   | <ul style="list-style-type: none"> • Low cutting resistance and heat generation in high-temperature alloy machining • High rake angle for smooth chip formation |
| ML |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For medium light machining • Stainless steel, steel and aluminum • Very high positive rake geometry to minimize built-up-edge and cutting forces |
| MP |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For medium machining • Steel and stainless steel • High positive rake geometry to optimize machining and provide stable machining conditions |
| EM |  | CNMG 1204 |   | <ul style="list-style-type: none"> • For medium machining • Stainless steel machining • Sharp land design for low cutting force |



| Chipbreaker name and geometry | | | Machining and features | |
|-------------------------------|---|--|------------------------|--|
| MK |  | CNMG 09004  | A | <ul style="list-style-type: none"> For medium machining Stainless steel and heat resistant alloy machining Sharp geometry to minimize built-up edge |
| MM |  | CNMG 0904  | A | <ul style="list-style-type: none"> For general use Steel and stainless steel machining Positive rake angle |
| MGP |  | CNMG 1204  | A | <ul style="list-style-type: none"> Wide range for medium application on steel Wide groove and several dimples |
| MT |  | WNMG 0804  | A | <ul style="list-style-type: none"> For medium rough machining Steel, cast iron and stainless steel Tough rake angle for general use |
| MG- |  | CNMG 1204  | A | <ul style="list-style-type: none"> For medium rough machining Steel and cast iron machining Strong rake geometry Suitable for manual lathes |
| ET |  | CNMG 1204  | A | <ul style="list-style-type: none"> For roughing on exotic materials Low cutting force Wide chip control range when roughing |
| RGP |  | CNMG 1204  | A | <ul style="list-style-type: none"> For roughing applications on steel Reliable cutting edge with low cutting force |
| RT |  | CNMG 1906  | A | <ul style="list-style-type: none"> For roughing Steel and cast iron machining Very strong rake geometry |
| KT |  | CNMG 1204  | A | <ul style="list-style-type: none"> For roughing Cast iron machining Reliable, consistent performance |
| HB |  | CNMX 1607  | A | <ul style="list-style-type: none"> For semi heavy rough machining Steel and alloy steel machining Double sided semi-heavy turn insert Stable contact surface with special seat |
| RH(N) |  | CNMM 1906  | A | <ul style="list-style-type: none"> For high feed rough machining Steel, cast iron and stainless steel machining Very strong rake geometry |
| RX |  | CNMM 1906  | A | <ul style="list-style-type: none"> For semi heavy rough machining Steel, stainless steel and cast iron machining Strong cutting edge with fl at land Low cutting force |
| RH |  | CNMM 1906  | A | <ul style="list-style-type: none"> For roughing Steel, stainless steel and cast iron machining Very strong rake geometry |
| EH |  | CNMM 2509  | A | <ul style="list-style-type: none"> For heavy rough machining on stainless steel Low cutting force Excellent chip control due to specialized chip breaker One sided turn insert |
| HT |  | SNMM 1906  | A | <ul style="list-style-type: none"> For heavy rough machining Low cutting force for low horse power machines Excellent chip control due to changeable land and a flexible chip breaker |
| HY |  | CNMM 2509  | A | <ul style="list-style-type: none"> For heavy rough machining For large depth of cut and high feed Strong cutting edge credit to a wide land and large land angle |
| HZ |  | CNMM 2509  | A | <ul style="list-style-type: none"> For heavy rough machining For large depth of cut and high feed Extremely strong cutting edge credit to a wide land and large land angle |
| WS |  | CNMG 1204  | A | <ul style="list-style-type: none"> For super finishing Steel, cast iron and stainless steel machining Excellent chip control and low cutting forces |

WIPER

Negative Inserts



WIPER

WIPER

| Chipbreaker name and geometry | | Machining and features | | |
|-------------------------------|---|------------------------|---|--|
| WA |  | CNMG 0904 | A  | <ul style="list-style-type: none"> • For super finish applications • Steel, cast iron and stainless steel machining • Excellent surface roughness after machining |
| | | | B  | |
| WT |  | CNMG 1204 | A  | <ul style="list-style-type: none"> • For medium machining to roughing • Steel, cast iron and stainless steel machining • Stable cut and low cutting forces at high feed rates |
| | | | B  | |

HNMG Type Inserts



| Chipbreaker name and geometry | | Machining and features | | |
|-------------------------------|---|------------------------|---|---|
| GU |  | HNMG 0504 | A  | <ul style="list-style-type: none"> • For medium machining • For general turning of steels and cast irons • Strong rake geometry |
| | | | B  | |
| SU |  | HNMG 0504 | A  | <ul style="list-style-type: none"> • For exotic materials • Stainless steels, super alloys, low carbon steels, low carbon alloy steel machining • Sharp geometry to minimize built-up edge |
| | | | B  | |

Positive Inserts

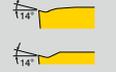
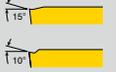
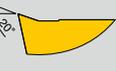


| Chipbreaker name and geometry | | Machining and features | | |
|-------------------------------|---|------------------------|---|--|
| FA |  | DCMT 11T3 | A  | <ul style="list-style-type: none"> • For super finishing • Very tight chipbreaker • Excellent chip control |
| | | | B  | |
| FG |  | CCMT 09T3 | A  | <ul style="list-style-type: none"> • For finishing to medium light machining • Steel and stainless steel machining • Low cutting forces • Excellent chip control |
| | | | B  | |
| PC |  | CCMT 09T3 | A  | <ul style="list-style-type: none"> • For medium machining • Suitable for a wide variety of materials • Low cutting force |
| | | | B  | |
| MT |  | CCMT 09T3 | A  | <ul style="list-style-type: none"> • For medium to medium rough machining • Steel, stainless steel and cast iron machining • Negative rake geometry for general use |
| | | | B  | |
| PMR- |  | TPMR 1103 | A  | <ul style="list-style-type: none"> • For medium to medium rough machining • Steel, stainless steel and cast iron • Positive rake geometry |
| | | | B  | |
| RA |  | RCMX 3209 | A  | <ul style="list-style-type: none"> • For heavy and interrupted machining • Steel, stainless steel and cast iron machining • Optimized chip groove geometry |
| | | | B  | |
| CMX- |  | RCMX 1204 | A  | <ul style="list-style-type: none"> • For high feed rough machining • Steel, stainless steel and cast iron machining • Strong rake geometry |
| | | | B  | |
| WT |  | CCMT 09T3 | A  | <ul style="list-style-type: none"> • For medium machining to roughing • Steel, cast iron and stainless steel machining • Stable cut and low cutting forces at high feed rates |
| | | | B  | |

CHIPBREAKER / BRISE COPEAUX

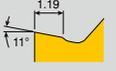
Positive Inserts - Polished



| Chipbreaker name and geometry | | | | Machining and features |
|-------------------------------|---|--------------|---|--|
| FF |  | CCGT 0301 |  | <ul style="list-style-type: none"> For finish to medium machining For small component machining Excellent surface finish |
| GF |  | CCET 0602 |  | <ul style="list-style-type: none"> For super finish machining Steel, stainless steel and alloy steel machining |
| GW |  | CCET 0602 |  | <ul style="list-style-type: none"> For super finish machining Wiper geometry for good surface finish Steel, stainless steel and alloy steel machining |
| FGS |  | VBGT 1604 |  | <ul style="list-style-type: none"> For finishing Heat resistant alloy machining |
| | | |  | |
| SL |  | CCGT 09T3 |  | <ul style="list-style-type: none"> High performance in low depth of cut and low feed machining Excellent chip segmentation due to wave geometry edge and special inclined design |
| | | |  | |
| SM |  | CCGT 09T3 |  | <ul style="list-style-type: none"> 1st recommended chip breaker for Swiss type automatic lathe Stable cutting edge and low cutting resistance |
| | | |  | |
| PC |  | CCGT 09T3 |  | <ul style="list-style-type: none"> For medium machining Suitable for a wide variety of materials Low cutting force |
| | | |  | |
| FL |  | CCGT 1209 |  | <ul style="list-style-type: none"> For finish to medium machining Aluminum machining Very high positive rake geometry to minimize built-up-edge |
| SA |  | CCGT 09T3 |  | <ul style="list-style-type: none"> For finish to medium machining Steel, stainless steel, super alloy machining Low cutting force |
| | | |  | |

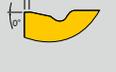
DNUX Type Inserts



| Chipbreaker name and geometry | | | | Machining and features |
|-------------------------------|---|--------------|---|---|
| 11 |  | DNUX 1304 |  | <ul style="list-style-type: none"> For medium machining with less than 5 mm depth of cut Steel and stainless steel machining Positive rake geometry to minimize cutting forces |

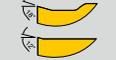
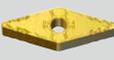
KNUX Type Inserts



| Chipbreaker name and geometry | | | | Machining and features |
|-------------------------------|---|--------------|---|--|
| 11 |  | KNUX 1604 |  | <ul style="list-style-type: none"> For medium light to medium machining Steel and stainless steel machining Positive rake geometry to minimize cutting forces Excellent chip control |
| 12 |  | KNUX 1604 |  | <ul style="list-style-type: none"> For medium to medium rough machining Steel and stainless steel Strong rake geometry Wide chip control range |

Plaquettes négatives



| Désignation du brise-copeau et géométrie | | | | Applications et caractéristiques | |
|--|---|-----------|---|----------------------------------|--|
| FS |  | CNMG 0904 |  | A | <ul style="list-style-type: none"> • Super finition • Acier • Excellent contrôle des copeaux • Vibrations minimums grâce à la réduction des efforts de coupe |
| FA |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Finition • Acier, acier inoxydable et alliages exotiques • Excellent contrôle des copeaux |
| EA |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Finition • Matériaux exotiques • Excellent contrôle des copeaux pour les avances et les profondeurs de coupe faibles |
| FLP |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Finition • Acier • Meilleure stabilité grâce à sa large surface de contact |
| FG |  | WNMG 0604 |  | A | <ul style="list-style-type: none"> • Des opérations moyennes à la finition • Acier, acier inoxydable et fonte • Efforts de coupe faibles |
| SF |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Finition • Acier inoxydable et alliages exotiques • Efforts de coupe faibles |
| FX |  | VNMG 1604 |  | A | <ul style="list-style-type: none"> • Finition • Pour les aciers doux • Brise Copeaux resserré pour contrôle copeau optimal |
| FC |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Finition fine • Acier, acier au carbone, acier de traitement • Excellent contrôle des copeaux pour les avances et les profondeurs de coupe faibles |
| FM |  | CNMG 0904 |  | A | <ul style="list-style-type: none"> • Pour les opérations d'ébauche moyenne et la semi-finition • Acier |
| MLP |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Des opérations moyennes à la finition • Acier • Arête de coupe en forme de "vague" |
| MC |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Opérations moyennes • Acier et fonte • Géométrie de taillant forte • Excellent contrôle des copeaux pour les op. moyennes de tournage |
| FT |  | CNMG 0904 |  | A | <ul style="list-style-type: none"> • Pour les opérations d'ébauche moyenne et la semi-finition • Acier • Géométrie dentelée |
| PC |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Des opérations moyennes à la semi-finition • Acier et composants automobile • Géométrie positive • Excellent contrôle des copeaux pour les opérations moyennes |
| VF |  | DNMG 1504 |  | A | <ul style="list-style-type: none"> • Application à des pièces instables • Pression de coupe très faible • Acier et acier inoxydable • Géométrie hautement positive pour minimiser les efforts de coupe |
| MGS |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Faible résistance à la coupe et faible dégagement de chaleur lors de l'usinage d'alliages exotiques • Angle de coupe élevé pour une formation de copeaux progressive |
| ML |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Des opérations faciles à moyennes • Acier inoxydable, acier et aluminium • La géométrie hautement positive de l'arête minimise les arêtes de coupe rapportées |
| MP |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Opérations moyennes • Matériaux inoxydables • Arête effilée pour une faible pression de coupe |
| EM |  | CNMG 1204 |  | A | <ul style="list-style-type: none"> • Opérations moyennes • Acier et acier inoxydable • Géométrie d'arête très positive qui optimise l'usinage lorsque les conditions sont instables |



| Désignation du brise-copeau et géométrie | | | Applications et caractéristiques | |
|--|---|---------------|--|---|
| MK |  | CNMG 09004 |  A  B | <ul style="list-style-type: none"> Opérations moyennes Acier inoxydable et superalliages Géométrie à arête vive pour minimiser le collage |
| MM |  | CNMG 0904 |  A  B | <ul style="list-style-type: none"> Opérations moyennes Acier et acier inoxydable Angle de coupe positif |
| MGP |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Opérations moyennes Acier Géométrie de coupe stable |
| MT |  | WNMG 0804 |  A  B | <ul style="list-style-type: none"> Opérations moyennes d'ébauche Acier, fonte et acier inoxydable Géométrie de coupe très stable |
| MG- |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Opérations moyennes d'ébauche Acier et fonte Géométrie de coupe stable Opérations générales |
| ET |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Ébauche de matériaux exotiques Efforts de coupe faibles Grand domaine de contrôle du copeau lors de l'ébauche |
| RGP |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Ébauche Acier Arête résistante avec une faible force de coupe |
| RT |  | CNMG 1906 |  A  B | <ul style="list-style-type: none"> Ébauche Acier et fonte Géométrie de coupe très stable |
| KT |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Ébauche Fonte Sécurisé, arête de coupe renforcée |
| HB |  | CNMX 1607 |  A  B | <ul style="list-style-type: none"> Ébauche semi-lourde Acier et acier allié Plaquette réversible Appui stable sur le logement de plaquette |
| RH(N) |  | CNMM 1906 |  A  B | <ul style="list-style-type: none"> Ébauche avec avance élevée Acier, acier inoxydable et fonte Géométrie de coupe très stable |
| RX |  | CNMM 1906 |  A  B | <ul style="list-style-type: none"> Ébauche semi-lourde Acier, acier inoxydable et fonte Arête de coupe stable avec renfort nul Pression de coupe faible |
| RH |  | CNMM 1906 |  A  B | <ul style="list-style-type: none"> Ébauche Acier, acier inoxydable et fonte Arête de coupe très stable |
| EH |  | CNMM 2509 |  A  B | <ul style="list-style-type: none"> Tournage lourd Faibles efforts de coupe Excellent contrôle copeau grâce à sa géométrie spécialement étudiée Plaquette indexable non réversible |
| HT |  | SNMM 1906 |  A  B | <ul style="list-style-type: none"> Ébauche lourde Arête de coupe très renforcée avec angle de dégagement négatif Géométrie limitant l'échauffement malgré la coupe négative |
| HY |  | CNMM 2509 |  A  B | <ul style="list-style-type: none"> Ébauche lourde Pour les grandes profondeurs de coupe et une avance élevée Arête de coupe très stable avec renfort négatif ou nul |
| HZ |  | CNMM 2509 |  A  B | <ul style="list-style-type: none"> Ébauche lourde Grandes profondeurs de coupe Très bon fractionnement de copeau |
| WS |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Finition extrême Acier, fonte et acier inoxydable Très bon contrôle des copeaux et faible pression de coupe |

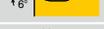
WIPER

Plaquettes négatives



WIPER

WIPER

| Désignation du brise-copeau et géométrie | | | | Applications et caractéristiques |
|--|---|-----------|--|---|
| WA |  | CNMG 0904 |  A  B | <ul style="list-style-type: none"> Ébauche Acier, fonte et acier inoxydable Excellent état de surface |
| WT |  | CNMG 1204 |  A  B | <ul style="list-style-type: none"> Finition Acier, fonte et acier inoxydable Excellentes surfaces sur un grand domaine d'avances |

Plaquette de type HNMG



| Désignation du brise-copeau et géométrie | | | | Applications et caractéristiques |
|--|---|-----------|--|--|
| GU |  | HNMG 0504 |  A  B | <ul style="list-style-type: none"> Opérations moyennes Opérations générales de tournage de l'acier et de la fonte Géométrie de coupe stable |
| SU |  | HNMG 0504 |  A  B | <ul style="list-style-type: none"> Matériaux exotiques Acier inoxydable, superalliages, acier de construction, acier faiblement allié Géométrie effilée pour minimiser les arêtes de coupe rapportées |

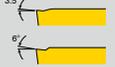
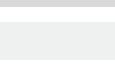
Plaquette positive



| Désignation du brise-copeau et géométrie | | | | Applications et caractéristiques |
|--|---|-----------|--|--|
| FA |  | DCMT 11T3 |  A  B | <ul style="list-style-type: none"> Super-Finition Brise de copeau très fin Excellent contrôle des copeaux |
| FG |  | CCMT 09T3 |  A  B | <ul style="list-style-type: none"> Des opérations moyennes à la finition Acier et acier inoxydable Efforts de coupe faibles Excellent contrôle des copeaux |
| PC |  | CCMT 09T3 |  A  B | <ul style="list-style-type: none"> Opérations moyennes Large domaine d'utilisation Pression de coupe faible |
| MT |  | CCMT 09T3 |  A | <ul style="list-style-type: none"> De l'ébauche moyenne aux opérations moyennes Acier, acier inoxydable et fonte Géométrie de coupe négative pour les op. générales d'usinage |
| PMR- |  | TPMR 1103 |  A | <ul style="list-style-type: none"> Ébauche moyenne à facile Acier, acier inoxydable et fonte Roule copeaux positive |
| RA |  | RCMX 3209 |  A | <ul style="list-style-type: none"> Applications lourdes et interrompues Acier, acier inoxydable et fonte Géométrie optimisée du brise-copeau |
| CMX- |  | RCMX 1204 |  A | <ul style="list-style-type: none"> Ébauche avec avance élevée Acier, acier inoxydable et fonte Géométrie de coupe stable |
| WT |  | CCMT 09T3 |  A  B | <ul style="list-style-type: none"> De l'ébauche aux opérations moyennes Acier, fonte et acier inoxydable Coupe stable et pression de coupe faible pour les avances élevées |

Plaquette positives - rectifiées



| Désignation du brise-copeau et géométrie | | | Applications et caractéristiques | |
|--|---|--------------|---|---|
| FF |  | CCGT 0301 |  | <ul style="list-style-type: none"> • Des opérations moyennes à la finition • Usinage de petites pièces • Excellente qualité de surface |
| GF |  | CCET 0602 |  | <ul style="list-style-type: none"> • Super-Finition • Acier, acier inoxydable et aciers alliés |
| GW |  | CCET 0602 |  | <ul style="list-style-type: none"> • Super-Finition • Géométrie wiper pour une bonne qualité de surface • Acier, acier inoxydable et aciers alliés |
| FGS |  | VBGT 1604 |  | <ul style="list-style-type: none"> • Finition • Alliages exotiques |
| | | |  | |
| SL |  | CCGT 09T3 |  | <ul style="list-style-type: none"> • Performances élevées lors d'opérations d'usinage avec une faible profondeur de coupe et à faible avance • Excellente fragmentation des copeaux grâce à la géométrie ondulée des arêtes et à une conception inclinée spéciale |
| | | |  | |
| SM |  | CCGT 09T3 |  | <ul style="list-style-type: none"> • 1er brise-copeaux recommandé pour les tours automatiques de décolletage • Arête de coupe stable et faible résistance de coupe |
| | | |  | |
| PC |  | CCGT 09T3 |  | <ul style="list-style-type: none"> • Opérations de moyenne-ébauche • Convient à une grande variété de matériaux • Faible force de coupe |
| | | |  | |
| FL |  | CCGT 1209 |  | <ul style="list-style-type: none"> • Des opérations moyennes à la finition • Aluminium • La géométrie hautement positive de l'arête minimise les arêtes de coupe rapportées |
| SA |  | CCGT 09T3 |  | <ul style="list-style-type: none"> • Des opérations moyennes à la finition • Usinage de l'acier et de l'aluminium • Pression de coupe faible |
| | | |  | |

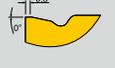
Plaquette de type DNUX



| Désignation du brise-copeau et géométrie | | | Applications et caractéristiques | |
|--|---|--------------|---|--|
| 11 |  | DNUX 1304 |  | <ul style="list-style-type: none"> • Opérations d'usinage Moyennes nécessitant moins de 5mm de profondeur de coupe • Acier et acier inoxydable • La géométrie positive de l'arête minimise les efforts de coupe |

Plaquette de type KNUX



| Désignation du brise-copeau et géométrie | | | Applications et caractéristiques | |
|--|---|--------------|---|--|
| 11 |  | KNUX 1604 |  | <ul style="list-style-type: none"> • Des opérations faciles à moyennes • Acier et acier inoxydable • La géométrie positive de l'arête minimise les efforts de coupe • Excellent contrôle des copeaux |
| 12 |  | KNUX 1604 |  | <ul style="list-style-type: none"> • Ébauche moyenne à facile • Acier et acier inoxydable • Géométrie de l'arête renforcée • Contrôle des copeaux dans un large domaine |

GRADES / NUANCES

| Application | Grade / Nuance | ISO | | | | | | |
|----------------------|----------------|---------|---------|---------|--|---------|---------|--------------------|
| Turning / Tournage | TT3005 | | | | | S05-S20 | | Harder / Dureté |
| | TT3010 | | | | | S05-S25 | | |
| | TT3020 | | | | | S10-S30 | | |
| | TT7005 | | | K01-K15 | | | | |
| | TT7015 | | | K10-K25 | | | | |
| | TT7025 | | | K10-K25 | | | | |
| | TT8105 | P01-P15 | | | | | | |
| | TT8115 | P05-P20 | | | | | | |
| | TT9215 | | M05-M20 | | | S05-S20 | | |
| | TT5080 | | M05-M25 | | | S05-S25 | | |
| | TT8125 | P15-P30 | | | | | | |
| | TT5100 | P20-P35 | | | | | | |
| | TT9225 | | M15-M30 | | | S15-S30 | | |
| | TT9020 | P20-P40 | M20-M40 | | | | | |
| | TT9080 | | M20-M40 | | | S20-S40 | | |
| | TT8135 | P25-P40 | | | | | | |
| | TT7100 | P30-P45 | | | | | | |
| | TT9235 | | M25-M40 | | | S25-S40 | | |
| | TT8080 | | M30-M50 | | | S30-S50 | | |
| | TT8020 | P30-P50 | M30-M50 | | | S30-S50 | | |
| Threading / Filetage | TT7010 | P05-P25 | | K05-K25 | | | | Harder / Dureté |
| | TT9030 | P20-P40 | M20-M40 | | | S20-S40 | | Tougher / Tenacité |
| | TT8010 | P30-P50 | M30-M50 | | | S30-S50 | | |
| Grooving / Gorges | TT6080 | | | K05-K25 | | | H05-H25 | Harder / Dureté |
| | TT9100 | P10-P25 | | | | | | Tougher / Tenacité |
| | TT5100 | P20-P35 | M20-M35 | | | | | |
| | TT9080 | P20-P40 | M20-M40 | | | S20-S40 | | |
| | TT7220 | P25-P45 | M25-M45 | | | | | |
| | TT8020 | P30-P50 | M30-M50 | | | S30-S50 | | |

GRADES

| | Grade | Color | ISO range | Turning | Threading | Grooving | Workpiece material and application | |
|------------|---------|---------|--|---------|-----------|----------|--|--|
| CVD coated | TT3005 | Copper | S01-S15 | • | | | For high-speed finishing of heat-resistant superalloys | |
| | TT5100 | Gold | P20-P35 | • | | • | Medium turning of low carbon steel and alloyed steel | |
| | | | M20-M35 | | | | Medium and low speed machining of stainless steel | |
| | TT7005 | Black | K01-K15 | • | | | High speed continuous turning of gray and ductile cast iron | |
| | TT7015 | Black | K10-K25 | • | | | General, continuous and interrupted turning of gray and ductile cast iron | |
| | TT7025 | Black | K20-K35 | • | | | For low cutting speeds and interrupted turning in cast iron | |
| | TT7100 | Gold | P30-P45 | • | | | Interrupted and rough turning of steel | |
| | TT8105B | Gold | P01-P15 | • | | | High speed turning of steel | |
| | TT8115B | Gold | P05-P20 | • | | | High speed turning of steel | |
| | TT8125B | Gold | P15-P30 | • | | | General turning of steel | |
| | TT8135B | Gold | P25-P40 | • | | | Heavy interrupted turning of steel. Improved higher toughness and superior fracture resistance | |
| | TT9215 | Copper | M05-M20 | • | | | | High speed turning of stainless steel |
| | | | S05-S20 | | | | | High and medium speed machining of heat-resistant alloy |
| | TT9225 | Copper | M15-M30 | • | | | | General turning of stainless steel |
| S15-S30 | | | Medium speed machining of heat-resistant alloy | | | | | |
| TT9235 | Copper | M25-M40 | • | | | | Low speed and interrupted turning of stainless steel | |
| | | S25-S40 | | | | | Low speed machining of heat-resistant alloy | |
| PVD coated | TT3010 | Gold | S05-S25 | • | | | General turning with low cutting depths | |
| | TT3020 | Gold | S10-S30 | • | | | General turning at low to medium cutting speeds | |
| | TT4410 | Copper | P05 - P25 | • | | | | High speed turning of small parts for steel in continuous conditions |
| | | | M05 - M25 | | | | | High speed turning of small parts for stainless steel in continuous conditions |
| | | | S05 - S25 | | | | | High speed turning of small parts for titanium alloys in continuous conditions |
| | TT4430 | Copper | P20 - P40 | • | | | | General turning of small parts for steel |
| | | | M20 - M40 | | | | | General turning of small parts for stainless steel |
| | | | S20 - S40 | | | | | General turning of small parts for titanium alloys |
| | TT5080 | Gold | M05-M25 | • | | | | High speed finish turning of stainless steel |
| | | | S05-S25 | | | | | High speed turning of heat-resistant alloy |
| | TT6080 | Gold | K05-K25 | • | | • | General machining of gray and ductile cast iron | |
| | TT7010 | Gold | P05-P25 | • | | • | | Threading of steel |
| | | | K05-K25 | | | | | Threading of cast iron |
| | TT7220 | Gray | P20-P45 | • | | • | | Parting, grooving and turn grooving of steel |
| | | | M25-M45 | | | | | Parting, grooving and turn grooving of stainless steel |
| | TT8010 | Gold | P30-P50 | • | | • | | For a wide range of threading on low carbon steel and low carbon alloyed steel |
| | | | M30-M50 | | | | | For a wide range of threading on stainless steel and exotic materials |
| S30-S50 | | | Toughest grade in threading product line | | | | | |
| TT8020 | Gray | P30-P50 | • | | • | | Interrupted and rough machining of steel | |
| | | M30-M50 | | | | | Interrupted and rough machining of stainless steel | |
| TT8080 | Gold | S30-S50 | • | | | | Low speed and interrupted machining of heat-resistant alloy | |
| | | P30-P50 | | | | | PVD coated quality with high toughness for rough machining of steels | |
| | | M30-M50 | | | | | Excellent performance for stainless steel at low cutting speed and interrupted turning | |
| | | | S30-S50 | | | | Excellent performance for heat resistant alloys at low cutting speed and interrupted turning | |

| | Grade | Color | ISO range | Turning | Threading | Grooving | Workpiece material and application |
|----------------|-----------|-----------|--|---------|-----------|--|---|
| PVD coated | TT9020 | Gray | P20-P40 | • | | | For small parts turning on steel |
| | | | M20-M40 | | | | General machining of stainless steel |
| | TT9030 | Gray | P20-P40 | • | • | | General machining of steel |
| | | | M20-M40 | | | | General machining of stainless steel |
| | | | S20-S40 | | | | General machining of heat-resistant alloy |
| | TT9080 | Gold | P20-P40 | • | | | General machining of steel |
| M20-M40 | | | • General machining of stainless steel | | | | |
| | | | S20-S40 | | | | General machining of heat-resistant alloy |
| Carbide | K10 | Metal | K05-K15 | • | | | General machining of cast iron |
| | | | N05-N15 | | | | • General machining of aluminum alloys and non-ferrous materials |
| | | | S05-S15 | | | | General machining of heat-resistant alloy |
| Cermets | PV3010 | Gold | P05-P20 | • | | | High speed finish machining of carbon steel, alloyed steel, mild steel, mold steel and free cutting steel |
| | | | M05-M20 | | | | • High speed finishing of stainless steel |
| | | | K05-K20 | | | | High speed finishing of cast iron |
| | CT3000 | Metal | P10-P20 | • | | | Finish machining of carbon steel, alloyed steel, mild steel and mold steel. Good surface roughness |
| | | | M10-M20 | | | | • Finish machining of stainless steel. Good surface roughness |
| | | | K10-K20 | | | | Finish machining of cast iron |
| Coated ceramic | AB2010 | Gold | H01-H10 | • | | | High speed turning of hardened steel. Shiny yellow color |
| | SC10 | Gold | K20-K30 | • | | | Roughing of cast iron with and without coolant |
| Ceramic | AB20 | Black | H01-H10 | • | | | Turning of high hardness steel and cast iron (HRC 50-65) |
| | AB30 | Black | K05-K15 | • | | | • Continuous to light interrupted turning of cast iron without coolant |
| | | | H05-H15 | | | | High speed turning of hardened steel (HRC 40-50) |
| | AS500 | Gray | K10-K20 | • | | | • Roughing of cast iron with and without coolant |
| | AS10 | Gray | K20-K30 | • | | | • Turning of cast iron |
| | AS20 | Brown | S20-S30 | • | | | High speed turning of superalloy |
| TC430 | Green | S01-S15 | • | | | • High speed turning of superalloy. Whisker ceramics | |
| CBN | TB610 | Dark grey | H01-H10 | • | | | • Continuous turning of case hardened steel |
| | TB650 | Dark grey | H10-H20 | • | | | • General turning of case hardened steel |
| | TB670 | Dark grey | H15-H25 | • | | | • General turning of hardened steel |
| | TB730 | Dark grey | K10-K25 | • | | | • High speed precision turning of cast iron in continuous cut and interrupted cut |
| | | | S05-S20 | | | | • Severe interrupted turning of heat-resistant alloy |
| | TB2015 | Dark grey | H10-H20 | • | | | Light interrupted turning of hardened steel |
| KB90A | Dark grey | K10-K25 | • | | | High speed precision turning of cast iron | |
| PCD | KP300 | Black | N10 - N20 | • | | | • General turning of non-ferrous materials |
| | TD810 | Black | N05 - N15 | • | | | Bi-modal composition for high speed turning of non-ferrous materials, high Si aluminum alloy, ceramic and sintered tungsten carbide |

| | Nuance | Couleur | ISO Plage | Tournage | Filetage | Gorges | Applications et matières usinées | |
|----------------|---------|---------|---|----------|----------|--------|--|---|
| Revêtement CVD | TT3005 | Cuivre | S01-S15 | • | | | Pour la finition à grande vitesse de superalliages hautement résistants | |
| | TT5100 | Or | P20-P35 | • | | • | Tournage des aciers au carbone et aciers alliés à des vitesses de coupe moyennes | |
| | | | M20-M35 | | | | Usinage des inox à de basses et moyennes vitesses | |
| | TT7005 | Noir | K01-K15 | • | | | Tournage haute vitesse des fontes ductiles et fontes grises | |
| | TT7015 | Noir | K10-K25 | • | | | Général, coupe continue et interrompue des fontes grises et ductiles | |
| | TT7025 | Noir | K20-K35 | • | | | Pour des vitesses de coupe faibles et une rotation interrompue dans la fonte | |
| | TT7100 | Or | P30-P45 | • | | | Tournage ébauche et en coupe interrompue des aciers | |
| | TT8105B | Or | P01-P15 | • | | | Tournage très haute vitesse des aciers | |
| | TT8115B | Or | P05-P20 | • | | | Tournage haute vitesse des aciers | |
| | TT8125B | Or | P15-P30 | • | | | Usinage général des aciers | |
| | TT8135B | Or | P25-P40 | • | | | Usinage des aciers au choc. Nuance très tenace avec une très forte résistance à la casse | |
| | TT9215 | Cuivre | M05-M20 | • | | | | Tournage haute vitesse des Inox |
| | | | S05-S20 | | | | | Usinage des alliages exotiques à des vitesses de coupe moyennes |
| | TT9225 | Cuivre | M15-M30 | • | | | | Tournage général des Inox |
| S15-S30 | | | Usinage sous des vitesses moyennes des alliages exotiques | | | | | |
| TT9235 | Cuivre | M25-M40 | • | | | | Usinage en coupe interrompue et à basse vitesse des inox | |
| | | S25-S40 | | | | | Usinage à basse vitesse des alliages exotiques | |
| Revêtement PVD | TT3010 | Or | S05-S25 | • | | | Tournage général à faible profondeur de coupe des alliages réfractaires | |
| | TT3020 | Or | S10-S30 | • | | | Tournage général à des vitesses de coupe faibles à moyennes des alliages réfractaires | |
| | TT4410 | Cuivre | P05 - P25 | • | | | | Tournage coupe continue à grande vitesse de petites pièces en acier |
| | | | M05 - M25 | | | | | Tournage coupe continue à grande vitesse de petites pièces en acier inoxydable |
| | TT4430 | Cuivre | S05 - S25 | • | | | | Tournage en coupe continue à grande vitesse de petites pièces en alliages de titane |
| | | | P20 - P40 | | | | | Tournage général de petites pièces en acier |
| | TT4430 | Cuivre | M20 - M40 | • | | | | Tournage général de petites pièces en Inox |
| | | | S20 - S40 | | | | | Tournage général de petites pièces en alliage Titane |
| | TT5080 | Or | M05-M25 | • | | | | Finition de l'acier et de l'acier inoxydable à une vitesse de coupe élevée |
| | | | S05-S25 | | | | | Finition d'alliages exotiques à une vitesse de coupe élevée |
| | TT6080 | Or | K05-K25 | • | | | • Tronçonnage de la fonte grise et de la fonte nodulaire | |
| | TT7010 | Or | P05-P25 | • | | • | | Filetage des aciers |
| | | | K05-K25 | | | | | Filetage de la fonte |
| | TT7220 | Gris | P20-P45 | • | | | | • Tronçonnage de l'acier, aussi en coupe légèrement interrompue |
| | | | M25-M45 | | | | | • Tronçonnage des aciers inoxydables |
| | TT8010 | Or | P30-P50 | • | | | | Filetage des aciers à faible teneur en carbone et des aciers doux |
| | | | M30-M50 | | | | | Filetage des aciers inoxydables et des matériaux exotiques |
| S30-S50 | | | Nuance de coupe la plus tenace dans la ligne de produits pour le filetage | | | | | |
| TT8020 | Gris | P30-P50 | • | | | | Ébauche d'aciers en coupe interrompue | |
| | | M30-M50 | | | | | • Ébauche d'aciers inoxydables en coupe interrompue | |
| TT8020 | Gris | S30-S50 | • | | | | Ébauche en coupe interrompue d'alliages exotiques à basse vitesse de coupe | |
| | | P30-P50 | | | | | Qualité de revêtement PVD à haute ténacité pour l'usinage grossier des aciers | |
| TT8080 | Or | M30-M50 | • | | | | Pour l'acier inoxydable à faible vitesse de coupe et coupe interrompue | |
| | | S30-S50 | | | | | Pour les alliages exotiques à basse vitesse de coupe et en coupe interrompue | |

| | Nuance | Couleur | ISO Plage | Tournage | Filetage | Gorges | Applications et matières usinées |
|-------------------|------------|------------|---|----------|----------|--|---|
| Revêtement PVD | TT9020 | Gris | P20-P40 | • | | | Opérations générales de tournage des aciers |
| | | | M20-M40 | | | | Opérations générales de tournage d'aciers inoxydables |
| | TT9030 | Gris | P20-P40 | • | • | | Opérations générales de tournage des aciers |
| | | | M20-M40 | | | | Opérations générales de tournage d'aciers inoxydables |
| | | | S20-S40 | | | | Opérations générales de tournage d'alliages exotiques |
| | TT9080 | Or | P20-P40 | • | | | Opérations générales de tournage des aciers |
| M20-M40 | | | Opérations générales de tournage d'aciers inoxydables | | | | |
| | | | S20-S40 | | | | Opérations générales de tournage d'alliages exotiques |
| Carbure | K10 | Métal | K05-K15 | • | | | Opérations générales d'usinage de la fonte |
| | | | N05-N15 | | | | Opérations générales d'usinage des alliages d'aluminium et des matériaux non ferreux |
| | | | S05-S15 | | | | Opérations générales d'usinage d'alliages exotiques |
| Cermet | PV3010 | Or | P05-P20 | • | | | Finition de l'acier au carbone, de l'acier allié et de l'acier de décolletage à des vitesses de coupe élevées |
| | | | M05-M20 | | | | Finition des aciers inoxydables aux vitesses de coupe élevées |
| | | | K05-K20 | | | | Finition des fontes grises aux vitesses de coupe élevées |
| | CT3000 | Métal | P10-P20 | • | | | Finition de l'acier au carbone, de l'acier allié et de l'acier de décolletage |
| | | | M10-M20 | | | | Finition des aciers inoxydables |
| | | | K10-K20 | | | | Finition de la fonte grise avec des exigences élevées de qualité de surface |
| Céramique revêtue | AB2010 | Or | H01-H10 | • | | | Tournage de l'acier trempé à une vitesse de coupe élevée |
| | SC10 | Or | K20-K30 | • | | | Ébauche de la fonte grise à des vitesses de coupe élevées Usinage sous arrosage et usinage à sec |
| Céramique | AB20 | Noir | H01-H10 | • | | | Tournage de précision de l'acier trempé |
| | AB30 | Noir | K05-K15 | • | | | Tournage des fontes en Coupe continue ou légèrement interrompue, usinage à sec à une vitesse de coupe élevée |
| | | | H05-H15 | | | | Finition de l'acier au carbone trempé et de l'acier faiblement allié 40-55 HRC à une vitesse de coupe élevée |
| | AS500 | Gris | K10-K20 | • | | | Ébauche à des vitesses de coupe élevées, usinage à sec |
| | AS10 | Gris | K20-K30 | • | | | Ébauche à des vitesses de coupe élevées, usinage sous arrosage |
| | AS20 | Brun | S20-S30 | • | | | Tournage d'alliages à base de nickel à des vitesses de coupe élevées, grande résistance à l'usure |
| TC430 | Vert | S01-S15 | • | | | Opérations générales d'usinage des superalliages | |
| CBN | TB610 | Gris foncé | H01-H10 | • | | | Opérations générales d'usinage de l'acier cémenté en Coupe continue |
| | TB650 | Gris foncé | H10-H20 | • | | | Opérations générales d'usinage de l'acier cémenté |
| | TB670 | Gris foncé | H15-H25 | • | | | Opérations générales d'usinage de l'acier trempé |
| | TB730 | Gris foncé | K10-K25 | • | | | Opérations générales d'usinage des fontes en Coupe continue et interrompue à une vitesse de coupe élevée |
| | | | S05-S20 | | | | Opérations générales d'usinage en coupe interrompue des alliages résistants à la chaleur |
| | TB2015 | Gris foncé | H10-H20 | • | | | Tournage faiblement interrompu de l'acier trempé |
| KB90A | Gris foncé | K10-K25 | • | | | Tournage de précision d'alliages très résistants à des vitesses de coupe élevées | |
| PCD | KP300 | Noir | N10-N20 | • | | | Opérations générales d'usinage des matériaux non ferreux |
| | TD810 | Noir | N05 - N15 | • | | | Opérations générales d'usinage de l'aluminium et des matériaux non ferreux |





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GROOVING HOLDERS
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THREADING TOOL HOLDERS
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T-CAP & BORING TOOLS
T-CAP & OUTILS DE PERÇAGE

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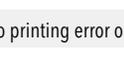


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|  | RHINO TURN CNGG 0904_ ML | Negative 80° rhombic ground inserts, for medium light machining; very sharp / Plaquettes négatives rhombiques 80°, pour finition et semi-finition, coupe affûtée et très positive | 56 |
|  | RHINO TURN CNMG 0904_ | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80°, pour ébauche | 56 |
|  | RHINO TURN CNMG 0904_ EA | Negative 80° rhombic insert, for finishing; stainless steel & exotic material / Plaquettes négatives rhombiques 80°, pour finition; aciers inoxydables & matériaux exotiques | 57 |
|  | RHINO TURN CNMG 0904_ EM | Negative 80° rhombic insert, for medium roughing; stainless steel / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche; aciers inoxydables | 57 |
|  | RHINO TURN CNMG 0904_ FG | Negative 80° rhombic insert, for finishing / Plaquettes négatives rhombiques 80°, pour finition | 58 |
|  | RHINO TURN CNMG 0904_ FM | Negative 80° rhombic insert, for finishing; for medium roughing / Plaquettes négatives rhombiques 80°, pour finition; moyenne ébauche | 58 |
|  | RHINO TURN CNMG 0904_ MK | Negative 80° rhombic insert, for stainless steel and heat resistant material / Plaquettes négatives rhombiques 80°, pour aciers inoxydables et matériaux exotiques | 59 |
|  | RHINO TURN CNMG 0904_ MM | Negative 80° rhombic insert, for large operating range / Plaquettes négatives rhombiques 80°, pour une large plage d'applications | 59 |
|  | RHINO TURN CNMG 0904_ MT | Negative 80° rhombic insert, for medium roughing; tough rake angle / Plaquettes négatives rhombiques 80°, pour semi-finition; arête renforcée | 60 |
|  | RHINO TURN CNMG 0904_ PC | Negative 80° rhombic insert, allround chip-breaker for medium roughing / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche | 60 |
|  | RHINO TURN DNGG 1305_ FU-F | Negative 55° rhombic inserts, for finishing / Plaquettes négatives rhombiques 55°, pour finition | 61 |
|  | RHINO TURN DNGG 1305_ ML | Negative 55° rhombic ground inserts, for medium light machining; very sharp / Plaquettes négatives rhombiques 55°, pour finition et semi-finition, coupe affûtée et très positive | 61 |
|  | RHINO TURN DNMG 1305_ | Negative 55° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 62 |
|  | RHINO TURN DNMG 1305_ EA | Negative 55° rhombic inserts, for finishing; stainless steel & exotic material / Plaquettes négatives rhombiques 55°, pour finition; aciers inoxydables & matériaux exotiques | 62 |

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|  | RHINO TURN DNMG 1305_FG | Negative 55° rhombic inserts, for finishing / Plaquettes négatives rhombiques 55°, pour finition | 63 |
|  | RHINO TURN DNMG 1305_FS | Negative 55° rhombic inserts, for super finishing / Plaquettes négatives rhombiques 55°, pour super-finition | 64 |
|  | RHINO TURN DNMG 1305_FT | Negative 55° rhombic inserts, for contour & copy turning / Plaquettes négatives rhombiques 55°, pour copiage | 64 |
|  | RHINO TURN DNMG 1305_MK | Negative 55° rhombic inserts, for stainless steel and heat resistant material / Plaquettes négatives rhombiques 55°, pour aciers inoxydables et matériaux exotiques | 65 |
|  | RHINO TURN DNMG 1305_MM | Negative 55° rhombic inserts, for large operating rang / Plaquettes négatives rhombiques 55°, large plage d'applications | 65 |
|  | RHINO TURN DNMG 1305_MT | Negative 55° rhombic inserts, for medium roughing; tough rake angle / Plaquettes négatives rhombiques 55°, pour semi-finition; arête renforcée | 66 |
|  | RHINO TURN DNMG 1305_PC | Negative 55° rhombic insert, allround chip-breaker for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 66 |
|  | RHINO TURN DNMG 1305_WA | Negative 55° rhombic inserts, finishing to medium application with wiper geometry / Plaquettes négatives rhombiques 55°, géométrie wiper pour les opérations de finition et semi-finition | 67 |
|  | RHINO TURN DNUX 1305_R/L11 | Negative 55° rhombic inserts, for low cutting force / Plaquettes négatives rhombiques 55°, pour de faibles efforts de coupe | 67 |
|  | RHINO TURN SNMG 0904_MT | Negative 90° square inserts, for medium roughing; tough rake angle / Plaquettes négatives carrées 90°, pour semi-finition; arête renforcée | 68 |
|  | RHINO TURN SNMG 0904_PC | Negative 90° square inserts, allround chipbreaker for medium roughing / Plaquettes négatives carrées 90°, pour moyenne-ébauche | 68 |
|  | RHINO TURN TNMG 1304_FG | Negative 60° triangular inserts, for finishing / Plaquettes négatives triangulaires 60°, pour finition | 69 |
|  | RHINO TURN TNMG 1304_FM | Negative 60° triangular inserts, for finishing; for medium roughing / Plaquettes négatives triangulaires 60°, pour finition / moyenne-ébauche | 69 |

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|  | RHINO <i>TURN</i> TNMG 1304_ FT | Negative 60° triangular inserts, for contour & copy turning / Plaquettes négatives triangulaires 60°, pour copiage | 70 |
|  | RHINO <i>TURN</i> TNMG 1304_ MT | Negative 60° triangular inserts, for medium roughing; / tough rake angle / Plaquettes négatives triangulaires 60°, pour semi-finition; arête renforcée | 71 |
|  | RHINO <i>TURN</i> TNMG 1304_ PC | Negative 60° triangular inserts, allround chip-breaker for medium roughing / Plaquettes négatives triangulaires 60°, pour moyenne-ébauche | 71 |
|  | RHINO <i>TURN</i> VNGX 1304_ FS-F | Negative 35° rhombic inserts, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 72 |
|  | RHINO <i>TURN</i> VNGX 1304_ ML | Negative 35° rhombic inserts, with low cutting force in Aluminium and high temperature alloy machining / Plaquettes négatives rhombiques 35°, faible effort de coupe dans l'usinage de l'aluminium et des alliages réfractaires | 72 |
|  | RHINO <i>TURN</i> VNMX 1304_ FG | Negative 35° rhombic inserts, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 73 |
|  | RHINO <i>TURN</i> VNMX 1304_ FM | Negative 35° rhombic inserts, for semi finishing and medium machining / Plaquettes négatives rhombiques 35°, pour les moyennes ébauches et semi-finition | 73 |
|  | RHINO <i>TURN</i> VNMX 1304_ FS | Negative 35° rhombic inserts, for super finishing / Plaquettes négatives rhombiques 35°, pour super-finition | 74 |
|  | RHINO <i>TURN</i> VNMX 1304_ MK | Negative 35° rhombic inserts, for stainless steel and heat resistant material / Plaquettes négatives rhombiques 35°, pour aciers inoxydables et matériaux exotiques | 74 |
|  | RHINO <i>TURN</i> VNMX 1304_ MT | Negative 35° rhombic inserts, for medium roughing; tough rake angle / Plaquettes négatives rhombiques 35°, pour semi-finition; arête renforcée | 75 |
|  | RHINO <i>TURN</i> VNMX 1304_ PC | Negative 35° rhombic inserts, allround chip-breaker for medium roughing / Plaquettes négatives rhombiques 35°, pour moyenne-ébauche | 75 |
|  | RHINO <i>TURN</i> WNMX 0604_ EM | Negative 80° Trigon inserts, for medium roughing; stainless steel / Plaquettes négatives trigones 80°, pour moyenne-ébauche / aciers inoxydables | 76 |
|  | RHINO <i>TURN</i> WNMX 0604_ FM | Negative 80° Trigon inserts, for finishing / Plaquettes négatives trigones 80°, pour finition | 76 |

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|  | RHINO TURN WNMX 0604_MM | Negative 80° Trigon inserts, for medium roughing / Plaquettes négatives trigones 80°, pour moyenne-ébauche | 77 |
|  | RHINO TURN WNMX 0604_MT | Negative 80° Trigon inserts, for medium roughing; tough rake angle / Plaquettes négatives trigones 80°, pour semi-finition / arête renforcée | 78 |
|  | RHINO TURN WNMX 0604_PC | Negative 80° Trigon inserts, for medium roughing / Plaquettes négatives trigones 80°, pour moyenne-ébauche | 78 |
|  | RHINO TURN YNMG 1304_FS | Negative 25° rhombic ground inserts, for super finishing / Plaquettes négatives rhombiques 25°, pour super-finition | 79 |
|  | RHINO TURN CNMX 0703_FGP | Negative 80° rhombic insert, for finishing and medium machining, Plaquettes négatives rhombiques 80°, pour finition / moyenne-ébauche | 79 |
|  | RHINO TURN DNGX 0803_SM-F | Negativ 55° Insert, for finish machining / Plaquettes négatives 55°, pour finition | 80 |
|  | RHINO TURN DNMX 0803_FGP | Negativ 55° Insert, for finishing and medium machining / Plaquettes négatives 55°, pour finition / moyenne-ébauche | 80 |
|  | RHINO TURN WNMX 0403_FGP | Negativ 80° Insert, for finishing and medium machining / Plaquettes négatives 80°, pour finition; moyenne-ébauche | 81 |
|  | RHINO TURN XNMG 0904_FLP | Negativ 70° Insert, for finishing / Plaquettes négatives 70°, pour finition | 81 |
|  | RHINO TURN XNMG 1105_FGP | Negativ 70° Insert, for finishing and medium machining / Plaquettes négatives 70°, pour finition; moyenne-ébauche | 82 |
|  | RHINO TURN XNMG 1105_MLP | Negativ 70° Insert, for medium machining / Plaquettes négatives 70°, pour moyenne-ébauche | 82 |
|  | RHINO TURN XNMG 1105_BM | Negativ 70° Insert / Plaquettes négatives 70° | 83 |
|  | TURN SPEED FCMX HFG | Positive 90° Trigon high feed inserts / Plaquelette trigon positive 90° géométrie grande avance | 83 |

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TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|--------------------------------|---|------|
|  | TURN SPEED FCMX HFP | Positive 90° Trigon high feed inserts / Plaquettes positives trigones 90° géométrie grande avance | 84 |
|  | WIN TURN TNMV BM | Negative triangular inserts with 80° corner angle / Plaquettes triangulaires négatives avec un angle d'attaque à 80° | 84 |
|  | WIN TURN TNMV BS | Negative triangular inserts with 80° corner angle / Plaquettes triangulaires négatives avec un angle d'attaque à 80° | 85 |
|  | MULTI TURN VBMX FG | Chipbreaker, negative 35° rhombic inserts / Plaquettes positives rhombiques 35°, dépouille 5° | 85 |
|  | SUPER TURN ZNMV BM | Negative rhombic inserts with 80° corner angle / Plaquettes négatives rhombiques avec un angle de 80° | 86 |
|  | SUPER TURN ZNMV BS | Negative rhombic inserts with 80° corner angle / Plaquettes négatives rhombiques avec un angle de 80° | 86 |
|  | SUPER TURN ZNMV Y-BF | Negative rhombic inserts with 35° corner angle / Plaquettes négatives rhombiques avec un angle de 35° | 87 |
|  | T FEED BNMV HF | Negative polygon Insert, for high feed roughing; steel / Plaquettes négatives, Pour ébauche grande avance; acier | 87 |
|  | T TURN CNGG ML | Negative 80° rhombic ground inserts, for medium light machining; very sharp / Plaquettes négatives rhombiques 80°, pour finition et semi-finition, coupe affûtée et très positive | 88 |
|  | T TURN CNMA | Negative 80° rhombic insert, for roughing / Plaquettes négatives rhombiques 80°, pour ébauche | 88 |
|  | T TURN CNMG | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80°, pour ébauche | 89 |
|  | T TURN CNMG EA | Negative 80° rhombic insert, for finishing; exotic material / Plaquettes négatives rhombiques 80°, pour finition / matériaux exotiques | 89 |
|  | T TURN CNMG EM | Negative 80° rhombic insert, for medium roughing; stainless steel / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche; aciers inoxydables | 90 |
|  | T TURN CNMG ET | Negative 80° rhombic insert, for roughing; exotic material / Plaquettes négatives rhombiques 80°, pour ébauche; matériaux exotiques | 90 |

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TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|---------------------------|---|------|
|  | TURN CNMG FC | Negative 80° rhombic insert, for finishing / Plaquettes négatives rhombiques 80°, pour finition | 91 |
|  | TURN CNMG FG | Negative 80° rhombic insert, for finishing / Plaquettes négatives rhombiques 80°, pour finition | 91 |
|  | TURN CNMG FLP | Negative 80° rhombic insert, for finishing / Plaquettes négatives rhombiques 80°, pour finition | 92 |
|  | TURN CNMG KT | Negative 80° rhombic insert, for roughing of cast iron / Plaquettes négatives rhombiques 80°, pour ébauche des fontes | 92 |
|  | TURN CNMG MC | Negative 80° rhombic insert, for medium machining / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche | 93 |
|  | TURN CNMG MGP | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche | 93 |
|  | TURN CNMG MGS | Negative 80° rhombic insert, for light and medium machining / Plaquettes négatives rhombiques 80°, pour semi-finition des matériaux exotiques | 94 |
|  | TURN CNMG ML | Negative 80° rhombic insert, for medium light machining; very sharp, Plaquettes négatives rhombiques 80°, pour moyenne-ébauche légère; arête vive | 94 |
|  | TURN CNMG MLP | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche | 95 |
|  | TURN CNMG MP | Negative 80° rhombic insert, for medium machi- ning; positive rake angle / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche; arête positive | 95 |
|  | TURN CNMG MT | Negative 80° rhombic insert, for medium roughing; tough rake angle / Plaquettes négati- ves rhombiques 80°, pour semi-finition; arête renforcée | 96 |
|  | TURN CNMG PC | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80°, pour moyenne-ébauche | 97 |
|  | TURN CNMG RGP | Negative 80° rhombic insert, for roughing / Plaquettes négatives rhombiques 80°, pour ébauche | 97 |
|  | TURN CNMG RT | Negative 80° rhombic insert, for roughing; wide tough rake angle / Plaquettes négatives rhombi- ques 80°, pour ébauche; arête renforcée | 98 |

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| | Designation / Désignation | Description / Description | Page |
|---|---------------------------|--|------|
|  | TURN CNMG WT | Negative 80° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 80° - Wiper, pour moyenne-ébauche | 99 |
|  | TURN CNMG WS | Negative 80° rhombic insert, for super finishing / Plaquettes négatives rhombiques 80° - Wiper, pour super-finition | 99 |
|  | TURN CNMM RH | Negative 80° rhombic insert, for high feed roughing / Plaquettes négatives rhombiques 80°, pour ébauche sous de hautes avances | 100 |
|  | TURN CNMM RH(N) | Negative 80° rhombic insert, for high feed roughing / Plaquettes négatives rhombiques 80°, pour ébauche sous de hautes avances | 100 |
|  | TURN CNMM RX | Negative 80° rhombic insert, for roughing; steel, Plaquettes négatives rhombiques 80°, pour ébauche; aciers | 101 |
|  | TURN DNGG ML | Negative 55° rhombic ground inserts, for medium light machining; very sharp, Plaquettes négatives rhombiques 55°, pour finition et semi-finition, coupe affûtée et très positive | 101 |
|  | TURN DNMA | Negative 55° rhombic inserts, for roughing / Plaquettes négatives rhombiques 55°, pour ébauche | 102 |
|  | TURN DNMG | Negative 55° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne ébauche | 102 |
|  | TURN DNMG EA | Negative 55° rhombic inserts, for finishing; exotic material / Plaquettes négatives rhombiques 55°, pour finition / matériaux exotiques | 103 |
|  | TURN DNMG EM | Negative 55° rhombic insert, for medium roughing; stainless steel / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche; aciers inoxydables | 103 |
|  | TURN DNMG ET | Negative 55° rhombic inserts, for roughing; exotic material / Plaquettes négatives rhombiques 55°, pour ébauche; matériaux exotiques | 104 |
|  | TURN DNMG FA | Negative 55° rhombic inserts, for super finishing / Plaquettes négatives rhombiques 55°, pour super-finition | 104 |
|  | TURN DNMG FC | Negative 55° rhombic insert, for finishing / Plaquettes négatives rhombiques 55°, pour finition | 105 |
|  | TURN DNMG FG | Negative 55° rhombic inserts, for finishing / Plaquettes négatives rhombiques 55°, pour finition | 105 |

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|---|-----------------------------|--|------|
|  | TTURN DNMG FLP | Negative 55° rhombic inserts, for finishing / Plaquettes négatives rhombiques 55°, pour finition | 106 |
|  | TTURN DNMG KT | Negative 55° rhombic inserts, for roughing of cast iron / Plaquettes négatives rhombiques 55°, pour ébauche des fontes | 106 |
|  | TTURN DNMG MC | Negative 55° rhombic inserts, for medium machining / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 107 |
|  | TTURN DNMG MGP | Negative 55° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 107 |
|  | TTURN DNMG MGS | Negative 55° rhombic inserts, for light and medi- um machining / Plaquettes négatives rhombiques 55°, pour semi-finition des matériaux exotiques | 108 |
|  | TTURN DNMG ML | Negative 55° rhombic inserts, for medium light machining; very sharp / Plaquettes négatives rhombiques 55°, pour semi-finition légère; arête vive | 108 |
|  | TTURN DNMG MLP | Negative 55° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 109 |
|  | TTURN DNMG MP | Negative 55° rhombic inserts, for medium machi- ning; positive rake angle / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche; arête positive | 109 |
|  | TTURN DNMG MT | Negative 55° rhombic inserts, for medium roughing; tough rake angle / Plaquettes négati- ves rhombiques 55°, pour semi-finition; arête renforcée | 110 |
|  | TTURN DNMG PC | Negative 55° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche | 111 |
|  | TTURN DNMG RT | Negative 55° rhombic inserts, for roughing; wide, tough rake angle / Plaquettes négatives rhombiques 55°, pour ébauche; arête renforcée | 111 |
|  | TTURN DNMG R/L/VF | Negative 55° rhombic inserts, for low; medium cutting force / Plaquettes négatives rhombiques 55°, pour moyenne-ébauche - réduit les efforts | 112 |
|  | TTURN DNMG WT | Negative 55° rhombic wiper inserts, for medium roughing / Plaquettes négatives rhombiques 55° -Wiper, pour moyenne-ébauche | 112 |
|  | HEXTURN HNMG GU | Negative 120° hexagonal inserts, for medium roughing / Plaquettes négatives hexagonales 120°, faible; moyen effort de coupe | 113 |

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|---|-----------------------------|--|------|
|  | HEXTURN HNMG SU | Negative 120° hexagonal inserts, for medium roughing / Plaquettes négatives hexagonales 120°, pour moyenne-ébauche | 113 |
|  | TTURN KNUX R/L 11 | Negative 55° rhombic inserts, for medium machining in profiling / Plaquettes négatives 55°, pour moyenne-ébauche en copiage | 114 |
|  | TTURN KNUX R/L 12 | Negative 55° rhombic inserts, for medium machining in profiling / Plaquettes négatives 55°, pour moyenne-ébauche en copiage | 114 |
|  | TTURN SNMA | Negative 90° square insert, for roughing / Plaquettes négatives carrées 90°, pour ébauche | 115 |
|  | TTURN SNMG | Negative 90° square inserts, for medium roughing / Plaquettes négatives carrées 90°, pour moyenne ébauche | 115 |
|  | TTURN SNMG EM | Negative 90° square inserts, for medium roughing; stainless steel / Plaquettes négatives carrées 90°, pour moyenne-ébauche; aciers inoxydables | 116 |
|  | TTURN SNMG ET | Negative 90° square inserts, for roughing; exotic material / Plaquettes négatives carrées 90°, pour ébauche / matériaux exotiques | 116 |
|  | TTURN SNMG KT | Negative 90° square inserts, for roughing of cast iron / Plaquettes négatives carrées 90°, pour ébauche des fontes | 117 |
|  | TTURN SNMG MGP | Negative 90° square inserts, for medium roughing, Plaquettes négatives carrées 90°, pour moyenne ébauche | 117 |
|  | TTURN SNMG MGS | Negative 90° square inserts, for light and medium machining / Plaquettes négatives carrées 90°, pour semi-finition des matériaux exotiques | 118 |
|  | TTURN SNMG ML | Negative 90° square inserts, for medium light machining; very sharp / Plaquettes négatives carrées 90°, pour semi-finition légère; arête vive | 118 |
|  | TTURN SNMG MP | Negative 90° square inserts, for medium machining; positive rake angle / Plaquettes négatives carrées 90°, pour moyenne-ébauche; arête de coupe positive | 119 |
|  | TTURN SNMG MT | Negative 90° square inserts, for medium roughing; tough rake angle / Plaquettes négatives carrées 90°, pour semi-finition; arête renforcée | 119 |
|  | TTURN SNMG PC | Negative 90° square inserts, for medium roughing / Plaquettes négatives carrées 90°, pour moyenne-ébauche | 120 |

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|---|---------------------------|--|------|
|  | TURN SNMG RT | Negative 90° square inserts, for roughing; wide, tough rake angle / Plaquettes négatives carrées 90°, pour ébauche; arête renforcée | 121 |
|  | TURN SNMM HT | Negative 90° square inserts, for heavy roughing / Plaquettes négatives carrées 90°, pour ébauche lourde | 122 |
|  | TURN SNMM HY | Negative 90° square inserts, for special heavy roughing / Plaquettes négatives carrées 90°, pour grosse ébauche | 122 |
|  | TURN SNMM RH | Negative 90° square inserts, for high feed roughing / Plaquettes négatives carrées 90°, pour ébauche en grande avance | 123 |
|  | TURN SNMM RX | Negative 90° square inserts, for roughing; steel / Plaquettes négatives carrées 90°, pour ébauche; aciers | 123 |
|  | TURN TNGG R/L | Negative 60° triangular inserts, for medium light machining / Plaquettes négatives triangulaires 60°, pour semi-finition légère; arête vive | 124 |
|  | TURN TNMG EA | Negative 60° triangular inserts, for finishing; exotic material / Plaquettes négatives triangulaires 60°, pour finition; matériaux exotiques | 124 |
|  | TURN TNMG EM | Negative 60° triangular inserts, for medium roughing; stainless steel / Plaquettes négatives triangulaires 60°, pour moyenne-ébauche; aciers inoxydables | 125 |
|  | TURN TNMG ET | Negative 60° triangular inserts, for roughing; exotic material / Plaquettes négatives triangulaires 60°, pour ébauche; matériaux exotiques | 125 |
|  | TURN TNMG FC | Negative 60° triangular inserts, for finishing / Plaquettes négatives triangulaires 60°, pour finition | 126 |
|  | TURN TNMG FG | Negative 60° triangular inserts, for finishing / Plaquettes négatives triangulaires 60°, pour finition | 126 |
|  | TURN TNMG FLP | Negative 60° triangular inserts, for finishing / Plaquettes négatives triangulaires 60°, pour finition | 127 |
|  | TURN TNMG KT | Negative 60° triangular inserts, for roughing of cast iron / Plaquettes négatives triangulaires 60°, pour ébauche des fontes | 127 |
|  | TURN TNMG MGP | Negative 60° triangular inserts, for medium roughing / Plaquettes négatives triangulaires 60°, pour moyenne ébauche | 128 |

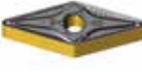
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|---|-----------------------------|--|------|
|  | TTURN TNMG MLP | Negative 60° triangular inserts, for medium roughing / Plaquettes négatives triangulaires 60°, pour moyenne ébauche | 128 |
|  | TTURN TNMG ML | Negative 60° triangular inserts, for medium light machining; very sharp / Plaquettes négatives triangulaires 60°, pour semi-finition légère; arête vive | 129 |
|  | TTURN TNMG MP | Negative 60° triangular inserts, for medium machining; positive rake angle / Plaquettes négatives triangulaires 60°, pour moyenne-ébauche; arête positive | 129 |
|  | TTURN TNMG MT | Negative 60° triangular inserts, for medium roughing; tough rake angle / Plaquettes négatives triangulaires 60°, pour semi-finition; arête renforcée | 130 |
|  | TTURN TNMG PC | Negative 60° triangular inserts, for medium roughing / Plaquettes négatives triangulaires 60°, pour moyenne-ébauche | 130 |
|  | TTURN TNMG RT | Negative 60° triangular inserts, for roughing; wide, tough rake angle / Plaquettes négatives triangulaires 60°, pour ébauche; arête renforcée | 131 |
|  | TTURN TNMG R/L-FS | Negative 60° triangular inserts, for semi finishing / Plaquettes négatives triangulaires 60°, pour semi-finition | 131 |
|  | TTURN TNMG R/L-VF | Negative 60° triangular inserts, for medium; low cutting force / Plaquettes négatives triangulaires 60°, pour moyenne-ébauche - réduit les efforts | 132 |
|  | TTURN TNMM RX | Negative 60° triangular inserts, for roughing; steel / Plaquettes négatives triangulaires 60°, pour ébauche / aciers | 132 |
|  | TTURN VNGG ML | Common type chipbreaker, negative 35° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 35°, pour finition et semi-finition, coupe affûtée et très positive | 133 |
|  | TTURN VNMG | Common type chipbreaker, negative 35° rhombic inserts, for medium roughing / Plaquettes négatives rhombiques 35°, pour moyenne-ébauche | 133 |
|  | TTURN VNMG EA | Common type chipbreaker, negative 35° rhombic inserts, for finishing; exotic material / Plaquettes négatives rhombiques 35°, pour finition; matériaux exotiques | 134 |
|  | TTURN VNMG EM | Negative 35° rhombic insert, for medium roughing; stainless steel / Plaquettes négatives rhombiques 35°, pour moyenne-ébauche; aciers inoxydables | 134 |
|  | TTURN VNMG FA | Chipbreaker, negative 35° rhombic inserts, for super finishing / Plaquettes négatives rhombiques 35°, pour super-finition | 135 |

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|---|---------------------------|--|------|
|  | TTURN VNMG FC | Negative 35° rhombic insert, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 135 |
|  | TTURN VNMG FG | Chipbreaker, negative 35° rhombic inserts, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 136 |
|  | TTURN VNMG FLP | Negative 35° rhombic insert, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 136 |
|  | TTURN VNMG FX | Chipbreaker, negative 35° rhombic inserts, for finishing / Plaquettes négatives rhombiques 35°, pour finition | 137 |
|  | TTURN VNMG MGP | Negative 35° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 35°, pour moyenne ébauche | 137 |
|  | TTURN VNMG MT | Chipbreaker, negative 35° rhombic inserts, for roughing; tough rake angle / Plaquettes négati- ves rhombiques 35°, pour semi-finition; arête renforcée | 138 |
|  | TTURN VNMG PC | Negative 35° rhombic insert, for medium roughing / Plaquettes négatives rhombiques 35°, pour moyenne-ébauche | 138 |
|  | TTURN VNMM ML | Chipbreaker, negative 35° rhombic inserts, for medium light machining; very sharp / Plaquettes négatives rhombiques 35°, pour semi-finition légère / arête vive | 139 |
|  | TTURN WNMA | Negative 80° Trigon inserts, for roughing / Plaquettes négatives trigones 80° sans Brise Copeaux, pour ébauche | 139 |
|  | TTURN WNMG EA | Chipbreaker, negative 80° trigon inserts, for finishing; exotic material / Plaquettes négatives trigones 80°, pour finition; matériaux exotiques | 140 |
|  | TTURN WNMG EM | Negative 80° Trigon inserts, for medium roughing; stainless steel / Plaquettes négatives trigones 80°, pour moyenne-ébauche; aciers inoxydables | 140 |
|  | TTURN WNMG ET | Chipbreaker, negative 80° trigon inserts, for roughing; exotic material / Plaquettes négatives trigones 80°, pour ébauche; matériaux exotiques | 141 |
|  | TTURN WNMG FC | Negative 80° Trigon inserts, for finishing / Plaquettes négatives trigones 80°, pour finition | 141 |
|  | TTURN WNMG FG | Chipbreaker, negative 80° trigon inserts, for finishing / Plaquettes négatives trigones 80°, pour finition | 142 |

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|  | TTURN WNNMG FLP | Negative 80° trigon inserts, for finishing / Plaquettes négatives trigones 80°, pour finition | 142 |
|  | TTURN WNNMG KT | Chipbreaker, negative 80° trigon inserts, for roughing of cast iron / Plaquettes négatives trigo- nes 80°, pour ébauche des fontes | 143 |
|  | TTURN WNNMG MC | Chipbreaker, negative 80° trigon inserts, for medium machining / Plaquettes négatives trigo- nes 80°, pour moyenne-ébauche | 143 |
|  | TTURN WNNMG MGP | Negative 80° trigon inserts, for medium roughing / Plaquettes négatives trigones 80°, pour moyenne ébauche | 144 |
|  | TTURN WNNMG MGS | Chipbreaker, negative 80° trigon inserts, for light and medium machining / Plaquettes négatives trigones 80°, pour la semi-finition de matériaux exotiques | 144 |
|  | TTURN WNNMG ML | Chipbreaker, negative 80° trigon inserts, for medium light machining; very sharp / Plaquettes négatives trigones 80°, pour semi-finition légère; arête vive | 145 |
|  | TTURN WNNMG MLP | Negative 80° trigon inserts, for medium roughing / Plaquettes négatives trigones 80°, pour moyenne ébauche | 145 |
|  | TTURN WNNMG MP | Chipbreaker, negative 80° trigon inserts, for medium machining; positive rake angle / Plaquettes négatives trigones 80°, pour moy- enne-ébauche; arête positive | 146 |
|  | TTURN WNNMG MT | Chipbreaker, negative 80° trigon inserts, for medium roughing; tough rake angle / Plaquettes négatives trigones 80°, pour semi-finition; arête renforcée | 147 |
|  | TTURN WNNMG PC | Negative 80° Trigon inserts, for medium roughing / Plaquettes négatives trigones 80°, pour moyenne-ébauche | 148 |
|  | TTURN WNNMG RGP | Negative 80° trigon, for roughing / Plaquettes négatives trigones 80°, pour ébauche | 148 |
|  | TTURN WNNMG RT | Chipbreaker, negative 80° trigon inserts, for roughing; wide, tough rake angle / Plaquettes négatives trigones 80°, pour ébauche; arête renforcée | 149 |
|  | TTURN WNNMG WT | Chipbreaker, negative 80° trigon wiper inserts, for medium roughing / Plaquettes négatives trigones 80° - Wiper, pour moyenne-ébauche | 149 |
|  | TTURN BTVC | Positive 35° Insert with 7° clearance, for back turning / Plaquettes positives à 35° avec une dépouille de 7°, pour le tournage en tirant | 150 |

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|  | TURN CCET GF | Chipbreaker, positive 7° clearance 80° rhombic inserts, for small parts / Plaquettes positives rhombiques 80° - dépeuille 7°, pour finition | 150 |
|  | TURN CCET GW | Chipbreaker, positive 7° clearance 80° rhombic inserts with wiper geometry, for small parts / Plaquettes positives rhombiques 80° - dépeuille 7° - Wiper, pour finition | 151 |
|  | TURN CCGT FL | Chipbreaker, Positive 7° clearance 80° rhombic inserts, for aluminum machining / Plaquettes positives rhombiques 80° - dépeuille 7°, pour usinage aluminium | 151 |
|  | TURN CCGT R-FF/L-FF | Positive 80° Insert - 7° clearance (peripheral grinded), for finishing / Plaquettes positives rhombique 80° - dépeuille 7°-affûtée, pour finition | 152 |
|  | TURN CCGT SA | Positive 80° Insert - 7° clearance (peripheral grinded), for finishing / Plaquettes positives rhombique 80° - dépeuille 7°-affûtée, pour finition | 153 |
|  | TURN CCGT SL-F | Positive 80° Insert with 7° clearance, for finishing / Plaquettes positives à 80° avec une dépeuille de 7°, pour la finition | 153 |
|  | TURN CCGT SM-F | Positive 80° Insert with 7° clearance, for general machining, Plaquettes positives à 80° avec une dépeuille de 7°, pour le tournage universel | 154 |
|  | TURN CCGT SH-F | Positive 80° Insert with 7° clearance, for general machining and roughing / Plaquettes positives à 80° avec une dépeuille de 7°, pour le tournage général et l'ébauche | 154 |
|  | TURN CCMT FA | Chipbreaker, positive 7° clearance 80° rhombic inserts, for super finishing / Plaquettes positives rhombiques 80° - dépeuille 7°, pour super-finition | 155 |
|  | TURN CCMT FG | Chipbreaker, positive 7° clearance 80° rhombic inserts, for finishing, Plaquettes positives rhombiques 80° - dépeuille 7°, pour finition | 156 |
|  | TURN CCMT FM | Positive 7° clearance 80° rhombic inserts, for semi finishing and medium machining / Plaquettes positives rhombiques 80° - dépeuille 7°, pour les opérations de moyenne ébauche et semi-finition. | 157 |
|  | TURN CCMT MT | Chipbreaker, positive 7° clearance 80° rhombic inserts, for medium machining / Plaquettes positives rhombiques 80° - dépeuille 7°, pour moyenne-ébauche | 158 |
|  | TURN CCMT PC | Positive 80° Insert - 7° clearance, for medium roughing; steel / Plaquettes positives rhombiques 80° - dépeuille 7°, pour semi-finition; aciers | 159 |
|  | TURN CCMT WT | Chipbreaker, positive 7° clearance 80° rhombic wiper insert, for medium machining, / Plaquettes positives rhombiques 80° - dépeuille 7° - Wiper, pour semi-finition | 159 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|----------------------------|--|------|
|  | TURN CPMT FM | Positive 11° clearance 80° rhombic inserts, for semi finishing and medium machining / Plaquettes positives rhombiques 80° - dépouille 11°, pour les opérations de moyenne ébauche et semi-finition | 160 |
|  | TURN CPMT PC | Positive 80° Insert - 11° clearance, for medium roughing; steel / Plaquettes positives rhombiques 80° - dépouille 11°, pour semi-finition; aciers | 160 |
|  | TURN DCET R/L-GF | Chipbreaker, positive 7° clearance 55° rhombic inserts, for small parts / Plaquettes positives rhombiques 55° - dépouille 7°, pour les petites pieces | 161 |
|  | TURN DCET GW | Chipbreaker, positive 7° clearance 55° rhombic insert with wiper geometry, for small parts / Plaquettes positives rhombiques 55° - dépouille 7° - Wiper, pour les petites pieces | 161 |
|  | TURN DCGT FL | Chipbreaker, positive 7° clearance 55° rhombic inserts, for aluminum machining / Plaquettes positives rhombiques 55° - dépouille 7°, pour usinage aluminium | 162 |
|  | TURN DCGT SA | Positive 55° Insert - 7° clearance (peripheral grinded), for finishing / Plaquettes positives rhombiques 55° - dépouille 7°-affûtée, pour finition | 162 |
|  | TURN DCGT SL-F | Positive 55° Insert with 7° clearance, for finishing; Plaquettes positives à 55° avec une dépouille de 7°, pour la finition | 163 |
|  | TURN DCGT SM-F | Positive 55° Insert with 7° clearance, for general machining; Plaquettes positives à 55° avec une dépouille de 7°, pour le tournage général | 163 |
|  | TURN DCGT SH-E/F | Positive 55° Insert with 7° clearance, for general machining and roughing; Plaquettes positives à 55° avec une dépouille de 7°, pour le tournage général et l'ébauche | 164 |
|  | TURN DCMT FA | Chipbreaker, positive 7° clearance 55° rhombic inserts, for super finishing; Plaquettes positives rhombiques 55° - dépouille 7°, pour super-finition | 164 |
|  | TURN DCMT FG | Chipbreaker, positive 7° clearance 55° rhombic inserts, for finishing / Plaquettes positives rhombiques 55° - dépouille 7°, pour finition | 165 |
|  | TURN DCMT FM | Positive 7° clearance 55° rhombic Insert, for semi finishing and medium machining / Plaquettes positives rhombiques 55° - dépouille 7°, pour les opérations de moyenne ébauche et semi-finition | 166 |
|  | TURN DCMT MT | Chipbreaker, positive 7° clearance 55° rhombic inserts, for medium machining / Plaquettes positives rhombiques 55° - dépouille 7°, pour moyenne-ébauche | 166 |
|  | TURN DCMT PC | Positive 55° Insert - 7° clearance, for medium roughing; steel / Plaquettes positives rhombiques 55° - dépouille 7°, pour semi-finition; aciers | 167 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|--------------------------------|--|------|
|  | TTURN RCGT FL | Chipbreaker, positive 7° clearance round inserts, for aluminum machining / Plaquettes positives rondes - dépeuille 7°, pour usinage aluminium | 167 |
|  | TTURN RCMT MGS | Chipbreaker, positive 7° clearance round inserts, for light and medium machining / Plaquettes positives rondes - dépeuille 7°, pour semi-finition des matériaux exotiques | 168 |
|  | TTURN RCMT MT | Chipbreaker, positive 7° clearance round inserts, for medium machining / Plaquettes positives rondes - dépeuille 7°, pour moyenne-ébauche | 168 |
|  | TTURN RCMT PC | Positive round Insert - 7° clearance, for medium roughing; steel / Plaquettes positives rondes - dépeuille 7°, pour semi-finition / aciers | 169 |
|  | TTURN RCMX | Positive 7° clearance round inserts, for roughing / Plaquettes positives rondes - dépeuille 7°, pour ébauche | 169 |
|  | TTURN RCMX RA | Positive round Insert - 7° clearance, for medium roughing; steel / Plaquettes positives rondes - dépeuille 7°, pour moyenne ébauche / aciers | 170 |
|  | TTURN SCGT FL | Chipbreaker, positive 7° clearance square inserts, for aluminum machining / Plaquettes positives carrées - dépeuille 7°, pour usinage aluminium | 170 |
|  | TTURN SCMT FG | Chipbreaker, positive 7° clearance square inserts, for finishing / Plaquettes positives carrées - dépeuille 7°, pour finition | 171 |
|  | TTURN SCMT FM | Positive 7° clearance square inserts, for semi finishing and medium machining / Plaquettes positives carrées - dépeuille 7°, pour les opérations de moyenne ébauche et semi-finition | 171 |
|  | TTURN SCMT MT | Chipbreaker, positive 7° clearance square inserts, for medium machining / Plaquettes positives carrées - dépeuille 7°, pour moyenne-ébauche | 172 |
|  | TTURN SCMT PC | Positive 90° Insert - 7° clearance, for medium roughing; steel / Plaquettes positives carrées 90° - dépeuille 7°, pour semi-finition / aciers | 173 |
|  | TTURN TBGT R-FF/L-FF | Positive 60° Insert - 5° clearance (peripheral grinded), for finishing / Plaquettes positives triangulaires 60° - dépeuille 5°-affûtée, pour finition | 173 |
|  | TTURN TCET GF | Chipbreaker, positive 7° clearance triangular inserts, for small parts / Plaquettes positives triangulaires - dépeuille 7°, pour les petites pièces | 174 |
|  | TTURN TCGT FL | Chipbreaker, positive 7° clearance triangular inserts, for aluminum machining / Plaquettes positives triangulaires - dépeuille 7°, pour usinage aluminium | 174 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|----------------------------|--|------|
|  | TURN TCGT SA | Positive 60° Insert - 7° clearance (peripheral grinded), for finishing / Plaquettes positives triangulaires 60° - dépouille 7°-affûtée, pour finition | 175 |
|  | TURN TCMT FA | Chipbreaker, positive 7° clearance triangular inserts, for super finishing / Plaquettes positives triangulaires - dépouille 7°, pour super-finition | 175 |
|  | TURN TCMT FG | Chipbreaker, positive 7° clearance triangular inserts, for finishing / Plaquettes positives triangulaires - dépouille 7°, pour finition | 176 |
|  | TURN TCMT FM | Positive 7° clearance triangular inserts, for semi finishing and medium machining / Plaquettes positives triangulaires - dépouille 7°, pour les opérations de moyenne ébauche et semi-finition | 176 |
|  | TURN TCMT MT | Chipbreaker, positive 7° clearance triangular inserts, for medium machining / Plaquettes positives triangulaires - dépouille 7°, pour moyenne-ébauche | 177 |
|  | TURN TCMT PC | Positive 60° Insert - 7° clearance, for medium roughing; steel / Plaquettes positives triangulaires 60° - dépouille 7°, pour semi-finition; aciers | 177 |
|  | TURN TPGT R/L-C | Chipbreaker, positive 11° clearance triangular ground inserts, for finishing / Plaquettes positives triangulaires - dépouille 11° -Affûtée, pour finition | 178 |
|  | TURN TPGX R/L | Chipbreaker, positive 11° clearance triangular ground inserts, for finishing / Plaquettes positives triangulaires - dépouille 11° -Affûtée, pour finition | 178 |
|  | TURN TPMT FA | Chipbreaker, positive 11° clearance triangular inserts, for super finishing / Plaquettes positives triangulaires - dépouille 11°, pour super-finition | 179 |
|  | TURN TPMT FG | Chipbreaker, positive 11° clearance triangular inserts, for finishing / Plaquettes positives triangulaires - dépouille 11°, pour finition | 179 |
|  | TURN TPMT PC | Positive 60° Insert - 11° clearance, for medium roughing; steel / Plaquettes positives triangulaires 60° - dépouille 11°, pour semi-finition; aciers | 180 |
|  | TURN VBET GF | Chipbreaker, positive 5° clearance 35° rhombic inserts, for small parts / Plaquettes positives rhombiques 35° - dépouille 5°, pour les petites pièces | 180 |
|  | TURN VBET R/L-GW | Chipbreaker, positive 5° clearance 35° rhombic inserts with wiper geometry, for small parts / Plaquettes positives rhombiques 35° - dépouille 5° - Wiper, pour les petites pièces | 181 |
|  | TURN VBGT FGS | Positive 35° Insert - 5° clearance, for light and medium machining / Plaquettes positives rhombique 35° - dépouille 5°, pour semi-finition des alliages exotiques | 181 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|---------------------------|---|------|
|  | TTURN VBGT SA | Positive 35° Insert - 5° clearance (peripheral grinded), for finishing / Plaquettes positives rhombique 35°- dépouille 5°-affûtée, pour finition | 182 |
|  | TTURN VBGT SL-F | Positive 35° Insert with 5° clearance, for finishing / Plaquettes positives à 35° avec une dépouille de 5°, pour la finition | 182 |
|  | TTURN VBGT SM-F | Positive 35° Insert with 5° clearance, for general machining / Plaquettes positives à 35° avec une dépouille de 5°, pour le tournage général | 183 |
|  | TTURN VBMT FA | Chipbreaker, negative 35° rhombic inserts, for super finishing / Plaquettes positives rhombiques 35°, dépouille 5°, pour super-finition | 183 |
|  | TTURN VBMT FG | Chipbreaker, positive 5° clearance 35° rhombic inserts, for finishing / Plaquettes positives rhombiques 35° - dépouille 5°, pour finition | 184 |
|  | TTURN VBMT FM | Positive 5° clearance 35° rhombic inserts, for semi finishing and medium machining / Plaquettes positives rhombiques 35°, dépouille 5°, pour les opérations de moyenne ébauche et semi-finition | 184 |
|  | TTURN VBMT FX | Chipbreaker, positive 5° clearance 35° rhombic inserts, for finishing / Plaquettes positives rhombiques 35° - dépouille 5°, pour finition | 185 |
|  | TTURN VBMT MT | Chipbreaker, positive 5° clearance 35° rhombic inserts, for medium machining / Plaquettes positives rhombiques 35° - dépouille 5°, pour semi-finition | 185 |
|  | TTURN VBMT PC | Positive 35° Insert - 5° clearance, for medium roughing; steel / Plaquettes positives rhombiques 35° - dépouille 5°, pour semi-finition; aciers | 186 |
|  | TTURN VCGT FL | Chipbreaker, positive 7° clearance 35° rhombic inserts, for aluminum machining / Plaquettes positives rhombiques 35° - dépouille 7°, pour usinage aluminium | 186 |
|  | TTURN VCGT SA | Positive 35° Insert - 7° clearance (peripheral grinded), for finishing / Plaquettes positives rhombique 35°- dépouille 7°-affûtée, pour finition | 187 |
|  | TTURN VCGT SL-F | Positive 35° Insert with 7° clearance, for finishing / Plaquettes positives à 35° avec une dépouille de 7°, pour la finition | 187 |
|  | TTURN VCGT SM-F | Positive 35° Insert with 7° clearance, for general machining / Plaquettes positives à 35° avec une dépouille de 7°, pour le tournage général | 188 |
|  | TTURN VCMT FM | Positive 35° Insert - 7° clearance, for semi finishing and medium machining / Plaquettes positives rhombiques 35° - dépouille 7°, pour les opérations de moyenne ébauche et semi-finition | 188 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|-------------------------------|---|------|
|  | TTURN VCMT PC | Positive 35° Insert - 7° clearance, for medium roughing; steel / Plaquettes positives rhombiques 35° - dépouille 7°, pour semi-finition; aciers | 189 |
|  | TTURN WBGTR-FF/L-FF | Positive 80° Insert - 5° clearance (peripheral grinded), for finishing / Plaquettes positives trigone 80° - dépouille 5°-affûtée, pour finition | 189 |
|  | TTURN CNGA | Negative 80° Ceramic Insert / Plaquettes céramique 80° | 190 |
|  | TTURN CNMG CE | Negative 80° Ceramic Insert, with chip breaker / Plaquettes céramique 80°, avec brise-copeaux | 190 |
|  | TTURN DNGA | Negative 55° Ceramic Insert / Plaquettes céramique 55° | 191 |
|  | TTURN DNMG CE | Negative 55° Ceramic Insert, with chip breaker / Plaquettes céramique 55°, avec brise-copeaux | 191 |
|  | TTURN RCGX | Positive Ceramic Round Insert 120° Style - 7° clearance / Plaquettes rondes céramique positives - Assise 120° - 7° | 192 |
|  | TTURN RNGN | Negative Ceramic Round Insert / Plaquettes rondes céramique | 192 |
|  | TTURN SNGA | Negative 90° Ceramic Insert / Plaquettes céramique 90° | 193 |
|  | TTURN SNGN | Negative 90° Ceramic Insert / Plaquettes céramique 90° | 193 |
|  | TTURN SNGX | Negative 90° Ceramic Insert, with dimple / Plaquettes céramique 90°, avec empreinte | 194 |
|  | TTURN SNMG CE | Negative 90° Ceramic Insert, with chip breaker / Plaquettes céramique 90°, avec brise-copeaux | 194 |
|  | TTURN TNGA | Negative 60° Ceramic Insert / Plaquettes céramique 60° | 195 |
|  | TTURN TNGN | Negative 60° Ceramic Insert / Plaquettes céramique 60° | 195 |

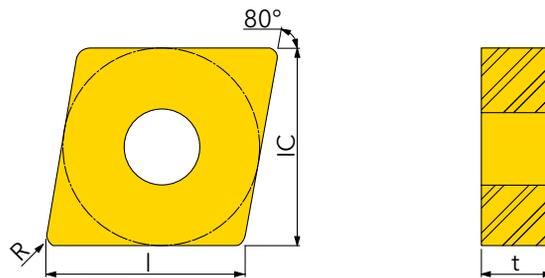
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING INSERTS / PLAQUETTES DE TOURNAGE

| | Designation / Désignation | Description / Description | Page |
|---|----------------------------|--|------|
|  | TURN VNGA | Negative 35° Ceramic Insert / Plaquettes céramique 35° | 196 |
|  | TURN WNGA | Negative 80° Ceramic Insert / Plaquettes céramique 80° | 196 |
|  | TURN CCGW LS | Positive 80° CBN Insert - 7° clearance, for high speed machining / Plaquettes CBN 80° - dépouille 7°, pour usinage haute vitesse | 197 |
|  | TURN CNGA LN/LS | Negative 80° CBN Insert, for high speed machining / Plaquettes CBN 80°, pour usinage haute vitesse | 197 |
|  | TURN CNGA LN/LS | Negative 80° CBN Insert, for high speed machining / Plaquettes CBN 80°, pour usinage haute vitesse | 198 |
|  | TURN DCGW LS | Positive 55° CBN Insert - 7° clearance, for high speed machining / Plaquettes CBN positives 55° - dépouille 7°, pour usinage haute vitesse | 198 |
|  | TURN DNGA LN/LS | Negative 55° CBN Insert, for high speed machining / Plaquettes CBN 55°, pour usinage haute vitesse | 199 |
|  | TURN TCGW LS | Positive 60° CBN Insert - 7° clearance, for high speed machining / Plaquettes CBN positives 60° - dépouille 7°, pour usinage haute vitesse | 199 |
|  | TURN VBGW LS | Positive 35° CBN Insert - 5° clearance, for high speed machining / Plaquettes CBN positives 35° - dépouille 5°, pour usinage haute vitesse | 200 |
|  | TURN VNGA LS | Negative 35° CBN Insert, for high speed machining / Plaquettes CBN 35°, pour usinage haute vitesse | 200 |
|  | TURN WNGA WZ-LS3 | Negative 80° CBN Insert with wiper geometry, for high speed machining / Plaquettes CBN 80° - Géométrie Wiper, usinage à grande vitesse | 201 |
|  | TURN CCGW LN-7 | Positive 80° PCD Insert - 7° clearance, for high speed machining for aluminum / Plaquettes avec insert PCD 7°, pour usinage haute vitesse aluminium | 201 |
|  | TURN DCGW LN-7 | Positive 55° PCD Insert - 7° clearance, for high speed machining for aluminum / Plaquettes avec insert PCD 7°, pour usinage haute vitesse aluminium | 202 |
| | | | |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

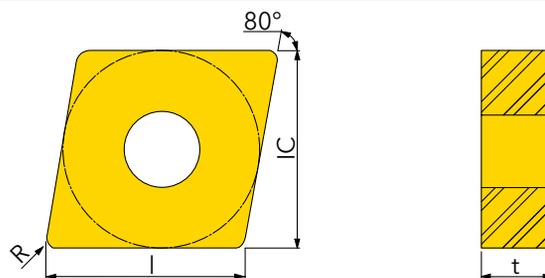
NEGATIVE 80° RHOMBIC GROUND INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION ET SEMI-FINITION, COUPE AFFÛTÉE ET TRÈS POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | TT5080 | K10 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|--------|-----|
| CNGG 090402 ML | 0,07 (0,05/0,15) | 0,3 (0,2/1,2) | 4 | 9,67 | 4,76 | 0,2 | 9,52 | | | |
| CNGG 090404 ML | 0,18 (0,10/0,30) | 1,2 (0,8/3,0) | 4 | 9,67 | 4,76 | 0,4 | 9,52 | | | |
| CNGG 090408 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,0) | 4 | 9,67 | 4,76 | 0,8 | 9,52 | | | |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

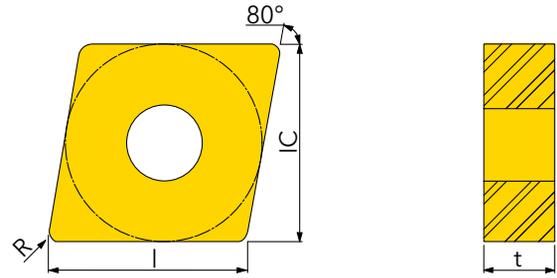
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | TT7005 | TT7015 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|--------|--------|
| CNMG 090408 | 0,35 (0,10/0,50) | 2,5 (0,5/4,0) | 4 | 9,67 | 4,76 | 0,8 | 9,52 | | ● | ● |
| CNMG 090412 | 0,40 (0,10/0,55) | 2,5 (0,5/4,0) | 4 | 9,67 | 4,76 | 1,2 | 9,52 | | ● | ● |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |

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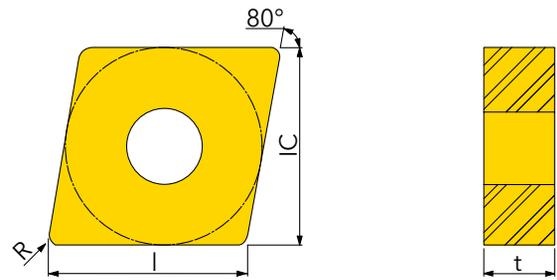
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING / STAINLESS STEEL & EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION / ACIERS INOXYDABLES & MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | I | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|--------|--------|--------|--------|
| CNMG 090404 EA | 0,12 (0,05/0,30) | 0,5 (0,1/1,5) | 4 | 9,67 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● |
| CNMG 090408 EA | 0,20 (0,07/0,40) | 0,5 (0,1/1,5) | 4 | 9,67 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | |

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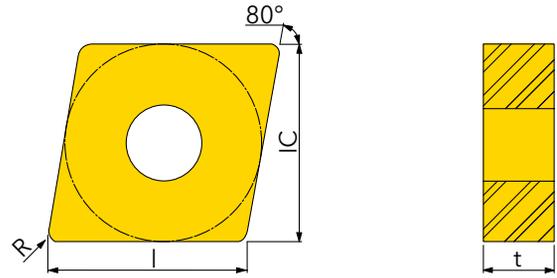
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | I | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|
| CNMG 090408 EM | 0,28 (0,13/0,40) | 2,0 (0,5/4,0) | 4 | 9,67 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● |
| CNMG 090412 EM | 0,33 (0,15/0,40) | 2,0 (0,7/4,0) | 4 | 9,67 | 4,76 | 1,2 | 9,52 | | ● | ● | ● | ● | ● |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

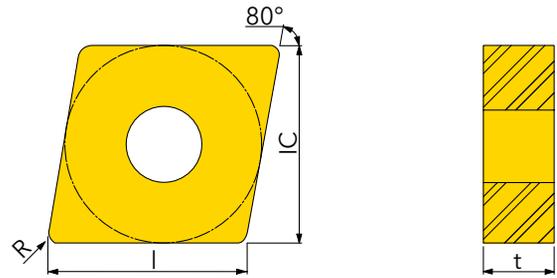
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT5100 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|---------|---------|--------|
| CNMG 090404 FG | 0,12 (0,07/0,30) | 0,8 (0,2/2,0) | 4 | 9,67 | 4,76 | 0,4 | 9,52 | | ● | ● | ● |
| CNMG 090408 FG | 0,18 (0,10/0,35) | 1,0 (0,5/2,0) | 4 | 9,67 | 4,76 | 0,8 | 9,52 | | ● | ● | ● |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | |

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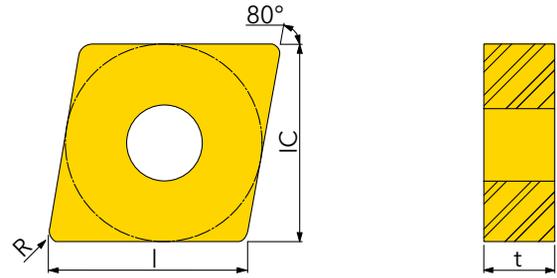
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING / FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION / MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 | TT8115B | TT8125B | TT8135B |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|---------|---------|---------|
| CNMG 090404 FM | 0,15 (0,07/0,30) | 1,0 (0,2/2,0) | 9,52 | 4,76 | 0,4 | 9,52 | | ● | | ● | ● |
| CNMG 090408 FM | 0,20 (0,10/0,35) | 1,0 (0,3/2,0) | 9,52 | 4,76 | 0,8 | 9,52 | | | ● | ● | |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | |

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NEGATIVE 80° RHOMBIC INSERT, FOR STAINLESS STEEL AND HEAT RESISTANT MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ACIERS INOXYDABLES ET MATÉRIAUX EXOTIQUES

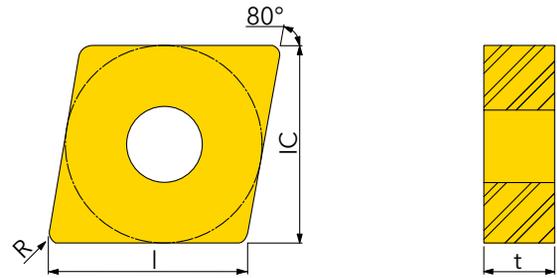


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3010 | TT5080 | TT3020 | TT9225 | TT9080 | TT9235 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|
| CNMG 090404 MK | 0,20 (0,17/0,40) | 1,8 (0,7/3,5) | 9,52 | 4,76 | 0,4 | 9,52 | | | ● | | ● | ● | ● |
| CNMG 090408 MK | 0,24 (0,20/0,45) | 2,2 (1,0/3,5) | 9,52 | 4,76 | 0,8 | 9,52 | ● | ● | ● | ● | ● | ● | ● |
| CNMG 090412 MK | 0,28 (0,23/0,50) | 2,6 (1,5/3,5) | 9,52 | 4,76 | 1,2 | 9,52 | | | ● | | ● | ● | ● |

for tool holders HC_NR/L 0904; TC_NR/L 0904; A_ - HC_NR/L 0904; A_ -TC_NR/L 0904 & A/S_ -HC_NR/L 0904
Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_ - HC_NR/L 0904; A_ -TC_NR/L 0904 & A/S_ -HC_NR/L 0904

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR LARGE OPERATING RANGE
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR UNE LARGE PLAGE D'APPLICATIONS

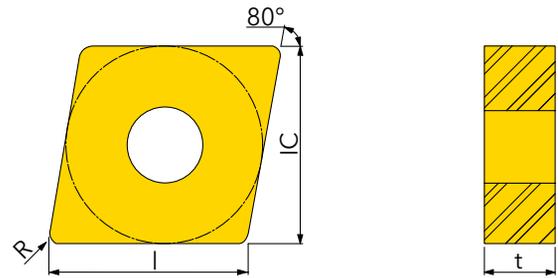


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT8125B | TT9225 | TT9080 | TT9235 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|--------|---------|--------|--------|--------|
| CNMG 090404 MM | 0,25 (0,15/0,45) | 2,0 (0,4/4,0) | 9,52 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● | ● | ● |
| CNMG 090408 MM | 0,30 (0,20/0,50) | 2,0 (0,5/4,0) | 9,52 | 4,76 | 0,8 | 9,52 | ● | ● | ● | ● | ● | ● | ● |
| CNMG 090412 MM | 0,25 (0,23/0,50) | 2,0 (0,7/4,0) | 9,52 | 4,76 | 1,2 | 9,52 | ● | ● | ● | ● | ● | ● | ● |

for tool holders HC_NR/L 0904; TC_NR/L 0904; A_ - HC_NR/L 0904; A_ -TC_NR/L 0904 & A/S_ -HC_NR/L 0904
Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_ - HC_NR/L 0904; A_ -TC_NR/L 0904 & A/S_ -HC_NR/L 0904

● = P ● = M ● = K ● = N ● = S ○ = H

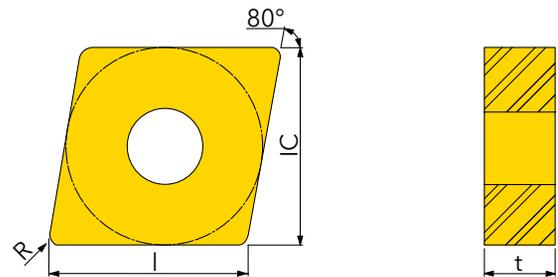
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR SEMI-FINITION / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT5080 | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|---------|--------|
| CNMG 090404 MT | 0,25 (0,10/0,35) | 2,0 (0,8/4,5) | 9,52 | 4,76 | 0,4 | 9,52 | | ● | ● | | ● | ● |
| CNMG 090408 MT | 0,30 (0,15/0,45) | 2,0 (1,0/4,5) | 9,52 | 4,76 | 0,8 | 9,52 | | | ● | ● | ● | ● |
| CNMG 090412 MT | 0,35 (0,20/0,55) | 2,0 (1,2/4,5) | 9,52 | 4,76 | 1,2 | 9,52 | | | ● | | ● | ● |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

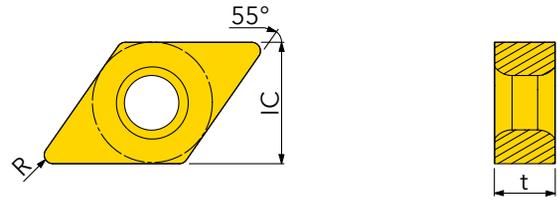
NEGATIVE 80° RHOMBIC INSERT, ALLROUND CHIPBREAKER FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9080 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|
| CNMG 090404 PC | 0,20 (0,10/0,30) | 2,0 (0,4/4,0) | 9,52 | 4,76 | 0,4 | 9,52 | | ● | ● | |
| CNMG 090408 PC | 0,25 (0,15/0,40) | 2,0 (0,5/4,0) | 9,52 | 4,76 | 0,8 | 9,52 | | ● | ● | ● |
| CNMG 090412 PC | 0,30 (0,18/0,50) | 2,0 (0,6/4,0) | 9,52 | 4,76 | 1,2 | 9,52 | | ● | ● | |
| for tool holders HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |
| Pour les porte-outils HC_NR/L 0904; TC_NR/L 0904; A_- HC_NR/L 0904; A_-TC_NR/L 0904 & A/S_-HC_NR/L 0904 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

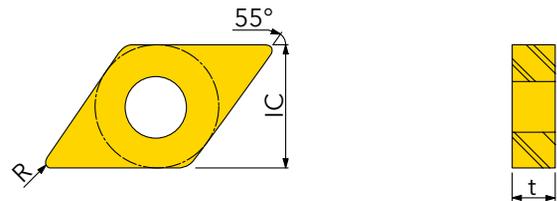
NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|----------------------------------|------------------|---------------|------|-----|-------|-----------------|--------|--------|
| DNGG 130501M FU-F | 0,08 (0,03/0,12) | 1,0 (0,2/2,5) | 5,56 | 0,1 | 11,11 | | | |
| DNGG 130502M FU-F | 0,08 (0,04/0,12) | 1,0 (0,2/2,5) | 5,56 | 0,2 | 11,11 | | | |
| DNGG 130504M FU-F | 0,08 (0,05/0,12) | 1,0 (0,4/2,5) | 5,56 | 0,4 | 11,11 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC GROUND INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION ET SEMI-FINITION, COUPE AFFÛTÉE ET TRÈS POSITIVE



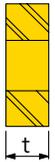
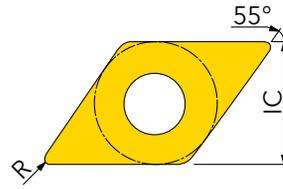
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT5080 | K10 |
|----------------------------------|------------------|---------------|------|-----|-------|-----------------|--------|-----|
| DNGG 130501 ML | 0,05 (0,03/0,10) | 0,2 (0,1/1,0) | 5,56 | 0,1 | 11,11 | | | |
| DNGG 130502 ML | 0,07 (0,05/0,15) | 0,3 (0,2/1,2) | 5,56 | 0,2 | 11,11 | | | |
| DNGG 130504 ML | 0,18 (0,10/0,30) | 1,2 (0,8/3,5) | 5,56 | 0,4 | 11,11 | | | |
| DNGG 130508 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 5,56 | 0,8 | 11,11 | | | |

for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

● = P ● = M ● = K ● = N ● = S ○ = H

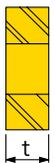
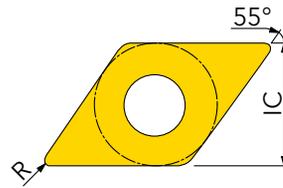
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT7015 |
|--|------------------|---------------|------|-----|-------|-----------------|--------|
| DNMG 130504 | 0,25 (0,10/0,45) | 2,5 (0,5/4,0) | 5,56 | 0,4 | 11,11 | | ● |
| DNMG 130508 | 0,35 (0,10/0,50) | 2,5 (0,5/4,0) | 5,56 | 0,8 | 11,11 | | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

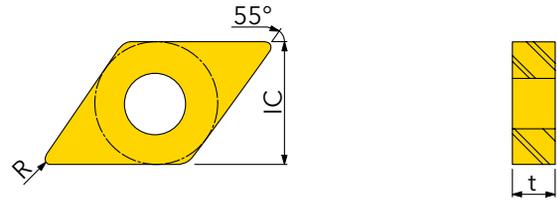
NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING / STAINLESS STEEL & EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION; ACIERS INOXYDABLES & MATERIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 |
|--|------------------|---------------|------|-----|-------|-----------------|--------|--------|--------|
| DNMG 130504 EA | 0,12 (0,05/0,30) | 0,5 (0,1/1,5) | 5,56 | 0,4 | 11,11 | | ● | ● | ● |
| DNMG 130508 EA | 0,20 (0,07/0,40) | 0,5 (0,1/1,5) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

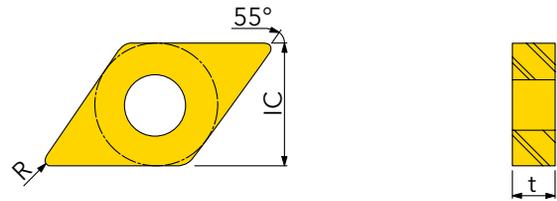
NEGATIVE 55° RHOMBIC INSERT, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9235 |
|--|------------------|---------------|------|-----|-------|-----------------|--------|--------|--------|--------|
| DNMG 130508 EM | 0,28 (0,13/0,40) | 2,0 (0,5/4,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| DNMG 130512 EM | 0,33 (0,15/0,40) | 2,0 (0,7/4,0) | 5,56 | 1,2 | 11,11 | | ● | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

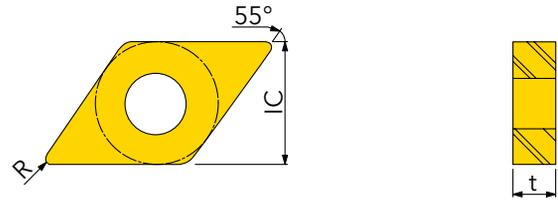
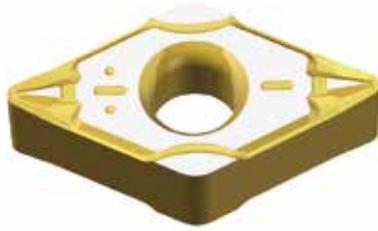
NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|-------|-----------------|---------|---------|
| DNMG 130504 FG | 0,12 (0,07/0,30) | 0,8 (0,2/2,0) | 5,56 | 0,4 | 11,11 | | ● | ● |
| DNMG 130508 FG | 0,18 (0,10/0,35) | 1,0 (0,5/2,0) | 5,56 | 0,8 | 11,11 | | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

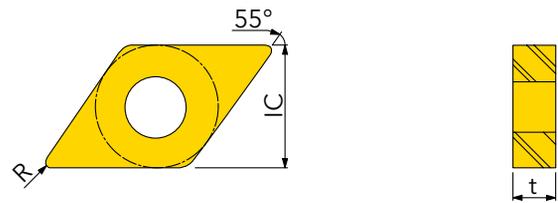
NEGATIVE 55° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8105B |
|--|------------------|---------------|------|-----|-------|-----------------|--------|--------|---------|
| DNMG 130504 FS | 0,12 (0,08/0,30) | 0,8 (0,3/2,0) | 5,56 | 0,4 | 11,11 | | ● | ● | |
| DNMG 130508 FS | 0,14 (0,10/0,30) | 1,2 (0,5/2,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

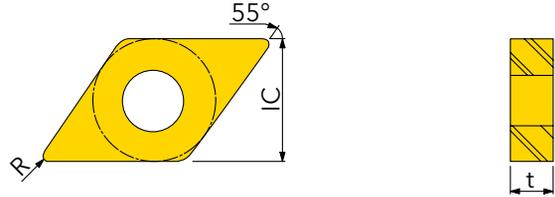
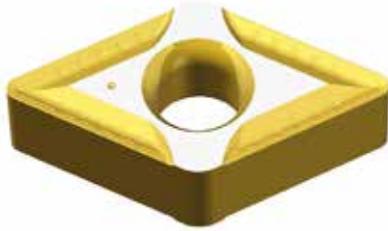
NEGATIVE 55° RHOMBIC INSERTS, FOR CONTOUR & COPY TURNING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR COPIAGE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|------|-----|-------|-----------------|---------|---------|---------|--------|
| DNMG 130504 FT | 0,20 (0,07/0,30) | 1,8 (0,2/2,5) | 5,56 | 0,4 | 11,11 | | | ● | ● | ● |
| DNMG 130508 FT | 0,25 (0,10/0,40) | 2,0 (0,3/3,5) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| DNMG 130512 FT | 0,30 (0,15/0,50) | 2,2 (0,3/3,0) | 5,56 | 1,2 | 11,11 | | ● | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

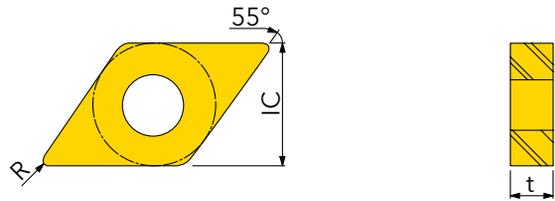
NEGATIVE 55° RHOMBIC INSERTS, FOR STAINLESS STEEL AND HEAT RESISTANT MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR ACIERS INOXYDABLES ET MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT3010 | TT5080 | TT3020 | TT9225 | TT9080 | TT9235 |
|--|------------------|---------------|------|-----|-------|-----------------|--------|--------|--------|--------|--------|--------|
| DNMG 130504 MK | 0,20 (0,17/0,40) | 1,8 (0,7/4,0) | 5,56 | 0,4 | 11,11 | | | ● | | ● | ● | ● |
| DNMG 130508 MK | 0,24 (0,20/0,45) | 2,2 (1,0/4,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● | ● | ● |
| DNMG 130512 MK | 0,28 (0,23/0,50) | 2,6 (1,5/4,0) | 5,56 | 1,2 | 11,11 | | | ● | | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR LARGE OPERATING RANGE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, LARGE PLAGE D'APPLICATIONS

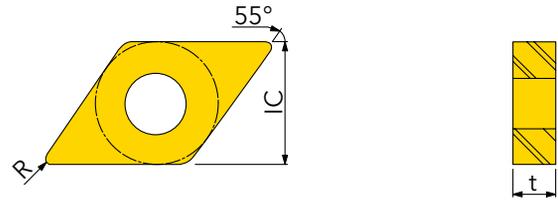
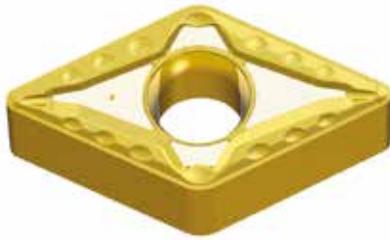


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT9080 |
|--|------------------|---------------|------|-----|-------|-----------------|---------|--------|---------|--------|--------|--------|
| DNMG 130504 MM | 0,25 (0,15/0,45) | 2,0 (0,4/4,5) | 5,56 | 0,4 | 11,11 | | ● | ● | | ● | ● | ● |
| DNMG 130508 MM | 0,30 (0,20/0,50) | 2,0 (0,5/4,5) | 5,56 | 0,8 | 11,11 | | | | ● | ● | ● | ● |
| DNMG 130512 MM | 0,35 (0,23/0,50) | 2,0 (0,7/4,5) | 5,56 | 1,2 | 11,11 | | | | ● | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN DNMG 1305_MT DNMG 1305_MT

NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM RHOUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SEMI-FINITINO; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|-----|-------|-----------------|---------|---------|---------|--------|
| DNMG 130504 MT | 0,25 (0,10/0,35) | 2,0 (1,0/4,5) | 5,56 | 0,4 | 11,11 | | | ● | ● | ● |
| DNMG 130508 MT | 0,30 (0,15/0,45) | 2,0 (1,0/4,5) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| DNMG 130512 MT | 0,35 (0,20/0,55) | 2,0 (1,2/4,5) | 5,56 | 1,2 | 11,11 | | ● | ● | ● | ● |

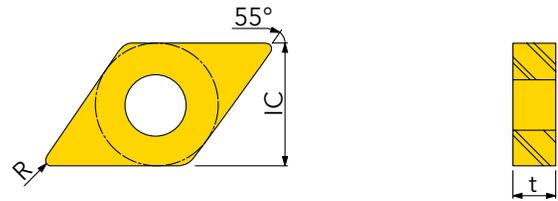
for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN DNMG 1305_PC DNMG 1305_PC

NEGATIVE 55° RHOMBIC INSERT, ALLROUND CHIPBREAKER FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE



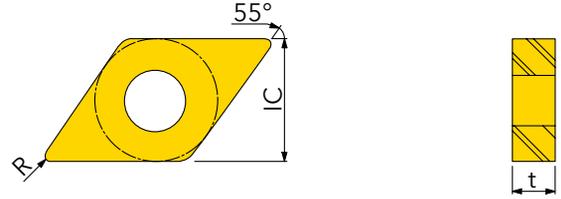
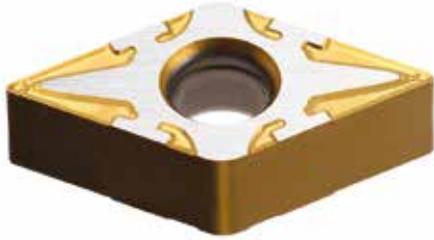
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|-----|-------|-----------------|---------|---------|--------|
| DNMG 130504 PC | 0,20 (0,10/0,30) | 2,0 (0,4/4,0) | 5,56 | 0,4 | 11,11 | | | ● | ● |
| DNMG 130508 PC | 0,25 (0,15/0,40) | 2,0 (0,5/4,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| DNMG 130512 PC | 0,30 (0,18/0,50) | 2,0 (0,6/4,0) | 5,56 | 1,2 | 11,11 | | ● | ● | ● |

for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305

● = P ● = M ● = K ● = N ● = S ○ = H

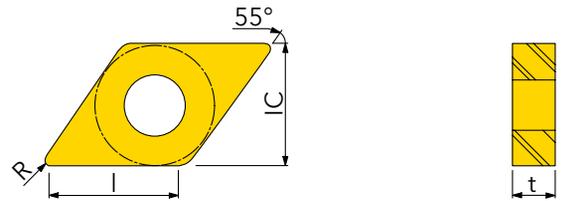
NEGATIVE 55° RHOMBIC INSERTS, FINISHING TO MEDIUM APPLICATION WITH WIPER GEOMETRIE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, GÉOMÉTRIE WIPER POUR LES OPÉRATIONS DE FINITION ET SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT7015 | TT8105B | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|-------|-----------------|--------|---------|---------|---------|
| DNMG 130504 WA | 0,15 (0,08/0,25) | 0,8 (0,2/2,5) | 5,56 | 0,4 | 11,11 | | ● | ● | ● | ● |
| DNMG 130508 WA | 0,20 (0,10/0,35) | 1,5 (0,2/3,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| DNMG 130512 WA | 0,30 (0,15/0,45) | 2,2 (0,4/3,5) | 5,56 | 1,2 | 11,11 | | ● | | ● | |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

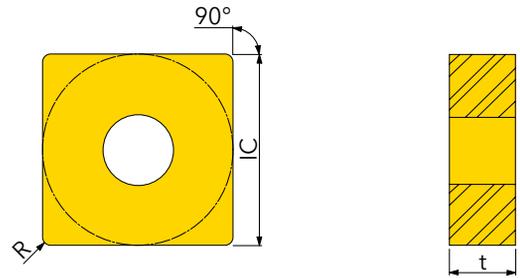
NEGATIVE 55° RHOMBIC INSERTS, FOR LOW CUTTING FORCE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR DE FAIBLES EFFORTS DE COUPE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 | TT9080 |
|--|-----------------|---------------|------|-----|-------|-----------------|---------|---------|--------|--------|
| DNUX 130504 L11 | 0,2 (0,15/0,35) | 3 (1,5/5,0) | 5,56 | 0,4 | 11,11 | | | ● | ● | ● |
| DNUX 130504 R11 | 0,2 (0,15/0,35) | 3 (1,5/5,0) | 5,56 | 0,4 | 11,11 | | ● | ● | ● | ● |
| DNUX 130508 L11 | 0,3 (0,21/0,45) | 3,5 (2,0/5,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| DNUX 130508 R11 | 0,3 (0,21/0,45) | 3,5 (2,0/5,0) | 5,56 | 0,8 | 11,11 | | ● | ● | ● | ● |
| for tool holders TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |
| Pour les porte-outils TD_NR/L 1305; HD_NR/L 1305; A_-HD_NR/L 1305; A_-TD_NR/L 1305 & C_-HDJNR 1305 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

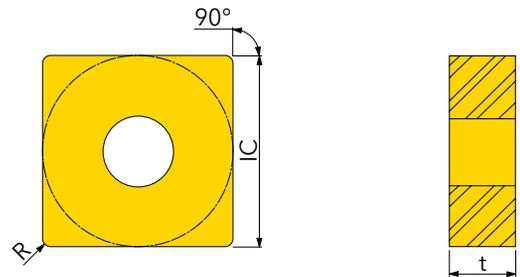
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR SEMI-FINITION; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT5100 |
|--|------------------|---------------|------|-----|------|-----------------|---------|--------|
| SNMG 090404 MT | 0,25 (0,10/0,35) | 2,0 (0,8/4,0) | 4,76 | 4,0 | 9,52 | | | ● |
| SNMG 090408 MT | 0,30 (0,15/0,45) | 2,0 (1,0/4,0) | 4,76 | 0,8 | 9,52 | ● | | |
| SNMG 090412 MT | 0,35 (0,20/0,55) | 2,0 (1,2/4,0) | 4,76 | 1,2 | 9,52 | | | ● |
| for tool holders HS_NR/L 0904; TS_NR/L 0904; A_-SKNR/L 0904 & C_-HSSNR/L 0904 | | | | | | | | |
| Pour les porte-outils HS_NR/L 0904; TS_NR/L 0904; A_-SKNR/L 0904 & C_-HSSNR/L 0904 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

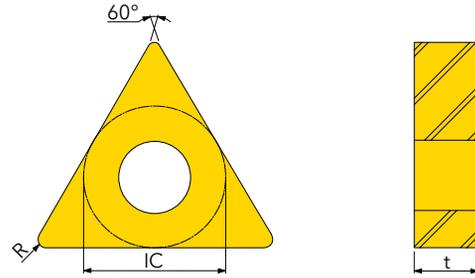
NEGATIVE 90° SQUARE INSERTS, ALLROUND CHIPBREAKER FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|
| SNMG 090408 PC | 0,25 (0,15/0,40) | 2,0 (0,5/3,5) | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders HS_NR/L 0904; TS_NR/L 0904; A_-SKNR/L 0904 & C_-HSSNR/L 0904 | | | | | | | | |
| Pour les porte-outils HS_NR/L 0904; TS_NR/L 0904; A_-SKNR/L 0904 & C_-HSSNR/L 0904 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

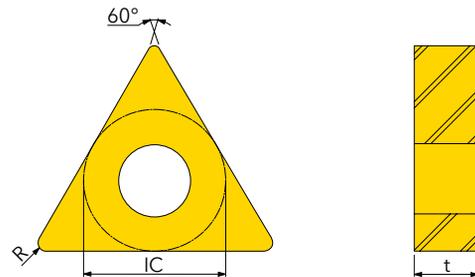
NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B |
|---|------------------|---------------|------|-----|------|-----------------|---------|
| TNMG 130404 FG | 0,12 (0,07/0,30) | 0,8 (0,2/1,5) | 4,76 | 0,4 | 7,94 | | ● |
| TNMG 130408 FG | 0,18 (0,10/0,35) | 1,0 (0,3/1,5) | 4,76 | 0,8 | 7,94 | | ● |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A-HT_NR/L 1304 & A-TT_NR/L 1304 | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A-HT_NR/L 1304 & A-TT_NR/L 1304 | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING / FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION / MOYENNE-ÉBAUCHE

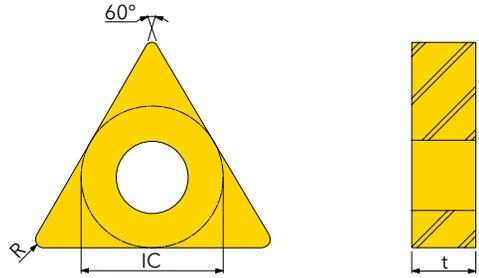


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 130404 FM | 0,15 (0,07/0,30) | 1,0 (0,2/1,5) | 4,76 | 0,4 | 7,94 | | ● | ● |
| TNMG 130408 FM | 0,20 (0,10/0,35) | 1,0 (0,3/1,5) | 4,76 | 0,8 | 7,94 | | ● | ● |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A-HT_NR/L 1304 & A-TT_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A-HT_NR/L 1304 & A-TT_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINO TURN TNMG 1304 FS

NEGATIVE 60° TRIANGULAR INSERTS, FOR SUPER FINISHING
 PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SUPER-FINITION

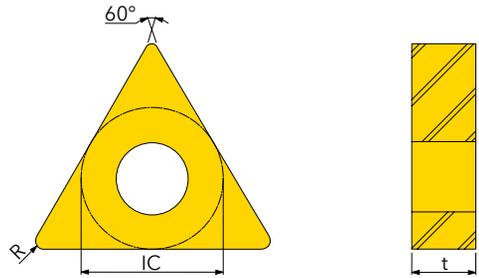


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | PV3010 | CT3000 |
|---|------------------|---------------|------|-----|------|-----------------|--------|--------|
| TNMG 130402 FS | 0,10 (0,05/0,25) | 0,4 (0,2/1,2) | 4,76 | 0,2 | 7,94 | | | |
| TNMG 130404 FS | 0,12 (0,08/0,30) | 0,6 (0,3/1,2) | 4,76 | 0,4 | 7,94 | | | |
| TNMG 130408 FS | 0,14 (0,10/0,30) | 0,9 (0,5/1,2) | 4,74 | 0,8 | 7,94 | | | |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINO TURN TNMG 1304 FT

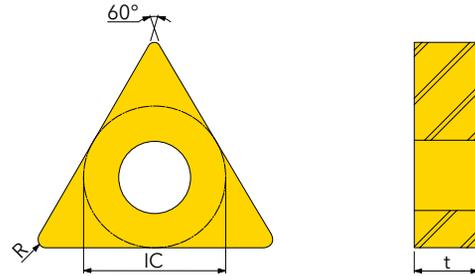
NEGATIVE 60° TRIANGULAR INSERTS, FOR CONTOUR & COPY TURNING
 PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR COPIAGE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 130408 FT | 0,25 (0,10/0,40) | 2,0 (0,3/2,5) | 4,76 | 0,8 | 7,94 | | | |
| TNMG 130412 FT | 0,30 (0,15/0,50) | 2,2 (0,3/2,5) | 4,76 | 1,2 | 7,94 | | | |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

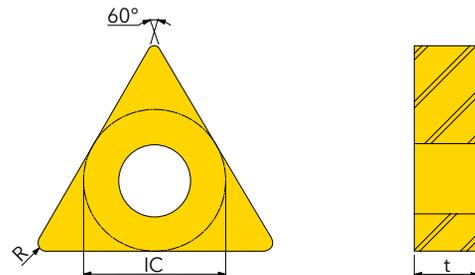
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SEMI-FINITION; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 130404 MT | 0,25 (0,10/0,35) | 2,0 (0,8/3,0) | 4,76 | 0,4 | 7,94 | | ● | ● |
| TNMG 130408 MT | 0,30 (0,15/0,45) | 2,0 (1,0/3,5) | 4,76 | 0,8 | 7,94 | | ● | ● |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

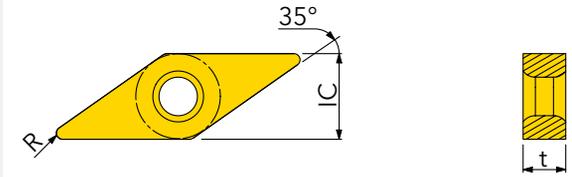
NEGATIVE 60° TRIANGULAR INSERTS, ALLROUND CHIPBREAKER FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 130404 PC | 0,20 (0,10/0,30) | 2,0 (0,4/3,0) | 4,76 | 0,4 | 7,94 | | ● | ● |
| TNMG 130408 PC | 0,35 (0,15/0,40) | 2,0 (0,5/3,0) | 4,76 | 0,8 | 7,94 | | ● | ● |
| for tool holders HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HT_NR/L 1304; TT_NR/L 1304; A_-HT_NR/L 1304 & A_-TT_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

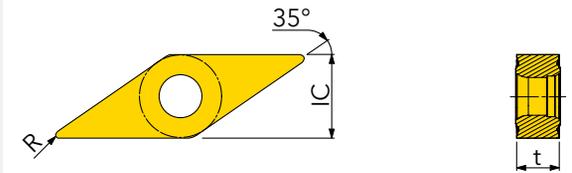
NEGATIVE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|--------|--------|
| VNGX 130401M FS-F | 0,08 (0,03/0,12) | 0,5 (0,2/1,0) | 4,76 | 0,1 | 7,94 | | | |
| VNGX 130402M FS-F | 0,08 (0,04/0,12) | 0,5 (0,2/1,0) | 4,76 | 0,2 | 7,94 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 35° RHOMBIC INSERTS, WITH LOW CUTTING FORCE IN ALUMINIUM AND HIGH TEMPERATURE ALLOY MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, FAIBLE EFFORT DE COUPE DANS L'USINAGE DE L'ALUMINIUM ET DES ALLIAGES RÉFRACTAIRES



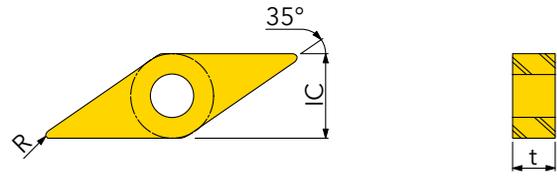
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | K10 |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|-----|
| VNGX 130401 ML | 0,07 (0,03/0,10) | 0,5 (0,1/1,0) | 4,76 | 0,1 | 7,94 | | ● |
| VNGX 130402 ML | 0,10 (0,05/0,15) | 0,6 (0,2/1,2) | 4,76 | 0,2 | 7,94 | | ● |
| VNGX 130404 ML | 0,13 (0,05/0,20) | 0,8 (0,5/1,5) | 4,76 | 0,4 | 7,94 | | ● |

for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304

Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION

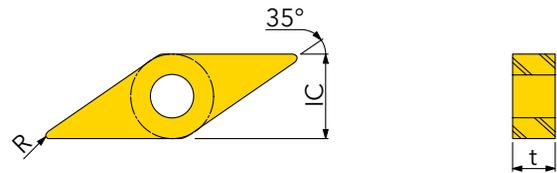


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT9080 |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|--------|---------|--------|
| VNMX 130404 FG | 0,14 (0,08/0,20) | 0,8 (0,5/2,0) | 4,76 | 0,4 | 7,94 | | ● | ● | ● | ● |
| VNMX 130408 FG | 0,16 (0,10/0,23) | 0,8 (0,5/2,0) | 4,76 | 0,8 | 7,94 | | ● | ● | ● | ● |

for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304
Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 35° RHOMBIC INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR LES MOYENNES ÉBAUCHES ET SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT9080 |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|--------|---------|--------|
| VNMX 130404 FM | 0,15 (0,07/0,30) | 0,8 (0,2/1,5) | 4,76 | 0,4 | 7,94 | | ● | ● | ● | ● |

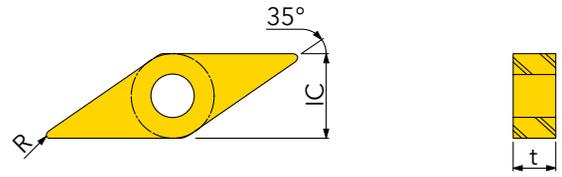
for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304
Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN VNMX 1304 FS

VNMX 1304 FS

NEGATIVE 35° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR SUPER-FINITION



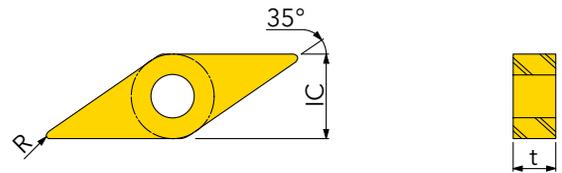
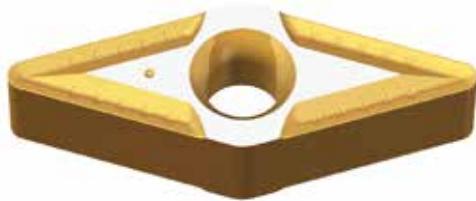
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | PV3010 | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|------|-----------------|--------|---------|---------|
| VNMX 130402 FS | 0,10 (0,05/0,20) | 0,6 (0,2/1,0) | 4,76 | 0,2 | 7,94 | | | | |
| VNMX 130404 FS | 0,12 (0,08/0,20) | 0,7 (0,3/1,0) | 4,76 | 0,4 | 7,94 | | | | |
| VNMX 130408 FS | 0,14 (0,10/0,23) | 0,8 (0,5/1,0) | 4,76 | 0,8 | 7,94 | | | | |
| for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | |
| Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN VNMX 1304 MK

VNMX 1304 MK

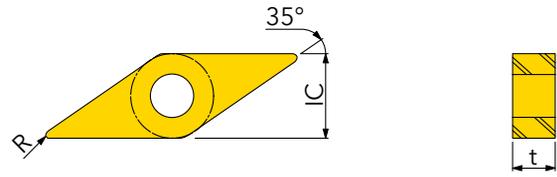
NEGATIVE 35° RHOMBIC INSERTS, FOR STAINLESS STEEL AND HEAT RESISTANT MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR ACIERS INOXYDABLES ET MATÉRIaux EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT9225 | TT9080 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|
| VNMX 130404 MK | 0,22 (0,17/0,35) | 1,3 (0,7/3,0) | 4,76 | 0,4 | 7,94 | | | |
| VNMX 130408 MK | 0,29 (0,20/0,40) | 1,5 (1,0/3,0) | 4,76 | 0,8 | 7,94 | | | |
| for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | |
| Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

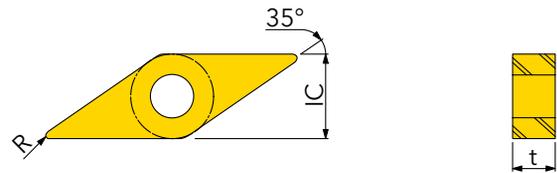
NEGATIVE 35° RHOMBIC INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR SEMI-FINITION; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT7015 | TT8115B | TT8125B | TT5100 | TT9080 |
|--|------------------|---------------|------|-----|------|-----------------|--------|---------|---------|--------|--------|
| VNMX 130404 MT | 0,22 (0,15/0,36) | 1,3 (0,8/3,0) | 4,76 | 0,4 | 7,94 | | | | ● | ● | ● |
| VNMX 130408 MT | 0,27 (0,17/0,36) | 1,5 (1,0/3,0) | 4,76 | 0,8 | 7,94 | | ● | ● | ● | ● | ● |
| for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | | | |
| Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

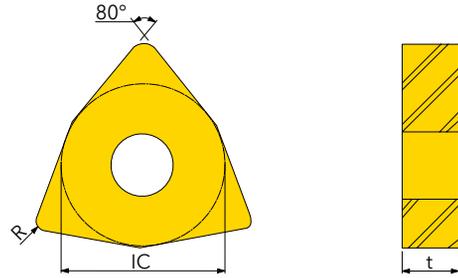
NEGATIVE 35° RHOMBIC INSERTS, ALLROUND CHIPBREAKER FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9080 |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|--------|
| VNMX 130404 PC | 0,22 (0,15/0,36) | 1,0 (0,4/3,0) | 4,76 | 0,4 | 7,94 | | ● | ● | ● |
| VNMX 130408 PC | 0,27 (0,17/0,36) | 1,2 (0,5/3,0) | 4,76 | 0,8 | 7,94 | | ● | ● | ● |
| for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | |
| Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_-SV_NR/L 1304 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

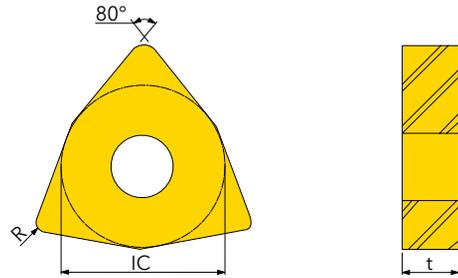
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|--------|--------|--------|
| WNMX 060404 EM | 0,25 (0,10/0,35) | 2,0 (0,4/3,5) | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● | ● |
| WNMX 060408 EM | 0,30 (0,13/0,40) | 2,0 (0,5/3,5) | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● |
| WNMX 060412 EM | 0,30 (0,15/0,40) | 2,0 (0,7/3,5) | 4,76 | 1,2 | 9,52 | | ● | ● | ● | ● | ● |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

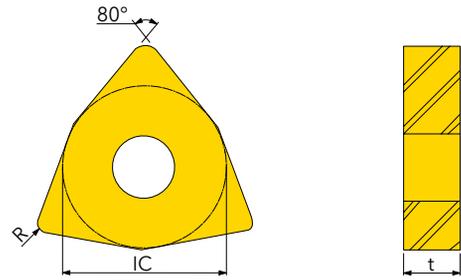
NEGATIVE 80° TRIGON INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|
| WNMX 060404 FM | 0,15 (0,07/0,30) | 1,0 (0,2/2,0) | 4,76 | 0,4 | 9,52 | | ● | ● |
| WNMX 060408 FM | 0,20 (0,10/0,35) | 1,0 (0,3/2,0) | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

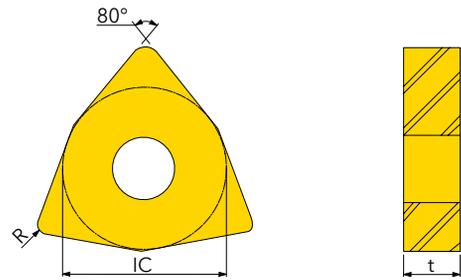
NEGATIVE 80° TRIGON INSERTS, FOR STAINLESS STEEL AND HEAT RESISTANT MATERIAL
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR ACIERS INOXYDABLES ET MATÉRIAUX RÉFRACTAIRES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT5080 | TT9225 | TT9080 | TT9235 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|--------|--------|
| WNMX 060404 MK | 0,20 (0,17/0,40) | 1,8 (0,7/3,0) | 4,76 | 0,4 | 9,52 | | | | | |
| WNMX 060408 MK | 0,24 (0,20/0,45) | 2,2 (1,0/3,0) | 4,76 | 0,8 | 9,52 | | | | | |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

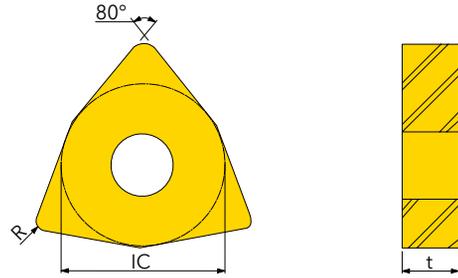
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9235 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|--------|--------|
| WNMX 060404 MM | 0,25 (0,10/0,45) | 2,0 (0,4/3,5) | 4,76 | 0,4 | 9,52 | | | | | |
| WNMX 060408 MM | 0,30 (0,15/0,45) | 2,0 (1,0/3,5) | 4,76 | 0,8 | 9,52 | | | | | |
| WNMX 060412 MM | 0,35 (0,23/0,50) | 2,0 (0,7/3,5) | 4,76 | 1,2 | 9,52 | | | | | |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

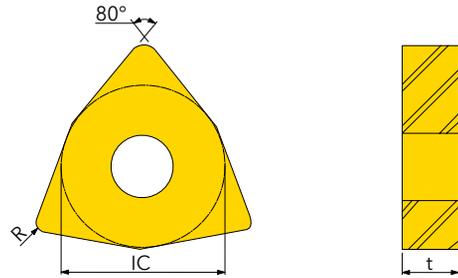
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR SEMI-FINITION; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT7015 | TT8115B | TT8125B | TT5100 | TT9225 | TT9235 |
|--|------------------|---------------|------|-----|------|-----------------|--------|---------|---------|--------|--------|--------|
| WNMX 060404 MT | 0,25 (0,10/0,35) | 2,0 (0,8/3,5) | 4,76 | 0,4 | 9,52 | | | | ● | ● | ● | ● |
| WNMX 060408 MT | 0,30 (0,15/0,45) | 2,0 (1,0/3,5) | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● | ● |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

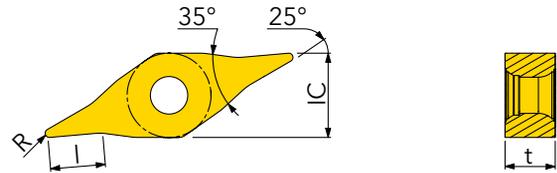
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9080 |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|--------|
| WNMX 060404 PC | 0,20 (0,10/0,30) | 2,0 (0,4/3,5) | 4,76 | 0,4 | 9,52 | | | ● | |
| WNMX 060408 PC | 0,25 (0,15/0,40) | 2,0 (0,5/3,5) | 4,76 | 0,8 | 9,52 | | ● | ● | ● |
| WNMX 060412 PC | 0,30 (0,18/0,50) | 2,0 (0,6/3,5) | 4,76 | 1,2 | 9,52 | | ● | ● | ● |
| for tool holders HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | |
| Pour les porte-outils HWLNR/L 0604; TWLNR/L 0604 & A/S_-SWLNR/L 0604 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

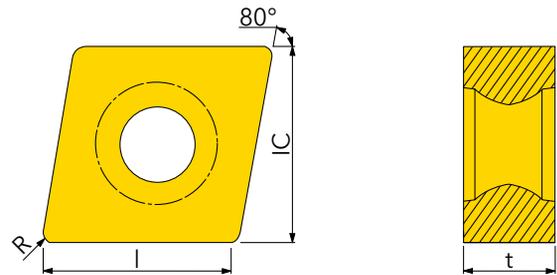
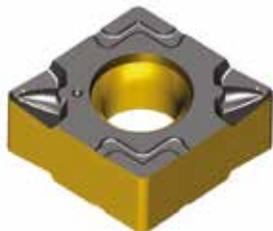
NEGATIVE 25° RHOMBIC GROUND INSERTS, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 25°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT5080 |
|---|------------------|---------------|-----|------|-----|------|-----------------|---------|---------|--------|
| YNMG 130404 FS | 0,12 (0,08/0,20) | 0,6 (0,3/1,0) | 4,7 | 4,76 | 0,4 | 9,52 | | ● | ● | ● |
| YNMG 130408 FS | 0,14 (0,08/0,25) | 1,0 (0,5/1,5) | 4,2 | 4,76 | 0,8 | 9,52 | | ● | ● | ● |
| for tool holders HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304 | | | | | | | | | | |
| Pour les porte-outils HVJNR/L 1304; HVQNR/L 1304; HVVNN 1304; TVJNR/L 1304; TVQNR/L 1304; TVVNN 1304 & A_SV_NR/L 1304 | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

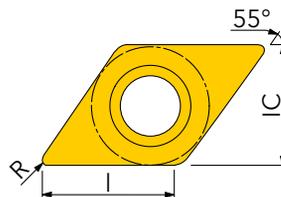
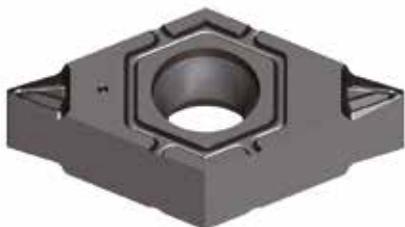
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION / MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT3020 | TT8125B |
|---|------------------|---------------|------|-----|-----|-----------------|--------|--------|---------|--------|--------|---------|
| CNMX 070304 FGP | 0,10 (0,05/0,25) | 1,0 (0,3/2,0) | 3,18 | 0,4 | 7,0 | | ● | ● | ● | ● | ● | ● |
| CNMX 070308 FGP | 0,15 (0,08/0,25) | 0,8 (0,4/2,0) | 3,18 | 0,8 | 7,0 | | | | ● | ● | | ● |
| for tool holders SCLNR/L 0704; SCLNR-RS 0704; A-SCLNR/L 0703 | | | | | | | | | | | | |
| Pour les porte-outils SCLNR/L 0704; SCLNR-RS 0704; A-SCLNR/L 0703 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIV 55° INSERT, FOR FINISH MACHINING
PLAQUETTES NÉGATIVES 55°, POUR FINITION

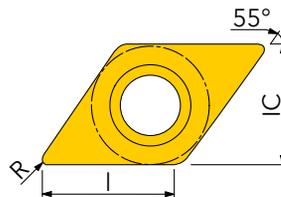
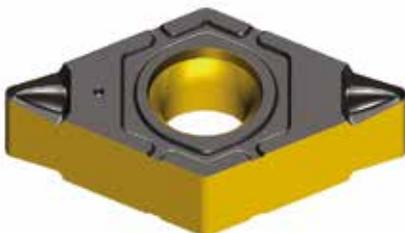


| Designation | f (min/max) | ap (min/max) | t | R | IC | Grade | Nuance |
|-------------------|-------------|--------------|---|---|----|-------|--------|
| Réf. de l'article | | | | | | | TT9020 |

| | | | | | | | |
|--|------------------|---------------|------|-----|-----|--|--|
| DNGX 080302M SM-F | 0,08 (0,02/0,12) | 0,3 (0,2/1,2) | 3,18 | 0,2 | 7,0 | | |
| for tool holders SDJNR/L 0803; SDJNR -RS 0803; A-SDUNR/L 0803 | | | | | | | |
| Pour les porte-outils SDJNR/L 0803; SDJNR -RS 0803; A-SDUNR/L 0803 | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIV 55° INSERT, FOR FINISHING AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES 55°, POUR FINITION / MOYENNE-ÉBAUCHE



| Designation | f (min/max) | ap (min/max) | t | R | IC | Grade | Nuance |
|-------------------|-------------|--------------|---|---|----|--------|--------|
| Réf. de l'article | | | | | | PV3010 | CT3000 |

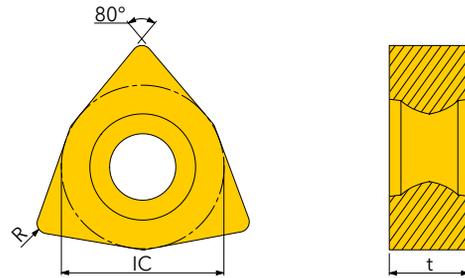
| | | | | | | | | | | | |
|-----------------|------------------|---------------|------|-----|-----|--|--|--|--|--|--|
| DNMX 080304 FGP | 0,10 (0,05/0,25) | 1,0 (0,3/2,0) | 3,18 | 0,4 | 7,0 | | | | | | |
| DNMX 080308 FGP | 0,15 (0,08/0,25) | 0,8 (0,4/2,0) | 3,18 | 0,8 | 7,0 | | | | | | |

for tool holders SDJNR/L 0803; SDJNR -RS 0803; A-SDUNR/L 0803

Pour les porte-outils SDJNR/L 0803; SDJNR -RS 0803; A-SDUNR/L 0803

● = P ● = M ● = K ● = N ● = S ○ = H

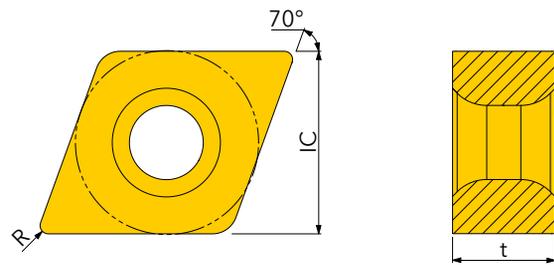
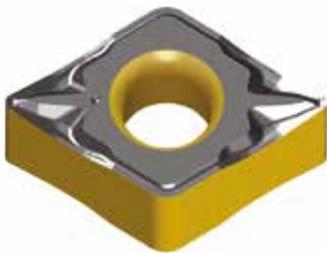
NEGATIV 80° INSERT, FOR FINISHING AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES 80°, POUR FINITION / MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT3020 | TT8125B |
|---|------------------|---------------|------|-----|-----|-----------------|--------|--------|---------|--------|--------|---------|
| WNMX 040304 FGP | 0,15 (0,05/0,25) | 1,0 (0,3/2,0) | 3,18 | 0,4 | 7,0 | | ● | ● | ● | ● | ● | ● |
| WNMX 040308 FGP | 0,15 (0,08/0,25) | 0,8 (0,4/2,0) | 3,18 | 0,8 | 7,0 | | | | ● | | | ● |
| for tool holders SWLNR/L 0403; SWLNR-RS 0403; A-SWLNR/L 0403 | | | | | | | | | | | | |
| Pour les porte-outils SWLNR/L 0403; SWLNR-RS 0403; A-SWLNR/L 0403 | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIV 70° INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES 70°, POUR FINITION



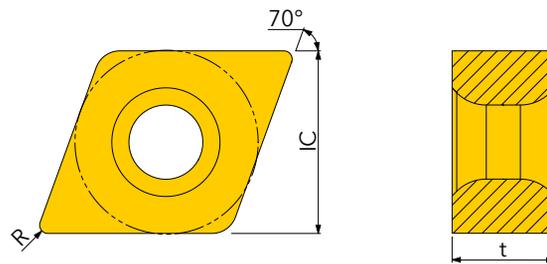
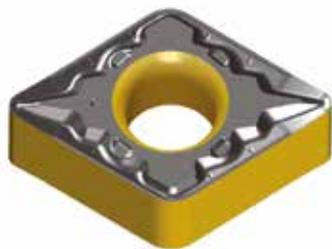
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|-----|-----------------|---------|---------|---------|
| XNMG 090402 FLP | 0,15 (0,07/0,30) | 1,0 (0,2/1,5) | 4,76 | 0,2 | 8,7 | | | ● | ● |
| XNMG 090404 FLP | 0,15 (0,07/0,30) | 1,0 (0,2/1,5) | 4,76 | 0,4 | 8,7 | | ● | ● | ● |
| for tool holders TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |
| Pour les porte-outils TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN^X XNMG 1105_FGP

XNMG 1105_FGP

NEGATIV 70° INSERT, FOR FINISHING AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES 70°, POUR FINITION / MOYENNE-ÉBAUCHE



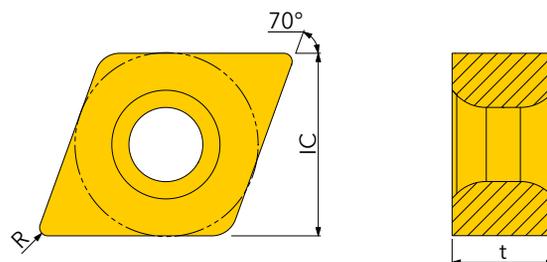
| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|---|------------------|------------------|------|-----|-------|-----------------|---------|---------|---------|
| XNMG 110504 FGP | 0,15 (0,07/0,30) | 1,00 (0,25/2,00) | 5,56 | 0,4 | 11,11 | | ● | ● | ● |
| XNMG 110508 FGP | 0,20 (0,10/0,35) | 1,20 (0,30/2,00) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| XNMG 110512 FGP | 0,25 (0,15/0,40) | 1,30 (0,35/2,00) | 5,56 | 1,2 | 11,11 | | ● | ● | |
| for tool holders TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |
| Pour les porte-outils TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

RHINOTURN^X XNMG 1105_MLP

XNMG 1105_MLP

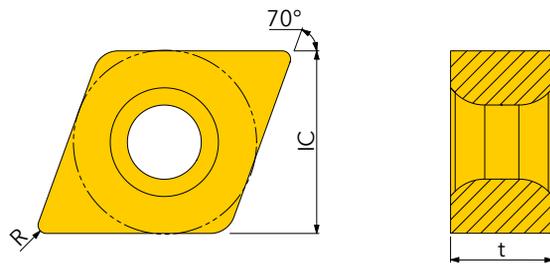
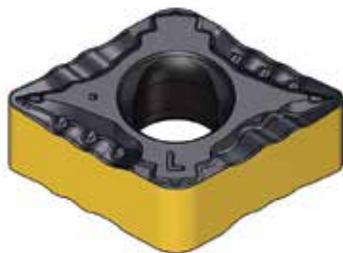
NEGATIV 70° INSERT, FOR MEDIUM MACHINING
PLAQUETTES NÉGATIVES 70°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|-------|-----------------|---------|---------|---------|
| XNMG 110508 MLP | 0,25 (0,10/0,40) | 2,0 (0,5/3,5) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| XNMG 110512 MLP | 0,30 (0,15/0,50) | 2,0 (0,6/3,5) | 5,56 | 1,2 | 11,11 | | ● | ● | ● |
| for tool holders TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |
| Pour les porte-outils TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A-XQNR/L 0904_/1105_ | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

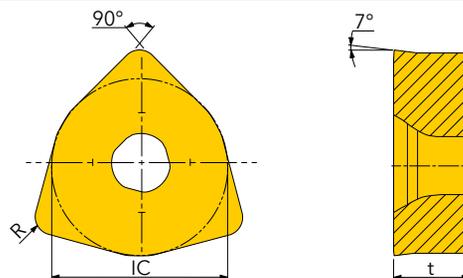
NEGATIV 70° INSERT
PLAQUETTES NÉGATIVES 70°



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|-------|-----------------|---------|---------|---------|
| XNMV 110508L-BM | 0,30 (0,10/0,80) | 1,0 (0,5/1,8) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| XNMV 110508R-BM | 0,30 (0,10/0,80) | 1,0 (0,5/1,8) | 5,56 | 0,8 | 11,11 | | ● | ● | ● |
| for tool holders TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A_XQNR/L 0904_/1105_ | | | | | | | | | |
| Pour les porte-outils TXJNR/L 0904_/1105_(TB); TXQR/L 0904_/1105_; A_XQNR/L 0904_/1105_ | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

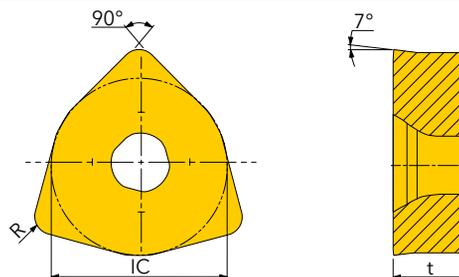
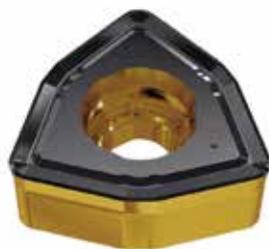
POSITIVE 90° TRIGON HIGH FEED INSERTS
PLAQUETTE TRIGON POSITIVE 90° GÉOMÉTRIE GRANDE AVANCE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 |
|----------------------------------|------------------|---------------|-----|-----|-------|-----------------|---------|---------|--------|
| FCMX 100616-HFG | 2,00 (1,50/3,00) | 1,0 (0,5/2,0) | 6,5 | 1,6 | 15,45 | | ● | ● | ● |
| for tool holders SFXCN | | | | | | | | | |
| Pour les porte-outils SFXCN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

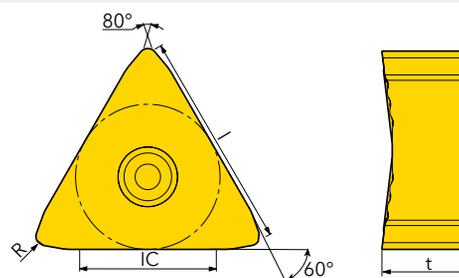
POSITIVE 90° TRIGON HIGH FEED INSERTS
PLAQUETTES POSITIVES TRIGONES 90° GÉOMÉTRIE GRANDE AVANCE



| Designation | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT8135B |
|-----------------------------|------------------|---------------|-----|-----|-------|--------------|---------|---------|---------|
| FCMX 100616-HFP | 1,50 (1,00/2,50) | 1,0 (0,5/2,0) | 6,5 | 1,6 | 15,45 | | ● | ● | ● |
| for tool holders SFXCN | | | | | | | | | |
| Pour les porte-outils SFXCN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

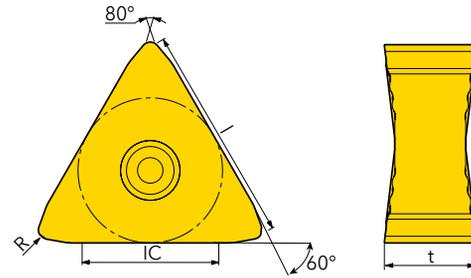
NEGATIVE TRIANGULAR INSERTS WITH 80° CORNER ANGLE
PLAQUETTES TRIANGULAIRES NÉGATIVES AVEC UN ANGLE D'ATTAQUE À 80°



| Designation | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|-------------------------------|------------------|---------------|---|------|------|-----|------|--------------|---------|---------|
| TNMV 210908-BM | 0,80 (0,20/1,20) | 1,5 (0,5/2,0) | 6 | 21,0 | 9,52 | 0,8 | 12,5 | | ● | ● |
| for tool holders TTQNL/R | | | | | | | | | | |
| Pour les porte-outils TTQNL/R | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

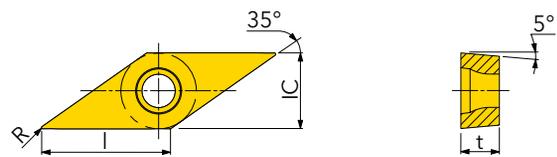
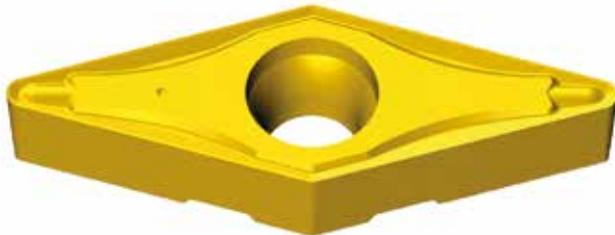
NEGATIVE TRIANGULAR INSERTS WITH 80° CORNER ANGLE
PLAQUETTES TRIANGULAIRES NÉGATIVES AVEC UN ANGLE D'ATTAQUE À 80°



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | TT9225 | TT9080 |
|---|------------------|---------------|---|------|------|-----|------|-----------------|--------|--------|
| TNMV 210908-BS for tool holders TTQNL/R/ | 0,80 (0,20/1,20) | 1,0 (0,7/3,5) | 6 | 21,0 | 9,52 | 0,8 | 12,5 | | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

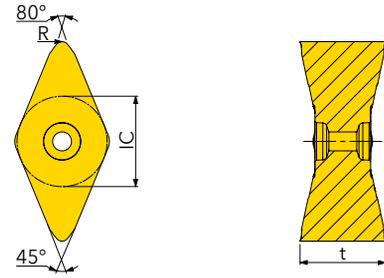
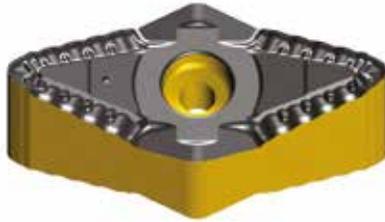
CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS
PLAQUETTES POSITIVES RHOMBIQUES 35°, DÉPOUILLE 5°



| Designation Réf. de l'article | f (min/max) | ap (min/max) | Z | l | t | R | IC | Grade Nuance | CT3000 | TT8115B | TT5080 |
|--|------------------|---------------|---|------|------|-----|------|-----------------|--------|---------|--------|
| VBMX 160402 FG | 0,10 (0,05/0,20) | 0,8 (0,3/1,5) | 2 | 16,6 | 4,76 | 0,2 | 9,52 | | | ● | ● |
| VBMX 160404 FG | 0,12 (0,07/0,20) | 1,0 (0,5/2,0) | 2 | 16,6 | 4,76 | 0,4 | 9,52 | ● | ● | ● | |
| VBMX 160408 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 2 | 16,6 | 4,76 | 0,8 | 9,52 | | ● | | |
| for tool holders LVJBR/L & LVJBR-SH | | | | | | | | | | | |
| Pour les porte-outils LVJBR/L & LVJBR-SH | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

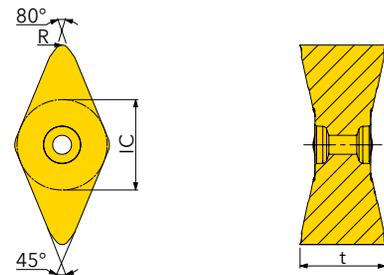
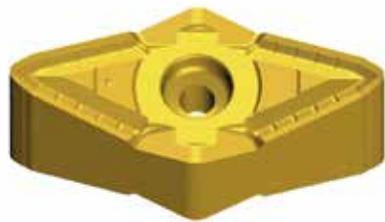
NEGATIVE RHOMBIC INSERTS WITH 80° CORNER ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES AVEC UN ANGLE DE 80°



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|------------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|---------|
| ZNMV 141008-BM | 0,80 (0,40/1,00) | 1,0 (0,5/2,5) | 10,0 | 0,8 | 10,5 | | ● | ● | ● |
| for tool holders TZQNR/L (TB) | | | | | | | | | |
| Pour les porte-outils TZQNR/L (TB) | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

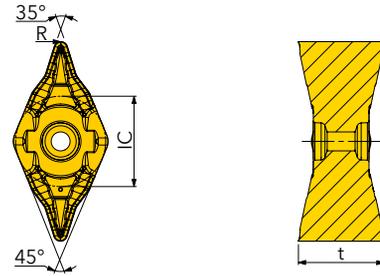
NEGATIVE RHOMBIC INSERTS WITH 80° CORNER ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES AVEC UN ANGLE DE 80°



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT3005 | TT3010 | TT3020 |
|------------------------------------|------------------|---------------|------|-----|------|-----------------|--------|--------|--------|
| ZNMV 141008-BS | 0,40 (0,20/1,00) | 1,0 (0,5/2,5) | 10,0 | 0,8 | 10,0 | | ● | ● | ● |
| for tool holders TZQNR/L (TB) | | | | | | | | | |
| Pour les porte-outils TZQNR/L (TB) | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

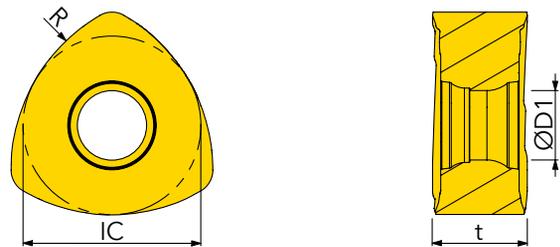
NEGATIVE RHOMBIC INSERTS WITH 35° CORNER ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES AVEC UN ANGLE DE 35°



| Designation | f (min/max) | ap (min/max) | t | R | IC | Grade | TT8105B | TT8115B | TT8125B |
|----------------------------------|------------------|------------------|------|-----|------|--------|---------|---------|---------|
| Réf. de l'article | | | | | | Nuance | | | |
| ZNMV 141008Y-BF | 0,30 (0,20/0,50) | 0,50 (0,25/1,50) | 10,0 | 0,8 | 10,5 | | ● | ● | ● |
| for tool holders TZXNN (TB) | | | | | | | | | |
| Pour les porte-outils TZXNN (TB) | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

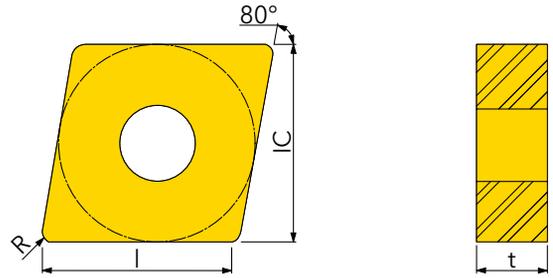
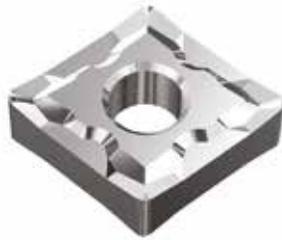
NEGATIVE POLYGON INSERT, FOR HIGH FEED ROUGHING / STEEL
PLAQUETTES NÉGATIVES, POUR ÉBAUCHE GRANDE AVANCE / ACIER



| Designation | f (min/max) | ap (min/max) | t | R | ØD1 | IC | Grade | TT9080 |
|-------------------------------|-----------------|---------------|------|----|-----|------|--------|--------|
| Réf. de l'article | | | | | | | Nuance | |
| BNMX 150720R HF | 1,5 (0,50/2,50) | 1,5 (0,5/2,5) | 8,00 | 15 | 6,2 | 15,0 | | ● |
| for tool holders HBXNR/L | | | | | | | | |
| Pour les porte-outils HBXNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

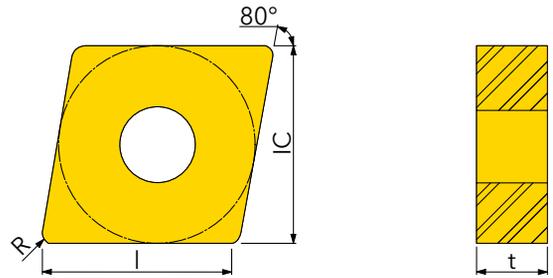
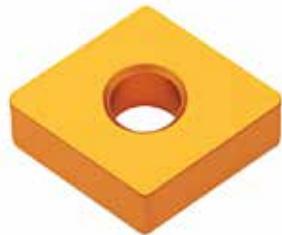
NEGATIVE 80° RHOMBIC GROUND INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION ET SEMI-FINITION, COUPE AFFÛTÉE ET TRÈS POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | K10 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|-----|
| CNGG 120401 ML | 0,05 (0,03/0,10) | 0,2 (0,1/1,0) | 12,8 | 4,76 | 0,1 | 12,7 | | ● | ● |
| CNGG 120402 ML | 0,07 (0,05/0,15) | 0,3 (0,2/1,2) | 12,7 | 4,76 | 0,2 | 12,7 | | ● | ● |
| CNGG 120404 ML | 0,18 (0,10/0,30) | 1,5 (0,8/3,5) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● |
| CNGG 120408 ML | 0,25 (0,12/0,35) | 2,0 (1,0/3,5) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

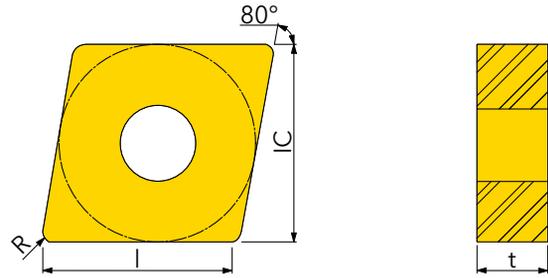
NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 |
|--|------------------|----------------|------|------|-----|-------|-----------------|--------|--------|
| CNMA 120404 | 0,30 (0,15/0,50) | 3,0 (1,0/5,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● |
| CNMA 120408 | 0,45 (0,15/0,60) | 3,0 (1,0/6,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| CNMA 120412 | 0,56 (0,15/0,70) | 3,0 (1,5/6,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● |
| CNMA 120416 | 0,60 (0,20/0,80) | 3,0 (2,0/6,0) | 11,2 | 4,76 | 1,6 | 12,7 | | ● | ● |
| CNMA 160612 | 0,56 (0,15/0,70) | 4,0 (2,0/8,0) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● |
| CNMA 160616 | 0,60 (0,20/0,80) | 4,0 (2,0/8,0) | 14,4 | 6,35 | 1,6 | 15,88 | | ● | ● |
| CNMA 190612 | 0,56 (0,15/0,70) | 6,0 (2,0/10,0) | 18,1 | 6,35 | 1,2 | 19,05 | | ● | ● |
| CNMA 190616 | 0,71 (0,15/1,00) | 6,0 (3,0/10,0) | 17,7 | 6,35 | 1,6 | 19,05 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE

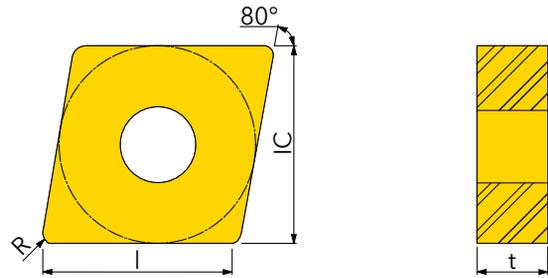


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT8115B | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|---------|---------|--------|
| CNMG 120404 | 0,28 (0,17/0,45) | 3,0 (1,0/5,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120408 | 0,40 (0,23/0,60) | 3,0 (1,5/5,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120412 | 0,50 (0,25/0,60) | 3,0 (2,0/5,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 160608 | 0,40 (0,25/0,60) | 4,0 (2,0/6,5) | 15,3 | 6,35 | 0,8 | 15,88 | | | | ● | ● | ● |
| CNMG 190604 | 0,28 (0,20/0,45) | 5,0 (3,0/8,0) | 18,9 | 6,35 | 0,4 | 19,05 | | | | ● | ● | ● |
| CNMG 190608 | 0,40 (0,25/0,60) | 5,0 (3,0/8,0) | 18,5 | 6,35 | 0,8 | 19,05 | | ● | ● | ● | ● | ● |
| CNMG 190612 | 0,50 (0,30/0,60) | 5,0 (3,0/8,0) | 18,1 | 6,35 | 1,2 | 19,05 | | ● | ● | ● | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION / MATÉRIAUX EXOTIQUES

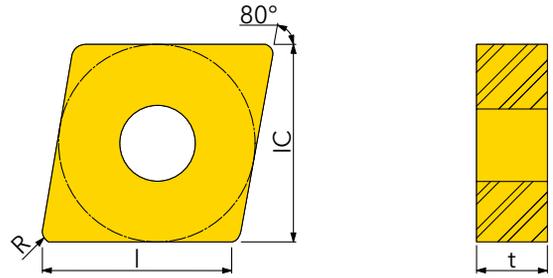


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3010 | TT9215 | TT5080 | TT3020 | TT9225 | TT9235 |
|----------------------------------|------------------|------------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|
| CNMG 120404 EA | 0,10 (0,05/0,30) | 0,50 (0,15/1,50) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 120408 EA | 0,20 (0,07/0,40) | 0,50 (0,15/1,50) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



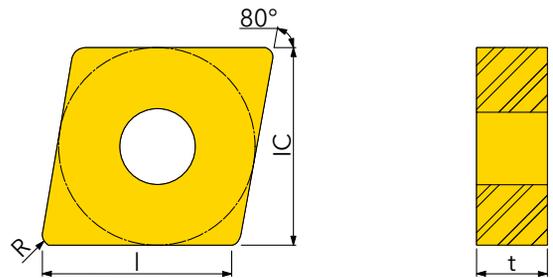
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 | TT8080 |
|----------------------------------|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|--------|--------|--------|--------|
| CNMG 120404 EM | 0,28 (0,11/0,50) | 2,5 (0,5/5,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 120408 EM | 0,30 (0,13/0,50) | 2,5 (0,5/5,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 120412 EM | 0,35 (0,15/0,55) | 2,5 (0,5/5,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | | ● | ● | ● | |
| CNMG 120416 EM | 0,40 (0,17/0,60) | 2,5 (0,5/5,0) | 11,2 | 4,76 | 1,6 | 12,7 | | ● | | ● | | ● | |
| CNMG 160608 EM | 0,30 (0,13/0,50) | 3,5 (0,5/6,5) | 15,2 | 6,35 | 0,8 | 15,88 | | ● | ● | ● | | ● | |
| CNMG 160612 EM | 0,35 (0,15/0,55) | 3,5 (0,5/6,5) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● | ● | | ● | |
| CNMG 160616 EM | 0,40 (0,17/0,60) | 3,5 (0,5/6,5) | 14,4 | 6,35 | 1,6 | 15,88 | | ● | ● | ● | | ● | |
| CNMG 190608 EM | 0,30 (0,13/0,50) | 4,0 (0,5/8,0) | 18,5 | 6,35 | 0,8 | 19,05 | | ● | ● | ● | | | |
| CNMG 190612 EM | 0,35 (0,15/0,55) | 4,0 (0,5/8,0) | 18,1 | 6,35 | 1,2 | 19,05 | | ● | ● | ● | ● | ● | |
| CNMG 190616 EM | 0,40 (0,17/0,60) | 4,0 (0,5/8,0) | 17,7 | 6,35 | 1,6 | 19,05 | | ● | ● | ● | | ● | |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L

Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE / MATÉRIAUX EXOTIQUES



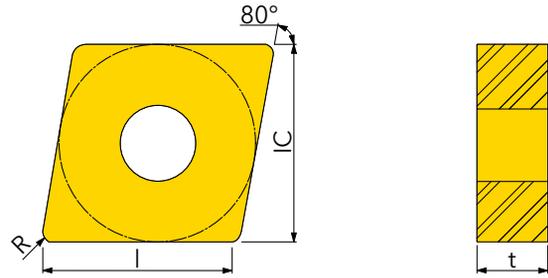
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT5100 | TT9225 | TT9080 | TT9235 |
|----------------------------------|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|--------|--------|--------|--------|
| CNMG 120408 ET | 0,35 (0,17/0,55) | 3,0 (1,2/5,5) | 12,4 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 120412 ET | 0,35 (0,20/0,60) | 3,0 (1,2/5,5) | 12,0 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 160612 ET | 0,43 (0,25/0,60) | 4,5 (2,5/7,0) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● | ● | ● | ● | ● |
| CNMG 190612 ET | 0,42 (0,25/0,60) | 6,0 (3,0/9,0) | 18,1 | 6,35 | 1,2 | 19,05 | | | ● | ● | ● | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L

Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

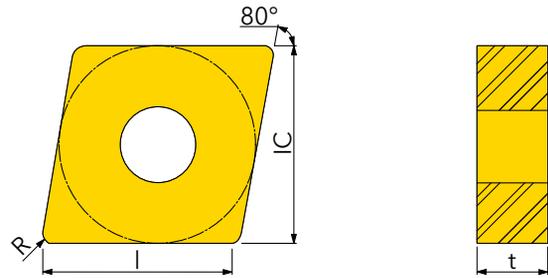
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT8125B | TT9225 | TT9235 |
|--|-----------------|----------------|------|------|-----|------|-----------------|---------|--------|---------|--------|--------|
| CNMG 120404 FC | 0,1 (0,05/0,30) | 0,5 (0,15/1,5) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120408 FC | 0,2 (0,07/0,35) | 0,5 (0,25/2,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

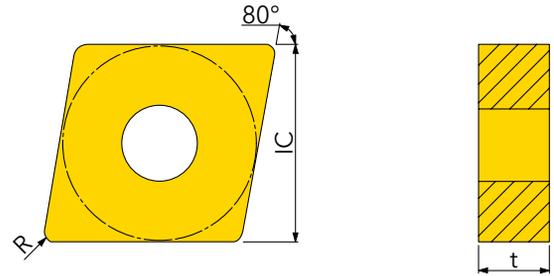
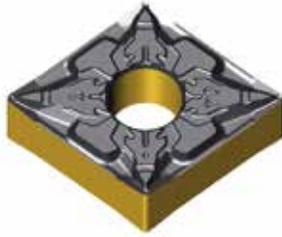
NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8105B | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|---------|---------|---------|--------|
| CNMG 120404 FG | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | ● |
| CNMG 120408 FG | 0,14 (0,08/0,35) | 0,8 (0,3/2,5) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR FINITION

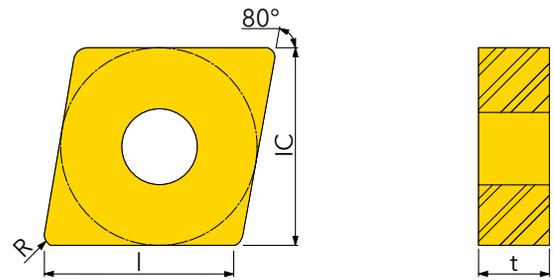


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|
| CNMG 120404 FLP | 0,15 (0,08/0,30) | 1,0 (0,2/2,0) | 4,76 | 0,4 | 12,7 | | ● | ● |
| CNMG 120408 FLP | 0,15 (0,10/0,30) | 1,0 (0,3/2,0) | 4,76 | 0,8 | 12,7 | | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING OF CAST IRON
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE DES FONTES

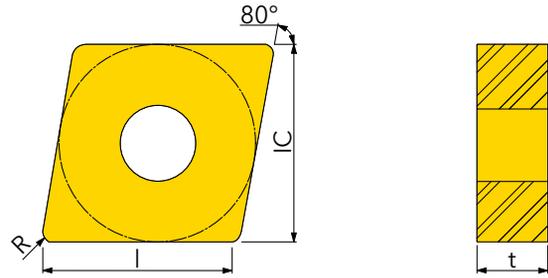


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT7025 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|
| CNMG 120408 KT | 0,35 (0,19/0,53) | 4,0 (0,3/7,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| CNMG 120412 KT | 0,45 (0,25/0,70) | 4,0 (0,5/7,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● |
| CNMG 120416 KT | 0,55 (0,28/0,85) | 4,0 (0,7/7,0) | 11,2 | 4,76 | 1,6 | 12,7 | | ● | ● | |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

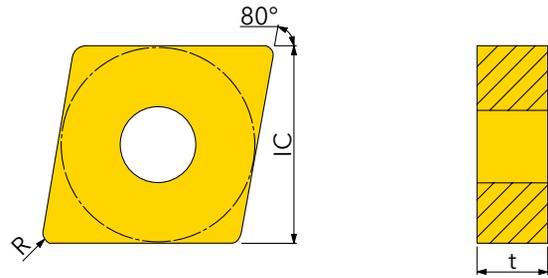
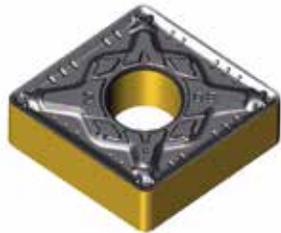
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 | TT8020 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|---------|---------|--------|--------|
| CNMG 120404 MC | 0,21 (0,10/0,30) | 1,5 (0,5/3,5) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120408 MC | 0,30 (0,12/0,35) | 1,5 (0,7/3,5) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120412 MC | 0,35 (0,15/0,40) | 1,5 (0,7/3,5) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

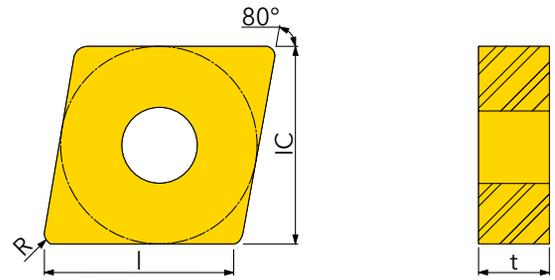
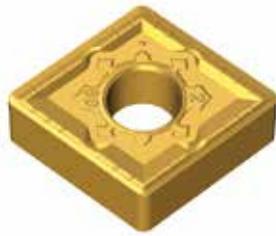
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|---------|
| CNMG 120408 MGP | 0,30 (0,15/0,55) | 3,0 (0,5/5,0) | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| CNMG 120412 MGP | 0,30 (0,17/0,55) | 3,0 (0,6/5,0) | 4,76 | 1,2 | 12,7 | | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR SEMI-FINITION DES MATÉRIAUX EXOTIQUES

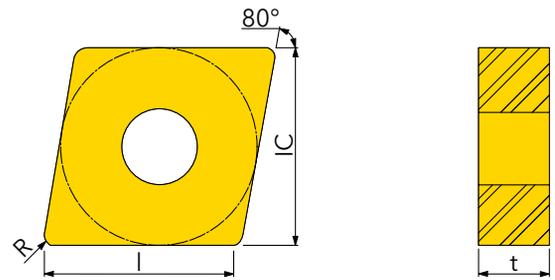


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3005 | TT3010 | TT3020 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|
| CNMG 120408 MGS | 0,20 (0,15/0,40) | 2,0 (1,0/4,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| CNMG 120412 MGS | 0,22 (0,17/0,53) | 2,0 (1,5/4,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE LÉGÈRE / ARÊTE VIVE

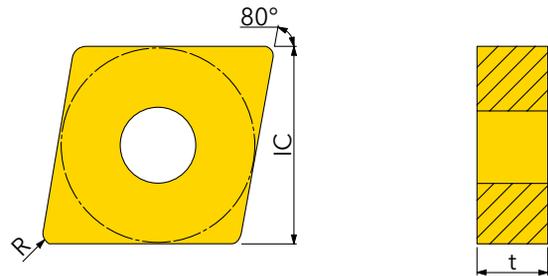
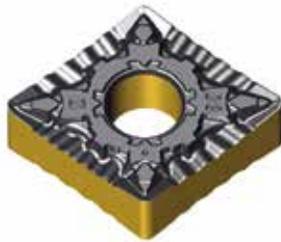


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT5080 | TT8125B | TT5100 | TT9225 | TT8080 | K10 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|--------|--------|---------|--------|--------|--------|-----|
| CNMG 120404 ML | 0,18 (0,10/0,30) | 1,5 (0,8/3,5) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | ● | ● | ● |
| CNMG 120408 ML | 0,25 (0,12/0,35) | 2,0 (1,0/3,5) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● | ● | ● |
| CNMG 120412 ML | 0,30 (0,15/0,35) | 2,0 (1,3/3,5) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● | ● | ● | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

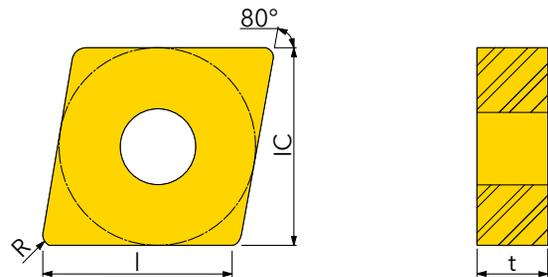
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| CNMG 120408 MLP | 0,25 (0,10/0,40) | 2,0 (0,5/3,5) | 4,76 | 0,8 | 12,7 | | ● | ● |
| CNMG 120412 MLP | 0,25 (0,15/0,50) | 2,0 (0,6/3,5) | 4,76 | 1,2 | 12,7 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

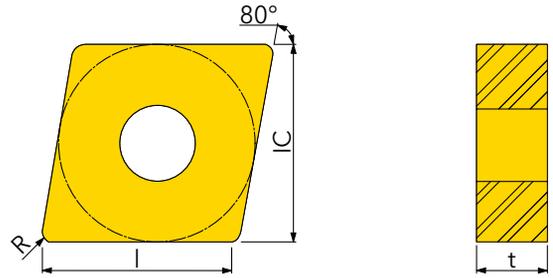
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM MACHINING / POSITIVE RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE / ARÊTE POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT5080 | TT8125B | TT9225 | TT7100 | TT9235 | TT8080 |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|--------|--------|---------|--------|--------|--------|--------|
| CNMG 120404 MP | 0,21 (0,10/0,30) | 2,0 (0,8/4,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | | ● | ● |
| CNMG 120408 MP | 0,30 (0,12/0,40) | 2,0 (1,0/4,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● | ● | ● |
| CNMG 120412 MP | 0,36 (0,15/0,50) | 2,0 (1,5/4,0) | 11,6 | 4,76 | 1,2 | 12,7 | | | ● | ● | | ● | | ● | |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR SEMI-FINITION; ARÊTE RENFORCÉE



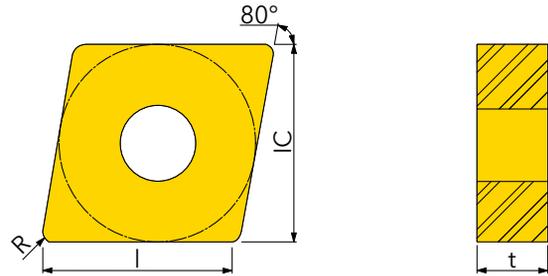
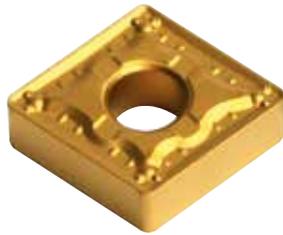
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC |
|----------------------------------|------------------|---------------|------|------|-----|-------|
| CNMG 120404 MT | 0,25 (0,15/0,40) | 3,0 (1,0/5,0) | 12,4 | 4,76 | 0,4 | 12,7 |
| CNMG 120408 MT | 0,35 (0,17/0,55) | 3,0 (1,2/5,0) | 12,0 | 4,76 | 0,8 | 12,7 |
| CNMG 120412 MT | 0,42 (0,20/0,55) | 3,0 (1,5/5,0) | 11,6 | 4,76 | 1,2 | 12,7 |
| CNMG 160608 MT | 0,35 (0,20/0,55) | 4,0 (2,0/6,5) | 15,3 | 6,35 | 0,8 | 15,88 |
| CNMG 160612 MT | 0,42 (0,25/0,55) | 4,0 (2,0/6,5) | 14,8 | 6,35 | 1,2 | 15,88 |
| CNMG 160616 MT | 0,45 (0,30/0,55) | 4,0 (2,0/6,5) | 14,4 | 6,35 | 1,6 | 15,88 |
| CNMG 190612 MT | 0,42 (0,25/0,55) | 6,0 (3,0/8,0) | 18,1 | 6,35 | 1,2 | 19,05 |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8105B | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT8135B | TT9235 | TT8020 |
|----------------------------------|-----------------|--------|--------|--------|---------|---------|--------|---------|--------|--------|---------|--------|--------|
| CNMG 120404 MT | | ● | ● | ● | | ● | ● | ● | ● | | | | ● |
| CNMG 120408 MT | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| CNMG 120412 MT | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| CNMG 160608 MT | | ● | ● | | | ● | | ● | | | ● | | |
| CNMG 160612 MT | | ● | ● | | | ● | ● | ● | ● | | | | ● |
| CNMG 160616 MT | | | | | | ● | | ● | ● | | | | |
| CNMG 190612 MT | | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR MOYENNE-ÉBAUCHE

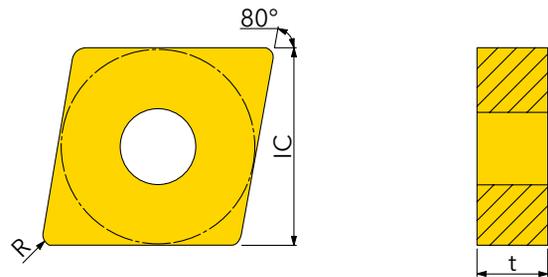
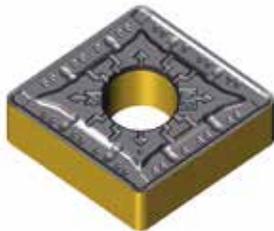


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|-------|-----------------|---------|---------|---------|--------|--------|
| CNMG 120404 PC | 0,25 (0,10/0,40) | 2,5 (0,4/5,0) | 12,4 | 4,76 | 0,4 | 12,7 | | | ● | ● | ● | ● |
| CNMG 120408 PC | 0,30 (0,15/0,50) | 2,5 (0,5/5,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120412 PC | 0,35 (0,17/0,55) | 2,5 (0,6/5,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● |
| CNMG 120416 PC | 0,40 (0,20/0,60) | 2,5 (0,8/5,0) | 11,2 | 4,76 | 1,6 | 12,7 | | | ● | | ● | |
| CNMG 160608 PC | 0,35 (0,20/0,55) | 4,0 (2,0/6,5) | 15,3 | 6,35 | 0,8 | 15,88 | | | ● | ● | | |
| CNMG 160612 PC | 0,42 (0,25/0,55) | 4,0 (2,0/6,5) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● | ● | | |
| CNMG 160616 PC | 0,45 (0,30/0,55) | 4,0 (2,0/6,5) | 14,4 | 6,35 | 1,6 | 15,88 | | | ● | ● | | |
| CNMG 190608 PC | 0,35 (0,23/0,55) | 5,0 (3,0/8,0) | 18,5 | 6,35 | 0,8 | 19,05 | | | ● | ● | | |
| CNMG 190612 PC | 0,42 (0,25/0,55) | 6,0 (3,0/8,0) | 18,5 | 6,35 | 1,2 | 19,05 | | | ● | ● | | |

for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE

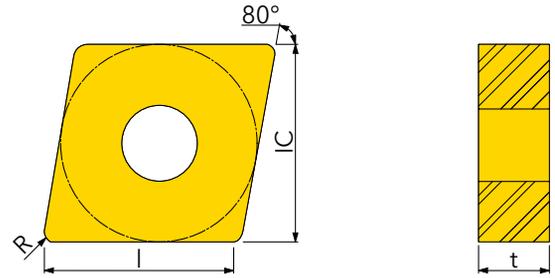


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT8135B |
|----------------------------------|------------------|---------------|------|------|-------|-----------------|---------|---------|---------|---------|
| CNMG 120408 RGP | 0,40 (0,25/0,70) | 4,0 (2,5/6,0) | 4,76 | 0,8 | 12,7 | | | ● | ● | |
| CNMG 120412 RGP | 0,40 (0,25/0,70) | 4,0 (2,5/6,0) | 4,76 | 1,2 | 12,7 | | | ● | ● | |
| CNMG 120416 RGP | 0,40 (0,30/0,70) | 4,0 (2,5/6,0) | 4,76 | 1,6 | 12,7 | | ● | ● | ● | ● |
| CNMG 160612 RGP | 0,30 (0,25/0,70) | 4,0 (3,0/7,0) | 14,8 | 6,35 | 1,2 | 15,88 | | | ● | |
| CNMG 160616 RGP | 0,30 (0,25/0,70) | 4,0 (3,0/7,0) | 14,8 | 6,35 | 1,6 | 15,88 | | ● | ● | ● |
| CNMG 190616 RGP | 0,50 (0,30/0,85) | 5,0 (3,0/9,0) | 6,35 | 1,6 | 19,05 | | | ● | ● | |

for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING / WIDE TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE / ARÊTE RENFORCÉE



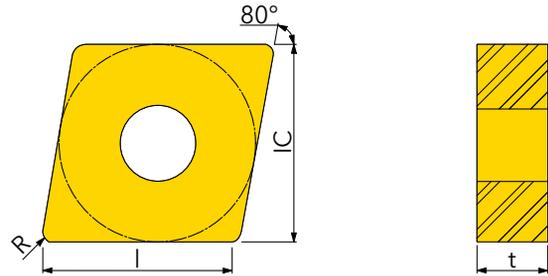
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC |
|----------------------------------|------------------|---------------|------|------|-----|-------|
| CNMG 120408 RT | 0,45 (0,25/0,70) | 4,0 (2,5/6,0) | 12,0 | 4,76 | 0,8 | 12,7 |
| CNMG 120412 RT | 0,56 (0,25/0,70) | 4,0 (2,5/6,0) | 11,6 | 4,76 | 1,2 | 12,7 |
| CNMG 160612 RT | 0,56 (0,25/0,70) | 5,0 (3,0/7,0) | 14,8 | 6,35 | 1,2 | 15,88 |
| CNMG 160616 RT | 0,64 (0,30/0,85) | 5,0 (3,0/7,0) | 14,4 | 6,35 | 1,6 | 15,88 |

for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8105B | TT8115B | TT9215 | TT8125B | TT5100 | TT9225 | TT8135B | TT9235 | | |
|----------------------------------|-----------------|--------|--------|--------|---------|---------|--------|---------|--------|--------|---------|--------|--|--|
| CNMG 120408 RT | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | |
| CNMG 120412 RT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CNMG 160612 RT | | ● | ● | | ● | ● | | ● | ● | | ● | | | |
| CNMG 160616 RT | | ● | ● | | ● | ● | | ● | ● | | ● | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

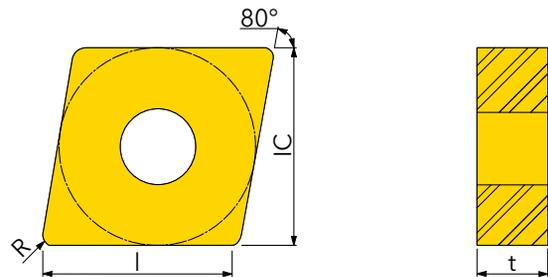
NEGATIVE 80° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80° - WIPER, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT8115B | TT9215 | TT8125B |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|---------|--------|---------|
| CNMG 120408 WT | 0,45 (0,15/0,60) | 2,0 (1,0/5,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| CNMG 120412 WT | 0,50 (0,20/0,80) | 2,0 (1,0/5,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | | ● |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

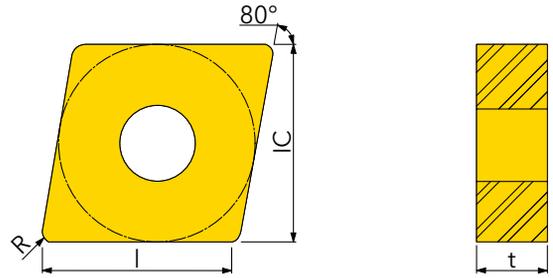
NEGATIVE 80° RHOMBIC INSERT, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80° - WIPER, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 | TT8115B |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|---------|
| CNMG 120404 WS | 0,20 (0,05/0,35) | 1,0 (0,5/2,0) | 12,4 | 4,76 | 0,4 | 12,7 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_-TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

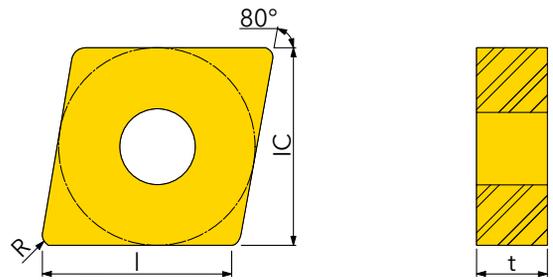
NEGATIVE 80° RHOMBIC INSERT, FOR HIGH FEED ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE SOUS DE HAUTES AVANCES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|------|-----|-------|-----------------|---------|---------|
| CNMM 120408 RH | 0,50 (0,30/0,70) | 4,0 (2,5/6,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| CNMM 120412 RH | 0,63 (0,30/0,80) | 4,0 (2,5/6,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● |
| CNMM 160612 RH | 0,63 (0,30/0,80) | 5,0 (3,0/8,0) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● |
| CNMM 190612 RH | 0,63 (0,35/0,80) | 6,0 (4,0/9,0) | 18,1 | 6,35 | 1,2 | 19,05 | | ● | ● |
| CNMM 190616 RH | 0,71 (0,45/1,00) | 6,0 (4,0/9,0) | 17,7 | 6,35 | 1,6 | 19,05 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

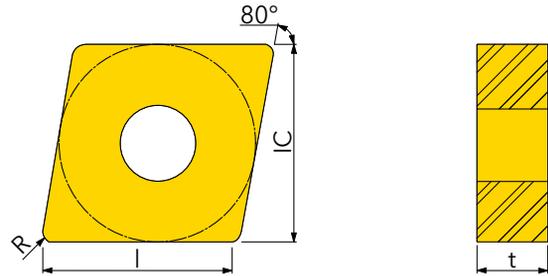
NEGATIVE 80° RHOMBIC INSERT, FOR HIGH FEED ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE SOUS DE HAUTES AVANCES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B | TT8135B |
|--|------------------|---------------|------|------|-----|-------|-----------------|---------|---------|
| CNMM 120408 RH(N) | 0,40 (0,25/0,60) | 3,0 (2,0/5,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | |
| CNMM 190616 RH(N) | 0,65 (0,45/0,90) | 5,0 (3,0/8,0) | 17,7 | 6,35 | 1,6 | 19,05 | | ● | ● |
| for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |
| Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° RHOMBIC INSERT, FOR ROUGHING / STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 80°, POUR ÉBAUCHE / ACIERS

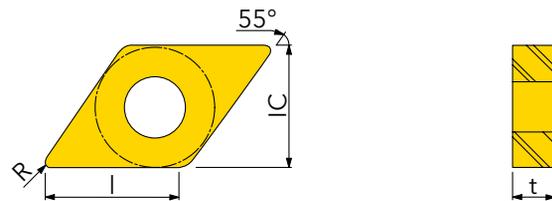
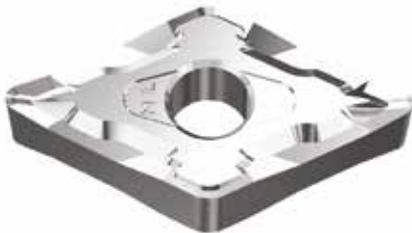


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|----------------|------|------|-----|-------|-----------------|---------|---------|
| CNMM 120408 RX | 0,37 (0,20/0,55) | 3,8 (0,7/7,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| CNMM 120412 RX | 0,41 (0,25/0,70) | 4,0 (1,0/7,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● |
| CNMM 160612 RX | 0,41 (0,25/0,70) | 5,0 (1,0/9,0) | 14,8 | 6,35 | 1,2 | 15,88 | | ● | ● |
| CNMM 160616 RX | 0,60 (0,30/0,90) | 5,2 (1,5/9,0) | 14,4 | 6,35 | 1,6 | 15,88 | | ● | |
| CNMM 160624 RX | 0,85 (0,35/1,20) | 5,5 (2,0/9,0) | 13,8 | 6,35 | 2,4 | 15,88 | | ● | |
| CNMM 190608 RX | 0,45 (0,20/0,70) | 5,4 (0,7/10,0) | 18,6 | 6,35 | 0,8 | 19,05 | | ● | |
| CNMM 190612 RX | 0,47 (0,25/0,70) | 5,5 (1,0/10,0) | 18,1 | 6,35 | 1,2 | 19,05 | | ● | ● |
| CNMM 190616 RX | 0,60 (0,30/0,90) | 5,7 (1,5/10,0) | 17,7 | 6,35 | 1,6 | 19,05 | | ● | ● |
| CNMM 190624 RX | 0,72 (0,35/1,10) | 6,0 (2,0/10,0) | 16,8 | 6,35 | 2,4 | 19,05 | | ● | ● |
| CNMM 250924 RX | 0,77 (0,35/1,20) | 7,0 (2,0/12,0) | 23,3 | 9,52 | 2,4 | 25,4 | | | ● |

for tool holders TC_NL/R; PC_NL/R & C_TCLNR/L
Pour les porte-outils TC_NL/R; PC_NL/R & C_TCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC GROUND INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION ET SEMI-FINITION, COUPE AFFÛTÉE ET TRÈS POSITIVE

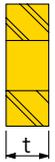
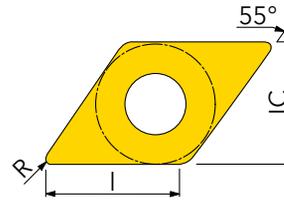


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | K10 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|-----|
| DNGG 150402 ML | 0,18 (0,10/0,30) | 1,2 (0,8/3,5) | 14,7 | 4,76 | 0,2 | 12,7 | | ● | |
| DNGG 150404 ML | 0,18 (0,10/0,30) | 1,2 (0,8/3,5) | 15,1 | 4,76 | 0,4 | 12,7 | | ● | ● |
| DNGG 150408 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 14,7 | 4,76 | 0,8 | 12,7 | | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

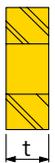
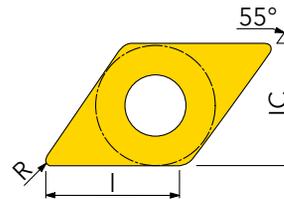
NEGATIVE 55° RHOMBIC INSERTS, FOR ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| DNMA 150408 | 0,42 (0,15/0,65) | 2,0 (0,8/4,0) | 14,7 | 4,76 | 0,8 | 12,7 | | ● | ● |
| DNMA 150412 | 0,50 (0,15/0,65) | 2,0 (1,2/4,0) | 14,4 | 4,76 | 1,2 | 12,7 | | ● | ● |
| DNMA 150608 | 0,42 (0,15/0,65) | 2,0 (0,8/4,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● |
| DNMA 150612 | 0,50 (0,15/0,65) | 2,0 (1,2/4,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

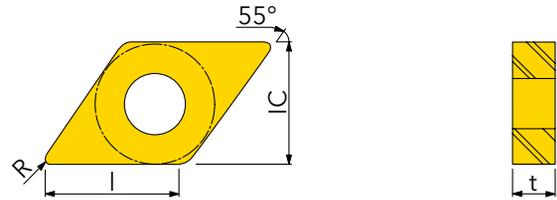
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|---------|---------|--------|
| DNMG 150604 | 0,28 (0,17/0,45) | 2,0 (1,0/4,0) | 15,1 | 6,35 | 0,4 | 12,7 | | ● | ● | | ● | ● | ● |
| DNMG 150608 | 0,38 (0,17/0,55) | 2,5 (1,5/4,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

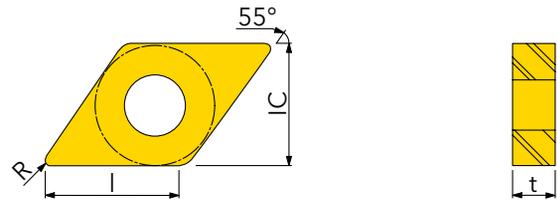
NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION / MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3010 | TT9215 | TT5080 | TT3020 | TT9225 | TT9080 | TT9235 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|--------|
| DNMG 150604 EA | 0,12 (0,05/0,20) | 0,7 (0,1/1,5) | 15,1 | 6,35 | 0,4 | 12,7 | | ● | ● | ● | ● | ● | ● | ● |
| DNMG 150608 EA | 0,18 (0,10/0,40) | 0,9 (0,1/1,5) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERT, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES

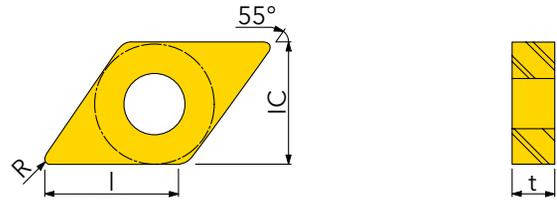


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 | TT8080 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|
| DNMG 110408 EM ¹⁾ | 0,30 (0,13/0,50) | 2,0 (0,5/4,0) | 10,8 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | | ● | ● |
| DNMG 150408 EM | 0,30 (0,13/0,50) | 3,0 (0,5/5,0) | 14,7 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | |
| DNMG 150412 EM | 0,35 (0,15/0,55) | 3,0 (0,5/5,0) | 14,3 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | | ● | |
| DNMG 150608 EM | 0,30 (0,13/0,50) | 3,0 (0,5/5,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| DNMG 150612 EM | 0,35 (0,15/0,55) | 3,0 (0,5/5,0) | 14,3 | 6,35 | 1,2 | 12,7 | | ● | ● | ● | | ● | |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |

¹⁾ Insert with srew hole / Plaquette avec trou pour vis

● = P ● = M ● = K ● = N ● = S ○ = H

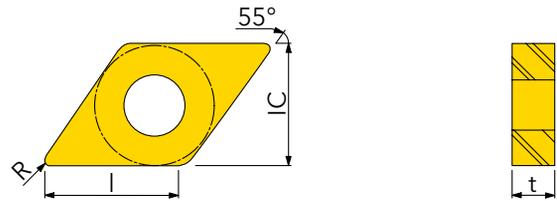
NEGATIVE 55° RHOMBIC INSERTS, FOR ROUGHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR ÉBAUCHE / MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9235 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|
| DNMG 150608 ET | 0,30 (0,20/0,60) | 3,0 (1,0/6,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● |
| DNMG 150612 ET | 0,35 (0,25/0,60) | 3,0 (1,0/6,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

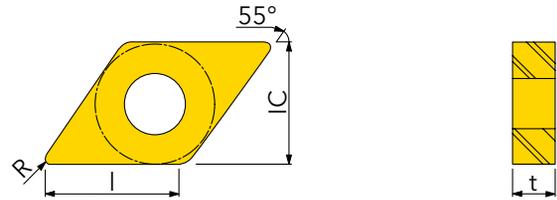
NEGATIVE 55° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|---------|
| DNMG 150608 FA | 0,12 (0,05/0,20) | 0,4 (0,2/2,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION

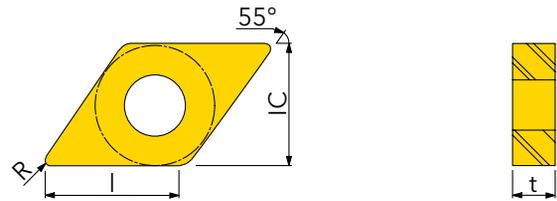


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 | TT9225 | TT9235 |
|--|------------------|----------------|------|------|-----|------|-----------------|---------|---------|---------|--------|--------|--------|
| DNMG 110404 FC ¹⁾ | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 11,2 | 4,76 | 0,4 | 9,52 | | | ● | | | | |
| DNMG 110408 FC ¹⁾ | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 10,8 | 4,76 | 0,8 | 9,52 | | | ● | ● | | ● | |
| DNMG 150604 FC | 0,1 (0,05/0,30) | 0,5 (0,15/1,5) | 15,1 | 6,35 | 0,4 | 12,7 | | | ● | ● | ● | ● | ● |
| DNMG 150608 FC | 0,2 (0,05/0,30) | 0,5 (0,25/2,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |

¹⁾Insert with screw-clamping / Plaquette avec trou de vis

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION

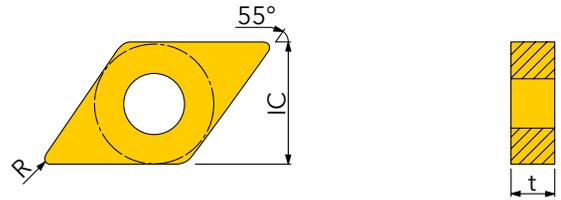
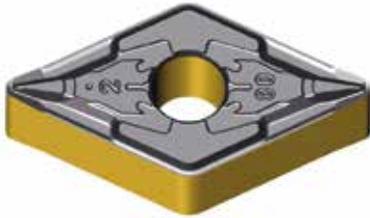


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT8125B | TT5100 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|---------|--------|---------|--------|
| DNMG 110404 FG ¹⁾ | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 11,2 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● | ● | ● |
| DNMG 110408 FG ¹⁾ | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 10,8 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● | ● |
| DNMG 150604 FG | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 15,1 | 6,35 | 0,4 | 12,7 | | ● | ● | ● | | ● | ● |
| DNMG 150608 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |

¹⁾Insert with screw-clamping / Plaquette avec trou de vis

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR FINITION

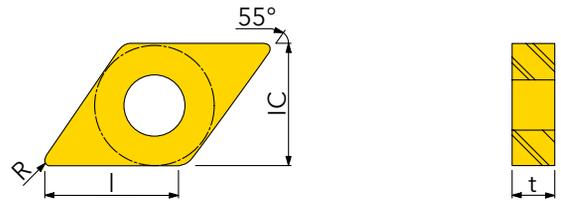


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|
| DNMG 150404 FLP | 0,15 (0,08/0,30) | 1,0 (0,2/2,0) | 4,76 | 0,4 | 12,7 | | ● | ● |
| DNMG 150408 FLP | 0,15 (0,08/0,30) | 1,0 (0,2/2,0) | 4,76 | 0,8 | 12,7 | | ● | ● |
| DNMG 150604 FLP | 0,15 (0,08/0,30) | 1,0 (0,2/2,0) | 6,35 | 0,4 | 12,7 | | ● | ● |
| DNMG 150608 FLP | 0,15 (0,10/0,30) | 1,0 (0,3/2,0) | 6,35 | 0,8 | 12,7 | | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR ROUGHING OF CAST IRON
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR ÉBAUCHE DES FONTES

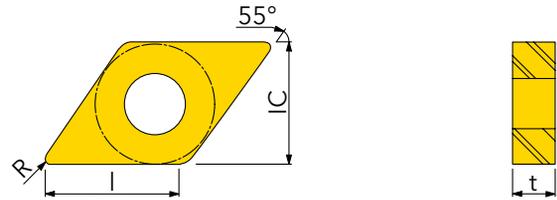


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT7025 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|
| DNMG 150608 KT | 0,32 (0,17/0,47) | 3,0 (0,3/7,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● |
| DNMG 150612 KT | 0,38 (0,23/0,63) | 3,5 (0,5/7,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE

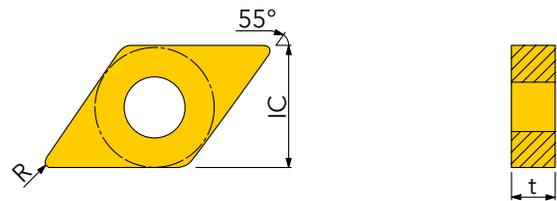


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|
| DNMG 150604 MC | 0,20 (0,10/0,30) | 1,5 (0,5/3,5) | 15,1 | 4,76 | 0,4 | 12,7 | | | | ● |
| DNMG 150608 MC | 0,30 (0,12/0,35) | 1,5 (0,7/3,5) | 14,7 | 6,35 | 0,8 | 12,7 | ● | ● | | ● |
| DNMG 150612 MC | 0,30 (0,15/0,35) | 1,5 (1,0/3,5) | 14,4 | 6,35 | 1,2 | 12,7 | ● | | | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE

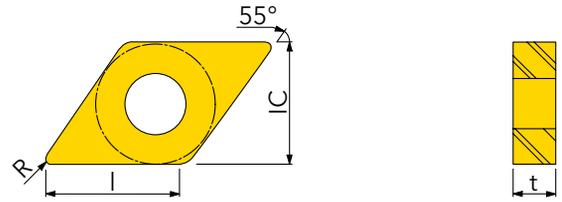
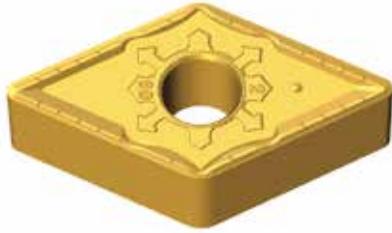


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|---------|
| DNMG 150408 MGP | 0,25 (0,15/0,50) | 2,0 (0,6/4,0) | 4,76 | 0,8 | 12,7 | | | ● | ● |
| DNMG 150412 MGP | 0,25 (0,15/0,50) | 2,0 (0,6/4,0) | 4,76 | 1,2 | 12,7 | | | ● | ● |
| DNMG 150608 MGP | 0,25 (0,15/0,50) | 2,0 (0,5/4,0) | 6,35 | 0,8 | 12,7 | ● | | ● | ● |
| DNMG 150612 MGP | 0,25 (0,17/0,55) | 2,0 (0,6/4,0) | 6,35 | 1,2 | 12,7 | | | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SEMI-FINITION DES MATÉRIAUX EXOTIQUES

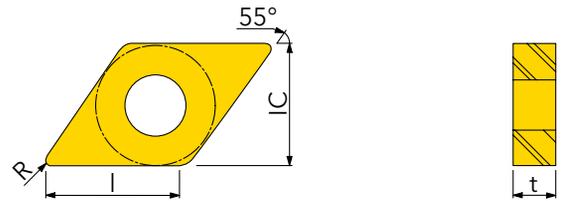


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3005 | TT3010 | TT3020 | K10 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|-----|
| DNMG 150408 MGS | 0,20 (0,15/0,40) | 2,0 (1,0/4,0) | 15,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| DNMG 150608 MGS | 0,20 (0,15/0,40) | 2,0 (1,0/4,0) | 15,0 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● |
| DNMG 150612 MGS | 0,22 (0,17/0,40) | 2,0 (1,0/4,0) | 14,6 | 6,35 | 1,2 | 12,7 | | ● | ● | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE

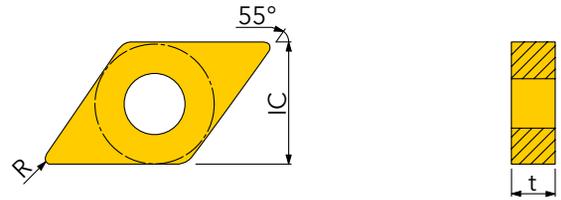


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT8080 | TT8020 | K10 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|--------|---------|--------|--------|--------|-----|
| DNMG 150604 ML | 0,18 (0,10/0,30) | 1,2 (0,8/3,5) | 15,1 | 6,35 | 0,4 | 12,7 | ● | ● | ● | ● | ● | ● | ● | ● |
| DNMG 150608 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● | ● |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

● = P ● = M ● = K ● = N ● = S ○ = H

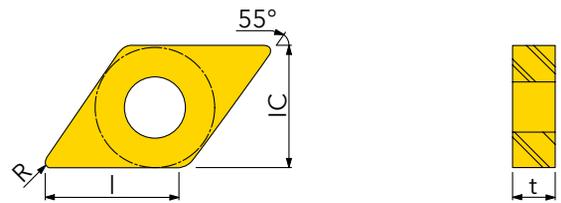
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|--|------------------|----------------|------|-----|------|-----------------|---------|---------|
| DNMG 150408 MLP | 0,25 (0,10/0,40) | 1,5 (0,3/3,5) | 4,76 | 0,8 | 12,7 | | ● | ● |
| DNMG 150412 MLP | 0,25 (0,10/0,40) | 1,5 (0,35/3,5) | 4,76 | 1,2 | 12,7 | | ● | ● |
| DNMG 150608 MLP | 0,20 (0,10/0,40) | 1,5 (0,3/3,5) | 6,35 | 0,8 | 12,7 | | ● | ● |
| DNMG 150612 MLP | 0,25 (0,15/0,50) | 1,5 (0,35/3,5) | 6,35 | 1,2 | 12,7 | | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

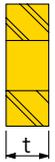
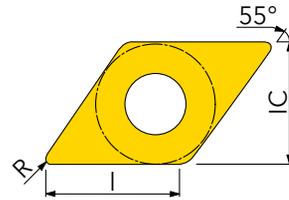
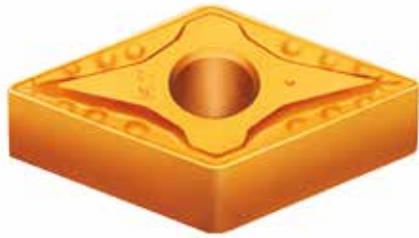
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM MACHINING/ POSITIVE RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE / ARÊTE POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT5100 | TT9225 | TT9235 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|
| DNMG 150604 MP | 0,21 (0,10/0,30) | 1,5 (0,8/4,0) | 15,1 | 6,35 | 0,4 | 12,7 | | | ● | ● | ● | ● |
| DNMG 150608 MP | 0,30 (0,12/0,40) | 2,0 (1,0/4,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR SEMI-FINITINO; ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC |
|----------------------------------|-------------|--------------|---|---|---|----|
|----------------------------------|-------------|--------------|---|---|---|----|

| | | | | | | |
|------------------------------------|------------------|---------------|------|------|-----|------|
| DNMG 110408 MT¹⁾ | 0,30 (0,17/0,40) | 1,5 (1,0/3,0) | 10,8 | 4,76 | 0,8 | 9,52 |
| DNMG 110412 MT¹⁾ | 0,36 (0,20/0,45) | 1,5 (1,0/3,0) | 10,5 | 4,76 | 1,2 | 9,52 |
| DNMG 150604 MT | 0,25 (0,15/0,40) | 2,0 (0,8/4,0) | 15,1 | 6,35 | 0,4 | 12,7 |
| DNMG 150608 MT | 0,35 (0,17/0,50) | 2,5 (1,0/4,0) | 14,7 | 6,35 | 0,8 | 12,7 |
| DNMG 150612 MT | 0,42 (0,20/0,50) | 2,5 (1,3/4,0) | 14,4 | 6,35 | 1,2 | 12,7 |

for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L

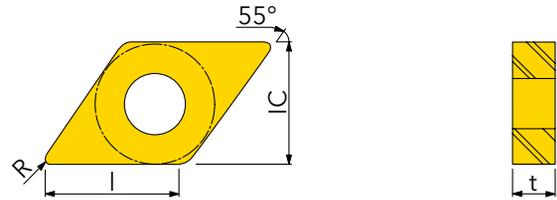
Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L

¹⁾ Insert with screw-clamping / Plaquette avec trou de vis

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8115B | TT5080 | TT8125B | TT5100 | TT8020 | | | | | |
|----------------------------------|-----------------|--------|--------|--------|---------|--------|---------|--------|--------|--|--|--|--|--|
| DNMG 110408 MT | | ● | ● | | ● | ● | ● | ● | | | | | | |
| DNMG 110412 MT | | ● | | | ● | | | ● | | | | | | |
| DNMG 150604 MT | | ● | ● | | ● | ● | ● | ● | | | | | | |
| DNMG 150608 MT | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |
| DNMG 150612 MT | | ● | ● | ● | ● | ● | ● | ● | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

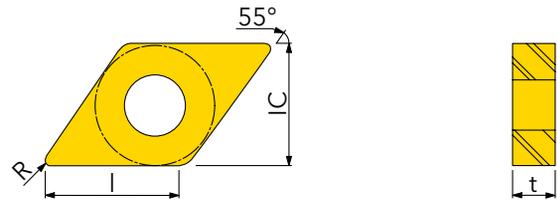
NEGATIVE 55° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT9215 | TT8125B | TT5100 | TT9225 |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|---------|--------|--------|
| DNMG 110408 PC | 0,30 (0,17/0,40) | 1,5 (1,0/3,0) | 10,8 | 4,76 | 0,8 | 9,52 | | ● | ● | | ● | | |
| DNMG 150604 PC | 0,25 (0,15/0,50) | 2,0 (0,4/4,0) | 15,1 | 6,35 | 0,4 | 12,7 | | | ● | ● | ● | ● | ● |
| DNMG 150608 PC | 0,30 (0,15/0,50) | 2,0 (0,5/4,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | ● |
| DNMG 150612 PC | 0,35 (0,17/0,55) | 2,0 (0,6/4,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● | ● | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

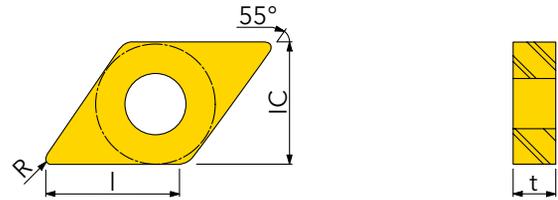
NEGATIVE 55° RHOMBIC INSERTS, FOR ROUGHING / WIDE, TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, POUR ÉBAUCHE / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 | TT8105B | TT8115B | TT8125B | TT8135B |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|---------|---------|---------|---------|
| DNMG 150608 RT | 0,42 (0,25/0,65) | 3,0 (2,0/4,0) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | | ● | ● | ● |
| DNMG 150612 RT | 0,50 (0,25/0,65) | 3,0 (2,5/4,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● | | ● | |
| DNMG 150616 RT | 0,55 (0,25/0,70) | 3,5 (2,5/5,5) | 14,0 | 6,35 | 1,6 | 12,7 | | | ● | ● | ● | |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

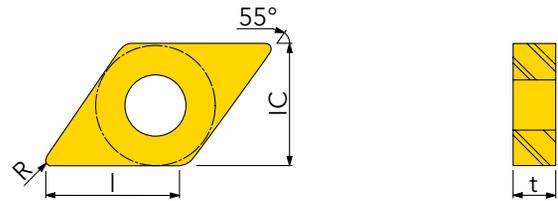
NEGATIVE 55° RHOMBIC INSERTS, FOR LOW /MEDIUM CUTTING FORCE
PLAQUETTES NÉGATIVES RHOMBIQUES 55°, FAIBLE; MOYEN EFFORT DE COUPE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|
| DNMG 150604 L-VF | 0,18 (0,10/0,35) | 1,5 (0,7/4,5) | 15,1 | 6,35 | 0,4 | 12,7 | | ● | ● | ● |
| DNMG 150604 R-VF | 0,18 (0,10/0,35) | 1,5 (0,7/4,5) | 15,1 | 6,35 | 0,4 | 12,7 | | ● | ● | ● |
| DNMG 150608 L-VF | 0,22 (0,12/0,45) | 1,8 (1,0/4,5) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | |
| DNMG 150608 R-VF | 0,22 (0,12/0,45) | 1,8 (1,0/4,5) | 14,7 | 6,35 | 0,8 | 12,7 | | ● | ● | |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

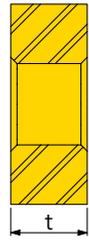
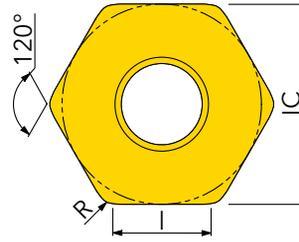
NEGATIVE 55° RHOMBIC WIPER INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 55° -WIPER, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|---------|---------|
| DNMG 150612 WT | 0,45 (0,15/0,60) | 2,0 (1,0/5,0) | 14,4 | 6,35 | 1,2 | 12,7 | | ● | ● | ● |
| for tool holders TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | |
| Pour les porte-outils TD_NL/R; PD_NL/R & A_PD_NR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

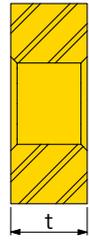
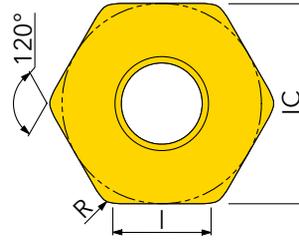
NEGATIVE 120° HEXAGONAL INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES HEXAGONALES 120°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B | TT5100 |
|---|------------------|---------------|-----|------|-----|-------|-----------------|---------|--------|
| HNMG 050408 GU | 0,35 (0,15/0,60) | 2,0 (0,5/3,5) | 6,2 | 4,76 | 0,8 | 12,7 | | ● | ● |
| HNMG 100612 GU | 0,80 (0,40/1,00) | 5,0 (3,0/8,0) | 10 | 6,35 | 1,2 | 19,05 | | ● | |
| for tool holders THSNL/R & A_THSNL/R | | | | | | | | | |
| Pour les porte-outils THSNL/R & A_THSNL/R | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

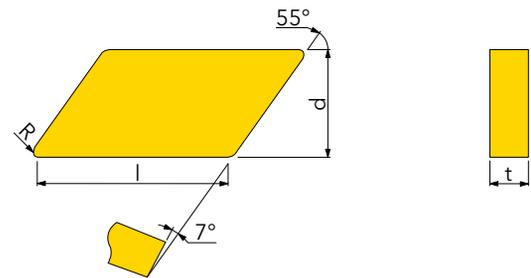
NEGATIVE 120° HEXAGONAL INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES HEXAGONALES 120°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 |
|---|------------------|---------------|-----|------|-----|-------|-----------------|--------|--------|
| HNMG 050408 SU | 0,25 (0,15/0,50) | 1,5 (0,5/3,5) | 6,2 | 4,76 | 0,8 | 12,7 | | ● | ● |
| HNMG 100612 SU | 0,50 (0,30/0,80) | 3 (2/6) | 10 | 6,35 | 1,2 | 19,05 | | | ● |
| for tool holders THSNL/R & A_THSNL/R | | | | | | | | | |
| Pour les porte-outils THSNL/R & A_THSNL/R | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

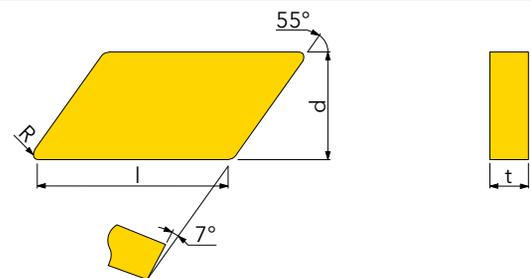
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM MACHINING IN PROFILING
PLAQUETTES NÉGATIVES 55°, POUR MOYENNE-ÉBAUCHE EN COPIAGE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | d | t | R | Grade Nuance | TT8115B | TT8125B | TT5100 | TT9225 |
|--|------------------|---------------|------|------|------|-----|-----------------|---------|---------|--------|--------|
| KNUX 160405 L11 | 0,30 (0,15/0,35) | 2,5 (1,5/5,0) | 19,2 | 9,52 | 4,76 | 0,5 | | ● | ● | ● | ● |
| KNUX 160405 R11 | 0,30 (0,15/0,35) | 2,5 (1,5/5,0) | 19,2 | 9,52 | 4,76 | 0,5 | | ● | ● | ● | ● |
| KNUX 160410 L11 | 0,36 (0,21/0,45) | 3,5 (2,0/5,0) | 18,8 | 9,52 | 4,76 | 1,0 | | ● | ● | ● | ● |
| KNUX 160410 R11 | 0,36 (0,21/0,45) | 3,5 (2,0/5,0) | 18,8 | 9,52 | 4,76 | 1,0 | | ● | ● | ● | ● |
| for tool holders CKJNR/L & CKNNR/L | | | | | | | | | | | |
| Pour les porte-outils CKJNR/L & CKNNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

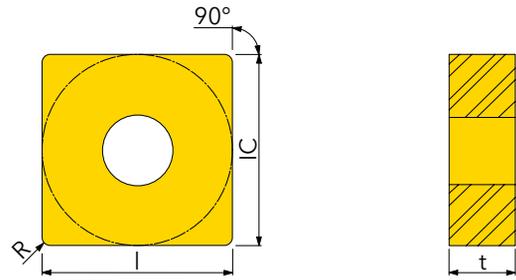
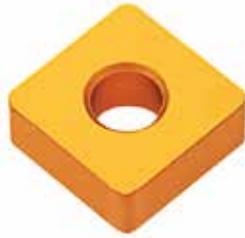
NEGATIVE 55° RHOMBIC INSERTS, FOR MEDIUM MACHINING IN PROFILING
PLAQUETTES NÉGATIVES 55°, POUR MOYENNE-ÉBAUCHE EN COPIAGE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | d | t | R | Grade Nuance | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|------|------|------|-----|-----------------|---------|---------|--------|
| KNUX 160405 L12 | 0,36 (0,24/0,50) | 2,5 (2,0/5,0) | 19,2 | 9,52 | 4,76 | 0,5 | | ● | | ● |
| KNUX 160405 R12 | 0,36 (0,24/0,50) | 2,5 (2,0/5,0) | 19,2 | 9,52 | 4,76 | 0,5 | | | ● | ● |
| KNUX 160410 L12 | 0,43 (0,30/0,60) | 3,5 (2,5/6,0) | 18,8 | 9,52 | 4,76 | 1,0 | | | ● | |
| KNUX 160410 R12 | 0,43 (0,30/0,60) | 3,5 (2,5/6,0) | 18,8 | 9,52 | 4,76 | 1,0 | | ● | ● | ● |
| for tool holders CKJNR/L & CKNNR/L | | | | | | | | | | |
| Pour les porte-outils CKJNR/L & CKNNR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 90° SQUARE INSERT, FOR ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE

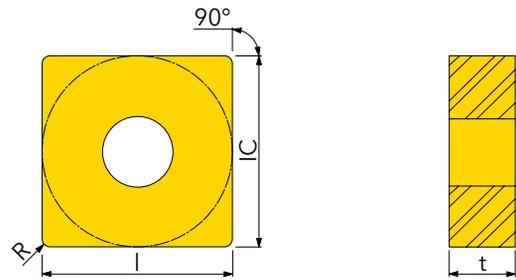


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|
| SNMA 120408 | 0,45 (0,15/0,70) | 3,0 (1,0/6,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● |
| SNMA 120412 | 0,56 (0,20/0,80) | 3,0 (1,5/6,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● |
| SNMA 120416 | 0,65 (0,30/1,00) | 3,0 (2,0/6,0) | 11,1 | 4,76 | 1,6 | 12,7 | | ● |

for tool holders PSBNR/L & TSKNR/L
Pour les porte-outils PSBNR/L & TSKNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE ÉBAUCHE

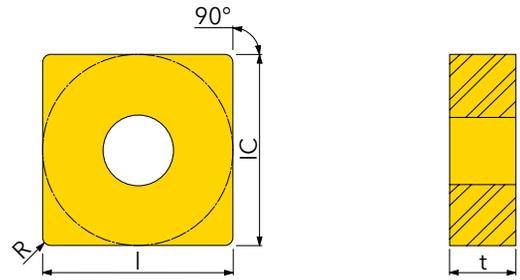


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7025 | TT8115B | TT8125B | TT8020 |
|----------------------------------|------------------|---------------|------|------|-----|-------|-----------------|--------|---------|---------|--------|
| SNMG 120408 | 0,40 (0,23/0,60) | 3,0 (1,5/5,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| SNMG 120412 | 0,50 (0,25/0,60) | 3,0 (2,0/5,0) | 11,5 | 4,76 | 1,2 | 12,7 | | | | ● | |
| SNMG 150608 | 0,40 (0,25/0,60) | 4,0 (1,5/6,0) | 15 | 6,35 | 0,8 | 15,88 | | | | ● | |
| SNMG 150616 | 0,57 (0,35/0,70) | 4,0 (2,0/6,0) | 14,2 | 6,35 | 1,6 | 15,88 | | | ● | | |

for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L
Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

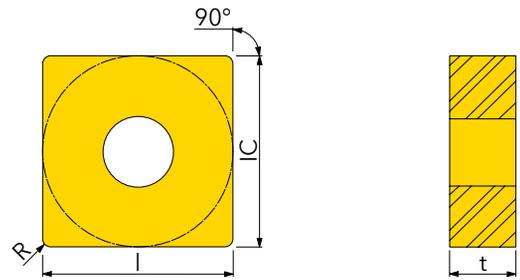
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 |
|---|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|--------|--------|--------|
| SNMG 120408 EM | 0,30 (0,13/0,50) | 3,0 (0,8/5,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● |
| SNMG 120412 EM | 0,35 (0,15/0,55) | 3,0 (0,8/5,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● |
| SNMG 150612 EM | 0,35 (0,15/0,55) | 3,5 (0,8/6,5) | 14,6 | 6,35 | 1,2 | 15,88 | | ● | | | | ● |
| SNMG 150616 EM | 0,40 (0,17/0,60) | 3,5 (0,8/6,5) | 14,2 | 6,35 | 1,6 | 15,88 | | ● | | | | ● |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

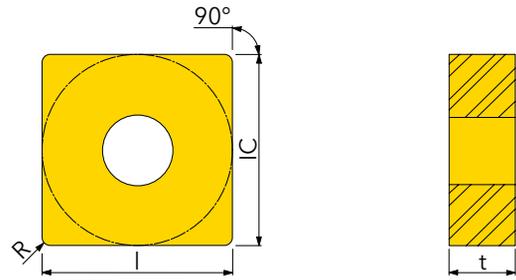
NEGATIVE 90° SQUARE INSERTS, FOR ROUGHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE / MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | TT9225 | TT9080 | TT9235 |
|--|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|--------|--------|
| SNMG 120408 ET | 0,30 (0,25/0,70) | 3,0 (2,0/7,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| SNMG 120412 ET | 0,35 (0,30/0,70) | 3,0 (2,0/7,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● |
| SNMG 190612 ET | 0,35 (0,35/0,75) | 6,0 (3,0/9,0) | 17,8 | 6,35 | 1,2 | 19,05 | | ● | ● | ● | ● |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

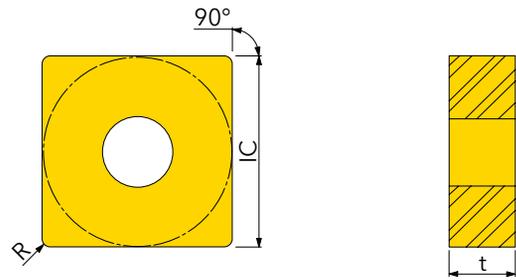
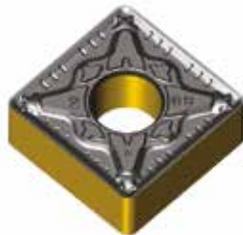
NEGATIVE 90° SQUARE INSERTS, FOR ROUGHING OF CAST IRON
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE DES FONTES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 | TT7025 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| SNMG 120408 KT | 0,35 (0,19/0,53) | 4,0 (0,3/7,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● |
| SNMG 120412 KT | 0,45 (0,28/0,70) | 4,0 (0,5/7,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

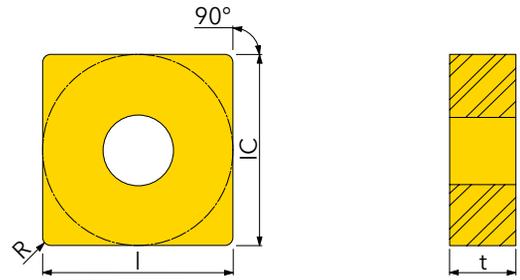
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B | |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|--|
| SNMG 120408 MGP | 0,30 (0,15/0,50) | 3,0 (0,5/5,0) | 4,76 | 0,8 | 12,7 | | ● | ● | |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

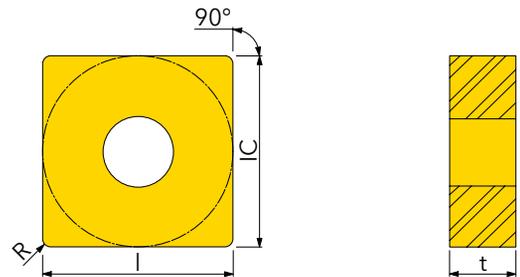
NEGATIVE 90° SQUARE INSERTS, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR SEMI-FINITION DES MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3005 | TT3010 | TT3020 |
|--|------------------|---------------|------|------|-----|-------|-----------------|--------|--------|--------|
| SNMG 120408 MGS | 0,20 (0,15/0,40) | 2,0 (1,0/4,0) | 12,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| SNMG 120412 MGS | 0,20 (0,17/0,40) | 2,0 (1,3/4,0) | 11,6 | 4,76 | 1,2 | 12,7 | | ● | ● | ● |
| SNMG 190616 MGS | 0,20 (0,17/0,60) | 2,0 (1,5/8,0) | 18,2 | 6,35 | 1,6 | 19,05 | | ● | ● | ● |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

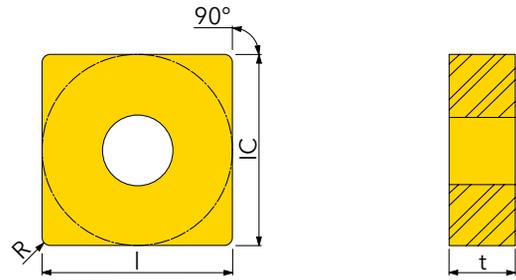
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5100 | TT8020 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| SNMG 120408 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● |
| SNMG 120412 ML | 0,30 (0,15/0,35) | 2,0 (1,3/3,5) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

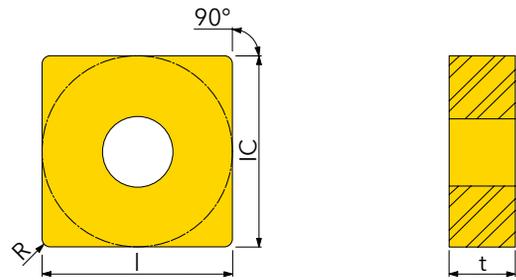
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM MACHINING / POSITIVE RAKE ANGLE
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE-ÉBAUCHE / ARÊTE DE COUPE POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | TT5100 | TT9225 | TT8020 |
|--|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|
| SNMG 120404 MP | 0,21 (0,10/0,30) | 2,0 (0,8/4,0) | 12,3 | 4,76 | 0,4 | 12,7 | | | ● | | ● |
| SNMG 120408 MP | 0,33 (0,12/0,40) | 2,0 (1,0/4,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| SNMG 120412 MP | 0,36 (0,15/0,40) | 2,0 (1,3/4,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

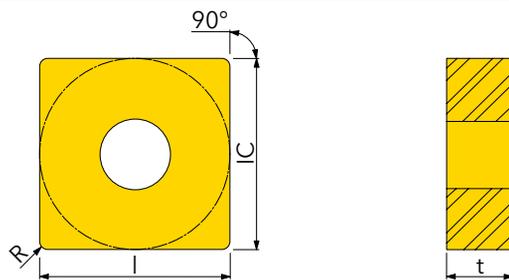
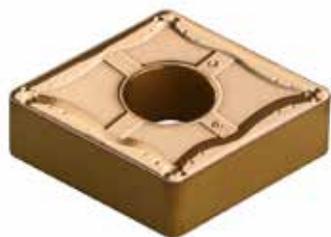
NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR SEMI-FINITION / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT8080 |
|--|------------------|---------------|------|------|-----|-------|-----------------|---------|--------|---------|--------|--------|--------|
| SNMG 120404 MT | 0,25 (0,12/0,40) | 3,0 (1,0/5,0) | 12,3 | 4,76 | 0,4 | 12,7 | | | | ● | ● | | |
| SNMG 120408 MT | 0,35 (0,17/0,55) | 3,0 (1,2/5,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● | ● | |
| SNMG 120412 MT | 0,42 (0,20/0,55) | 3,0 (1,5/5,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● | ● | ● |
| SNMG 150612 MT | 0,50 (0,30/0,65) | 5,0 (2,0/7,0) | 14,6 | 6,35 | 1,2 | 15,88 | | | | ● | | | |
| for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | | | |
| Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 90° SQUARE INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR MOYENNE-ÉBAUCHE



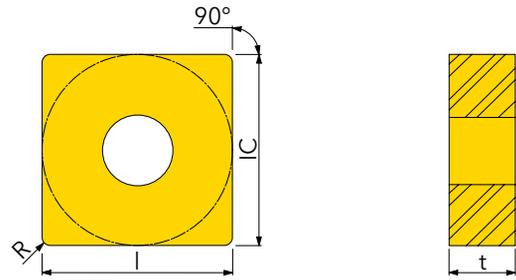
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|
| SNMG 120404 PC | 0,25 (0,12/0,40) | 3,0 (1,0/5,0) | 12,3 | 4,76 | 0,4 | 12,7 | | | | ● |
| SNMG 120408 PC | 0,30 (0,15/0,50) | 2,5 (0,5/5,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| SNMG 120412 PC | 0,30 (0,15/0,50) | 2,5 (0,5/5,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● | ● |

for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L

Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 90° SQUARE INSERTS, FOR ROUGHING / WIDE, TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC |
|----------------------------------|------------------|---------------|------|------|-----|-------|
| SNMG 120408 RT | 0,45 (0,25/0,70) | 4,0 (2,5/6,0) | 11,9 | 4,76 | 0,8 | 12,7 |
| SNMG 120412 RT | 0,56 (0,30/0,70) | 4,0 (2,5/6,0) | 11,5 | 4,76 | 1,2 | 12,7 |
| SNMG 190612 RT | 0,56 (0,30/0,75) | 6,0 (3,0/9,0) | 17,8 | 6,35 | 1,2 | 19,05 |
| SNMG 190616 RT | 0,65 (0,40/0,90) | 6,0 (3,0/9,0) | 17,4 | 6,35 | 1,6 | 19,05 |

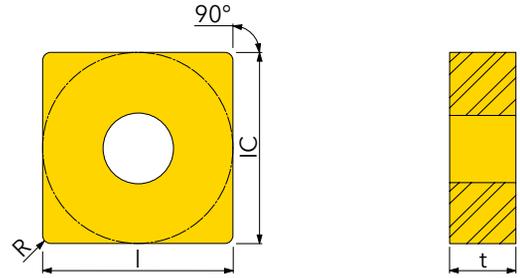
for tool holders PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L
Pour les porte-outils PSBNR/L, PSDNN, PSSNR/L, TSDNN & TSKNR/L

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT8105B | TT8115B | TT8125B | TT5100 | TT8135B | TT9235 | | | | | |
|----------------------------------|-----------------|--------|--------|---------|---------|---------|--------|---------|--------|--|--|--|--|--|
| SNMG 120408 RT | | ● | ● | | | ● | ● | | | | | | | |
| SNMG 120412 RT | | ● | ● | ● | ● | ● | | | ● | | | | | |
| SNMG 190612 RT | | ● | | | ● | ● | ● | ● | ● | | | | | |
| SNMG 190616 RT | | | | | ● | ● | ● | ● | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



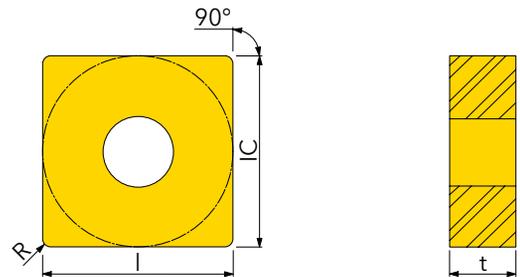
NEGATIVE 90° SQUARE INSERTS, FOR HEAVY ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE LOURDE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|----------------|------|------|-----|-------|-----------------|---------|---------|
| SNMM 190616 HT | 0,70 (0,45/1,00) | 6,0 (4,0/9,0) | 17,4 | 6,35 | 1,6 | 19,05 | | ● | ● |
| SNMM 190624 HT | 0,95 (0,55/1,20) | 6,0 (4,0/9,0) | 16,6 | 6,35 | 2,4 | 19,05 | | ● | ● |
| SNMM 250724 HT | 1,00 (0,55/1,30) | 8,0 (5,0/12,0) | 23,0 | 7,94 | 2,4 | 25,4 | | ● | ● |
| SNMM 250924 HT | 1,00 (0,55/1,30) | 8,0 (5,0/12,0) | 23,0 | 9,52 | 2,4 | 25,4 | | ● | ● |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

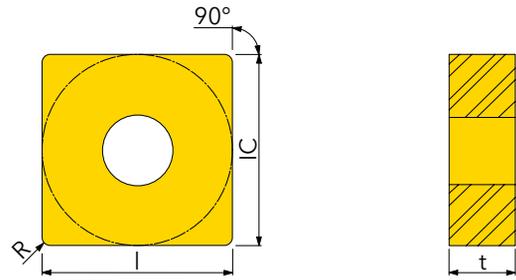
NEGATIVE 90° SQUARE INSERTS, FOR SPECIAL HEAVY ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR GROSSE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|-----------------|------|------|-----|-------|-----------------|---------|---------|
| SNMM 190624 HY | 0,85 (0,50/1,10) | 9,0 (4,0/12,0) | 16,6 | 6,35 | 2,4 | 19,05 | | ● | ● |
| SNMM 250924 HY | 1,00 (0,55/1,50) | 10,0 (4,0/15,0) | 23,0 | 9,52 | 2,4 | 25,4 | | ● | ● |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

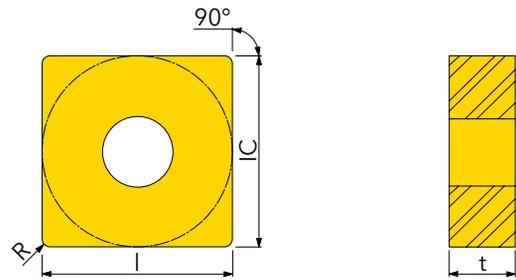
NEGATIVE 90° SQUARE INSERTS, FOR HIGH FEED ROUGHING
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE EN GRANDE AVANCE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|-------|-----------------|---------|--------|
| SNMM 120408 RH | 0,50 (0,30/0,70) | 4,0 (2,5/6,0) | 11,9 | 4,76 | 0,8 | 12,7 | | ● | ● |
| SNMM 120412 RH | 0,63 (0,30/0,80) | 4,0 (2,5/6,0) | 11,5 | 4,76 | 1,2 | 12,7 | | ● | ● |
| SNMM 150612 RH | 0,63 (0,30/0,80) | 5,0 (3,0/7,0) | 14,6 | 6,35 | 1,2 | 15,88 | | ● | ● |
| SNMM 190608 RH | 0,50 (0,30/0,70) | 6,0 (3,0/9,0) | 18,2 | 6,35 | 0,8 | 19,05 | | ● | ● |
| SNMM 190612 RH | 0,63 (0,30/0,80) | 6,0 (4,0/9,0) | 17,8 | 6,35 | 1,2 | 19,05 | | ● | ● |
| SNMM 190616 RH | 0,71 (0,45/1,00) | 6,0 (4,0/9,0) | 17,4 | 6,35 | 1,6 | 19,05 | | ● | ● |
| SNMM 190624 RH | 0,94 (0,55/1,20) | 7,0 (4,0/9,0) | 16,6 | 6,35 | 2,4 | 19,05 | | ● | |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

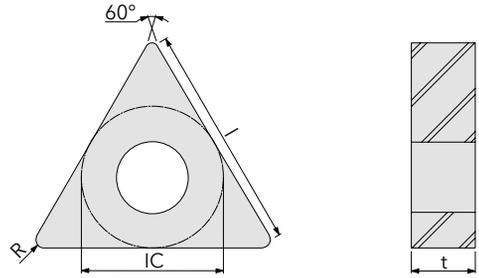
NEGATIVE 90° SQUARE INSERTS, FOR ROUGHING / STEEL
PLAQUETTES NÉGATIVES CARRÉES 90°, POUR ÉBAUCHE / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|----------------|------|------|-----|-------|-----------------|---------|---------|
| SNMM 150612 RX | 0,47 (0,25/0,70) | 5,0 (1,0/9,0) | 14,6 | 6,35 | 1,2 | 15,88 | | ● | |
| SNMM 190612 RX | 0,47 (0,25/0,70) | 5,5 (1,0/10,0) | 17,8 | 6,35 | 1,2 | 19,05 | | ● | ● |
| SNMM 190616 RX | 0,60 (0,30/0,90) | 5,7 (1,5/10,0) | 17,4 | 6,35 | 1,6 | 19,05 | | ● | ● |
| SNMM 190624 RX | 0,72 (0,35/1,10) | 6,0 (2,0/10,0) | 16,6 | 6,35 | 2,4 | 19,05 | | | ● |
| SNMM 250724 RX | 0,77 (0,35/1,20) | 7,0 (2,0/12,0) | 23,0 | 7,94 | 2,4 | 25,4 | | ● | ● |
| SNMM 250924 RX | 0,47 (0,35/1,20) | 7,0 (2,0/12,0) | 23,0 | 9,52 | 2,4 | 25,4 | | ● | ● |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | | | |
| Pour les porte-outils TCLNR/L & PCLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM LIGHT MACHINING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE

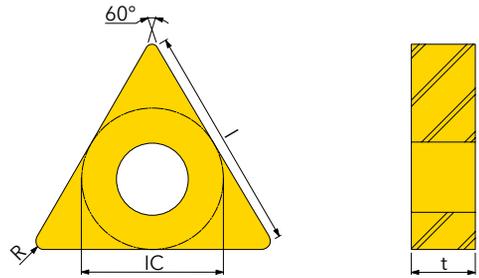


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|
| TNGG 160404 L | 0,18 (0,12/0,30) | 2,0 (1,0/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | |
| TNGG 160404 R | 0,18 (0,12/0,30) | 2,0 (1,0/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | |
| TNGG 160408 L | 0,25 (0,15/0,35) | 2,0 (1,3/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | |
| TNGG 160408 R | 0,25 (0,15/0,35) | 2,0 (1,3/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | |
| TNGG 220404 L | 0,18 (0,12/0,30) | 3,0 (1,0/5,0) | 21,0 | 4,76 | 0,4 | 12,7 | | |
| TNGG 220404 R | 0,18 (0,12/0,30) | 3,0 (1,0/5,0) | 21,0 | 4,76 | 0,4 | 12,7 | | |
| TNGG 220408 L | 0,25 (0,15/0,35) | 3,0 (1,3/5,0) | 20,0 | 4,76 | 0,8 | 12,7 | | |
| TNGG 220408 R | 0,25 (0,15/0,35) | 3,0 (1,3/5,0) | 20,0 | 4,76 | 0,8 | 12,7 | | |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION / MATÉRIAUX EXOTIQUES

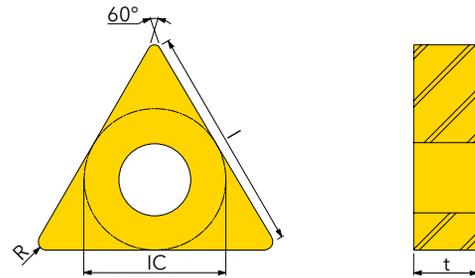


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|
| TNMG 160404 EA | 0,12 (0,05/0,20) | 0,7 (0,1/1,5) | 15,5 | 4,76 | 0,4 | 9,52 | | | | |
| TNMG 160408 EA | 0,18 (0,10/0,40) | 0,9 (0,1/1,5) | 14,5 | 4,76 | 0,8 | 9,52 | | | | |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES

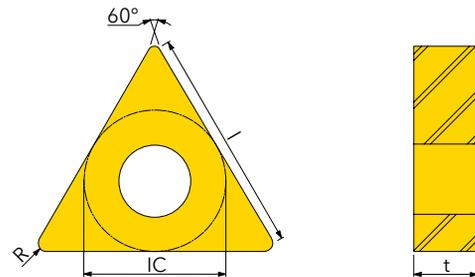


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|--------|
| TNMG 160408 EM | 0,30 (0,13/0,50) | 2,5 (0,8/4,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● |
| TNMG 160412 EM | 0,35 (0,15/0,55) | 2,5 (0,8/4,5) | 13,5 | 4,76 | 1,2 | 9,52 | | | ● | ● | ● | |
| TNMG 220408 EM | 0,30 (0,13/0,50) | 3,5 (0,8/6,0) | 20,0 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | | ● |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR ROUGHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR ÉBAUCHE / MATÉRIAUX EXOTIQUES

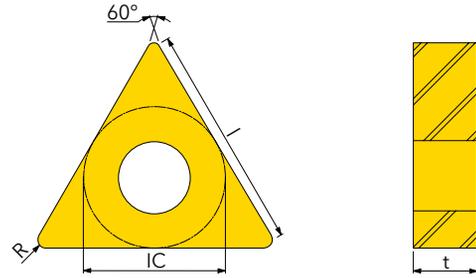


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT9235 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| TNMG 160408 ET | 0,30 (0,25/0,65) | 4,0 (2,0/5,0) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 220408 ET | 0,30 (0,25/0,65) | 5,0 (2,5/7,0) | 20,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| TNMG 220412 ET | 0,35 (0,25/0,65) | 5,0 (2,5/7,0) | 19,0 | 4,76 | 1,2 | 12,7 | | ● | ● |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION



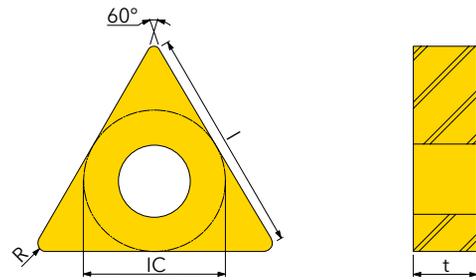
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B |
|----------------------------------|------------------|----------------|------|------|-----|------|-----------------|---------|
| TNMG 160404 FC | 0,1 (0,05/0,30) | 0,5 (0,15/1,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● |
| TNMG 160408 FC | 0,2 (0,07/0,35) | 0,5 (0,25/2,0) | 14,5 | 4,76 | 0,8 | 9,52 | | ● |
| TNMG 160412 FC | 0,22 (0,09/0,40) | 0,8 (0,8/3,0) | 13,5 | 4,76 | 1,2 | 9,52 | | ● |

for tool holders TTGNR/L & PTGNR/L

Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION



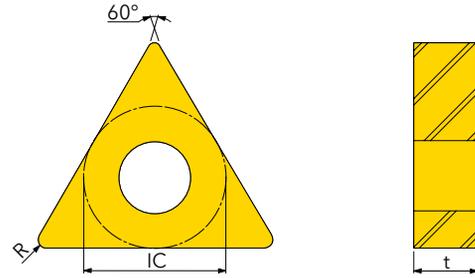
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8105B | TT8115B |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|---------|---------|
| TNMG 160404 FG | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● | | ● |
| TNMG 160408 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● | | ● |
| TNMG 160412 FG | 0,18 (0,13/0,30) | 1,0 (0,7/2,0) | 13,5 | 4,76 | 1,2 | 9,52 | | | | ● | |

for tool holders TTGNR/L & PTGNR/L

Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR FINITION

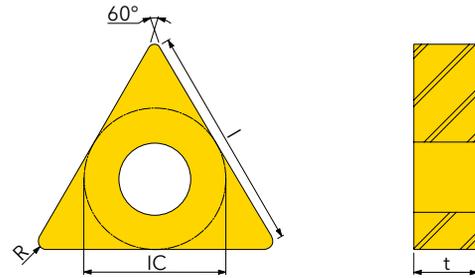


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 160404 FLP | 0,15 (0,08/0,30) | 1,0 (0,2/2,0) | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160408 FLP | 0,15 (0,10/0,30) | 1,0 (0,3/2,0) | 4,76 | 0,8 | 9,52 | | ● | ● |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR ROUGHING OF CAST IRON
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR ÉBAUCHE DES FONTES

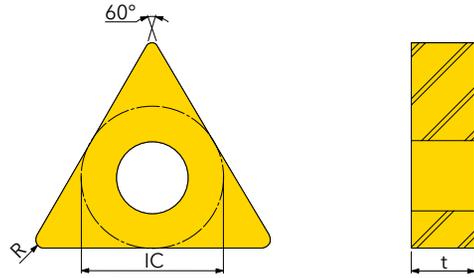


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| TNMG 160408 KT | 0,32 (0,17/0,42) | 3,5 (0,3/6,2) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160412 KT | 0,40 (0,20/0,56) | 3,5 (0,4/6,3) | 13,5 | 4,76 | 1,2 | 9,52 | | ● | ● |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

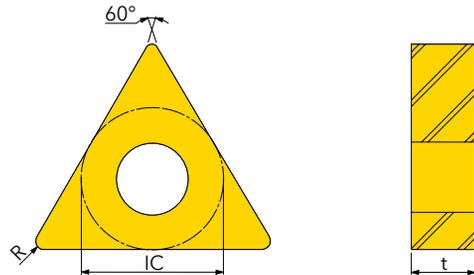
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| TNMG 160408 MGP | 0,25 (0,15/0,50) | 2,0 (0,5/4,5) | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160408 MGP | 0,25 (0,15/0,50) | 2,0 (0,5/4,5) | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

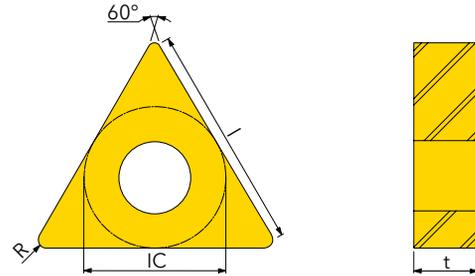
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|----------------|------|-----|------|-----------------|---------|---------|
| TNMG 160404 MLP | 0,15 (0,07/0,30) | 1,0 (0,25/2,5) | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160408 MLP | 0,20 (0,10/0,40) | 1,5 (0,3/2,5) | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160412 MLP | 0,25 (0,15/0,50) | 1,5 (0,35/2,5) | 4,76 | 1,2 | 9,52 | | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

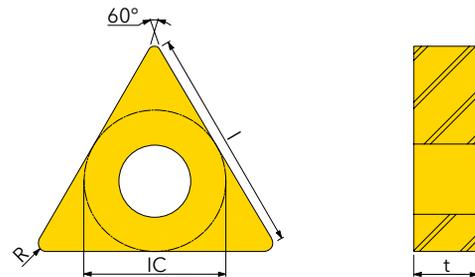
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT5100 | TT8020 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|--------|--------|--------|
| TNMG 160404 ML | 0,18 (0,10/0,30) | 1,5 (0,8/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● |
| TNMG 160408 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | | ● | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

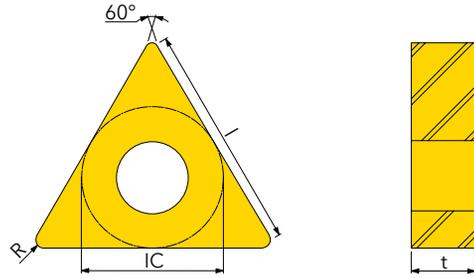
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM MACHINING / POSITIVE RAKE ANGLE
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE-ÉBAUCHE / ARÊTE POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | TT5100 | TT9225 | TT8020 |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|
| TNMG 160404 MP | 0,21 (0,10/0,30) | 1,5 (0,8/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● |
| TNMG 160408 MP | 0,30 (0,12/0,40) | 1,5 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SEMI-FINITION / ARÊTE RENFORCÉE

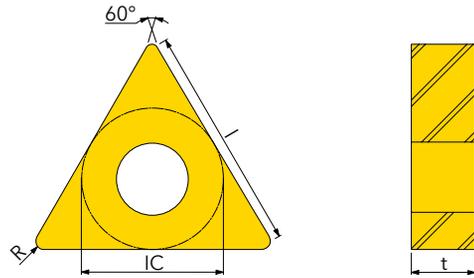


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT8115B | TT8125B | TT5100 | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|---------|---------|--------|--------|
| TNMG 160404 MT | 0,25 (0,15/0,40) | 2,0 (1,0/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● | ● | |
| TNMG 160408 MT | 0,35 (0,17/0,50) | 2,0 (1,2/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● | ● |
| TNMG 160412 MT | 0,42 (0,20/0,50) | 2,0 (1,5/3,5) | 13,5 | 4,76 | 1,2 | 9,52 | | ● | | | ● | ● | ● |
| TNMG 220404 MT | 0,25 (0,15/0,40) | 2,0 (1,2/5,0) | 21,0 | 4,76 | 0,4 | 12,7 | | | | ● | ● | ● | |
| TNMG 220408 MT | 0,35 (0,17/0,50) | 3,0 (1,2/5,0) | 20,0 | 4,76 | 0,8 | 12,7 | | ● | | ● | ● | ● | |
| TNMG 220412 MT | 0,42 (0,20/0,50) | 3,0 (1,5/5,0) | 19,0 | 4,76 | 1,2 | 12,7 | | | | ● | ● | | |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE-ÉBAUCHE

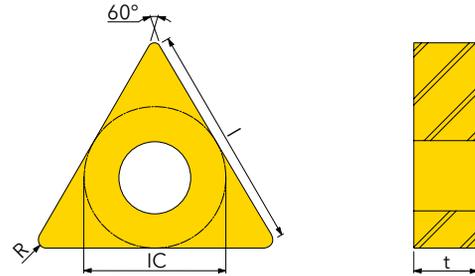


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT8125B | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|---------|--------|---------|--------|
| TNMG 160404 PC | 0,25 (0,15/0,40) | 2,0 (1,0/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | | ● | ● |
| TNMG 160408 PC | 0,30 (0,15/0,50) | 2,5 (0,5/4,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● |
| TNMG 160412 PC | 0,35 (0,17/0,55) | 2,5 (0,6/4,5) | 13,5 | 4,76 | 1,2 | 9,52 | | ● | | ● | ● |
| TNMG 220408 PC | 0,35 (0,17/0,50) | 3,0 (1,2/5,0) | 20,0 | 4,76 | 0,8 | 12,7 | | ● | | ● | |
| TNMG 220412 PC | 0,42 (0,20/0,50) | 3,0 (1,5/5,0) | 19,0 | 4,76 | 1,2 | 12,7 | | ● | | | |

for tool holders TTGNR/L & PTGNR/L
Pour les porte-outils TTGNR/L & PTGNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

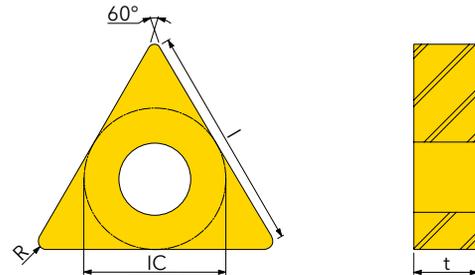
NEGATIVE 60° TRIANGULAR INSERTS, FOR ROUGHING / WIDE, TROUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR ÉBAUCHE / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 | TT8125B |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|---------|
| TNMG 160408 RT | 0,42 (0,25/0,65) | 3,0 (2,0/5,0) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160412 RT | 0,50 (0,25/0,65) | 3,0 (2,0/5,0) | 13,5 | 4,76 | 1,2 | 9,52 | | ● | ● |
| TNMG 220408 RT | 0,42 (0,25/0,65) | 4,0 (2,0/7,0) | 20,0 | 4,76 | 0,8 | 12,7 | | ● | ● |
| TNMG 220412 RT | 0,50 (0,25/0,65) | 4,0 (2,5/7,0) | 19,0 | 4,76 | 1,2 | 12,7 | | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

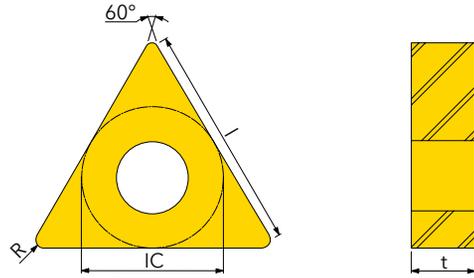
NEGATIVE 60° TRIANGULAR INSERTS, FOR SEMI FINISHING
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|--------|
| TNMG 160404 L-FS | 0,20 (0,15/0,30) | 1,2 (0,8/3,0) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160404 R-FS | 0,20 (0,15/0,30) | 1,2 (0,8/3,0) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160408 L-FS | 0,30 (0,20/0,40) | 2,0 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160408 R-FS | 0,30 (0,20/0,40) | 2,0 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

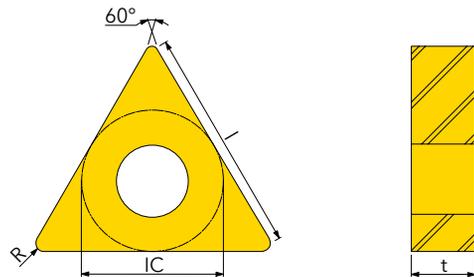
NEGATIVE 60° TRIANGULAR INSERTS, FOR MEDIUM / LOW CUTTING FORCE
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR MOYENNE-ÉBAUCHE - RÉDUIT LES EFFORTS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B | TT5100 |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|--------|
| TNMG 160404 L-VF | 0,18 (0,10/0,30) | 1,5 (0,7/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160404 R-VF | 0,18 (0,10/0,30) | 1,5 (0,7/3,5) | 15,5 | 4,76 | 0,4 | 9,52 | | ● | ● |
| TNMG 160408 L-VF | 0,22 (0,12/0,35) | 1,8 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| TNMG 160408 R-VF | 0,22 (0,12/0,35) | 1,8 (1,0/3,5) | 14,5 | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

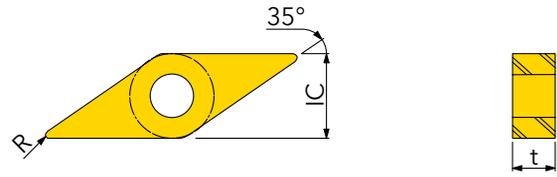
NEGATIVE 60° TRIANGULAR INSERTS, FOR ROUGHING / STEEL
PLAQUETTES NÉGATIVES TRIANGULAIRES 60°, POUR ÉBAUCHE / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8125B |
|--|------------------|---------------|------|------|-----|------|-----------------|---------|
| TNMM 160408 RX | 0,37 (0,20/0,55) | 3,3 (0,7/6,0) | 14,5 | 4,76 | 0,8 | 9,52 | | ● |
| TNMM 220408 RX | 0,37 (0,20/0,55) | 4,2 (1,0/7,5) | 20,0 | 4,76 | 0,8 | 12,7 | | ● |
| TNMM 220412 RX | 0,47 (0,25/0,70) | 4,2 (1,0/7,5) | 19,0 | 4,76 | 1,2 | 12,7 | | ● |
| TNMM 220416 RX | 0,60 (0,30/0,90) | 4,5 (1,5/7,5) | 18,0 | 4,76 | 1,6 | 12,7 | | ● |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

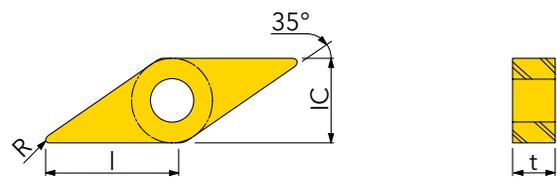
COMMON TYPE CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION ET SEMI-FINITION, COUPE AFFÛTÉE ET TRÈS POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT5080 | K10 |
|---|------------------|---------------|------|-----|------|-----------------|--------|-----|
| VNGG 160401 ML | 0,05 (0,03/0,10) | 0,5 (0,1/1,0) | 4,76 | 0,1 | 9,52 | | | |
| VNGG 160402 ML | 0,08 (0,05/0,15) | 0,6 (0,2/1,2) | 4,76 | 0,2 | 9,52 | | | |
| VNGG 160404 ML | 0,18 (0,10/0,27) | 1,4 (0,8/3,0) | 4,76 | 0,4 | 9,52 | | | |
| VNGG 160408 ML | 0,21 (0,10/0,30) | 1,6 (0,8/3,5) | 4,76 | 0,8 | 9,52 | | | |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

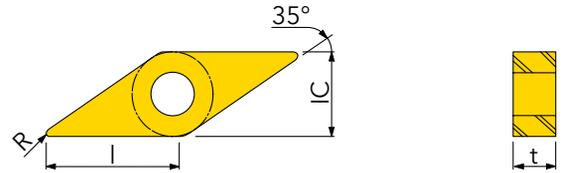
COMMON TYPE CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 | TT8115B | TT8125B |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|---------|---------|
| VNMG 160404 | 0,25 (0,17/0,40) | 1,5 (1,0/3,0) | 15,6 | 4,76 | 0,4 | 9,52 | | | | |
| VNMG 160408 | 0,34 (0,17/0,50) | 2,0 (1,5/3,0) | 14,6 | 4,76 | 0,8 | 9,52 | | | | |
| VNMG 160412 | 0,40 (0,20/0,50) | 2,0 (1,5/3,0) | 13,6 | 4,76 | 1,2 | 9,52 | | | | |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

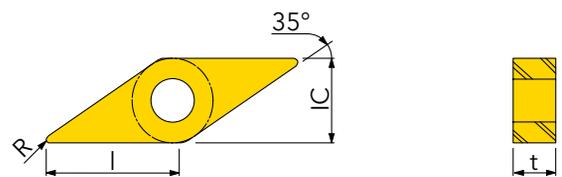
COMMON TYPE CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR FINISHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION / MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| VNMG 160404 EA | 0,12 (0,05/0,20) | 0,7 (0,1/1,5) | 15,6 | 4,76 | 0,4 | 9,52 | | ● | ● |
| VNMG 160408 EA | 0,18 (0,08/0,30) | 0,9 (0,2/2,5) | 14,6 | 4,76 | 0,8 | 9,52 | | ● | ● |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

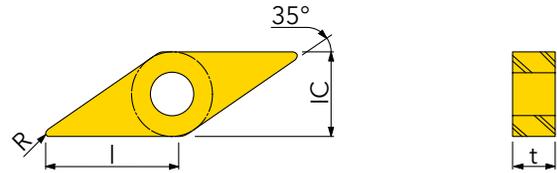
NEGATIVE 35° RHOMBIC INSERT, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT9225 | TT9080 | TT9235 |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|--------|
| VNMG 160408 EM | 0,30 (0,13/0,50) | 2,0 (0,8/3,5) | 14,6 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

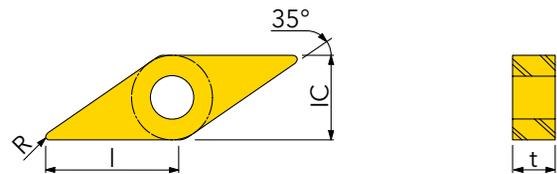
CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT5080 |
|---|------------------|---------------|------|------|-----|------|-----------------|----------------------------------|----------------------------------|
| VNMG 160408 FA | 0,12 (0,05/0,25) | 0,5 (0,3/2,0) | 14,6 | 4,76 | 0,8 | 9,52 | | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

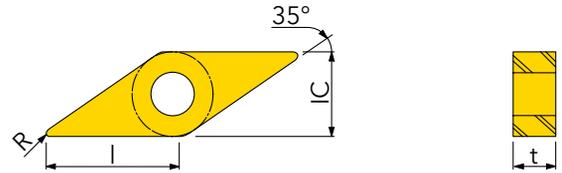
NEGATIVE 35° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 |
|---|------------------|----------------|------|------|-----|------|-----------------|----------------------------------|----------------------------------|----------------------------------|
| VNMG 160408 FC | 0,15 (0,07/0,35) | 0,5 (0,25/2,0) | 14,6 | 4,76 | 0,8 | 9,52 | | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION



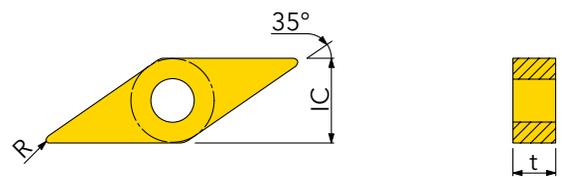
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT8125B | TT5100 | TT8020 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|---------|--------|---------|--------|--------|
| VNMG 130404 FG ¹⁾ | 0,10 (0,08/0,20) | 0,7 (0,5/1,5) | 10,8 | 4,76 | 0,4 | 7,94 | | | | ● | ● | ● | ● | ● |
| VNMG 130408 FG ¹⁾ | 0,13 (0,10/0,23) | 0,8 (0,5/2,0) | 11,8 | 4,76 | 0,8 | 7,94 | | | | ● | ● | ● | ● | |
| VNMG 160404 FG | 0,10 (0,08/0,20) | 0,8 (0,5/2,0) | 15,6 | 4,76 | 0,4 | 9,52 | | ● | ● | ● | ● | ● | ● | ● |
| VNMG 160408 FG | 0,13 (0,10/0,23) | 0,8 (0,5/2,0) | 14,6 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● | ● | ● |

for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN
Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN

¹⁾ Insert with screw-clamping / Plaquette avec trou de vis

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 35° RHOMBIC INSERT, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION

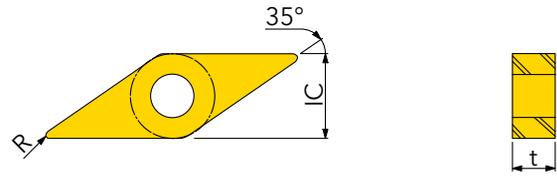


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|
| VNMG 160404 FLP | 0,15 (0,08/0,30) | 0,5 (0,2/1,5) | 4,76 | 0,4 | 9,52 | | ● | ● |
| VNMG 160408 FLP | 0,15 (0,10/0,30) | 0,5 (0,3/1,5) | 4,76 | 0,8 | 9,52 | | ● | ● |
| VNMG 160412 FLP | 0,15 (0,08/0,30) | 0,5 (0,2/1,5) | 4,76 | 1,2 | 9,52 | | ● | ● |

for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN
Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN

● = P ● = M ● = K ● = N ● = S ○ = H

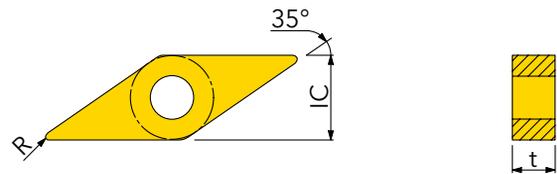
CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | CT3000 | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|--------|---------|---------|
| VNMG 160404 FX | 0,10 (0,05/0,20) | 0,6 (0,2/2,0) | 4,76 | 0,4 | 9,52 | | | | |
| VNMG 160408 FX | 0,13 (0,07/0,20) | 0,8 (0,2/2,0) | 4,76 | 0,8 | 9,52 | | | | |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

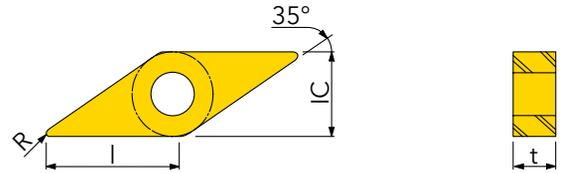
NEGATIVE 35° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|---|------------------|---------------|------|-----|------|-----------------|---------|---------|
| VNMG 160408 MGP | 0,20 (0,17/0,36) | 1,5 (0,5/3,0) | 4,76 | 0,8 | 9,52 | | | |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR SEMI-FINITION / ARÊTE RENFORCÉE

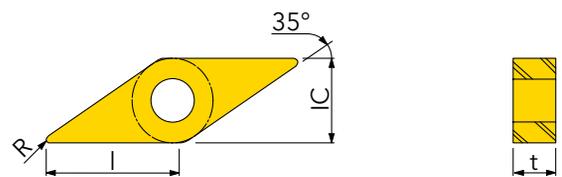


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 | TT7015 | TT7025 | TT8115B | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|--------|--------|---------|---------|--------|
| VNMG 130404 MT ¹⁾ | 0,22 (0,15/0,36) | 1,2 (0,8/2,5) | 10,8 | 4,76 | 0,4 | 7,94 | | | ● | ● | | | ● |
| VNMG 130408 MT ¹⁾ | 0,27 (0,17/0,36) | 1,5 (1,0/2,5) | 11,8 | 4,76 | 0,8 | 7,94 | | | | | ● | ● | ● |
| VNMG 160404 MT | 0,22 (0,15/0,36) | 1,2 (0,8/3,0) | 15,6 | 4,76 | 0,4 | 9,52 | | ● | | ● | ● | ● | ● |
| VNMG 160408 MT | 0,27 (0,17/0,36) | 1,5 (1,0/2,5) | 14,6 | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● | ● | ● |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | | | | |

¹⁾ Insert with screw-clamping / Plaquette avec trou de vis

● = P ● = M ● = K ● = N ● = S ○ = H

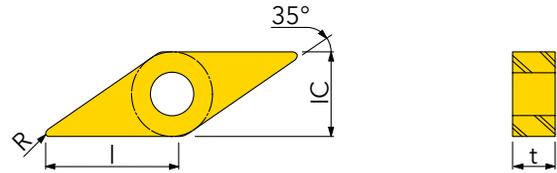
NEGATIVE 35° RHOMBIC INSERT, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 |
|---|------------------|---------------|------|------|-----|------|-----------------|---------|---------|--------|
| VNMG 160404 PC | 0,22 (0,15/0,36) | 1,2 (0,8/3,0) | 15,6 | 4,76 | 0,4 | 9,52 | | ● | ● | ● |
| VNMG 160408 PC | 0,27 (0,17/0,36) | 1,5 (1,0/2,5) | 14,6 | 4,76 | 0,8 | 9,52 | | ● | ● | ● |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

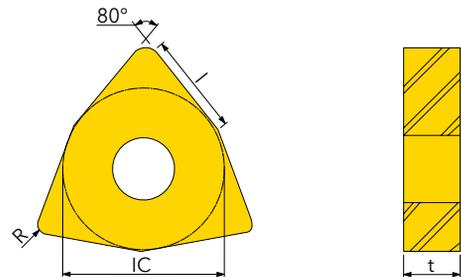
CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES RHOMBIQUES 35°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5100 | K10 |
|---|------------------|---------------|------|------|-----|------|-----------------|--------|-----|
| VNMM 160404 ML | 0,16 (0,10/0,27) | 1,2 (0,8/3,0) | 15,6 | 4,76 | 0,4 | 9,52 | | | |
| VNMM 160408 ML | 0,22 (0,12/0,32) | 1,5 (1,0/3,0) | 14,6 | 4,76 | 0,8 | 9,52 | | | |
| for tool holders MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |
| Pour les porte-outils MVJNR/L; MVQNR/L; MVVNN; TVJNR/L; TVQNR/L & TVVNN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

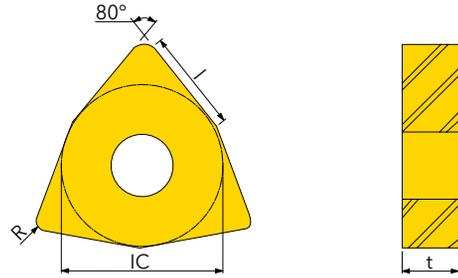
NEGATIVE 80° TRIGON INSERTS, FOR ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80° SANS BRISÉ COPEAUX, POUR ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 |
|--|------------------|---------------|-----|------|-----|------|-----------------|--------|
| WNMA 080408 | 0,45 (0,15/0,70) | 3,0 (1,0/5,0) | 8,3 | 4,76 | 0,8 | 12,7 | | |
| WNMA 080412 | 0,50 (0,20/0,80) | 3,0 (1,5/5,0) | 8,2 | 4,76 | 1,2 | 12,7 | | |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR FINISHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR FINITION / MATÉRIAUX EXOTIQUES

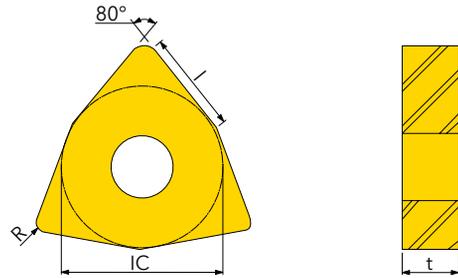


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|
| WNMG 080404 EA | 0,12 (0,05/0,20) | 0,7 (0,1/1,5) | 8,4 | 4,76 | 0,4 | 12,7 | | | |
| WNMG 080408 EA | 0,18 (0,10/0,40) | 0,9 (0,1/1,5) | 8,3 | 4,76 | 0,8 | 12,7 | | | |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING / STAINLESS STEEL
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE / ACIERS INOXYDABLES

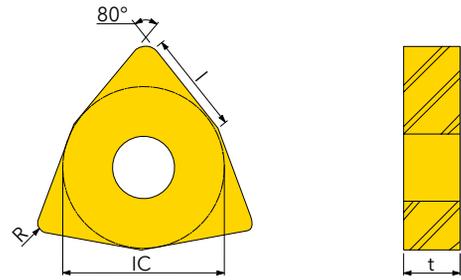


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9080 | TT9235 | TT8080 |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|
| WNMG 060408 EM | 0,30 (0,13/0,50) | 2,0 (0,8/3,0) | 6,1 | 4,76 | 0,8 | 9,52 | | | | | | | |
| WNMG 060412 EM | 0,35 (0,15/0,55) | 2,0 (0,8/3,0) | 6,0 | 4,76 | 1,2 | 9,52 | | | | | | | |
| WNMG 080404 EM | 0,25 (0,15/0,45) | 2,5 (0,8/4,0) | 8,4 | 4,76 | 0,4 | 12,7 | | | | | | | |
| WNMG 080408 EM | 0,25 (0,12/0,45) | 2,5 (0,8/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | | | | | | |
| WNMG 080412 EM | 0,25 (0,12/0,45) | 2,5 (0,8/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | | | | | | |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

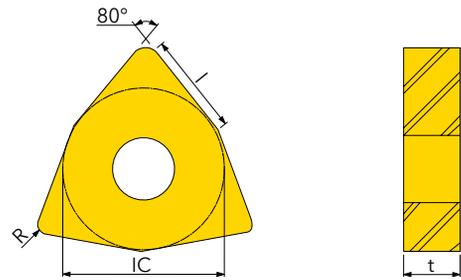
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR ROUGHING / EXOTIC MATERIAL
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR ÉBAUCHE / MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT9225 | TT9235 |
|--|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|--------|--------|
| WNMG 080408 ET | 0,30 (0,15/0,55) | 3,5 (0,8/4,5) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| WNMG 080412 ET | 0,35 (0,20/0,50) | 3,5 (0,8/4,5) | 8,2 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

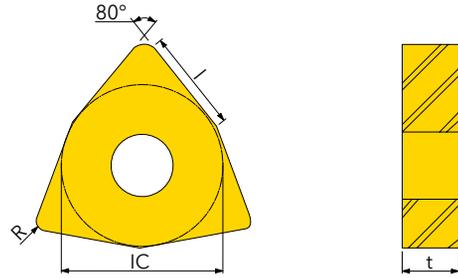
NEGATIVE 80° TRIGON INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT8125B | TT9225 |
|--|-----------------|----------------|-----|------|-----|------|-----------------|---------|---------|--------|
| WNMG 080408 FC | 0,2 (0,07/0,35) | 0,5 (0,25/2,0) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR FINITION

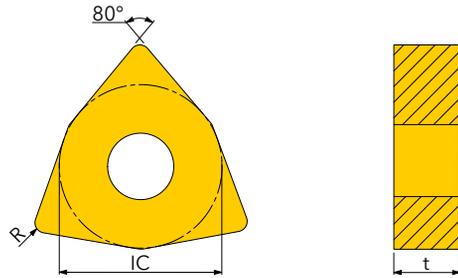
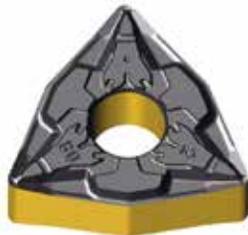


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|---------|--------|---------|--------|
| WNMG 060404 FG | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 6,2 | 4,76 | 0,4 | 9,52 | | | | ● | ● |
| WNMG 060408 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 6,1 | 4,76 | 0,8 | 9,52 | ● | | | | ● |
| WNMG 080404 FG | 0,11 (0,07/0,20) | 0,8 (0,5/2,0) | 8,4 | 4,76 | 0,4 | 12,7 | ● | ● | | ● | ● |
| WNMG 080408 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 8,3 | 4,76 | 0,8 | 12,7 | ● | | | ● | ● |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° TRIGON INSERTS, FOR FINISHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR FINITION

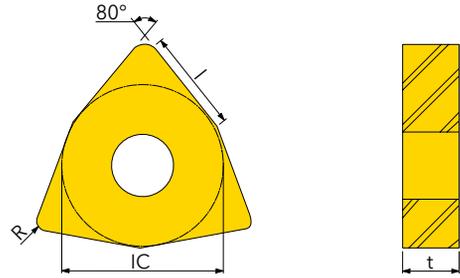


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|
| WNMG 080408 FLP | 0,20 (0,10/0,30) | 1,0 (0,3/2,0) | 4,76 | 0,8 | 12,7 | | ● | ● |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

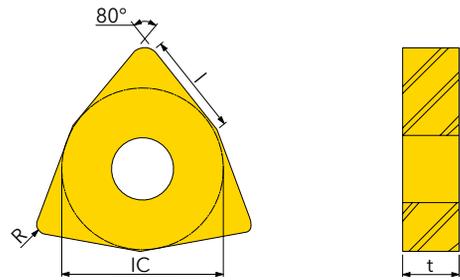
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR ROUGHING OF CAST IRON
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR ÉBAUCHE DES FONTES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT7025 |
|--|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|--------|
| WNMG 080408 KT | 0,35 (0,17/0,47) | 4,0 (0,3/5,5) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| WNMG 080412 KT | 0,45 (0,23/0,63) | 4,0 (0,4/5,5) | 8,3 | 4,76 | 1,2 | 12,7 | | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

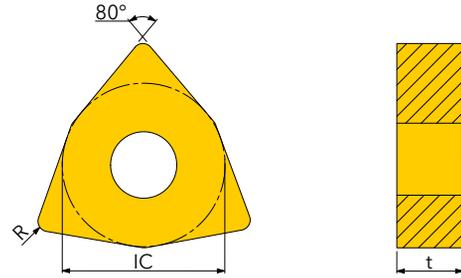
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM MACHINING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B | TT5100 |
|--|------------------|---------------|-----|------|-----|------|-----------------|---------|---------|---------|--------|
| WNMG 080408 MC | 0,30 (0,12/0,35) | 1,5 (0,7/3,5) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

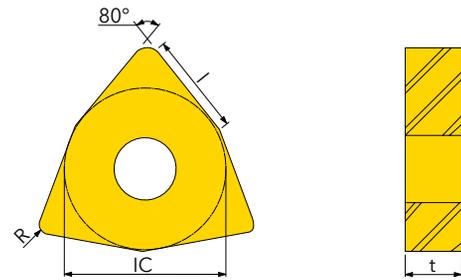
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|------|-----------------|---------|---------|---------|
| WNMG 080408 MGP | 0,30 (0,15/0,55) | 2,0 (0,5/4,0) | 4,76 | 0,8 | 12,7 | | ● | ● | ● |
| WNMG 080412 MGP | 0,30 (0,17/0,55) | 2,0 (0,6/4,0) | 4,76 | 1,2 | 12,7 | | | ● | ● |
| WNMG 080416 MGP | 0,25 (0,17/0,55) | 2,0 (0,6/4,0) | 4,76 | 1,6 | 12,7 | | | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

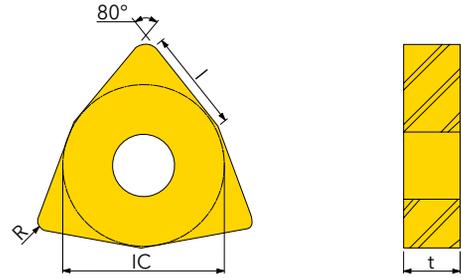
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR LA SEMI-FINITION DE MATÉRIAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT3005 | TT3010 | TT3020 | K10 |
|--|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|--------|-----|
| WNMG 080408 MGS | 0,20 (0,15/0,40) | 2,0 (1,0/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| WNMG 080412 MGS | 0,20 (0,17/0,40) | 2,0 (1,3/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

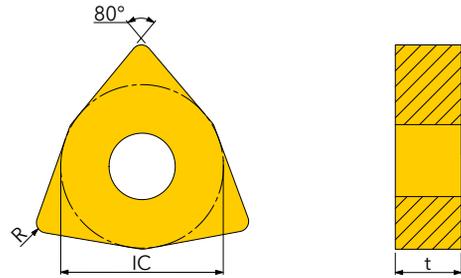
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM LIGHT MACHINING / VERY SHARP
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR SEMI-FINITION LÉGÈRE / ARÊTE VIVE



| Designation | f (min/max) | ap (min/max) | l | t | R | IC | Grade | Nuance | TT9215 | TT5080 | TT9225 | TT8080 | TT8020 | K10 |
|--|------------------|---------------|-----|------|-----|------|-------|--------|--------|--------|--------|--------|--------|-----|
| WNMG 080408 ML | 0,25 (0,12/0,35) | 1,5 (1,0/3,5) | 8,3 | 4,76 | 0,8 | 12,7 | | | ● | ● | ● | ● | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

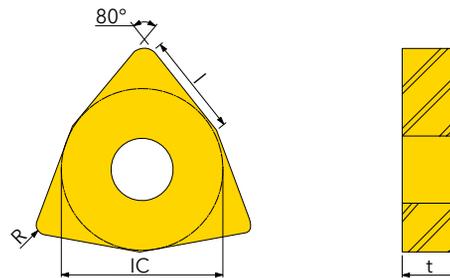
NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE ÉBAUCHE



| Designation | f (min/max) | ap (min/max) | t | R | IC | Grade | Nuance | TT8115B | TT8125B |
|--|------------------|---------------|------|-----|------|-------|--------|---------|---------|
| WNMG 080408 MLP | 0,25 (0,10/0,40) | 2,0 (0,5/3,5) | 4,76 | 0,8 | 12,7 | | | ● | ● |
| WNMG 080412 MLP | 0,25 (0,15/0,50) | 2,0 (0,6/3,5) | 4,76 | 1,2 | 12,7 | | | ● | ● |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

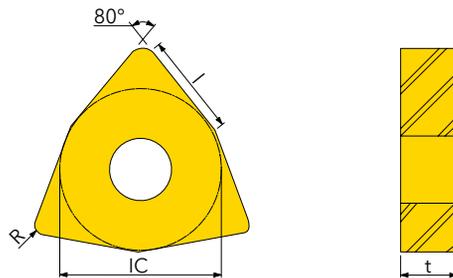
CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM MACHINING / POSITIVE RAKE ANGLE
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE / ARÊTE POSITIVE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT9215 | TT5080 | TT5100 | TT9225 | TT9235 | TT8020 |
|--|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|--------|--------|--------|--------|
| WNMG 060408 MP | 0,30 (0,12/0,35) | 1,5 (1,0/3,0) | 6,1 | 4,76 | 0,8 | 9,52 | | | | | | | |
| WNMG 080408 MP | 0,30 (0,12/0,40) | 2,0 (1,0/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | | | | | | |
| WNMG 080412 MP | 0,36 (0,15/0,40) | 2,0 (1,3/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | | | | | | |
| for tool holders TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | | | |
| Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING / TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR SEMI-FINITION / ARÊTE RENFORCÉE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC |
|----------------------------------|------------------|---------------|-----|------|-----|------|
| WNMG 060404 MT | 0,30 (0,12/0,40) | 2,0 (1,0/3,0) | 6,2 | 4,76 | 0,4 | 9,52 |
| WNMG 060408 MT | 0,35 (0,15/0,45) | 2,0 (1,2/3,0) | 6,1 | 4,76 | 0,8 | 9,52 |
| WNMG 060412 MT | 0,42 (0,23/0,50) | 2,0 (1,5/3,0) | 6,0 | 4,76 | 1,2 | 9,52 |
| WNMG 080404 MT | 0,25 (0,12/0,40) | 3,0 (1,0/4,0) | 8,4 | 4,76 | 0,4 | 12,7 |
| WNMG 080408 MT | 0,35 (0,17/0,55) | 3,0 (1,2/4,0) | 8,3 | 4,76 | 0,8 | 12,7 |
| WNMG 080412 MT | 0,42 (0,25/0,55) | 3,0 (1,5/4,0) | 8,2 | 4,76 | 1,2 | 12,7 |

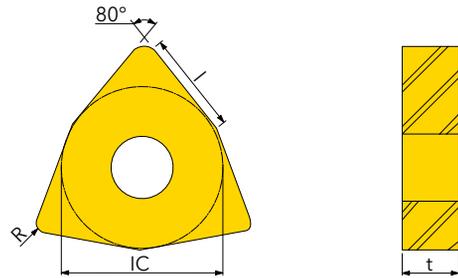
for tool holders TWLNR/L; PWNLR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWNLR/L & MWLNR/L

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7025 | TT8105B | TT8115B | TT5080 | TT8125B | TT9225 | TT9235 | TT8020 | | | | |
|----------------------------------|-----------------|--------|--------|---------|---------|--------|---------|--------|--------|--------|---|--|--|--|
| WNMG 060404 MT | | ● | | | ● | ● | ● | ● | | | | | | |
| WNMG 060408 MT | | ● | | ● | ● | ● | ● | ● | ● | ● | | | | |
| WNMG 060412 MT | | ● | | | ● | | ● | | | | | | | |
| WNMG 080404 MT | | ● | | | ● | ● | ● | ● | | ● | | | | |
| WNMG 080408 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| WNMG 080412 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



NEGATIVE 80° TRIGON INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR MOYENNE-ÉBAUCHE

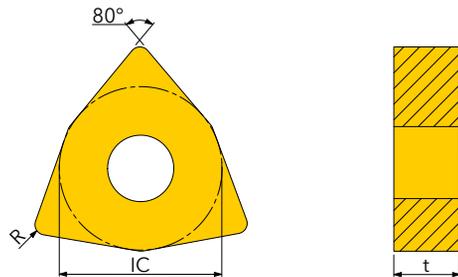


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT8115B | TT9215 | TT8125B | TT9225 |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|---------|--------|---------|--------|
| WNMG 060408 PC | 0,30 (0,15/0,50) | 2,5 (0,5/4,0) | 6,1 | 4,76 | 0,8 | 9,52 | | ● | | ● | ● |
| WNMG 080408 PC | 0,30 (0,15/0,50) | 2,5 (0,5/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| WNMG 080412 PC | 0,35 (0,17/0,50) | 2,5 (0,6/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° TRIGON, FOR ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR ÉBAUCHE

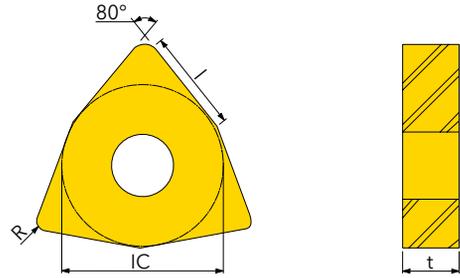


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT8105B | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|---------|---------|---------|
| WNMG 080408 RGP | 0,40 (0,25/0,70) | 3,0 (2,5/4,0) | 4,76 | 0,8 | 12,7 | | | ● | ● |
| WNMG 080412 RGP | 0,40 (0,25/0,70) | 3,0 (2,5/4,0) | 4,76 | 1,2 | 12,7 | | | ● | ● |
| WNMG 080416 RGP | 0,40 (0,30/0,75) | 3,0 (2,5/4,0) | 4,76 | 1,6 | 12,7 | | ● | ● | ● |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 80° TRIGON INSERTS, FOR ROUGHING / WIDE, TOUGH RAKE ANGLE
PLAQUETTES NÉGATIVES TRIGONES 80°, POUR ÉBAUCHE / ARÊTE RENFORCÉE

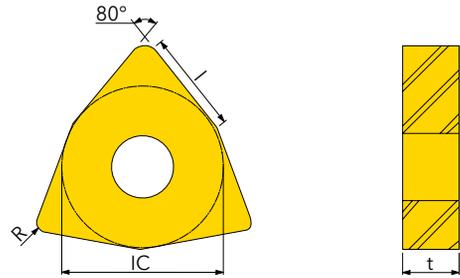


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7015 | TT7025 | TT8115B | TT9215 | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|---------|--------|---------|--------|
| WNMG 080408 RT | 0,45 (0,25/0,70) | 4,0 (2,5/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | | ● | ● | ● | ● |
| WNMG 080412 RT | 0,56 (0,25/0,70) | 4,0 (2,5/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | | ● | ● |
| WNMG 080416 RT | 0,60 (0,30/0,75) | 4,0 (2,5/4,0) | 8,1 | 4,76 | 1,6 | 12,7 | | | | ● | | ● | |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, NEGATIVE 80° TRIGON WIPER INSERTS, FOR MEDIUM ROUGHING
PLAQUETTES NÉGATIVES TRIGONES 80° - WIPER, POUR MOYENNE-ÉBAUCHE

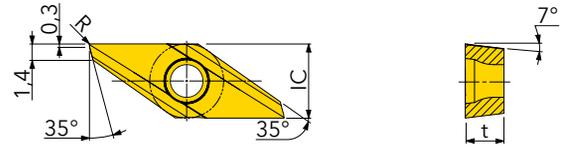
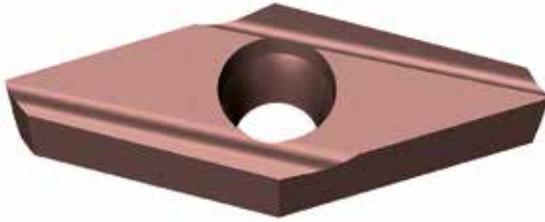


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT7005 | TT7015 | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|-----|------|-----|------|-----------------|--------|--------|---------|---------|
| WNMG 060408 WT | 0,45 (0,15/0,60) | 1,5 (0,7/3,5) | 6,1 | 4,76 | 0,8 | 9,52 | | ● | | ● | ● |
| WNMG 080408 WT | 0,45 (0,15/0,60) | 2,0 (1,0/4,0) | 8,3 | 4,76 | 0,8 | 12,7 | | ● | ● | ● | ● |
| WNMG 080412 WT | 0,50 (0,20/0,80) | 2,0 (1,0/4,0) | 8,2 | 4,76 | 1,2 | 12,7 | | ● | ● | ● | ● |

for tool holders TWLNR/L; PWLNR/L & MWLNR/L
Pour les porte-outils TWLNR/L; PWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

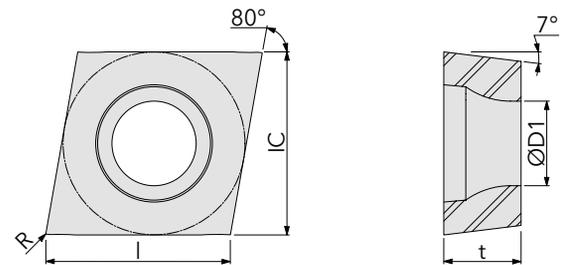
POSITIVE 35° INSERT WITH 7° CLEARANCE, FOR BACK TURNING
PLAQUETTES POSITIVES À 35° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE EN TIRANT



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4430 |
|----------------------------------|------------------|----------------|------|-----|------|-----------------|--------|
| BTVC 110300R-F | 0,07 (0,01/0,12) | 1,0 (0,3/3,5) | 3,18 | 0 | 6,35 | | |
| BTVC 110301MR-F | 0,07 (0,01/0,15) | 1,0 (0,05/3,0) | 3,18 | 0,1 | 6,35 | | |
| BTVC 110302MR-F | 0,07 (0,01/0,15) | 1,0 (0,1/3,5) | 3,18 | 0,2 | 6,35 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR FINITION

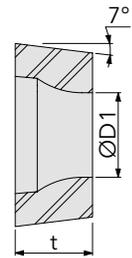
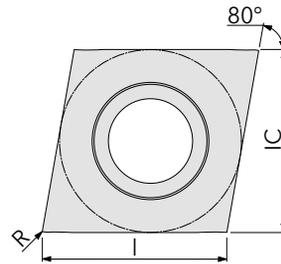


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|-----|------|-----|-----|------|-----------------|--------|
| CCET 060201 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/1,5) | 6,3 | 2,38 | 0,1 | 2,8 | 6,35 | | |
| CCET 060202 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/1,5) | 6,2 | 2,38 | 0,2 | 2,8 | 6,35 | | |
| CCET 060204 R-GF | 0,10 (0,05/0,20) | 0,8 (0,3/1,5) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | |
| CCET 09T301 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/2,5) | 9,5 | 3,97 | 0,1 | 4,4 | 9,52 | | |
| CCET 09T302 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/2,5) | 9,4 | 3,97 | 0,2 | 4,4 | 9,52 | | |
| CCET 09T304 R-GF | 0,10 (0,05/0,20) | 0,8 (0,3/2,5) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | |

for tool holders SCLCR/L & SCACR
Pour les porte-outils SCLCR/L & SCACR-SH

● = P ● = M ● = K ● = N ● = S ○ = H

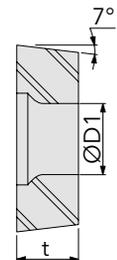
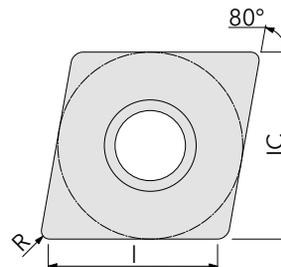
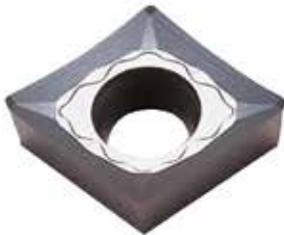
CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS WITH WIPER GEOMETRY, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7° - WIPER, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|--|------------------|---------------|-----|------|------|-----|------|-----------------|--------|
| CCET 09T3003 R-GW | 0,08 (0,02/0,15) | 0,3 (0,1/2,5) | 9,6 | 3,97 | 0,03 | 4,4 | 9,52 | | |
| for tool holders SCLCR/L & SCACR | | | | | | | | | |
| Pour les porte-outils SCLCR/L & SCACR-SH | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

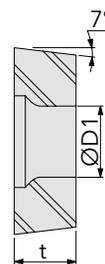
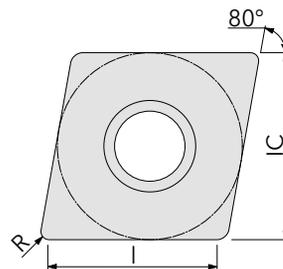
CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | K10 |
|--|------|------|-----|-----|------|-----------------|-----|
| CCGT 060202 FL | 6,2 | 2,38 | 0,2 | 2,8 | 6,35 | | |
| CCGT 060204 FL | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | |
| CCGT 09T302 FL | 9,4 | 3,97 | 0,2 | 4,4 | 9,52 | | |
| CCGT 09T304 FL | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | |
| CCGT 09T308 FL | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | |
| CCGT 120402 FL | 12,6 | 4,76 | 0,2 | 5,5 | 12,7 | | |
| CCGT 120404 FL | 12,4 | 4,76 | 0,4 | 5,5 | 12,7 | | |
| CCGT 120408 FL | 12,0 | 4,76 | 0,8 | 5,5 | 12,7 | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

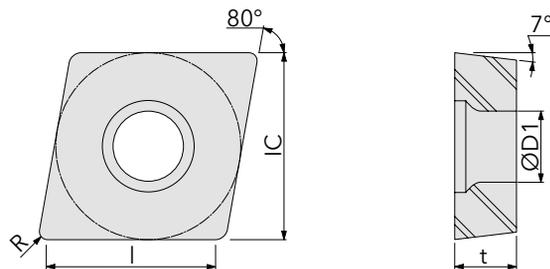
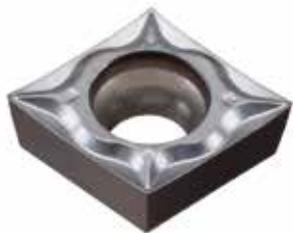
POSITIVE 80° INSERT - 7° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUE 80°- DÉPOUILLE 7°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 |
|---|------------------|------------------|-----|-----|------|------|-----------------|--------|
| CCGT 0301003 L-FF | 0,07 (0,03/0,10) | 0,17 (0,05/0,30) | 3,5 | 1,4 | 0,03 | 3,97 | | |
| CCGT 030101 L-FF | 0,07 (0,03/0,12) | 0,24 (0,08/0,40) | 3,4 | 1,4 | 0,1 | 3,97 | | |
| CCGT 030101 R-FF | 0,07 (0,03/0,12) | 0,24 (0,08/0,40) | 3,4 | 1,4 | 0,1 | 3,97 | | |
| CCGT 030102 L-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 3,3 | 1,4 | 0,2 | 3,97 | | |
| CCGT 030102 R-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 3,3 | 1,4 | 0,2 | 3,97 | | |
| CCGT 030104 L-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 3,1 | 1,4 | 0,4 | 3,97 | | |
| CCGT 030104 R-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 3,1 | 1,4 | 0,4 | 3,97 | | |
| CCGT 0401003 L-FF | 0,07 (0,03/0,10) | 0,22 (0,05/0,40) | 4,3 | 1,8 | 0,03 | 4,76 | | |
| CCGT 040101 L-FF | 0,07 (0,03/0,12) | 0,30 (0,10/0,50) | 4,2 | 1,8 | 0,1 | 4,76 | | |
| CCGT 040102 L-FF | 0,10 (0,03/0,15) | 0,30 (0,10/0,50) | 4,1 | 1,8 | 0,2 | 4,76 | | |
| CCGT 040102 R-FF | 0,10 (0,03/0,15) | 0,30 (0,10/0,50) | 4,1 | 1,8 | 0,2 | 4,76 | | |
| CCGT 040104 L-FF | 0,12 (0,05/0,20) | 0,30 (0,10/0,40) | 3,9 | 1,8 | 0,4 | 4,76 | | |
| CCGT 040104 R-FF | 0,12 (0,05/0,20) | 0,30 (0,10/0,50) | 3,9 | 1,8 | 0,4 | 4,76 | | |
| for tool holders C-SCLCR/L & S-SCLCR/L | | | | | | | | |
| Pour les porte-outils C-SCLCR/L & S-SCLCR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

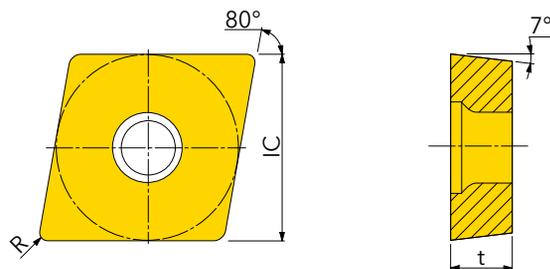
POSITIVE 80° INSERT - 7° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUE 80°- DÉPOUILLE 7°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | |
|--|------------------|---------------|-----|------|-----|-----|------|-----------------|--------|
| | | | | | | | | TT5080 | TT9020 |
| CCGT 060201 SA | 0,08 (0,02/0,15) | 0,8 (0,1/1,5) | 6,3 | 2,38 | 0,1 | 2,8 | 6,35 | | |
| CCGT 060202 SA | 0,08 (0,02/0,15) | 0,8 (0,1/1,5) | 6,2 | 2,38 | 0,2 | 2,8 | 6,35 | | |
| CCGT 060204 SA | 0,12 (0,05/0,20) | 1,2 (0,1/2,4) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | |
| CCGT 09T301 SA | 0,08 (0,02/0,15) | 1,3 (0,1/2,5) | 9,5 | 3,97 | 0,1 | 4,4 | 9,52 | | |
| CCGT 09T302 SA | 0,08 (0,02/0,15) | 1,3 (0,1/2,5) | 9,4 | 3,97 | 0,2 | 4,4 | 9,52 | | |
| CCGT 09T304 SA | 0,12 (0,05/0,20) | 1,3 (0,2/2,5) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

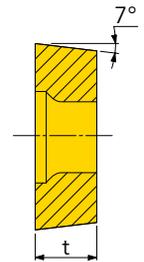
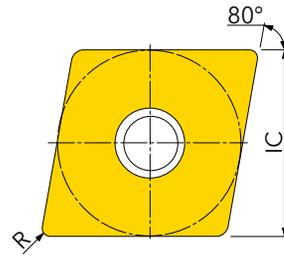
POSITIVE 80° INSERT WITH 7° CLEARANCE, FOR FINISHING
PLAQUETTES POSITIVES À 80° AVEC UNE DÉPOUILLE DE 7°, POUR LA FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | |
|--|------------------|------------------|------|-----|------|-----------------|--------|
| | | | | | | TT4410 | TT4430 |
| CCGT 060202M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 2,38 | 0,2 | 6,35 | | |
| CCGT 09T301M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,97 | 0,1 | 9,52 | | |
| CCGT 09T302M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,97 | 0,2 | 9,52 | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

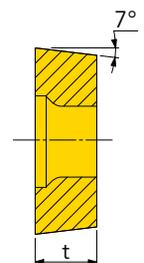
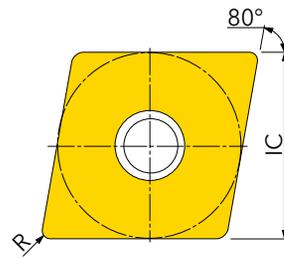
POSITIVE 80° INSERT WITH 7° CLEARANCE, FOR GENERAL MACHINING
PLAQUETTES POSITIVES À 80° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE UNIVERSEL



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|
| CCGT 060202M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 2,38 | 0,2 | 6,35 | | | |
| CCGT 09T301M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,1 | 9,52 | | | |
| CCGT 09T302M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,2 | 9,52 | | | |
| CCGT 09T304M SM-F | 0,07 (0,03/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,4 | 9,52 | | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

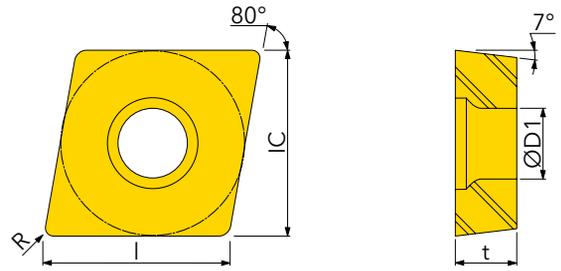
POSITIVE 80° INSERT WITH 7° CLEARANCE, FOR GENERAL MACHINING AND ROUGHING
PLAQUETTES POSITIVES À 80° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE GÉNÉRAL ET L'ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|
| CCGT 09T304M SH-F | 0,10 (0,07/0,17) | 2,0 (0,7/3,5) | 3,97 | 0,4 | 9,52 | | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

**CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR SUPER-FINITION**

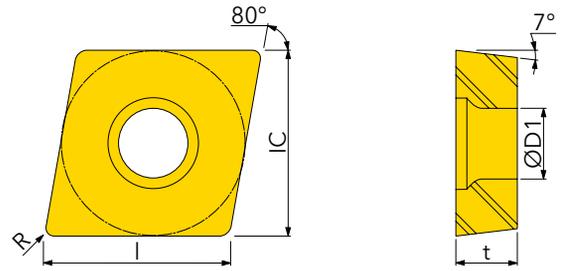


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | PV3010 | CT3000 | TT5080 | TT8125B | TT5100 |
|--|------------------|---------------|-----|------|-----|-----|------|-----------------|--------|--------|--------|---------|--------|
| CCMT 060202 FA | 0,07 (0,05/0,15) | 0,3 (0,1/1,5) | 6,2 | 2,38 | 0,2 | 2,8 | 6,35 | | | | | | |
| CCMT 060204 FA | 0,07 (0,05/0,15) | 0,4 (0,1/1,5) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | | | | | |
| CCMT 09T302 FA | 0,07 (0,05/0,15) | 0,3 (0,1/2,0) | 9,4 | 3,97 | 0,2 | 4,4 | 9,52 | | | | | | |
| CCMT 09T304 FA | 0,10 (0,05/0,20) | 0,4 (0,1/2,0) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | | | | |
| CCMT 09T308 FA | 0,15 (0,10/0,25) | 0,5 (0,2/2,0) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | | | | |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



**CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR FINITION**



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|----------------------------------|-------------|--------------|---|---|---|-----|----|
|----------------------------------|-------------|--------------|---|---|---|-----|----|

| | | | | | | | |
|----------------|------------------|---------------|------|------|-----|-----|------|
| CCMT 060204 FG | 0,07 (0,05/0,15) | 0,5 (0,3/1,5) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 |
| CCMT 09T304 FG | 0,11 (0,07/0,20) | 0,7 (0,4/2,0) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 |
| CCMT 09T308 FG | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 |
| CCMT 120408 FG | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 12,0 | 4,76 | 0,8 | 5,5 | 12,7 |

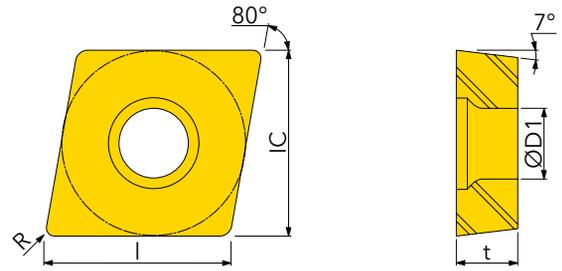
for tool holders BCLCR/L; SCLCR/L & SCACR/L

Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L

| Designation Réf. de l'article | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT9080 | TT9235 | TT8080 | TT8020 | | |
|----------------------------------|-----------------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--|--|
| CCMT 060204 FG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 09T304 FG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 09T308 FG | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 120408 FG | | | | | ● | ● | ● | | | | ● | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION.

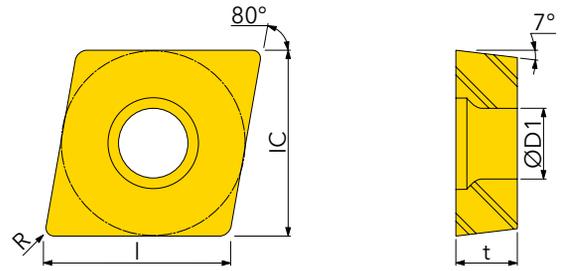


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT8020 |
|--|------------------|---------------|-----|------|-----|-----|------|-----------------|---------|--------|---------|--------|--------|
| CCMT 060202 FM | 0,10 (0,07/0,15) | 1,0 (0,5/1,5) | 6,2 | 2,38 | 0,2 | 2,8 | 6,35 | | ● | ● | ● | ● | ● |
| CCMT 060204 FM | 0,12 (0,08/0,15) | 1,0 (0,5/1,5) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | ● | ● | ● |
| CCMT 09T302 FM | 0,12 (0,07/0,20) | 1,4 (0,5/2,0) | 9,4 | 3,97 | 0,2 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| CCMT 09T304 FM | 0,16 (0,08/0,25) | 1,6 (0,5/2,5) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| CCMT 09T308 FM | 0,18 (0,10/0,25) | 1,8 (0,8/2,5) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | ● | ● | ● | ● |
| for tool holders BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | | | | | |
| Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR MOYENNE-ÉBAUCHE



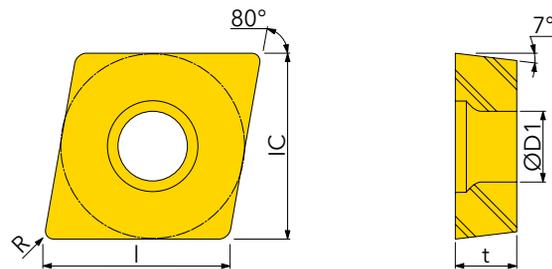
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|
| CCMT 060204 MT | 0,11 (0,07/0,20) | 0,7 (0,5/2,0) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 |
| CCMT 060208 MT | 0,18 (0,13/0,30) | 1,0 (0,7/2,0) | 5,6 | 2,38 | 0,8 | 2,8 | 6,35 |
| CCMT 09T304 MT | 0,15 (0,10/0,25) | 1,5 (0,7/3,5) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 |
| CCMT 09T308 MT | 0,18 (0,13/0,30) | 1,5 (1,0/3,5) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 |
| CCMT 120404 MT | 0,15 (0,10/0,25) | 2,0 (1,0/5,0) | 12,4 | 4,76 | 0,4 | 5,5 | 12,7 |
| CCMT 120408 MT | 0,18 (0,13/0,30) | 2,0 (1,3/5,0) | 12,0 | 4,76 | 0,8 | 5,5 | 12,7 |
| CCMT 120412 MT | 0,23 (0,17/0,35) | 2,0 (1,5/5,0) | 11,6 | 4,76 | 1,2 | 5,5 | 12,7 |

for tool holders BCLCR/L; SCLCR/L & SCACR/L
Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L

| Designation Réf. de l'article | Grade Nuance | CT3000 | TT7005 | TT7015 | TT7025 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT9235 | TT8020 | | |
|----------------------------------|-----------------|--------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--|--|
| CCMT 060204 MT | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 060208 MT | | ● | ● | ● | | ● | ● | ● | ● | ● | | | | |
| CCMT 09T304 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 09T308 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 120404 MT | | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | | |
| CCMT 120408 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | |
| CCMT 120412 MT | | | ● | | | ● | | ● | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 80° INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS

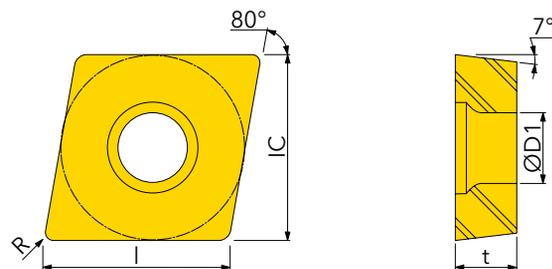


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8115B | TT8125B | TT9225 | TT9080 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|---------|---------|--------|--------|
| CCMT 060204 PC | 0,12 (0,06/0,18) | 1,1 (0,3/2,0) | 6,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | ● | ● |
| CCMT 060208 PC | 0,16 (0,08/0,25) | 1,1 (0,4/2,0) | 5,6 | 2,38 | 0,8 | 2,8 | 6,35 | | ● | ● | ● | ● |
| CCMT 09T304 PC | 0,16 (0,08/0,25) | 1,6 (0,4/3,0) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● |
| CCMT 09T308 PC | 0,19 (0,10/0,28) | 1,8 (0,5/3,0) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● |
| CCMT 120404 PC | 0,16 (0,08/0,25) | 2,2 (0,4/4,0) | 12,4 | 4,76 | 0,4 | 5,5 | 12,7 | | ● | ● | ● | ● |
| CCMT 120408 PC | 0,20 (0,10/0,30) | 2,3 (0,7/4,0) | 12,0 | 4,76 | 0,8 | 5,5 | 12,7 | | ● | ● | ● | ● |
| CCMT 120412 PC | 0,22 (0,12/0,35) | 2,5 (1,0/4,0) | 11,6 | 4,76 | 1,2 | 5,5 | 12,7 | | | | ● | ● |

for tool holders BCLCR/L; SCLCR/L & SCACR/L
Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 80° RHOMBIC WIPER INSERT, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 7° - WIPER, POUR SEMI-FINITION

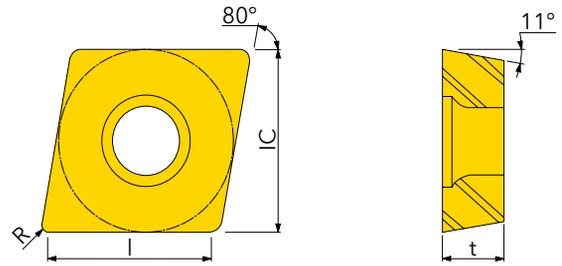


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT7005 | TT8115B | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|-----|------|-----|-----|------|-----------------|--------|---------|---------|--------|
| CCMT 09T308 WT | 0,30 (0,10/0,40) | 1,5 (0,7/3,0) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● |

for tool holders BCLCR/L; SCLCR/L & SCACR/L
Pour les porte-outils BCLCR/L; SCLCR/L & SCACR/L

● = P ● = M ● = K ● = N ● = S ○ = H

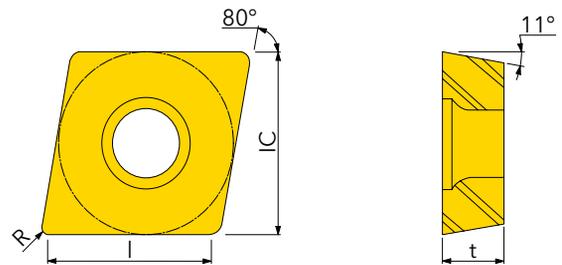
POSITIVE 11° CLEARANCE 80° RHOMBIC INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 11°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT5100 |
|---|------------------|---------------|-----|------|-----|-----|------|-----------------|--------|--------|
| CPMT 080204 FM | 0,14 (0,08/0,20) | 1,4 (0,5/2,0) | 7,6 | 2,38 | 0,4 | 3,4 | 7,94 | | | |
| CPMT 080208 FM | 0,15 (0,10/0,20) | 1,6 (0,8/2,0) | 7,2 | 2,38 | 0,8 | 3,4 | 7,94 | | | |
| CPMT 090304 FM | 0,16 (0,08/0,25) | 1,6 (0,5/2,5) | 9,2 | 3,18 | 0,4 | 4,4 | 9,52 | | | |
| CPMT 090308 FM | 0,18 (0,10/0,25) | 1,8 (0,8/2,5) | 8,8 | 3,18 | 0,8 | 4,4 | 9,52 | | | |
| for tool holders A_-SCLPR/L; S_-SCLPR/L & E_-SCLPR/L | | | | | | | | | | |
| Pour les porte-outils A_-SCLPR/L; S_-SCLPR/L & E_-SCLPR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

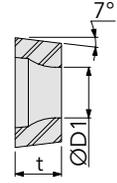
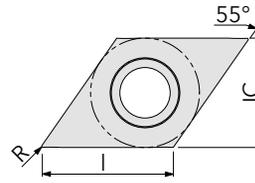
POSITIVE 80° INSERT - 11° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RHOMBIQUES 80° - DÉPOUILLE 11°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT9225 |
|----------------------------------|-------------------|---------------|-----|------|-----|-----|------|-----------------|--------|--------|
| CPMT 060204 PC | 0,12 (0,006/0,18) | 1,1 (0,3/2,0) | 6,0 | 2,38 | 0,4 | 4,4 | 6,35 | | | |
| CPMT 060208 PC | 0,16 (0,08/0,25) | 1,2 (0,4/2,0) | 5,6 | 2,38 | 0,8 | 4,4 | 6,35 | | | |
| CPMT 090304 PC | 0,16 (0,08/0,25) | 1,7 (0,5/3,0) | 9,2 | 3,18 | 0,4 | 4,4 | 9,52 | | | |
| CPMT 090308 PC | 0,20 (0,10/0,30) | 1,8 (0,6/3,0) | 8,8 | 3,18 | 0,8 | 4,4 | 9,52 | | | |
| CPMT 09T304 PC | 0,16 (0,08/0,25) | 1,7 (0,5/3,0) | 9,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | |
| CPMT 09T308 PC | 0,20 (0,10/0,30) | 1,8 (0,6/3,0) | 8,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | |
| for tool holders SCLPR | | | | | | | | | | |
| Pour les porte-outils SCLPR | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERTS, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR LES PETITES PIÈCES

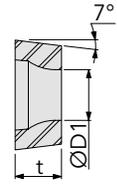
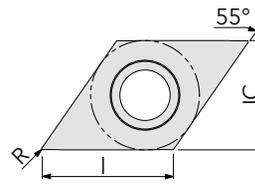
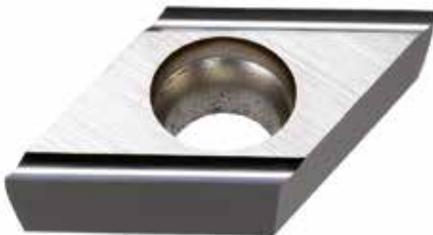


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|
| DCET 070201 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/1,5) | 7,6 | 2,38 | 0,1 | 2,8 | 6,35 | ●● | |
| DCET 070202 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/1,5) | 7,5 | 2,38 | 0,2 | 2,8 | 6,35 | ●● | |
| DCET 070204 R-GF | 0,10 (0,05/0,20) | 0,8 (0,3/1,5) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | ●● | |
| DCET 11T301 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/2,5) | 11,4 | 3,97 | 0,1 | 4,4 | 9,52 | ●● | |
| DCET 11T302 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/2,5) | 11,3 | 3,97 | 0,2 | 4,4 | 9,52 | ●● | |
| DCET 11T304 L-GF | 0,10 (0,05/0,20) | 0,8 (0,3/2,5) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | ●● | |
| DCET 11T304 R-GF | 0,10 (0,05/0,20) | 0,8 (0,3/2,5) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | ●● | |

for tool holders BDJC_ ; BDUC_ ; SDJC_ ; SDNC_ ; SDUC_
Pour les porte-outils BDJC_ ; BDUC_ ; SDJC_ ; SDNC_ ; SDUC_

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERT WITH WIPER GEOMETRY, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7° - WIPER, POUR LES PETITES PIÈCES

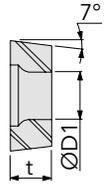
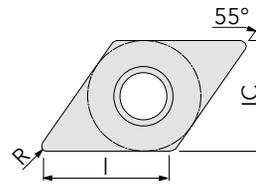


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|------|------|------|-----|------|-----------------|--------|
| DCET 0702003 L-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 7,5 | 2,38 | 0,03 | 2,8 | 6,35 | ●● | |
| DCET 0702003 R-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 7,5 | 2,38 | 0,03 | 2,8 | 6,35 | ●● | |
| DCET 11T3003 L-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 11,4 | 3,97 | 0,03 | 4,4 | 9,52 | ●● | |
| DCET 11T3003 R-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 11,4 | 3,97 | 0,03 | 4,4 | 9,52 | ●● | |

for tool holders BDJC_ ; BDUC_ ; SDJC_ ; SDNC_ ; SDUC_
Pour les porte-outils BDJC_ ; BDUC_ ; SDJC_ ; SDNC_ ; SDUC_

● = P ● = M ● = K ● = N ● = S ○ = H

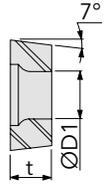
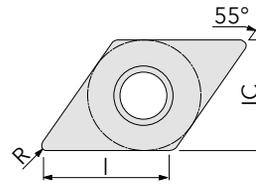
CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | K10 |
|--|------|------|-----|-----|------|-----------------|-----|
| DCGT 070202 FL | 7,5 | 2,38 | 0,2 | 2,8 | 6,35 | | ● |
| DCGT 070204 FL | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | | ● |
| DCGT 11T302 FL | 11,4 | 3,97 | 0,2 | 4,4 | 9,52 | | ● |
| DCGT 11T304 FL | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | ● |
| DCGT 11T308 FL | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 | | ● |
| for tool holders BDJ_ ; BDU_ ; SDJ_ ; SDN_ ; SDU_ | | | | | | | |
| Pour les porte-outils BDJ_ ; BDU_ ; SDJ_ ; SDN_ ; SDU_ | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

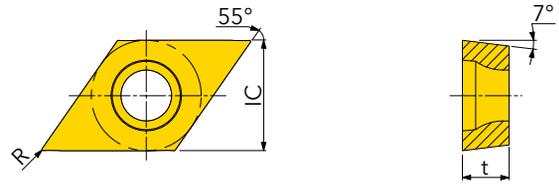
POSITIVE 55° INSERT - 7° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUE 55° - DÉPOUILLE 7°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT9020 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|
| DCGT 070201 SA | 0,08 (0,02/0,15) | 0,8 (0,2/1,5) | 7,6 | 2,38 | 0,1 | 2,8 | 6,35 | | ●● | ●● |
| DCGT 070202 SA | 0,08 (0,02/0,15) | 0,8 (0,1/1,5) | 7,5 | 2,38 | 0,2 | 2,8 | 6,35 | | ●● | ●● |
| DCGT 070204 SA | 0,11 (0,03/0,20) | 0,8 (0,1/1,5) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | | ●● | ●● |
| DCGT 11T301 SA | 0,03 (0,01/0,05) | 1,3 (0,1/2,5) | 11,5 | 3,97 | 0,1 | 4,4 | 9,52 | | ●● | ●● |
| DCGT 11T302 SA | 0,09 (0,02/0,15) | 1,3 (0,1/2,5) | 11,4 | 3,97 | 0,2 | 4,4 | 9,52 | | ●● | ●● |
| DCGT 11T304 SA | 0,11 (0,03/0,20) | 1,3 (0,1/2,5) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | ●● | ●● |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

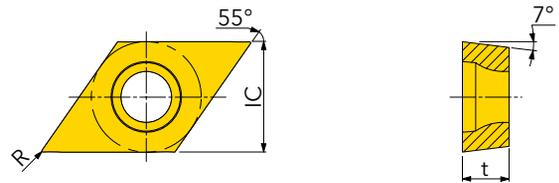
POSITIVE 55° INSERT WITH 7° CLEARANCE, FOR FINISHING
PLAQUETTES POSITIVES À 55° AVEC UNE DÉPOUILLE DE 7°, POUR LA FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|---|------------------|------------------|------|-----|------|-----------------|--------|--------|
| DCGT 070201M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 2,38 | 0,1 | 6,35 | | | |
| DCGT 070202M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 2,38 | 0,2 | 6,35 | | | |
| DCGT 11T301M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,97 | 0,1 | 9,52 | | | |
| DCGT 11T302M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,97 | 0,2 | 9,52 | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

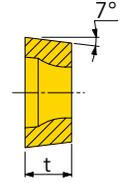
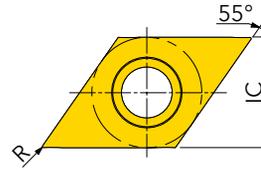
POSITIVE 55° INSERT WITH 7° CLEARANCE, FOR GENERAL MACHINING
PLAQUETTES POSITIVES À 55° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE GÉNÉRAL



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|---|------------------|---------------|------|-----|------|-----------------|--------|--------|
| DCGT 070201M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 2,38 | 0,1 | 6,35 | | | |
| DCGT 070202M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 2,38 | 0,2 | 6,35 | | | |
| DCGT 070204M SM-F | 0,07 (0,03/0,12) | 0,5 (0,2/1,5) | 2,38 | 0,4 | 6,35 | | | |
| DCGT 11T301M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,1 | 9,52 | | | |
| DCGT 11T302M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,2 | 9,52 | | | |
| DCGT 11T304M SM-F | 0,07 (0,03/0,12) | 0,5 (0,2/1,5) | 3,97 | 0,4 | 9,52 | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

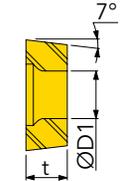
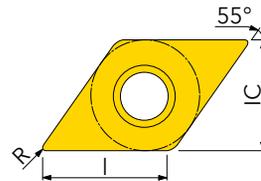
POSITIVE 55° INSERT WITH 7° CLEARANCE, FOR GENERAL MACHINING AND ROUGHING
PLAQUETTES POSITIVES À 55° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE GÉNÉRAL ET L'ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|---|------------------|---------------|------|-----|------|-----------------|--------|--------|
| DCGT 11T302M SH-E | 0,10 (0,05/0,15) | 2,0 (0,7/3,5) | 3,97 | 0,2 | 9,52 | | | |
| DCGT 11T302M SH-F | 0,10 (0,05/0,15) | 2,0 (0,7/3,5) | 3,97 | 0,2 | 9,52 | | | |
| DCGT 11T304M SH-F | 0,10 (0,07/0,17) | 2,0 (0,7/3,5) | 3,97 | 0,4 | 9,52 | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

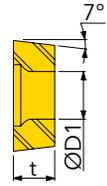
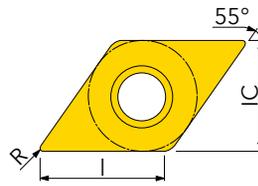
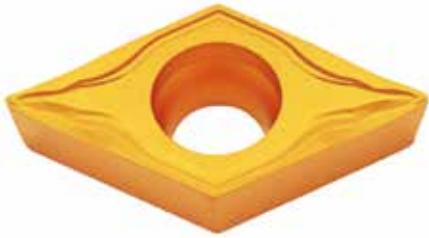
CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT9215 | TT5080 | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|---------|--------|--------|---------|--------|
| DCMT 070202 FA | 0,07 (0,05/0,15) | 0,3 (0,1/1,5) | 7,5 | 2,38 | 0,2 | 2,8 | 6,35 | | | | | | | | |
| DCMT 070204 FA | 0,10 (0,05/0,20) | 0,6 (0,2/1,5) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | | | | | | | | |
| DCMT 11T302 FA | 0,07 (0,05/0,15) | 0,4 (0,1/1,5) | 11,3 | 3,97 | 0,2 | 4,4 | 9,52 | | | | | | | | |
| DCMT 11T304 FA | 0,10 (0,05/0,20) | 0,6 (0,2/1,5) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | | | | | | |
| DCMT 11T308 FA | 0,14 (0,08/0,25) | 1,0 (0,2/1,5) | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | | | | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR FINITION



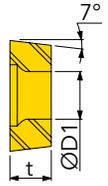
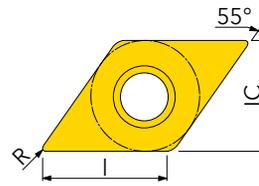
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|---|------------------|---------------|------|------|-----|-----|------|
| DCMT 070204 FG | 0,11 (0,07/0,20) | 0,7 (0,4/1,5) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 |
| DCMT 070208 FG | 0,11 (0,07/0,20) | 0,7 (0,4/2,0) | 7,0 | 2,38 | 0,8 | 2,8 | 6,35 |
| DCMT 11T304 FG | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 |
| DCMT 11T308 FG | 0,15 (0,10/0,25) | 1,0 (0,6/1,5) | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | |



| Designation Réf. de l'article | Grade Nuance | PV3010 | CT3000 | TT8105B | TT8115B | TT9215 | TT8125B | TT5100 | TT9225 | TT9235 | TT8080 | TT8020 | | |
|----------------------------------|-----------------|--------|--------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--|--|
| DCMT 070204 FG | | | | | | | | | | | | | | |
| DCMT 070208 FG | | | | | | | | | | | | | | |
| DCMT 11T304 FG | | | | | | | | | | | | | | |
| DCMT 11T308 FG | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

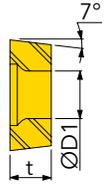
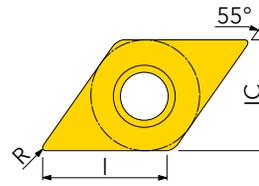
POSITIVE 7° CLEARANCE 55° RHOMBIC INSERT, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT8020 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|---------|--------|---------|--------|--------|
| DCMT 070202 FM | 0,12 (0,07/0,20) | 1,0 (0,5/1,5) | 7,5 | 2,38 | 0,2 | 2,8 | 6,35 | | | | | | |
| DCMT 070204 FM | 0,14 (0,08/0,20) | 1,0 (0,5/1,5) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | | | | | | |
| DCMT 070208 FM | 0,15 (0,10/0,20) | 1,2 (0,8/1,5) | 7,0 | 2,38 | 0,8 | 2,8 | 6,35 | | | | | | |
| DCMT 11T302 FM | 0,12 (0,07/0,20) | 1,4 (0,5/2,0) | 11,3 | 3,97 | 0,2 | 4,4 | 9,52 | | | | | | |
| DCMT 11T304 FM | 0,14 (0,08/0,20) | 1,4 (0,5/2,0) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | | | | |
| DCMT 11T308 FM | 0,18 (0,10/0,25) | 1,8 (0,8/2,5) | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

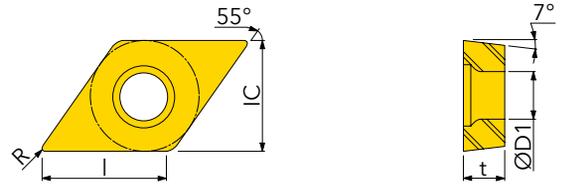
CHIPBREAKER, POSITIVE 7° CLEARANCE 55° RHOMBIC INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT9235 | TT8020 | |
|------------------------------------|------------------|---------------|--------|--------|---------|--------|---------|-----------------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--|
| DCMT 11T304 MT | 0,15 (0,10/0,25) | 1,0 (0,7/3,0) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | | | | | | | | | | |
| DCMT 11T308 MT | 0,18 (0,13/0,30) | 1,5 (1,0/3,0) | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | | | | | | | | | | |
| DCMT 11T312 MT | 0,23 (0,17/0,35) | 2,0 (1,5/3,0) | 10,5 | 3,97 | 1,2 | 4,4 | 9,52 | | | | | | | | | | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | | | | | | | | | | | | |
| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT7025 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT9235 | TT8020 | | | | | | | | |
| DCMT 11T304 MT | | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| DCMT 11T308 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | | | |
| DCMT 11T312 MT | | ● | ● | | ● | | | ● | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

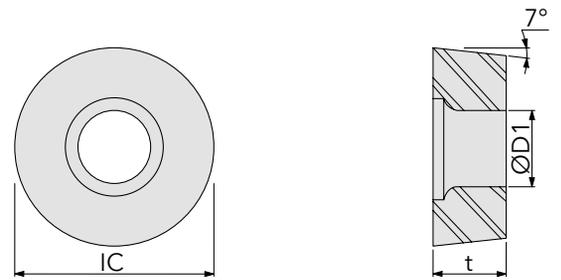
POSITIVE 55° INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RHOMBIQUES 55° - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 | TT8115B | TT8125B | TT9225 | TT9080 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|---------|--------|--------|
| DCMT 070204 PC | 0,12 (0,06/0,18) | 1,1 (0,3/2,0) | 7,3 | 2,38 | 0,4 | 2,8 | 6,35 | | | | | | |
| DCMT 070208 PC | 0,16 (0,08/0,25) | 1,2 (0,4/2,0) | 7,0 | 2,38 | 0,8 | 2,8 | 6,35 | | | | | | |
| DCMT 11T304 PC | 0,16 (0,08/0,25) | 1,7 (0,4/3,0) | 11,2 | 3,97 | 0,4 | 4,4 | 9,52 | | | | | | |
| DCMT 11T308 PC | 0,19 (0,10/0,28) | 1,7 (0,5/3,0) | 10,8 | 3,97 | 0,8 | 4,4 | 9,52 | | | | | | |
| DCMT 11T312 PC | 0,22 (0,12/0,32) | 1,7 (0,5/3,0) | 10,5 | 3,97 | 1,2 | 4,4 | 9,52 | | | | | | |
| for tool holders BD_CR/L & SD_CR/L | | | | | | | | | | | | | |
| Pour les porte-outils BD_CR/L & SD_CR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

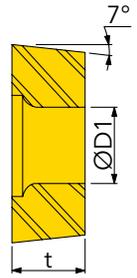
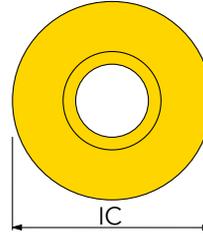
CHIPBREAKER, POSITIVE 7° CLEARANCE ROUND INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM



| Designation Réf. de l'article | t | ØD1 | IC | Grade Nuance | K10 |
|---------------------------------------|------|-----|------|-----------------|-----|
| RCGT 1003MO FL | 3,18 | 4,4 | 10,0 | | ● |
| RCGT 10T3MO FL | 3,97 | 4,4 | 10,0 | | ● |
| for tool holders SRDCN & SRGCR/L | | | | | |
| Pour les porte-outils SRDCN & SRGCR/L | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

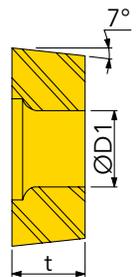
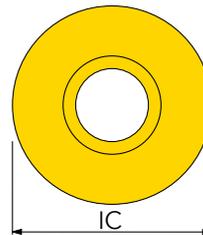
CHIPBREAKER, POSITIVE 7° CLEARANCE ROUND INSERTS, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR SEMI-FINITION DES MATÉRIEAUX EXOTIQUES



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | ØD1 | IC | Grade Nuance | TT3010 | TT3020 | K10 |
|---------------------------------------|------------------|---------------|------|-----|------|-----------------|--------|--------|-----|
| RCMT 120400 MGS | 0,30 (0,20/0,50) | 3,0 (2,0/5,0) | 4,76 | 4,4 | 12,0 | | ● | ● | ● |
| for tool holders SRDCN & SRGCR/L | | | | | | | | | |
| Pour les porte-outils SRDCN & SRGCR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

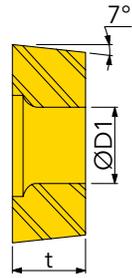
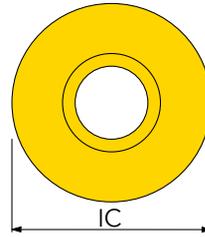
CHIPBREAKER, POSITIVE 7° CLEARANCE ROUND INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | ØD1 | IC | Grade Nuance | TT7005 | TT7015 | TT8115B | TT8125B |
|---------------------------------------|------------------|---------------|------|-----|------|-----------------|--------|--------|---------|---------|
| RCMT 10T300 MT | 0,30 (0,20/0,50) | 2,0 (1,0/4,0) | 3,97 | 4,4 | 10,0 | | ● | | ● | ● |
| RCMT 120400 MT | 0,40 (0,30/0,60) | 3,0 (2,0/5,0) | 4,76 | 4,4 | 12,0 | | ● | ● | ● | ● |
| RCMT 160600 MT | 0,60 (0,40/0,80) | 4,0 (3,0/7,0) | 6,35 | 5,5 | 16,0 | | | ● | ● | ● |
| for tool holders SRDCN & SRGCR/L | | | | | | | | | | |
| Pour les porte-outils SRDCN & SRGCR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

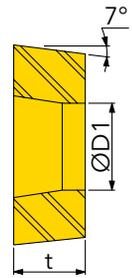
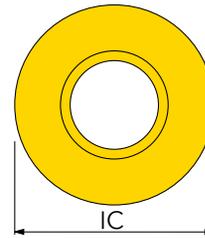
POSITIVE ROUND INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | ØD1 | IC | Grade Nuance | TT8105B | TT5080 | TT8125B | TT9225 | TT9235 |
|---------------------------------------|------------------|---------------|------|-----|------|-----------------|---------|--------|---------|--------|--------|
| RCMT 120400 PC | 0,40 (0,20/0,60) | 2,1 (1,3/4,5) | 4,76 | 4,4 | 12,0 | | ● | ● | ● | ● | ● |
| for tool holders SRDCN & SRGCR/L | | | | | | | | | | | |
| Pour les porte-outils SRDCN & SRGCR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

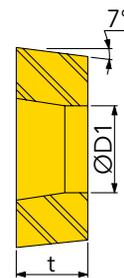
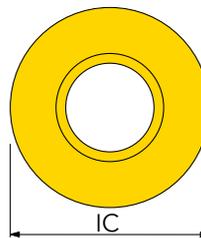
POSITIVE 7° CLEARANCE ROUND INSERTS, FOR ROUGHING
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | ØD1 | IC | Grade Nuance | TT7005 | TT7015 | TT8115B | TT8125B | TT5100 |
|---------------------------------------|------------------|-----------------|------|-----|------|-----------------|--------|--------|---------|---------|--------|
| RCMX 100300 | 0,35 (0,25/0,50) | 2,5 (1,5/4,0) | 3,18 | 3,6 | 10,0 | | ● | ● | ● | ● | ● |
| RCMX 120400 | 0,45 (0,30/0,60) | 3,5 (2,5/5,0) | 4,76 | 4,2 | 12,0 | | ● | ● | ● | ● | ● |
| RCMX 160600 | 0,55 (0,40/0,75) | 5,0 (3,0/7,0) | 6,35 | 5,2 | 16,0 | | ● | ● | ● | ● | ● |
| RCMX 200600 | 0,70 (0,48/0,90) | 6,0 (3,5/9,0) | 6,35 | 6,5 | 20,0 | | ● | ● | ● | ● | ● |
| RCMX 250700 | 0,85 (0,55/1,20) | 8,0 (4,0/12,0) | 7,94 | 7,2 | 25,4 | | ● | ● | ● | ● | ● |
| RCMX 320900 | 1,00 (0,65/1,50) | 10,0 (5,0/15,0) | 9,52 | 9,5 | 32,0 | | ● | | ● | ● | |
| for tool holders PRDCN & PRGCR/L | | | | | | | | | | | |
| Pour les porte-outils PRDCN & PRGCR/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

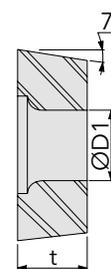
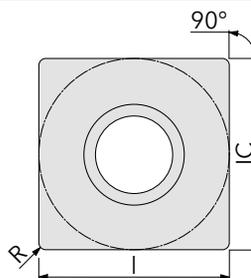
POSITIVE ROUND INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RONDES - DÉPOUILLE 7°, POUR MOYENNE EBAUCHE / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | ØD1 | IC | Grade Nuance | TT8115B | TT8125B | TT8135B |
|------------------------------------|------------------|---------------|------|------|------|-----------------|---------|---------|---------|
| RCMX 100300 RA | 0,35 (0,20/0,50) | 2,5 (1,0/4,0) | 3,18 | 3,61 | 10,0 | | | ● | |
| RCMX 120400 RA | 0,42 (0,25/0,60) | 3,5 (2,0/5,0) | 4,76 | 4,19 | 12,0 | | ● | ● | ● |
| RCMX 160600 RA | 0,55 (0,35/0,75) | 4,7 (2,5/7,0) | 6,35 | 5,21 | 16,0 | | ● | ● | ● |
| for tool holders PRDCN & PRGCR/L | | | | | | | | | |
| Pour les porte-outils S12M STFCR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

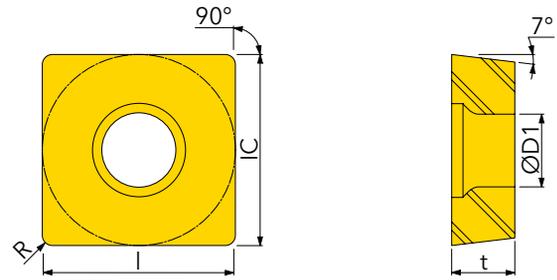
CHIPBREAKER, POSITIVE 7° CLEARANCE SQUARE INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES CARRÉES - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | K10 |
|--|------|------|-----|-----|------|-----------------|-----|
| SCGT 09T308 FL | 8,7 | 3,97 | 0,8 | 4,4 | 9,52 | | ● |
| SCGT 120404 FL | 12,3 | 4,76 | 0,4 | 5,5 | 12,7 | | ● |
| SCGT 120408 FL | 11,9 | 4,76 | 0,8 | 5,5 | 12,7 | | ● |
| for tool holders SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | |
| Pour les porte-outils SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

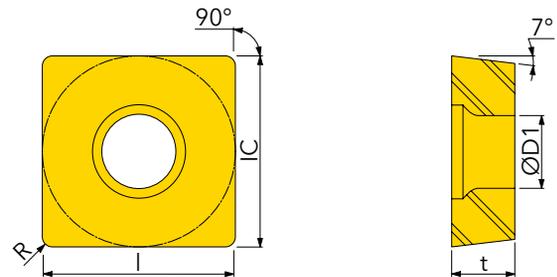
CHIPBREAKER, POSITIVE 7° CLEARANCE SQUARE INSERTS, FOR FINISHING
PLAQUETTES POSITIVES CARREES - DÉPOUILLE 7°, POUR FINITION



| Designation | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT8020 |
|--|------------------|---------------|-----|------|-----|-----|------|-------|---------|--------|---------|--------|--------|--------|
| SCMT 09T308 FG | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 8,7 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● | ● | ● |
| for tool holders SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | | | | | | | | |
| Pour les porte-outils SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

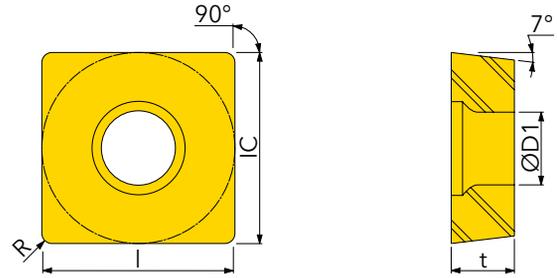
POSITIVE 7° CLEARANCE SQUARE INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES CARREES - DÉPOUILLE 7°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION



| Designation | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade | TT5080 | TT5100 |
|--|------------------|---------------|-----|------|-----|-----|------|-------|--------|--------|
| SCMT 09T304 FM | 0,16 (0,08/0,25) | 1,6 (0,5/2,5) | 9,1 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● |
| SCMT 09T308 FM | 0,18 (0,10/0,25) | 1,8 (0,8/2,5) | 8,7 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● |
| for tool holders SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | | | | |
| Pour les porte-outils SSSCR/L; SSDCN & S-SSKCR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE SQUARE INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES CARREES - DÉPOUILLE 7°, POUR MOYENNE-ÉBAUCHE



| Designation | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|-------------------|-------------|--------------|---|---|---|-----|----|
| Réf. de l'article | | | | | | | |

| | | | | | | | |
|----------------|------------------|---------------|------|------|-----|-----|------|
| SCMT 09T304 MT | 0,15 (0,10/0,25) | 1,5 (0,7/3,5) | 9,1 | 3,97 | 0,4 | 4,4 | 9,52 |
| SCMT 09T308 MT | 0,18 (0,13/0,30) | 1,5 (1,0/3,5) | 8,7 | 3,97 | 0,8 | 4,4 | 9,52 |
| SCMT 120404 MT | 0,15 (0,10/0,25) | 2,0 (1,0/5,0) | 12,3 | 4,76 | 0,4 | 5,5 | 12,7 |
| SCMT 120408 MT | 0,18 (0,13/0,30) | 2,0 (1,0/5,0) | 11,9 | 4,76 | 0,8 | 5,5 | 12,7 |
| SCMT 120412 MT | 0,20 (0,15/0,35) | 2,0 (1,0/5,0) | 11,5 | 4,76 | 1,2 | 5,5 | 12,7 |

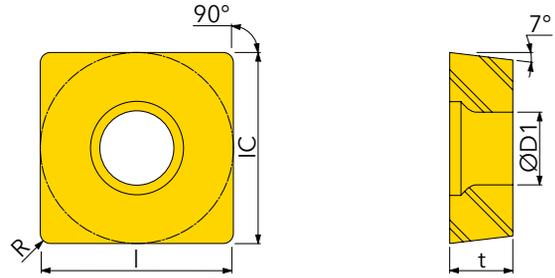
for tool holders SSSCR/L & SSDCN

Pour les porte-outils SSSCR/L & SSDCN

| Designation | Grade | CT3000 | TT7005 | TT7015 | TT7025 | TT8115B | TT8125B | TT5100 | TT9225 | TT9235 | TT8020 | | | |
|-------------------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--|--|--|
| Réf. de l'article | Nuance | | | | | | | | | | | | | |
| SCMT 09T304 MT | | ● | ● | ● | | ● | ● | ● | ● | | ● | | | |
| SCMT 09T308 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SCMT 120404 MT | | ● | ● | | | ● | ● | ● | | | | | | |
| SCMT 120408 MT | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| SCMT 120412 MT | | | ● | ● | | ● | | | | | ● | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

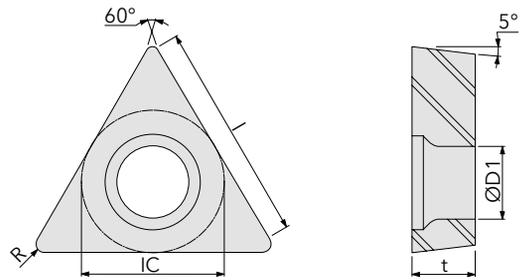
POSITIVE 90° INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES CARRÉES 90° - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 | TT8115B | TT8125B | TT9225 | TT9080 |
|---------------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|---------|--------|--------|
| SCMT 09T304 PC | 0,16 (0,08/0,25) | 1,7 (0,4/3,0) | 9,1 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| SCMT 09T308 PC | 0,19 (0,10/0,28) | 1,7 (0,5/3,0) | 8,7 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| SCMT 120404 PC | 0,16 (0,08/0,25) | 2,2 (0,4/4,0) | 12,3 | 4,76 | 0,4 | 5,5 | 12,7 | | ● | ● | ● | ● | ● |
| SCMT 120408 PC | 0,20 (0,10/0,30) | 2,3 (0,7/4,0) | 11,9 | 4,76 | 0,8 | 5,5 | 12,7 | | ● | ● | ● | ● | ● |
| SCMT 120412 PC | 0,23 (0,12/0,35) | 2,5 (1,0/4,0) | 11,5 | 4,76 | 1,2 | 5,5 | 12,7 | | | ● | ● | ● | ● |
| for tool holders SSSCR/L & SSDCN | | | | | | | | | | | | | |
| Pour les porte-outils SSSCR/L & SSDCN | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

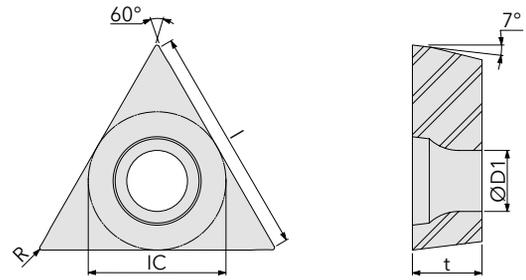
POSITIVE 60° INSERT - 5° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRE 60° - DÉPOUILLE 5°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 |
|---|------------------|------------------|-----|------|-----|------|-----------------|--------|
| TBGT 060102 L-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 6,4 | 1,59 | 0,2 | 3,99 | | ● |
| TBGT 060102 R-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 6,4 | 1,59 | 0,2 | 3,99 | | ● |
| TBGT 060104 L-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 5,9 | 1,59 | 0,4 | 3,99 | | ● |
| TBGT 060104 R-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 5,9 | 1,59 | 0,4 | 3,99 | | ● |
| for tool holders C-STUBR/L & S-STUBR/L | | | | | | | | |
| Pour les porte-outils C-STUBR/L & S-STUBR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR SMALL PARTS
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR LES PETITES PIÈCES

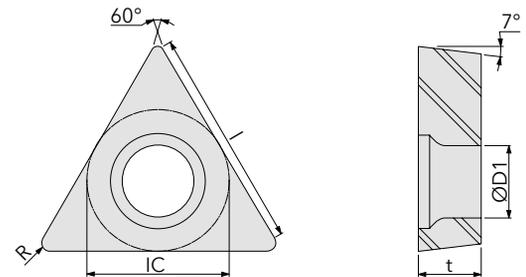


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|
| TCET 110301 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/1,5) | 10,7 | 3,18 | 0,1 | 2,8 | 6,35 | | |
| TCET 110302 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/1,5) | 10,5 | 3,18 | 0,2 | 2,8 | 6,35 | | |
| TCET 110304 R-GF | 0,10 (0,05/0,20) | 1,0 (0,5/1,5) | 10,0 | 3,18 | 0,4 | 2,8 | 6,35 | | |

for tool holders STGCR/L & STFCR/L
Pour les porte-outils STGCR/L & STFCR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM

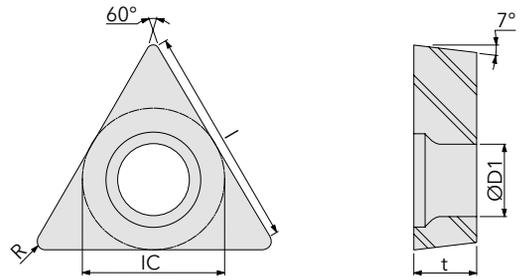


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | K10 |
|----------------------------------|------|------|-----|-----|------|-----------------|-----|
| TCGT 090204 FL | 8,6 | 2,38 | 0,4 | 2,5 | 5,56 | | |
| TCGT 110204 FL | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | |
| TCGT 16T304 FL | 15,5 | 3,97 | 0,4 | 4,4 | 9,52 | | |
| TCGT 16T308 FL | 14,5 | 3,97 | 0,8 | 4,4 | 9,52 | | |

for tool holders STGCR/L & STFCR/L
Pour les porte-outils STGCR/L & STFCR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 60° INSERT - 7° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRE 60° - DÉPOUILLE 7°-AFFÛTÉE, POUR FINITION

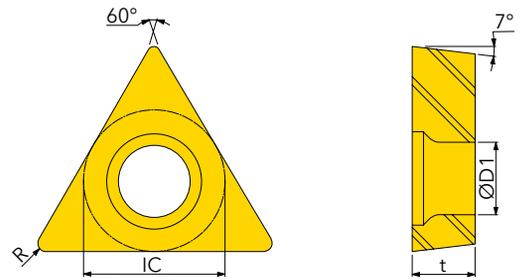
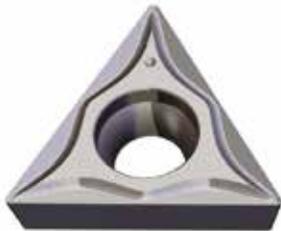


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT9020 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|
| TCGT 110201 SA | 0,03 (0,01/0,05) | 1,3 (0,1/2,5) | 10,7 | 2,38 | 0,1 | 2,8 | 6,35 | | | |
| TCGT 110202 SA | 0,09 (0,02/0,15) | 1,3 (0,2/2,5) | 10,5 | 2,38 | 0,2 | 2,8 | 6,35 | | | |
| TCGT 110204 SA | 0,11 (0,03/0,20) | 1,3 (0,2/2,5) | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | | |

for tool holders STGCR/L & STFCL/L
 Pour les porte-outils STGCR/L & STFCL/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR SUPER FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR SUPER-FINITION

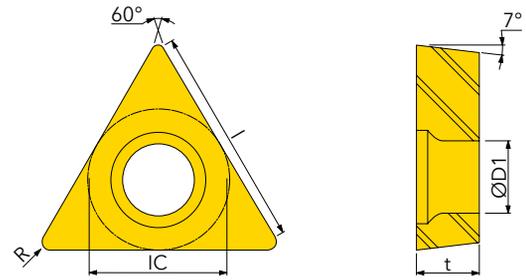


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | ØD1 | IC | Grade Nuance | PV3010 | CT3000 | TT5080 | TT8125B | TT9080 |
|----------------------------------|------------------|---------------|------|-----|-----|------|-----------------|--------|--------|--------|---------|--------|
| TCMT 110202 FA | 0,08 (0,03/0,15) | 0,7 (0,1/1,5) | 2,38 | 0,2 | 2,8 | 6,35 | | | | | | |
| TCMT 110204 FA | 0,08 (0,05/0,15) | 0,7 (0,1/1,5) | 2,38 | 0,4 | 2,8 | 6,35 | | | | | | |

for tool holders STGCR/L & STFCL/L
 Pour les porte-outils STGCR/L & STFCL/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR FINITION

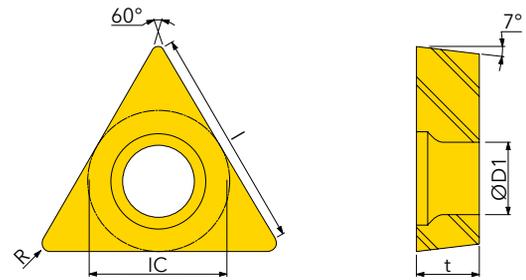


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | PV3010 | TT5080 | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|---------|--------|
| TCMT 090208 FG | 0,15 (0,10/0,25) | 1,0 (0,6/1,5) | 7,6 | 2,38 | 0,8 | 2,5 | 5,56 | | ● | | ● | ● |
| TCMT 110204 FG | 0,11 (0,07/0,20) | 1,0 (0,4/1,5) | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | ● | ● |
| TCMT 110208 FG | 0,15 (0,10/0,25) | 1,0 (0,6/1,5) | 9,0 | 2,38 | 0,8 | 2,8 | 6,35 | | ● | ● | ● | ● |
| TCMT 16T304 FG | 0,10 (0,07/0,20) | 1,0 (0,4/2,0) | 15,5 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | | ● | ● |
| TCMT 16T308 FG | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 14,5 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● |

for tool holders STGCR/L & STFGR/L
Pour les porte-outils STGCR/L & STFGR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION

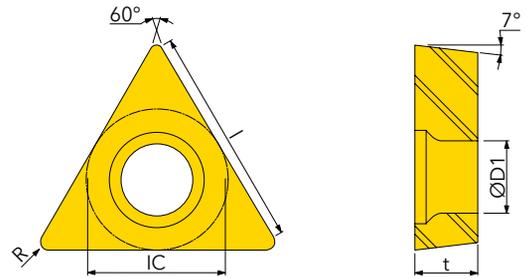


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT8125B | TT5100 | TT8020 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|--------|--------|
| TCMT 090202 FM | 0,12 (0,07/0,20) | 1,0 (0,5/1,5) | 9,1 | 2,38 | 0,2 | 2,5 | 5,56 | | ● | ● | ● | ● |
| TCMT 090204 FM | 0,14 (0,08/0,20) | 1,0 (0,5/1,5) | 8,6 | 2,38 | 0,4 | 2,5 | 5,56 | | ● | ● | ● | ● |
| TCMT 110202 FM | 0,12 (0,07/0,20) | 1,0 (0,5/1,5) | 10,5 | 2,38 | 0,2 | 2,8 | 6,35 | | ● | ● | ● | ● |
| TCMT 110204 FM | 0,14 (0,08/0,20) | 1,0 (0,5/1,5) | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | ● | ● |
| TCMT 16T304 FM | 0,14 (0,08/0,20) | 1,4 (0,5/2,0) | 15,5 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | | ● | ● |
| TCMT 16T308 FM | 0,15 (0,10/0,20) | 1,6 (0,8/2,0) | 14,5 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | | ● | ● |

for tool holders STGCR/L & STFGR/L
Pour les porte-outils STGCR/L & STFGR/L

● = P ● = M ● = K ● = N ● = S ○ = H

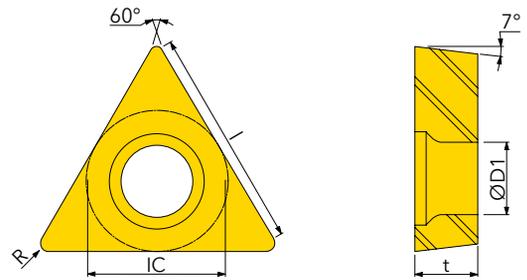
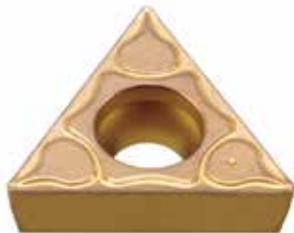
CHIPBREAKER, POSITIVE 7° CLEARANCE TRIANGULAR INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 7°, POUR MOYENNE-ÉBAUCHE



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT7015 | TT8115B | TT5080 | TT8125B | TT5100 | TT9235 | TT8020 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|--------|---------|--------|--------|--------|
| TCMT 090204 MT | 0,15 (0,10/0,25) | 1,0 (0,6/2,0) | 8,6 | 2,38 | 0,4 | 2,5 | 5,56 | | ● | ● | ● | ● | ● | ● | ● |
| TCMT 090208 MT | 0,18 (0,13/0,30) | 1,0 (0,8/2,0) | 7,6 | 2,38 | 0,8 | 2,5 | 5,56 | | ● | | | ● | ● | ● | ● |
| TCMT 110204 MT | 0,15 (0,10/0,25) | 1,5 (0,6/3,0) | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | | ● | ● | ● | ● |
| TCMT 110208 MT | 0,18 (0,13/0,30) | 1,5 (0,8/3,0) | 9,0 | 2,38 | 0,8 | 2,8 | 6,35 | | ● | ● | ● | ● | ● | ● | ● |
| TCMT 16T304 MT | 0,15 (0,10/0,25) | 2,0 (0,8/5,0) | 15,5 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● | ● | ● | ● |
| TCMT 16T308 MT | 0,18 (0,10/0,30) | 2,0 (1,0/5,0) | 14,5 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● | ● | ● | ● |
| for tool holders STGCR/L & STFCL/L | | | | | | | | | | | | | | | |
| Pour les porte-outils STGCR/L & STFCL/L | | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

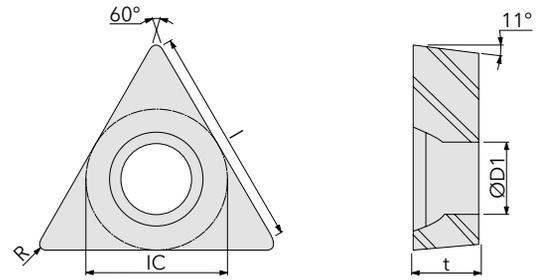
POSITIVE 60° INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES TRIANGULAIRES 60° - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8125B | TT9225 | TT9080 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|---------|--------|--------|
| TCMT 090204 PC | 0,12 (0,06/0,18) | 1,1 (0,3/2,0) | 8,6 | 2,38 | 0,4 | 2,5 | 5,56 | | | ● | ● |
| TCMT 090208 PC | 0,16 (0,08/0,25) | 1,2 (0,4/2,0) | 7,6 | 2,38 | 0,8 | 2,5 | 5,56 | | | ● | ● |
| TCMT 110204 PC | 0,13 (0,06/0,20) | 1,4 (0,3/2,5) | 10,0 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● | ● |
| TCMT 110208 PC | 0,13 (0,09/0,26) | 1,4 (0,4/2,5) | 9,0 | 2,38 | 0,8 | 2,8 | 6,35 | | ● | ● | ● |
| TCMT 16T304 PC | 0,16 (0,08/0,25) | 1,7 (0,4/3,0) | 15,5 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● | ● |
| TCMT 16T308 PC | 0,19 (0,10/0,28) | 1,7 (0,5/3,0) | 14,5 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● | ● |
| TCMT 16T312 PC | 0,24 (0,12/0,36) | 1,8 (0,6/3,0) | 13,5 | 3,97 | 1,2 | 4,4 | 9,52 | | ● | ● | ● |
| for tool holders STGCR/L & STFCL/L | | | | | | | | | | | |
| Pour les porte-outils STGCR/L & STFCL/L | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 11° CLEARANCE TRIANGULAR GROUND INSERTS, FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 11° -AFFÛTÉE, POUR FINITION

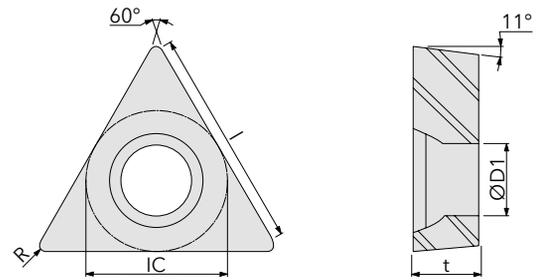


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|
| TPGT 090204 L-C | 0,08 (0,05/0,20) | 0,6 (0,3/1,5) | 8,6 | 2,38 | 0,4 | 2,5 | 5,56 | | |
| TPGT 110304 L-C | 0,08 (0,05/0,20) | 0,8 (0,5/2,0) | 10,0 | 3,18 | 0,4 | 3,4 | 6,35 | | |
| TPGT 110304 R-C | 0,08 (0,05/0,20) | 0,8 (0,5/2,0) | 10,0 | 3,18 | 0,4 | 3,4 | 6,35 | | |
| TPGT 110308 L-C | 0,10 (0,07/0,25) | 0,8 (0,5/2,0) | 9,0 | 3,18 | 0,8 | 3,4 | 6,35 | | |
| TPGT 160404 L-C | 0,08 (0,05/0,20) | 1,5 (0,7/3,0) | 15,5 | 4,76 | 0,4 | 4,4 | 9,52 | | |
| TPGT 160404 R-C | 0,08 (0,05/0,20) | 1,5 (0,7/3,0) | 15,5 | 4,76 | 0,4 | 4,4 | 9,52 | | |

for tool holders STGPR/L; A/S-STFPR/L & C/E-STFPR/L
Pour les porte-outils STGPR/L; A/S-STFPR/L & C/E-STFPR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 11° CLEARANCE TRIANGULAR GROUND INSERTS, FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 11° -AFFÛTÉE, POUR FINITION

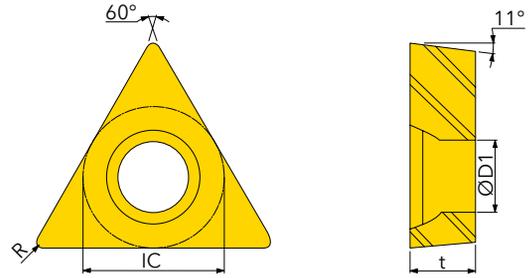


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|
| TPGX 090202 L | 0,08 (0,05/0,15) | 0,7 (0,4/1,5) | 9,1 | 2,38 | 0,2 | 3,0 | 5,56 | | |
| TPGX 090204 L | 0,12 (0,08/0,20) | 0,7 (0,6/1,5) | 8,6 | 2,38 | 0,4 | 3,0 | 5,56 | | |
| TPGX 110302 L | 0,12 (0,08/0,20) | 0,8 (0,5/1,5) | 10,5 | 3,18 | 0,2 | 3,5 | 6,35 | | |
| TPGX 110304 L | 0,12 (0,08/0,20) | 1,0 (0,6/2,0) | 10,0 | 3,18 | 0,4 | 3,5 | 6,35 | | |
| TPGX 110302 R | 0,12 (0,08/0,20) | 0,8 (0,5/1,5) | 10,5 | 3,18 | 0,2 | 3,5 | 6,35 | | |
| TPGX 110304 R | 0,12 (0,08/0,20) | 1,0 (0,6/2,0) | 10,0 | 3,18 | 0,4 | 3,5 | 6,35 | | |

for tool holders STGPR/L; A/S-STFPR/L & C/E-STFPR/L
Pour les porte-outils STGPR/L; A/S-STFPR/L & C/E-STFPR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 11° CLEARANCE TRIANGULAR INSERTS, FOR SUPER FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 11°, POUR SUPER-FINITION

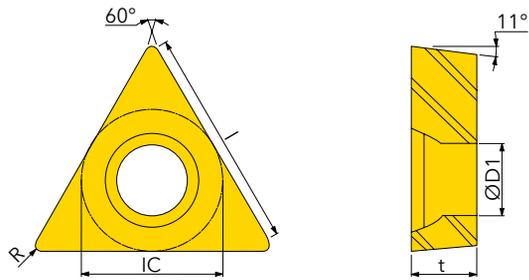


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT5080 |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|--------|
| TPMT 090202 FA | 0,07 (0,03/0,15) | 0,3 (0,1/1,2) | 2,38 | 0,2 | 5,56 | | |
| TPMT 090204 FA | 0,10 (0,05/0,20) | 0,6 (0,2/1,2) | 2,38 | 0,4 | 5,56 | | |
| TPMT 110302 FA | 0,07 (0,03/0,15) | 0,3 (0,1/1,5) | 3,18 | 0,2 | 6,35 | | |
| TPMT 110304 FA | 0,10 (0,05/0,20) | 0,6 (0,2/1,5) | 3,18 | 0,4 | 6,35 | | |
| TPMT 110308 FA | 0,14 (0,08/0,25) | 1,0 (0,3/1,5) | 3,18 | 0,8 | 6,35 | | |
| TPMT 16T304 FA | 0,10 (0,05/0,20) | 0,6 (0,2/2,0) | 3,97 | 0,4 | 9,52 | | |

for tool holders STGPR/L; A/S-STFPR/L & C/E-STFPR/L
Pour les porte-outils STGPR/L; A/S-STFPR/L & C/E-STFPR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 11° CLEARANCE TRIANGULAR INSERTS, FOR FINISHING
PLAQUETTES POSITIVES TRIANGULAIRES - DÉPOUILLE 11°, POUR FINITION

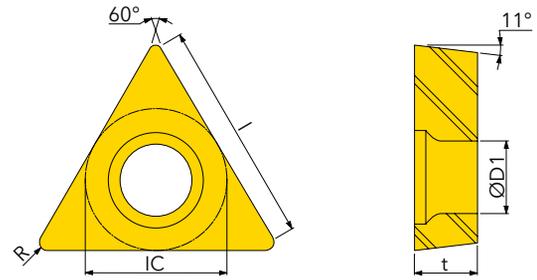


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 | TT7005 | TT8125B | TT5100 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|---------|--------|
| TPMT 110304 FG | 0,11 (0,07/0,20) | 0,7 (0,4/1,5) | 10,0 | 3,18 | 0,4 | 3,4 | 6,35 | | | | | |

for tool holders STGPR/L; A/S-STFPR/L & C/E-STFPR/L
Pour les porte-outils STGPR/L; A/S-STFPR/L & C/E-STFPR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 60° INSERT - 11° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES TRIANGULAIRES 60° - DÉPOUILLE 11°, POUR SEMI-FINITION / ACIERS

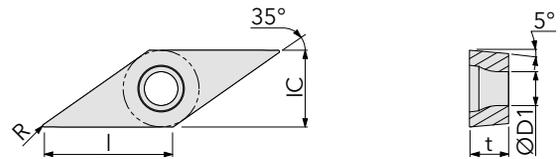


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | TT5080 | TT9225 |
|----------------------------------|------------------|---------------|------|------|-----|------|-----------------|--------|--------|
| TPMT 090204 PC | 0,12 (0,06/0,18) | 1,1 (0,3/2,0) | 7,6 | 2,38 | 0,4 | 5,56 | | ● | ● |
| TPMT 110204 PC | 0,13 (0,06/0,20) | 1,4 (0,4/2,5) | 10,0 | 2,38 | 0,4 | 6,35 | | ● | ● |
| TPMT 110208 PC | 0,18 (0,10/0,26) | 1,5 (0,5/2,5) | 9,0 | 2,38 | 0,8 | 6,35 | | ● | ● |
| TPMT 110304 PC | 0,13 (0,06/0,20) | 1,4 (0,4/2,5) | 10,0 | 3,18 | 0,4 | 6,35 | | ● | ● |
| TPMT 110308 PC | 0,18 (0,10/0,26) | 1,5 (0,5/2,5) | 9,0 | 3,18 | 0,8 | 6,35 | | ● | ● |
| TPMT 16T304 PC | 0,16 (0,08/0,25) | 1,7 (0,5/3,0) | 15,5 | 3,97 | 0,4 | 9,52 | | ● | ● |
| TPMT 16T308 PC | 0,20 (0,10/0,30) | 1,5 (0,5/3,0) | 14,5 | 3,97 | 0,8 | 9,52 | | ● | ● |

for tool holders STGPR/L; A/S-STFPR/L & C/E-STFPR/L
Pour les porte-outils STGPR/L; A/S-STFPR/L & C/E-STFPR/L

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5°, POUR LES PETITES PIÈCES

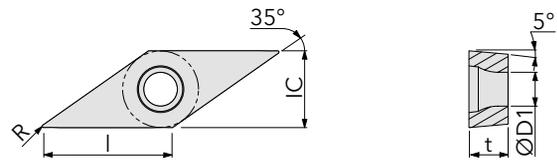


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|
| VBET 110301 L-GF | 0,05 (0,02/0,15) | 0,6 (0,2/1,5) | 10,8 | 3,18 | 0,1 | 2,8 | 6,35 | | ● |
| VBET 110304 L-GF | 0,10 (0,05/0,20) | 0,8 (0,3/1,5) | 9,9 | 3,18 | 0,4 | 2,8 | 6,35 | | ● |
| VBET 110301 R-GF | 0,05 (0,02/0,15) | 0,6 (0,2/1,5) | 10,8 | 3,18 | 0,1 | 2,8 | 6,35 | | ● |
| VBET 110302 R-GF | 0,07 (0,03/0,17) | 0,8 (0,3/1,5) | 10,6 | 3,18 | 0,2 | 2,8 | 6,35 | | ● |
| VBET 110304 R-GF | 0,10 (0,05/0,20) | 0,8 (0,3/1,5) | 9,9 | 3,18 | 0,4 | 2,8 | 6,35 | | ● |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN
Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS WITH WIPER GEOMETRY, FOR SMALL PARTS
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5° - WIPER, POUR LES PETITES PIÈCES

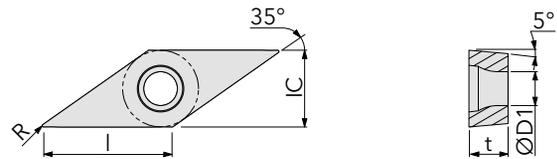


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT9020 |
|----------------------------------|------------------|---------------|------|------|------|-----|------|-----------------|--------|
| VBET 1103003 L-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 10,6 | 3,18 | 0,03 | 2,8 | 6,35 | | ● |
| VBET 1103003 R-GW | 0,08 (0,02/0,15) | 0,3 (0,1/1,5) | 10,6 | 3,18 | 0,03 | 2,8 | 6,35 | | ● |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN
Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 35° INSERT - 5° CLEARANCE, FOR LIGHT AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUE 35° - DÉPOUILLE 5°, POUR SEMI-FINITION DES ALLIAGES EXOTIQUES

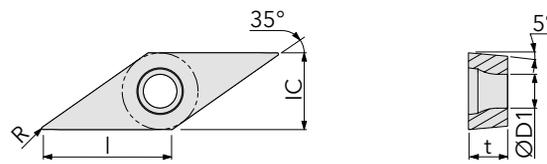


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT3005 | TT3010 | TT3020 | K10 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|--------|-----|
| VBGT 160404 FGS | 0,10 (0,03/0,20) | 1,0 (0,2/2,5) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● |
| VBGT 160408 FGS | 0,10 (0,05/0,20) | 1,0 (0,3/2,5) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● |
| VBGT 160412 FGS | 0,10 (0,07/0,20) | 2,0 (0,3/2,5) | 13,6 | 4,76 | 1,2 | 4,4 | 9,52 | | ● | ● | ● | ● |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN
Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

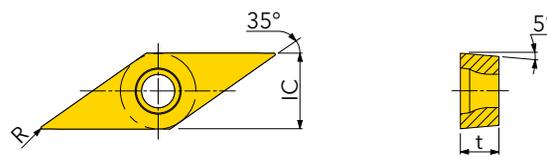
POSITIVE 35° INSERT - 5° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUE 35°- DÉPOUILLE 5°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT9020 |
|--|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|
| VBGT 110301 SA | 0,10 (0,01/0,20) | 0,8 (0,1/1,5) | 10,8 | 3,18 | 0,1 | 2,8 | 6,35 | | | |
| VBGT 110302 SA | 0,11 (0,02/0,20) | 0,8 (0,2/1,5) | 10,6 | 3,18 | 0,2 | 2,8 | 6,35 | | | |
| VBGT 110304 SA | 0,11 (0,03/0,20) | 0,8 (0,1/1,5) | 9,9 | 3,18 | 0,4 | 2,8 | 6,35 | | | |
| VBGT 160401 SA | 0,10 (0,01/0,20) | 0,8 (0,1/1,5) | 15,6 | 4,76 | 0,1 | 4,4 | 9,52 | | | |
| VBGT 160402 SA | 0,11 (0,02/0,20) | 0,8 (0,2/1,5) | 15,6 | 4,76 | 0,2 | 4,4 | 9,52 | | | |
| VBGT 160404 SA | 0,11 (0,03/0,20) | 0,8 (0,1/1,5) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | | |
| for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | | | |
| Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

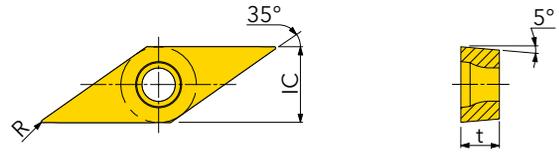
POSITIVE 35° INSERT WITH 5° CLEARANCE, FOR FINISHING
PLAQUETTES POSITIVES À 35° AVEC UNE DÉPOUILLE DE 5°, POUR LA FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|--|------------------|------------------|------|-----|------|-----------------|--------|--------|
| VBGT 110302M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,18 | 0,2 | 6,35 | | | |
| for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | |
| Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

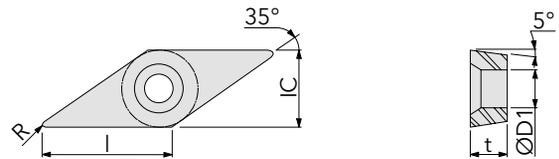
POSITIVE 35° INSERT WITH 5° CLEARANCE, FOR GENERAL MACHINING
PLAQUETTES POSITIVES À 35° AVEC UNE DÉPOUILLE DE 5°, POUR LE TOURNAGE GÉNÉRAL



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|--|------------------|---------------|------|-----|------|-----------------|--------|--------|
| VBGT 110301M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,18 | 0,1 | 6,35 | | | |
| VBGT 110302M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,18 | 0,2 | 6,35 | | | |
| VBGT 110304M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,18 | 0,4 | 6,35 | | | |
| for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | |
| Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

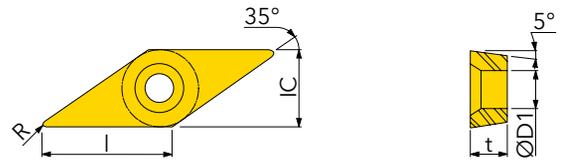
CHIPBREAKER, NEGATIVE 35° RHOMBIC INSERTS, FOR SUPER FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 35°, DÉPOUILLE 5°, POUR SUPER-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | PV3010 | CT3000 | TT8115B | TT5080 | TT8125B | TT8020 |
|--|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|---------|--------|---------|--------|
| VBMT 110304 FA | 0,10 (0,05/0,20) | 0,6 (0,2/1,5) | 9,9 | 3,18 | 0,4 | 2,8 | 6,35 | | | | | | | |
| VBMT 160404 FA | 0,10 (0,05/0,20) | 0,6 (0,2/2,0) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | | | | | | |
| VBMT 160408 FA | 0,12 (0,05/0,25) | 0,5 (0,3/2,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | | | | | | |
| for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | | | | | | | |
| Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN | | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

**CHIPBREAKER, POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5°, POUR FINITION**



| Designation | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|-------------------|-------------|--------------|---|---|---|-----|----|
| Réf. de l'article | | | | | | | |

| | | | | | | | |
|----------------|------------------|---------------|------|------|-----|-----|------|
| VBMT 160404 FG | 0,10 (0,07/0,20) | 0,7 (0,5/1,5) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 |
|----------------|------------------|---------------|------|------|-----|-----|------|

| | | | | | | | |
|----------------|------------------|---------------|------|------|-----|-----|------|
| VBMT 160408 FG | 0,15 (0,10/0,25) | 1,0 (0,7/2,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 |
|----------------|------------------|---------------|------|------|-----|-----|------|

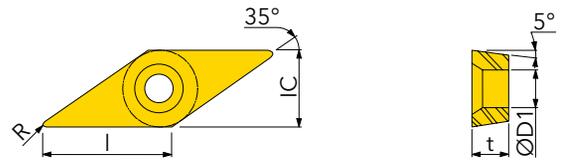
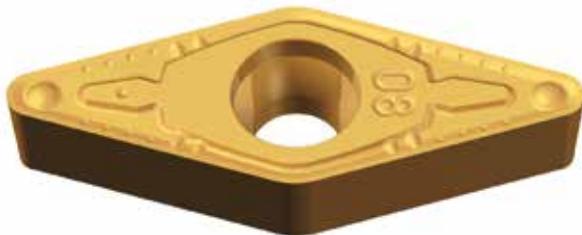
for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

| Designation | Grade Nuance | CT3000 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT8080 | TT8020 | | | | |
|-------------------|--------------|--------|---------|--------|---------|--------|--------|--------|--------|--|--|--|--|
| Réf. de l'article | | | | | | | | | | | | | |
| VBMT 160404 FG | | | | | | | | | | | | | |
| VBMT 160408 FG | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

**POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 35°, DÉPOUILLE 5°, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION**



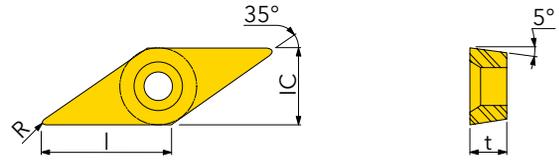
| Designation | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 | TT8020 |
|-------------------|------------------|---------------|------|------|-----|-----|------|--------------|---------|--------|---------|--------|--------|
| Réf. de l'article | | | | | | | | | | | | | |
| VBMT 110304 FM | 0,14 (0,08/0,20) | 1,0 (0,5/1,5) | 9,9 | 3,18 | 0,4 | 2,8 | 6,35 | | | | | | |
| VBMT 110308 FM | 0,15 (0,10/0,20) | 1,0 (0,5/1,5) | 8,9 | 3,18 | 0,8 | 2,8 | 6,35 | | | | | | |
| VBMT 160404 FM | 0,14 (0,08/0,20) | 1,4 (0,5/2,0) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | | | | | |
| VBMT 160408 FM | 0,15 (0,10/0,20) | 1,6 (0,8/2,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | | | | | |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS, FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5°, POUR FINITION

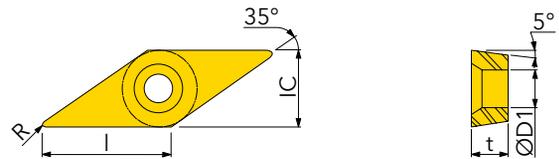


| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | CT3000 | TT8105B | TT8115B | TT8125B |
|----------------------------------|------------------|---------------|------|-----|------|-----------------|--------|---------|---------|---------|
| VBMT 160404 FX | 0,10 (0,05/0,20) | 0,6 (0,2/2,0) | 4,76 | 0,4 | 9,52 | | ● | | ● | ● |
| VBMT 160408 FX | 0,12 (0,07/0,20) | 0,8 (0,2/2,0) | 4,76 | 0,8 | 9,52 | | ● | ● | ● | ● |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN
Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 5° CLEARANCE 35° RHOMBIC INSERTS, FOR MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5°, POUR SEMI-FINITION



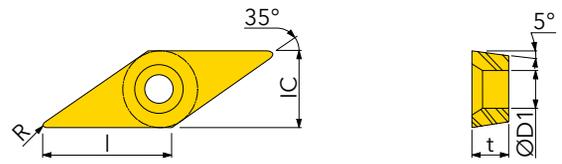
| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|
| VBMT 160404 MT | 0,15 (0,10/0,25) | 1,0 (0,6/3,0) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 |
| VBMT 160408 MT | 0,18 (0,13/0,30) | 1,5 (0,9/3,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 |
| VBMT 160412 MT | 0,22 (0,15/0,30) | 1,5 (1,2/3,0) | 13,6 | 4,76 | 1,2 | 4,4 | 9,52 |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

| Designation Réf. de l'article | Grade Nuance | TT7005 | TT7015 | TT8115B | TT5080 | TT8125B | TT5100 | TT9225 | TT8020 |
|----------------------------------|-----------------|--------|--------|---------|--------|---------|--------|--------|--------|
| VBMT 160404 MT | | ● | ● | ● | ● | ● | ● | ● | ● |
| VBMT 160408 MT | | ● | ● | ● | ● | ● | ● | ● | ● |
| VBMT 160412 MT | | ● | | ● | ● | ● | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 35° INSERT - 5° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 5°, POUR SEMI-FINITION / ACIERS

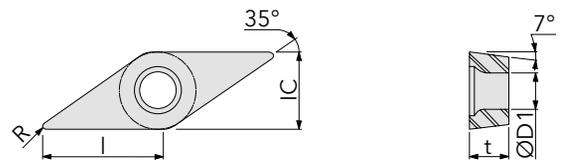


| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 | TT8115B | TT8125B | TT9225 | TT9080 |
|----------------------------------|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|---------|--------|--------|
| VBMT 160404 PC | 0,15 (0,07/0,22) | 1,8 (0,8/2,8) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| VBMT 160408 PC | 0,18 (0,10/0,27) | 1,8 (0,5/2,8) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |
| VBMT 160412 PC | 0,19 (0,10/0,28) | 1,8 (0,5/2,8) | 13,6 | 4,76 | 1,2 | 4,4 | 9,52 | | ● | ● | ● | ● | ● |

for tool holders BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN
Pour les porte-outils BVJBR/L-SH; SVJBR/L; SVQBR/L & SVVBN

● = P ● = M ● = K ● = N ● = S ○ = H

CHIPBREAKER, POSITIVE 7° CLEARANCE 35° RHOMBIC INSERTS, FOR ALUMINUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 7°, POUR USINAGE ALUMINIUM

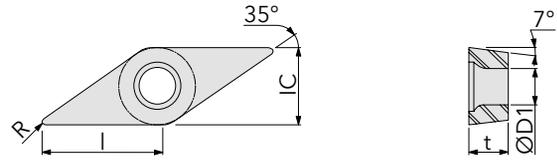


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | K10 |
|----------------------------------|------|------|-----|-----|------|-----------------|-----|
| VCGT 110302 FL | 10,5 | 3,18 | 0,2 | 2,8 | 6,35 | | ● |
| VCGT 110304 FL | 10,0 | 3,18 | 0,4 | 2,8 | 6,35 | | ● |
| VCGT 160402 FL | 16,1 | 4,76 | 0,2 | 4,4 | 9,52 | | ● |
| VCGT 160404 FL | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | ● |
| VCGT 160408 FL | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | ● |
| VCGT 160412 FL | 13,6 | 4,76 | 1,2 | 4,4 | 9,52 | | ● |
| VCGT 220530 FL | 14,6 | 5,56 | 3,0 | 5,5 | 12,7 | | ● |

for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L
Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L

● = P ● = M ● = K ● = N ● = S ○ = H

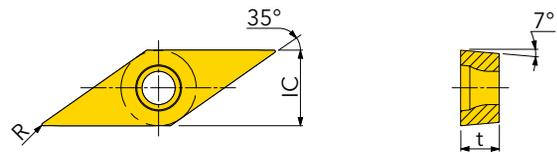
POSITIVE 35° INSERT - 7° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES RHOMBIQUE 35°- DÉPOUILLE 7°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT5080 | TT9020 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|--------|
| VCGT 110301 SA | 0,10 (0,01/0,20) | 0,8 (0,1/1,5) | 11,2 | 3,18 | 0,1 | 2,8 | 6,35 | | | |
| VCGT 110302 SA | 0,10 (0,02/0,20) | 0,9 (0,2/1,5) | 10,5 | 3,18 | 0,2 | 2,8 | 6,35 | | | |
| VCGT 110304 SA | 0,12 (0,05/0,20) | 0,9 (0,2/1,5) | 10,0 | 3,18 | 0,4 | 2,8 | 6,35 | | | |
| for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | |
| Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

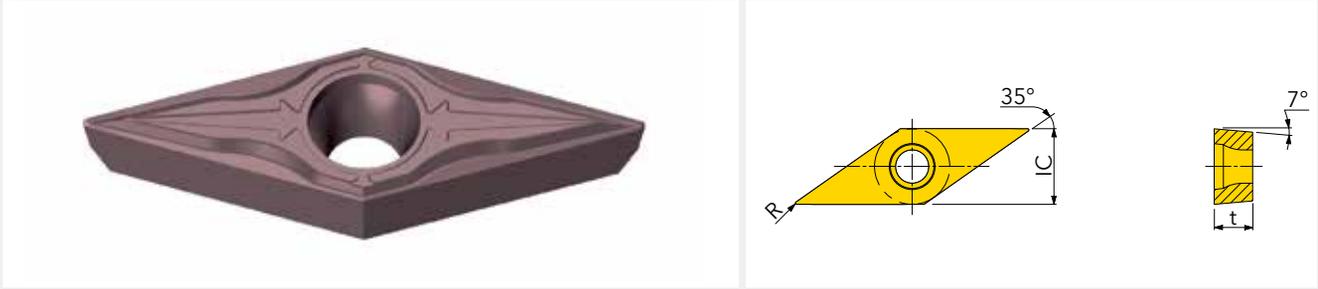
POSITIVE 35° INSERT WITH 7° CLEARANCE, FOR FINISHING
PLAQUETTES POSITIVES À 35° AVEC UNE DÉPOUILLE DE 7°, POUR LA FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|---|------------------|------------------|------|-----|------|-----------------|--------|--------|
| VCGT 110302M SL-F | 0,05 (0,02/0,10) | 0,10 (0,02/0,25) | 3,18 | 0,2 | 6,35 | | | |
| for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | |
| Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 35° INSERT WITH 7° CLEARANCE, FOR GENERAL MACHINING
PLAQUETTES POSITIVES À 35° AVEC UNE DÉPOUILLE DE 7°, POUR LE TOURNAGE GÉNÉRAL



| Designation Réf. de l'article | f (min/max) | ap (min/max) | t | R | IC | Grade Nuance | TT4410 | TT4430 |
|---|------------------|---------------|------|-----|------|-----------------|--------|--------|
| VCGT 110301M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,18 | 0,1 | 6,35 | | | |
| VCGT 110302M SM-F | 0,07 (0,02/0,12) | 0,5 (0,2/1,5) | 3,18 | 0,2 | 6,35 | | | |
| VCGT 110304M SM-F | 0,07 (0,02/0,10) | 0,5 (0,2/1,5) | 3,18 | 0,4 | 6,35 | | | |
| for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | |
| Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

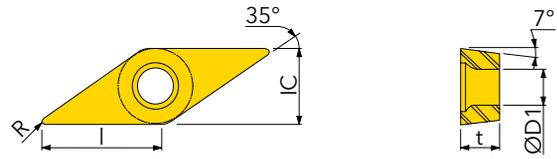
POSITIVE 35° INSERT - 7° CLEARANCE, FOR SEMI FINISHING AND MEDIUM MACHINING
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 7, POUR LES OPÉRATIONS DE MOYENNE ÉBAUCHE ET SEMI-FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | TT8115B | TT5080 | TT8125B | TT5100 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|---------|--------|---------|--------|
| VCMT 080202 FM | 0,10 (0,07/0,15) | 1,0 (0,5/1,5) | 7,8 | 2,38 | 0,2 | 2,4 | 4,76 | | | | | |
| VCMT 080204 FM | 0,12 (0,08/0,15) | 1,0 (0,5/1,5) | 7,3 | 2,38 | 0,4 | 2,4 | 4,76 | | | | | |
| VCMT 110304 FM | 0,14 (0,08/0,20) | 1,0 (0,5/1,5) | 10,0 | 3,18 | 0,4 | 2,8 | 6,35 | | | | | |
| VCMT 160404 FM | 0,14 (0,08/0,20) | 1,4 (0,5/2,0) | 15,6 | 4,76 | 0,4 | 4,4 | 9,52 | | | | | |
| VCMT 160408 FM | 0,15 (0,10/0,20) | 1,6 (0,8/2,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | | | | |
| for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | | | |
| Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

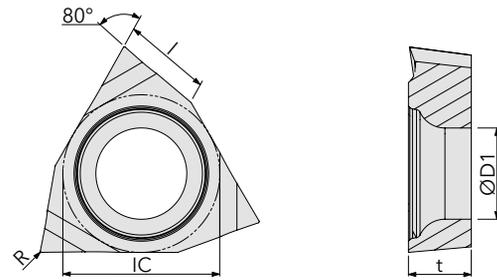
POSITIVE 35° INSERT - 7° CLEARANCE, FOR MEDIUM ROUGHING / STEEL
PLAQUETTES POSITIVES RHOMBIQUES 35° - DÉPOUILLE 7°, POUR SEMI-FINITION / ACIERS



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | ØD1 | IC | Grade Nuance | CT3000 | TT8115B | TT8125B | TT9225 | TT9080 |
|---|------------------|---------------|------|------|-----|-----|------|-----------------|--------|---------|---------|--------|--------|
| VCMT 080202 PC | 0,08 (0,02/0,15) | 0,8 (0,2/1,5) | 7,8 | 2,38 | 0,2 | 2,4 | 4,76 | | | | | | |
| VCMT 080204 PC | 0,12 (0,05/0,20) | 0,9 (0,2/1,5) | 7,3 | 2,38 | 0,4 | 2,4 | 4,76 | | | | | | |
| VCMT 110304 PC | 0,12 (0,05/0,20) | 0,9 (0,1/1,7) | 10,0 | 3,18 | 0,4 | 2,8 | 6,35 | | | | | | |
| VCMT 160408 PC | 0,12 (0,05/0,20) | 1,1 (0,3/2,0) | 14,6 | 4,76 | 0,8 | 4,4 | 9,52 | | | | | | |
| for tool holders BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | | | | |
| Pour les porte-outils BVJCR/L; SVJCR/L; SVVCN & S-SVUCR/L | | | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

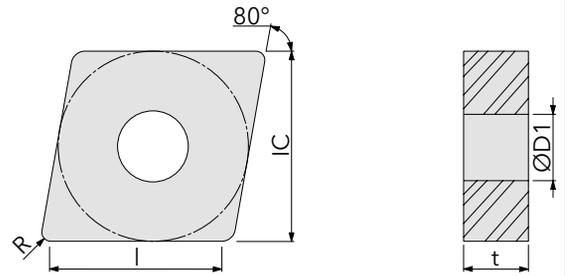
POSITIVE 80° INSERT - 5° CLEARANCE (PERIPHERAL GRINDED), FOR FINISHING
PLAQUETTES POSITIVES TRIGONE 80° - DÉPOUILLE 5°-AFFÛTÉE, POUR FINITION



| Designation Réf. de l'article | f (min/max) | ap (min/max) | l | t | R | IC | Grade Nuance | CT3000 |
|---|------------------|------------------|-----|------|------|------|-----------------|--------|
| WBGT 0601003 L-FF | 0,06 (0,03/0,10) | 0,17 (0,05/0,30) | 3,4 | 1,59 | 0,03 | 3,99 | | |
| WBGT 0601003 R-FF | 0,06 (0,03/0,10) | 0,17 (0,05/0,30) | 3,4 | 1,59 | 0,03 | 3,99 | | |
| WBGT 060101 L-FF | 0,07 (0,03/0,12) | 0,24 (0,08/0,40) | 3,4 | 1,59 | 0,1 | 3,99 | | |
| WBGT 060101 R-FF | 0,07 (0,03/0,12) | 0,24 (0,08/0,40) | 3,4 | 1,59 | 0,1 | 3,99 | | |
| WBGT 060102 L-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 3,4 | 1,59 | 0,2 | 3,99 | | |
| WBGT 060102 R-FF | 0,09 (0,03/0,15) | 0,25 (0,10/0,40) | 3,4 | 1,59 | 0,2 | 3,99 | | |
| WBGT 060104 L-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 3,4 | 1,59 | 0,4 | 3,99 | | |
| WBGT 060104 R-FF | 0,12 (0,05/0,20) | 0,25 (0,10/0,40) | 3,4 | 1,59 | 0,4 | 3,99 | | |
| for tool holders C-SWUBR/L & S-SWUBR/L | | | | | | | | |
| Pour les porte-outils C-SWUBR/L & S-SWUBR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

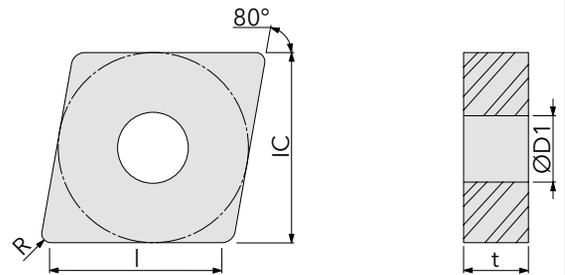
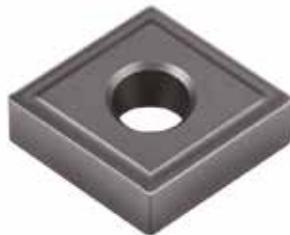
NEGATIVE 80° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 80°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 | AS10 |
|---|------|------|-----|-----|------|-----------------|--------|------|------|------|
| CNGA 120404 | 12,4 | 4,76 | 0,4 | 5,2 | 12,7 | | ● | ● | ● | |
| CNGA 120408 | 12,0 | 4,76 | 0,8 | 5,2 | 12,7 | | ● | ● | ● | ● |
| CNGA 120412 | 11,6 | 4,76 | 1,2 | 5,2 | 12,7 | | ● | ● | ● | ● |
| for tool holders TCLNR/L & PCLNR/L | | | | | | | | | | |
| Pour les porte-outils TCLNR/L & PCLNR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

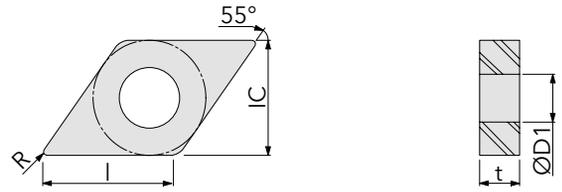
NEGATIVE 80° CERAMIC INSERT, WITH CHIP BREAKER
PLAQUETTES CÉRAMIQUE 80°, AVEC BRISE-COPEAUX



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB20 | AB30 |
|---|------|------|-----|-----|------|-----------------|------|------|
| CNMG 120404 CE | 12,4 | 7,94 | 0,4 | 5,2 | 12,7 | | | ● |
| CNMG 120408 CE | 12,0 | 7,94 | 0,8 | 5,2 | 12,7 | | ● | ● |
| for tool holders TCLNR/L & PCLNR/L | | | | | | | | |
| Pour les porte-outils TCLNR/L & PCLNR/L | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

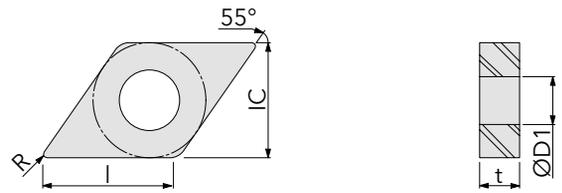
NEGATIVE 55° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 55°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 |
|--|------|------|-----|-----|------|-----------------|--------|------|------|
| DNGA 150604 | 15,1 | 6,35 | 0,4 | 5,2 | 12,7 | | | | |
| DNGA 150608 | 14,7 | 6,35 | 0,8 | 5,2 | 12,7 | | | | |
| DNGA 150612 | 14,4 | 6,35 | 1,2 | 5,2 | 12,7 | | | | |
| for tool holders TDJNR/L; TDSNR/L & TDNNR/L | | | | | | | | | |
| Pour les porte-outils TDJNR/L; TDSNR/L & TDNNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

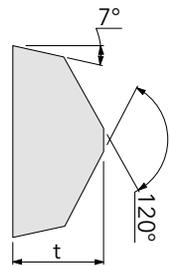
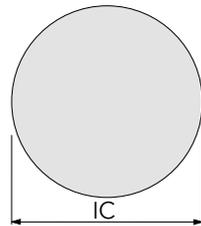
NEGATIVE 55° CERAMIC INSERT, WITH CHIP BREAKER
PLAQUETTES CÉRAMIQUE 55°, AVEC BRISE-COPEAUX



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB30 |
|--|------|------|-----|-----|------|-----------------|------|
| DNMG 150608 CE | 14,7 | 6,35 | 0,8 | 5,2 | 12,7 | | |
| for tool holders TDJNR/L; TDSNR/L & TDNNR/L | | | | | | | |
| Pour les porte-outils TDJNR/L; TDSNR/L & TDNNR/L | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

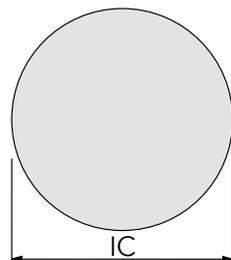
POSITIVE CERAMIC ROUND INSERT 120° STYLE - 7° CLEARANCE
PLAQUETTES RONDES CÉRAMIQUE POSITIVES - ASSISE 120° - 7°



| Designation Réf. de l'article | t | IC | Grade Nuance | AB20 | AB30 |
|---|-------|-------|-----------------|------|------|
| RCGX 090700 U1 | 8,00 | 9,52 | | | ○ |
| RCGX 120700 U2 | 8,00 | 12,0 | | ○ | ○ |
| RCGX 151000 U2 | 10,00 | 15,88 | | ○ | ○ |
| RCGX 191000 U2 | 10,00 | 19,05 | | ○ | ○ |
| for tool holders CRDCN 120° & CRGCR 120° | | | | | |
| Pour les porte-outils CRDCN 120° & CRGCR 120° | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

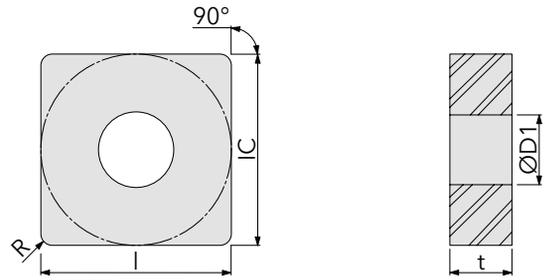
NEGATIVE CERAMIC ROUND INSERT
PLAQUETTES RONDES CÉRAMIQUE



| Designation Réf. de l'article | t | IC | Grade Nuance | AB2010 | AB20 | AB30 | TC430 | AS20 |
|---|------|------|-----------------|--------|------|------|-------|------|
| RNGN 090300 | 3,18 | 9,52 | | | ○ | ○ | | |
| RNGN 120700 | 7,94 | 12,0 | | ○ | ○ | ○ | | |
| RNGN 120700 E | 7,94 | 12,0 | | | | | | ● |
| RNGN 120700 T6 | 7,94 | 12,0 | | | | | ● | ● |
| for tool holders CRDNN_CE; CRGNR_CE_CEA; TRDNN-F & TRGNR/L-F | | | | | | | | |
| Pour les porte-outils CRDNN_CE; CRGNR_CE_CEA; TRDNN-F & TRGNR/L-F | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

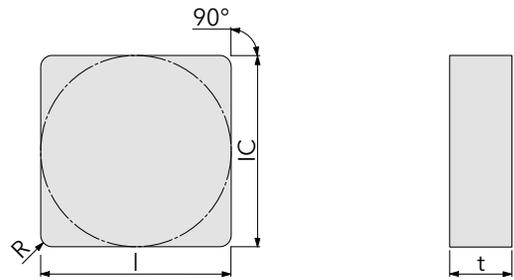
NEGATIVE 90° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 90°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 |
|---|------|------|-----|-----|------|-----------------|--------|------|------|
| SNGA 120408 | 11,9 | 4,76 | 0,8 | 5,2 | 12,7 | | | | |
| SNGA 120412 | 11,5 | 4,76 | 1,2 | 5,2 | 12,7 | | | | |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

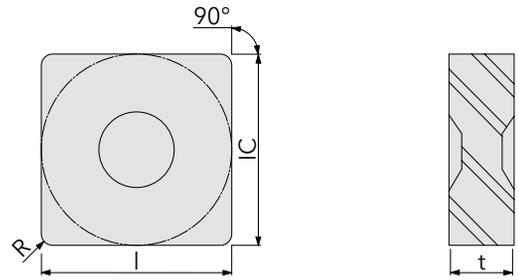
NEGATIVE 90° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 90°



| Designation Réf. de l'article | l | t | R | IC | Grade Nuance | AB2010 | AB20 | AB30 | TC430 | SC10 | AS10 |
|---|------|------|-----|------|-----------------|--------|------|------|-------|------|------|
| SNGN 120404 | 12,3 | 4,76 | 0,4 | 12,7 | | | | | | | |
| SNGN 120408 | 11,9 | 4,76 | 0,8 | 12,7 | | | | | | | |
| SNGN 120408 T6 | 12,3 | 4,76 | 0,8 | 12,7 | | | | | | | |
| SNGN 120412 | 11,5 | 4,76 | 1,2 | 12,7 | | | | | | | |
| SNGN 120412 T6 | 11,9 | 4,76 | 1,2 | 12,7 | | | | | | | |
| SNGN 120416 | 11,1 | 4,76 | 1,6 | 12,7 | | | | | | | |
| SNGN 120708 | 11,9 | 7,94 | 0,8 | 12,7 | | | | | | | |
| SNGN 120708 T6 | 11,9 | 7,94 | 0,8 | 12,7 | | | | | | | |
| SNGN 120712 T6 | 11,5 | 7,94 | 1,2 | 12,7 | | | | | | | |
| SNGN 120716 | 11,1 | 7,94 | 1,6 | 12,7 | | | | | | | |
| for tool holders TSDNN-F; TSKNR/L-F; TSRNR/L-F & TSSNR-F | | | | | | | | | | | |
| Pour les porte-outils TSDNN-F; TSKNR/L-F; TSRNR/L-F & TSSNR-F | | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

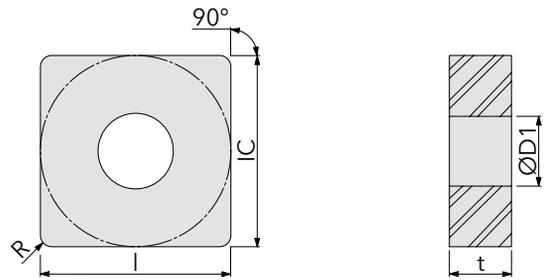
NEGATIVE 90° CERAMIC INSERT, WITH DIMPLE
PLAQUETTES CÉRAMIQUE 90°, AVEC EMPREINTE



| Designation Réf. de l'article | l | t | R | IC | Grade Nuance | AS500 | AS10 |
|----------------------------------|------|------|-----|-------|-----------------|-------|------|
| SNGX 120712 CH | 11,5 | 7,94 | 1,2 | 12,7 | | | ● |
| SNGX 120712 T7-CH | 11,5 | 7,94 | 1,2 | 12,7 | | ● | |
| SNGX 120716 CH | 11,1 | 7,94 | 1,6 | 12,7 | | | ● |
| SNGX 120716 T7-CH | 11,1 | 7,94 | 1,6 | 12,7 | | ● | ● |
| SNGX 150716 T7-CH | 15,0 | 7,94 | 1,6 | 15,88 | | | ● |
| Tool holders on request | | | | | | | |
| - | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

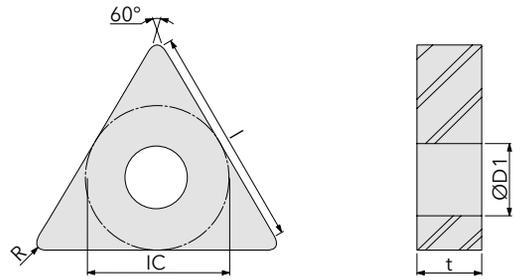
NEGATIVE 90° CERAMIC INSERT, WITH CHIP BREAKER
PLAQUETTES CÉRAMIQUE 90°, AVEC BRISE-COPEAUX



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB30 |
|--|------|------|-----|-----|------|-----------------|------|
| SNMG 120408 CE | 11,9 | 4,76 | 0,8 | 5,2 | 12,7 | | ● |
| for tool holders PSBNR/L & TSKNR/L | | | | | | | |
| Pour les porte-outils PSBNR/L & TSKNR/L | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

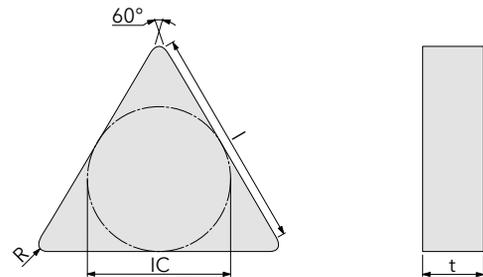
NEGATIVE 60° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 60°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 |
|---|------|------|-----|-----|------|-----------------|--------|------|------|
| TNGA 160404 | 15,5 | 4,76 | 0,4 | 3,8 | 9,52 | | | | |
| TNGA 160408 | 14,5 | 4,76 | 0,8 | 3,8 | 9,52 | | | | |
| for tool holders TTGNR/L & PTGNR/L | | | | | | | | | |
| Pour les porte-outils TTGNR/L & PTGNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

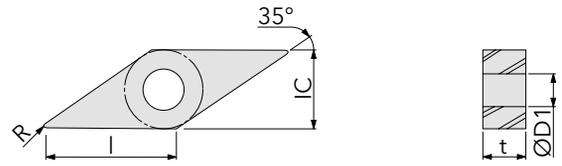
NEGATIVE 60° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 60°



| Designation Réf. de l'article | l | t | R | IC | Grade Nuance | AB20 | AB30 |
|----------------------------------|------|------|-----|------|-----------------|------|------|
| TNGN 160404 | 15,5 | 4,76 | 0,4 | 9,52 | | | |
| TNGN 160408 | 14,5 | 4,76 | 0,8 | 9,52 | | | |
| for tool holders TTJNR-F | | | | | | | |
| Pour les porte-outils TTJNR-F | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

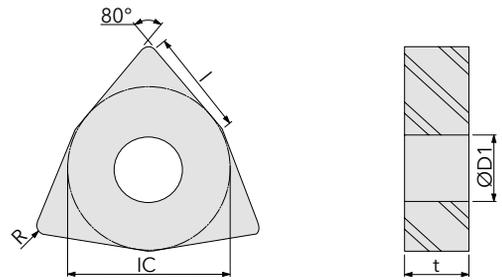
NEGATIVE 35° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 35°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 |
|---------------------------------------|------|------|-----|-----|------|-----------------|--------|------|------|
| VNGA 160404 | 15,5 | 4,76 | 0,4 | 3,8 | 9,52 | | | | |
| VNGA 160408 | 14,5 | 4,76 | 0,8 | 3,8 | 9,52 | | | | |
| for tool holders TVSNR/L & MVVNN | | | | | | | | | |
| Pour les porte-outils TVSNR/L & MVVNN | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

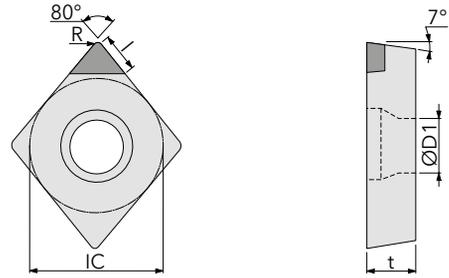
NEGATIVE 80° CERAMIC INSERT
PLAQUETTES CÉRAMIQUE 80°



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | AB2010 | AB20 | AB30 |
|---|-----|------|-----|-----|------|-----------------|--------|------|------|
| WNGA 080408 | 8,3 | 4,76 | 0,8 | 5,2 | 12,7 | | | | |
| for tool holders TWLNR/L & MWLNR/L | | | | | | | | | |
| Pour les porte-outils TWLNR/L & MWLNR/L | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 80° CBN INSERT - 7° CLEARANCE, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 80° - DÉPOUILLE 7°, POUR USINAGE HAUTE VITESSE

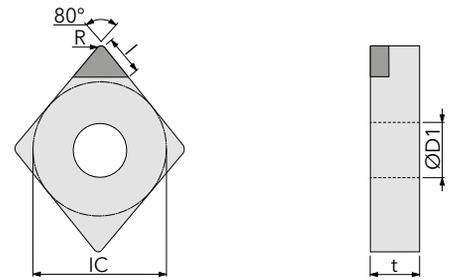


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 |
|----------------------------------|-----|------|-----|-----|------|-----------------|-------|-------|-------|-------|
| CCGW 060202 LS | 2,4 | 2,38 | 0,2 | 2,8 | 6,35 | | | ● | | |
| CCGW 060202 LS2 | 2,2 | 2,38 | 0,2 | 2,8 | 6,35 | | | | ○ | ○ |
| CCGW 060204 LS | 2,4 | 2,38 | 0,4 | 2,8 | 6,35 | | | ● | | |
| CCGW 060204 LS2 | 2,1 | 2,38 | 0,4 | 2,8 | 6,35 | | ○ | | ○ | ○ |
| CCGW 09T304 LS | 2,4 | 3,97 | 0,4 | 4,4 | 9,52 | | | ● | | |
| CCGW 09T304 LS2 | 2,4 | 3,97 | 0,4 | 4,4 | 9,52 | | ○ | | ○ | ○ |
| CCGW 09T308 LS | 2,4 | 3,97 | 0,8 | 4,4 | 9,52 | | | ● | | |
| CCGW 09T308 LS2 | 2,3 | 3,97 | 0,8 | 4,4 | 9,52 | | ○ | | ○ | ○ |
| CCGW 120408 LS2 | 2,1 | 4,76 | 0,8 | 5,5 | 12,7 | | | | | ○ |

LS = 1 CBN blank, LS2 = 2 CBN blanks. For tool holders SCLCR/L & SCACR
LS = 1 insert CBN, LS2 = 2 insert CBN. Pour les porte-outils SCLCR/L & SCACR-SH

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° CBN INSERT, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 80°, POUR USINAGE HAUTE VITESSE

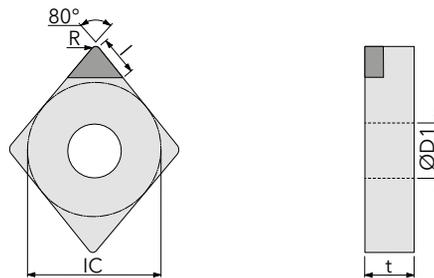
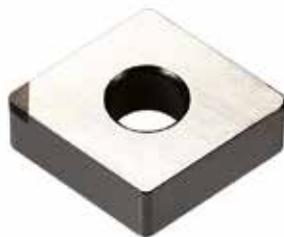


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 | KB90 |
|----------------------------------|-----|------|-----|------|------|-----------------|-------|-------|-------|-------|------|
| CNGA 120404 LS2 | 2,6 | 4,76 | 0,4 | 5,2 | 12,7 | | ○ | ● | ○ | ○ | |
| CNGA 120408 LN | 3,9 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | | ○ | ● |
| CNGA 120408 LS | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | | | ● |
| CNGA 120408 LS2 | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | ○ | ● | ○ | ○ | ● |
| CNGA 120408 LS4 | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | ○ | ○ | ● |
| CNGA 120412 LN | 3,8 | 4,76 | 1,2 | 5,2 | 12,7 | | ○ | ● | | | ● |
| CNGA 120412 LS | 2,5 | 4,76 | 1,2 | 5,16 | 12,7 | | | ● | | | ● |
| CNGA 120412 LS2 | 2,4 | 4,76 | 1,2 | 5,2 | 12,7 | | | | ○ | ○ | ● |

LN/LS = 1 CBN blank, LN2/LS2 = 2 CBN blanks, LS4 = 4 CBN blanks. For tool holders TCLNR/L & PCLNR/L
LN/LS = 1 insert CBN, LN2/LS2 = 2 insert CBN, LS4 = 4 insert CBN. Pour les porte-outils TCLNR/L & PCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° CBN INSERT, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 80°, POUR USINAGE HAUTE VITESSE



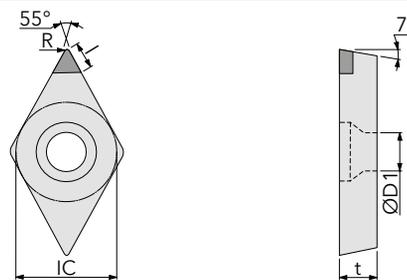
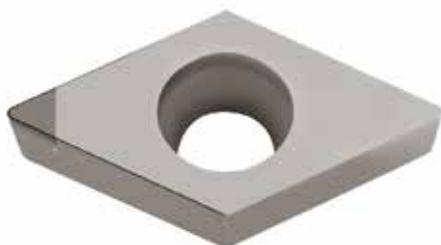
| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 | KB90 |
|----------------------------------|-----|------|-----|------|------|-----------------|-------|-------|-------|-------|------|
| CNGA 120404 LS2 | 2,6 | 4,76 | 0,4 | 5,2 | 12,7 | | ○ | ● | ○ | ○ | |
| CNGA 120408 LN | 3,9 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | | ○ | ● |
| CNGA 120408 LS | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | | | ● |
| CNGA 120408 LS2 | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | ○ | ● | ○ | ○ | ● |
| CNGA 120408 LS4 | 2,5 | 4,76 | 0,8 | 5,2 | 12,7 | | | ● | ○ | ○ | ● |
| CNGA 120412 LN | 3,8 | 4,76 | 1,2 | 5,2 | 12,7 | | ○ | ● | | | ● |
| CNGA 120412 LS | 2,5 | 4,76 | 1,2 | 5,16 | 12,7 | | | ● | | | ● |
| CNGA 120412 LS2 | 2,4 | 4,76 | 1,2 | 5,2 | 12,7 | | | | ○ | ○ | ● |

LN/LS = 1 CBN blank, LN2/LS2 = 2 CBN blanks, LS4 = 4 CBN blanks. For tool holders TCLNR/L & PCLNR/L

LN/LS = 1 insert CBN, LN2/LS2 = 2 insert CBN, LS4 = 4 insert CBN. Pour les porte-outils TCLNR/L & PCLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 55° CBN INSERT - 7° CLEARANCE, FOR HIGH SPEED MACHINING
PLAQUETTES CBN POSITIVES 55° - DÉPOUILLE 7°, POUR USINAGE HAUTE VITESSE



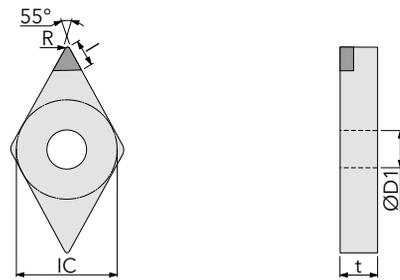
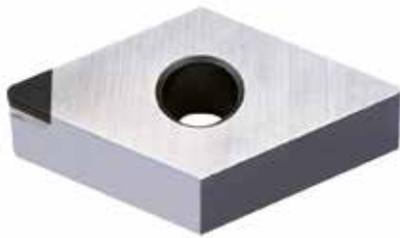
| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 |
|----------------------------------|-----|------|-----|-----|------|-----------------|-------|-------|-------|-------|
| DCGW 070202 LS | 2,6 | 2,38 | 0,2 | 2,8 | 6,35 | | | ● | | |
| DCGW 070202 LS2 | 2,6 | 2,38 | 0,2 | 2,8 | 6,35 | | ○ | ● | ○ | ○ |
| DCGW 070204 LS | 2,4 | 2,38 | 0,4 | 2,8 | 6,35 | | | ● | | |
| DCGW 070204 LS2 | 2,4 | 2,38 | 0,4 | 2,8 | 6,35 | | ○ | ● | ○ | ○ |
| DCGW 11T304 LN | 3,8 | 3,97 | 0,4 | 4,4 | 9,52 | | | ● | | |
| DCGW 11T304 LS | 2,6 | 3,97 | 0,4 | 4,4 | 9,52 | | | ● | | |
| DCGW 11T304 LS2 | 2,6 | 3,97 | 0,4 | 4,4 | 9,52 | | ○ | ● | ○ | ○ |
| DCGW 11T308 LS | 2,2 | 3,97 | 0,8 | 4,4 | 9,52 | | | ● | | |
| DCGW 11T308 LS2 | 2,2 | 3,97 | 0,8 | 4,4 | 9,52 | | ○ | ● | ○ | ○ |

LN/LS = 1 CBN blank, LS2 = 2 CBN blanks. For tool holders SDJCR

LN/LS = 1 insert CBN, LS2 = 2 insert CBN. Pour les porte-outils SDJCR

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 55° CBN INSERT, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 55°, POUR USINAGE HAUTE VITESSE

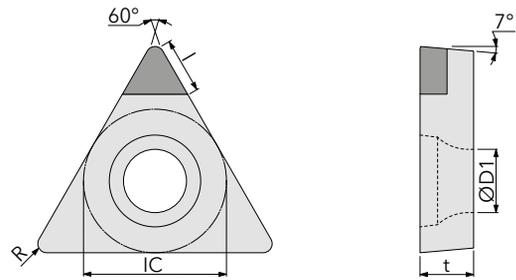
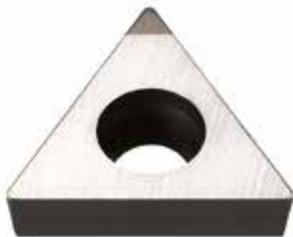


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 | KB90 |
|----------------------------------|-----|------|-----|------|------|-----------------|-------|-------|-------|-------|------|
| DNGA 150604 LN | 4,1 | 6,35 | 0,4 | 5,2 | 12,7 | | | ● | | ○ | ● |
| DNGA 150604 LS | 3,0 | 6,35 | 0,4 | 5,2 | 12,7 | | | ● | | | |
| DNGA 150604 LS2 | 3,0 | 6,35 | 0,4 | 5,2 | 12,7 | | ○ | ● | ○ | ○ | |
| DNGA 150608 LN | 3,8 | 6,35 | 0,8 | 5,2 | 12,7 | | | ● | ○ | ○ | |
| DNGA 150608 LS2 | 2,3 | 6,35 | 0,8 | 5,16 | 12,7 | | ○ | | ○ | ○ | ● |
| DNGA 150612 LS2 | 2,2 | 6,35 | 1,2 | 5,16 | 12,7 | | | | ○ | | |

LN/LS = 1 CBN blank, LS2 = 2 CBN blanks. For tool holders TDJNR/L & PDSNR/L
LN/LS = 1 insert CBN, LS2 = 2 insert CBN. Pour les porte-outils TDJNR/L & PDSNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 60° CBN INSERT - 7° CLEARANCE, FOR HIGH SPEED MACHINING
PLAQUETTES CBN POSITIVES 60° - DÉPOUILLE 7°, POUR USINAGE HAUTE VITESSE

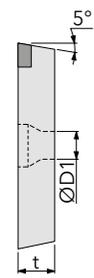
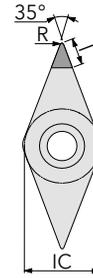


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 |
|----------------------------------|-----|------|-----|-----|------|-----------------|-------|-------|-------|-------|
| TCGW 110204 LS | 2,6 | 2,38 | 0,4 | 2,8 | 6,35 | | | ● | | |
| TCGW 110204 LS3 | 2,3 | 2,38 | 0,4 | 2,8 | 6,35 | | ○ | | ○ | ○ |
| TCGW 110208 LS3 | 2,1 | 2,38 | 0,8 | 2,8 | 6,35 | | | | ○ | ○ |
| TCGW 16T304 LS | 2,8 | 3,97 | 0,4 | 4,4 | 9,52 | | | ● | | |
| TCGW 16T304 LS3 | 2,8 | 3,97 | 0,4 | 4,4 | 9,52 | | | | ○ | ○ |
| TCGW 16T308 LS | 2,5 | 3,97 | 0,8 | 4,4 | 9,52 | | | ● | | |
| TCGW 16T308 LS3 | 2,5 | 3,97 | 0,8 | 4,4 | 9,52 | | ○ | | ○ | ○ |

LS = 1 CBN blank, LS3 = 3 CBN blanks. For tool holders STGCR/L & STFCR/L
LS = 1 insert CBN, LS3 = 3 insert CBN. Pour les porte-outils STGCR/L & STFCR/L

● = P ● = M ● = K ● = N ● = S ○ = H

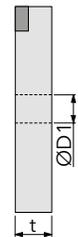
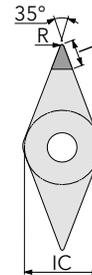
POSITIVE 35° CBN INSERT - 5° CLEARANCE, FOR HIGH SPEED MACHINING
PLAQUETTES CBN POSITIVES 35° - DÉPOUILLE 5°, POUR USINAGE HAUTE VITESSE



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB610 | TB650 | TB670 | TB730 |
|---|-----|------|-----|-----|------|-----------------|-------|-------|-------|-------|
| VBGW 110304 LS2 | 3,2 | 3,18 | 0,4 | 2,8 | 6,35 | | | | ○ | |
| VBGW 160402 LS2 | 3,6 | 4,76 | 0,2 | 4,4 | 9,52 | | | | ○ | |
| VBGW 160404 LS | 3,2 | 4,76 | 0,4 | 4,4 | 9,52 | | | ● | | |
| VBGW 160404 LS2 | 3,2 | 4,76 | 0,4 | 4,4 | 9,52 | | ○ | | ○ | ○ |
| VBGW 160408 LS | 2,6 | 4,76 | 0,8 | 4,4 | 9,52 | | | ● | | |
| VBGW 160408 LS2 | 2,3 | 4,76 | 0,8 | 4,4 | 9,52 | | | | ○ | ○ |
| LN/LS = 1 CBN blank, LS2 = 2 CBN blanks. For tool holders SVJBR/L | | | | | | | | | | |
| LN/LS = 1 insert CBN, LS2 = 2 insert CBN. Pour les porte-outils SVJBR/L | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

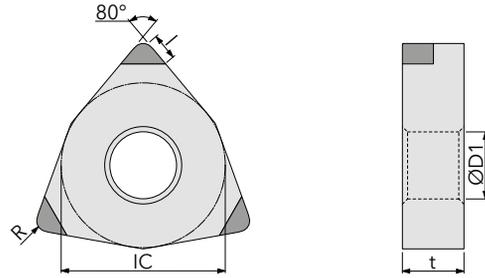
NEGATIVE 35° CBN INSERT, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 35°, POUR USINAGE HAUTE VITESSE



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB650 | TB670 | TB730 | KB90 |
|---|-----|------|-----|------|------|-----------------|-------|-------|-------|------|
| VNGA 160404 LS | 3,2 | 4,76 | 0,4 | 3,8 | 9,52 | | ● | | | ● |
| VNGA 160404 LS2 | 3,2 | 4,76 | 0,4 | 3,81 | 9,52 | | | ○ | ○ | |
| VNGA 160408 LS2 | 2,4 | 4,76 | 0,8 | 3,81 | 9,52 | | | ○ | ○ | |
| VNGA 160408 LS4 | 2,4 | 4,76 | 0,8 | 3,81 | 9,52 | | | | | ● |
| LN/LS = 1 CBN blank, LS2 = 2 CBN blanks, LS4 = 4 CBN blanks. For tool holders TVJNR/L & MVVNN | | | | | | | | | | |
| LN/LS = 1 insert CBN, LS2 = 2 insert CBN, LS4 = 4 insert CBN. Pour les porte-outils TVJNR/L & MVVNN | | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

NEGATIVE 80° CBN INSERT WITH WIPER GEOMETRY, FOR HIGH SPEED MACHINING
PLAQUETTES CBN 80° - GÉOMÉTRIE WIPER, USINAGE À GRANDE VITESSE

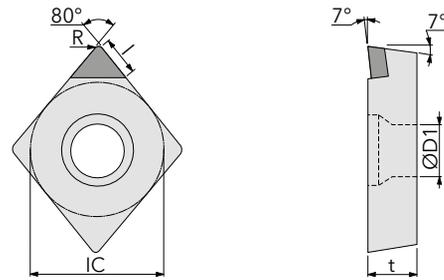
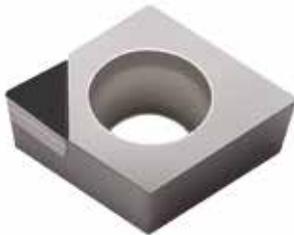


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TB650 | TB670 |
|----------------------------------|-----|------|-----|------|------|-----------------|-------|-------|
| WNGA 080408 WZ-LS3 | 2,1 | 4,76 | 0,8 | 5,16 | 12,7 | | | |
| WNGA 080408 WZ-LS6 | 2,1 | 4,76 | 0,8 | 5,16 | 12,7 | | | |
| WNGA 080412 WZ-LS3 | 2,1 | 4,76 | 1,2 | 5,16 | 12,7 | | | |

WZ-LS3 = 3 CBN blanks, WZ-LS6 = 6 CBN blanks, WZ = Wiper geometry. For tool holders TWLNR/L & MWLNR/L
WZ-LS3 = 3 insert CBN, WZ-LS6 = 6 insert CBN, WZ = Géométrie Wiper. Pour les porte-outils TWLNR/L & MWLNR/L

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 80° PCD INSERT - 7° CLEARANCE, FOR HIGH SPEED MACHINING FOR ALUMINUM
PLAQUETTES AVEC INSERT PCD 7°, POUR USINAGE HAUTE VITESSE ALUMINIUM

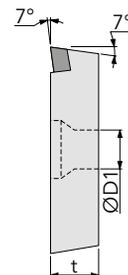
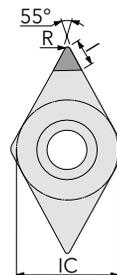
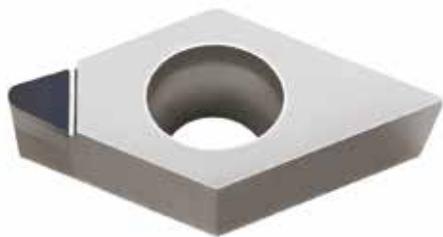


| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TD810 | KP300 |
|----------------------------------|-----|------|-----|-----|------|-----------------|-------|-------|
| CCGW 060202 LN-7 | 3,1 | 2,38 | 0,2 | 2,8 | 6,35 | | | |
| CCGW 060204 LN-7 | 3,1 | 2,38 | 0,4 | 2,8 | 6,35 | | | |
| CCGW 09T304 LN-7 | 4,0 | 3,97 | 0,4 | 4,4 | 9,52 | | | |
| CCGW 120404 LN-7 | 4,0 | 4,76 | 0,4 | 5,5 | 12,7 | | | |
| CCGW 120408 LN-7 | 3,9 | 4,76 | 0,8 | 5,5 | 12,7 | | | |

for tool holders SCLCR/L & SCACR
Pour les porte-outils SCLCR/L & SCACR-SH

● = P ● = M ● = K ● = N ● = S ○ = H

POSITIVE 55° PCD INSERT - 7° CLEARANCE, FOR HIGH SPEED MACHINING FOR ALUMINIUM
PLAQUETTES AVEC INSERT PCD 7°, POUR USINAGE HAUTE VITESSE ALUMINIUM



| Designation Réf. de l'article | l | t | R | ØD1 | IC | Grade Nuance | TD810 | KP300 |
|----------------------------------|-----|------|-----|-----|------|-----------------|-------|-------|
| DCGW 070202 LN-7 | 3,3 | 2,38 | 0,2 | 2,8 | 6,35 | | ● | |
| DCGW 070204 LN-7 | 3,3 | 2,38 | 0,4 | 2,8 | 6,35 | | ● | ● |
| DCGW 11T302 LN-7 | 3,9 | 3,97 | 0,2 | 4,4 | 9,52 | | ● | ● |
| DCGW 11T304 LN-7 | 3,7 | 3,97 | 0,4 | 4,4 | 9,52 | | ● | ● |
| DCGW 11T308 LN-7 | 3,3 | 3,97 | 0,8 | 4,4 | 9,52 | | ● | ● |
| for tool holders SDJCR | | | | | | | | |
| Pour les porte-outils SDJCR | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H





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|  | RHINO TURN HCLNR/L-RS 0904 |  | CN_ | 222 |
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|  | RHINO TURN TCLNR/L 0904 |  | CN_ | 224 |
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|  | RHINO TURN HDNNR/L 1305 |  | DN_ | 226 |
|  | RHINO TURN HDQNR/L 1305 |  | DN_ | 226 |
|  | RHINO TURN SDJNR-RS |  | DN_G | 227 |
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|  | RHINO TURN TDJNR/L 1305 |  | DN_ | 228 |
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|  | RHINO TURN TDNNR/L 1305 |  | DN_ | 229 |
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|  | RHINO TURN WTENN 1304 |  TN_ | 233 |
|  | RHINO TURN WTGNR/L 1304 |  TN_ | 234 |
|  | RHINO TURN WTJNR/L 1304 |  TN_ | 234 |
|  | RHINO TURN HWLNR/L 0604 |  WNMX | 235 |
|  | RHINO TURN TWLNR/L 0604 |  WNMX | 235 |
|  | COOLBURST TWLNR/L 0604-TB |  WNMX | 236 |
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|  | COOLBURST SVJNR-RS-TB |  VN_X | 238 |
|  | COOLBURST TVJNR/L 1304-TB |  VN_X | 239 |
|  | RHINO TURN TVQNR/L 1304 |  VN_X | 239 |
|  | RHINO TURN C-HCLNR/L 0904 |  CN_ | 240 |
|  | RHINO TURN C-HDJNR/L 1305 |  DN_ | 240 |
|  | RHINO TURN C-HSSNR/L 0904 |  SN_ | 241 |
|  | RHINO TURN C-HTGNR/L 1304 |  TN_ | 241 |
|  | RHINO TURN C-HTJNR/L 1304 |  TN_ | 242 |
|  | RHINO TURN S-WTFNR/L 1304 |  TN_ | 242 |
|  | RHINO TURN A-HCLNR/L 0904 |  CN_ | 243 |
|  | RHINO TURN A-TCLNR/L 0904 |  CN_ | 244 |
|  | COOLBURST A-TCLNR/L 0904-TB |  CN_ | 244 |

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|  | RHINO TURN A-HDZNR/L 1305 |  | DN_ | 246 |
|  | RHINO TURN A-TDUNR/L 1305 |  | DN_ | 246 |
|  | RHINO TURN A-TSKNR/L 0904 |  | SN_ | 247 |
|  | RHINO TURN A-HTFNR/L 1304 |  | TN_ | 248 |
|  | RHINO TURN A-STFNR/L 1304 |  | TN_ | 249 |
|  | RHINO TURN A-HTUNR/L 1304 |  | TN_ | 250 |
|  | RHINO TURN A-STUNR/L 1304 |  | TN_ | 251 |
|  | RHINO TURN A-SVLNR/L 1304 |  | VN_X | 251 |
|  | RHINO TURN A-SVPNR/L 1304 |  | VN_X | 252 |
|  | RHINO TURN A-HWLNLR/L 0604 |  | WNMX | 253 |
|  | RHINO TURN A-SWLNLR/L 0604 |  | WNMX | 254 |
|  | RHINO TURN A-TWLNLR/L 0604 |  | WNMX | 254 |

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|  | COOLBURST TMS-SDUNL-TB |  | DN_G | 255 |
|  | RHINO TURN SCLNR/L 0704 |  | CNMX_ | 256 |
|  | RHINO TURN SCLNR-RS 0704 |  | CNMX_ | 256 |
|  | RHINO TURN SDJNR/L 0803 |  | DN_X | 257 |
|  | RHINO TURN SDJNR-RS 0803 |  | DN_X | 257 |
|  | RHINO TURN SWLNR/L 0403 |  | WNMX | 258 |
|  | RHINO TURN SWLNR-RS 0403 |  | WNMX | 258 |
|  | RHINO TURN A-SCLNR/L 0703 |  | CNMX_ | 259 |
|  | RHINO TURN A-SDUNR/L 0803 |  | DN_X | 259 |
|  | RHINO TURN A-SWLNR/L 0403 |  | WNMX | 260 |
|  | RHINO TURN TXJNR/L 0904_/1105_ |  | XNM_ | 261 |
|  | COOLBURST TXJNR/L 0904/1105-TB |  | XNM_ | 262 |
|  | RHINO TURN TXQR/L 0904_/1105_ |  | XNM_ | 263 |

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|  | RHINO TURN[®] A-SXQNR/L 0904_/1105_ |  | XNM_ | 264 |
|  | RHINO TURN[®] A-SXUNR/L 1105_ |  | XNM_ | 265 |
|  | RHINO TURN[®] A-TXQNR/L 1105_ |  | XNM_ | 265 |
|  | RHINO TURN[®] A-TXUNR/L 1105_ |  | XNM_ | 266 |
|  | MULTI TURN LVJBR/L |  | VBMX_ | 266 |
|  | MULTI TURN LVJBR/L-SH |  | VBMX_ | 267 |
|  | TURN SPEED[®] SFXCN |  | FCMX | 267 |
|  | MINI TURN BCLCR/L-SH |  | CC_ | 268 |
|  | MINI TURN SCACR/L-SH |  | CC_ | 268 |
|  | MINI TURN SCLCR-SH |  | CC_ | 269 |
|  | MINI TURN SCLCR/L-SH_TB |  | CC_ | 269 |
|  | MINI TURN BDJCR/L-SH |  | DC_ | 270 |
|  | MINI TURN BDNCN-SH |  | DC_ | 270 |

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|  | MINI TURN SDJCR/L-SH |  | DC_ | 271 |
|  | MINI TURN SDJCR/L-SH_TB |  | DC_ | 271 |
|  | MINI TURN SDNCN-SH |  | DC_ | 272 |
|  | MINI TURN SDNCN-SH_TB |  | DC_ | 272 |
|  | MINI TURN BVJBR/L-SH |  | VB_ | 273 |
|  | MINI TURN SVJBR/L-SH |  | VB_ | 273 |
|  | MINI TURN SVJBR/L-SH_TB |  | VB_ | 274 |
|  | MINI TURN SVVBN-SH |  | VB_ | 274 |
|  | MINI TURN SVVBN-SH_TB |  | VB_ | 275 |
|  | MINI TURN BVJCR/L-SH |  | VC_ | 275 |
|  | MINI TURN SVJCR/L-SH_TB |  | VC_ | 276 |
|  | MINI TURN STGCR-SH_TB |  | TC_ | 276 |
|  | MINI TURN TMB-SVXCR |  | BTVC | 277 |
|  | MINI TURN TMB-SVXCR-TB |  | BTVC | 277 |

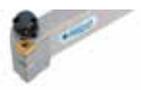
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|  | MINI TURN S-SCLCR/L-D |  | CC_ | 278 |
|  | MINI TURN C-SCLCR/L-D |  | CC_ | 278 |
|  | MINI TURN S-STUBR/L-D |  | TB_ | 279 |
|  | MINI TURN C-STUBR/L-D |  | TB_ | 279 |
|  | MINI TURN S-SVJCR/L-D |  | VC_ | 280 |
|  | MINI TURN S-SVPCR/L-D |  | VC_ | 280 |
|  | MINI TURN S-SVUCR/L-D |  | VC_ | 281 |
|  | MINI TURN S-SWUBR/L-D |  | WB_ | 281 |
|  | MINI TURN C-SWUBR/L-D |  | WB_ | 282 |
|  | WIN TURN TTQNR/L |  | TN_ | 282 |
|  | WIN TURN TTQNR/L-TB |  | TN_ | 283 |
|  | SUPER TURN TZQNR/L |  | ZNMV | 283 |
|  | SUPER TURN TZQNR/L-TB |  | ZNMV | 284 |
|  | SUPER TURN TZXNN |  | ZNMVY | 284 |

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|  |  SUPERTURN[®] TZXNN -TB |  | ZNMV-Y | 285 |
|  |  TURN CKJNR/L |  | KNUX_ | 286 |
|  |  TURN PCBNR/L |  | CN_ | 287 |
|  |  TFORCE PCBNR/L-D |  | CN_ | 287 |
|  |  TURN PCLNR/L |  | CN_ | 288 |
|  |  TBURST PCLNR/L-TB |  | CN_ | 289 |
|  |  TBURST PCLNR/L-IHP |  | CN_ | 289 |
|  |  TFORCE PCLNR/L-D |  | CN_ | 290 |
|  |  TURN PDJNR/L |  | DN_ | 291 |
| |  TBURST PDJNR/L-IHP |  | DN_ | 292 |
| |  TURN PDNNR/L |  | DN_ | 292 |
| |  TURN PRDCN |  | RC_X_ | 293 |
| |  TURN PRGCR/L |  | RC_X_ | 294 |
| |  TURN PRGNR/L |  | RNMG_ | 295 |

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|  | TTURN PSBNR/L |  SN_ | 295 |
|  | TFORCE PSBNR/L-D |  SN_ | 296 |
|  | TTURN PSDNN |  SN_ | 296 |
|  | TFORCE PSDNN-D |  SN_ | 297 |
|  | TTURN PSKNR/L |  SN_ | 297 |
|  | TFORCE PSKNR/L-D |  SN_ | 298 |
|  | TTURN PSSNR/L |  SN_ | 298 |
|  | TTURN PTGNR/L |  TN_ | 299 |
|  | TBURST PWLNR/L-TB |  WN_ | 300 |
|  | TBURST PWLNR/L-IHP |  WN_ | 300 |
|  | TFCED HBXNR/L |  BNMX_ | 301 |
|  | TTURN TCBNR/L |  CN_ | 301 |
|  | TTURN TCLNR/L |  CN_ | 302 |
|  | TTURN TDJNR/L |  DN_ | 303 |

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|  | TURN THSNR/L |  | HN_ | 303 |
|  | TURN TSKNR/L |  | SN_ | 304 |
|  | TURN TSSNR/L |  | SN_ | 304 |
|  | TURN TSDNN |  | SN_ | 305 |
|  | TURN TTGNR/L |  | TN_ | 305 |
|  | TURN TTJNR/L |  | TN_ | 306 |
|  | TURN TWLNR/L |  | WN_ | 306 |
|  | TURN TVJNR/L |  | VN_ | 307 |
|  | TURN WTENN |  | TN_ | 307 |
|  | TURN WTGnr/L |  | TN_ | 308 |
|  | TURN WTJnr/L |  | TN_ | 308 |
|  | TURN SCLCR/L |  | CC_ | 309 |
|  | BURST SCLCR/L-IHP |  | CC_ | 310 |
|  | TURN SDJCR/L |  | DC_ | 311 |

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|  | TBURST SDJCR/L-IHP |  | DC_ | 312 |
|  | TURN SDNCN |  | DC_ | 312 |
|  | TURN SRDCN |  | RC_ | 313 |
|  | TURN SRGCR/L |  | RC_ | 313 |
|  | TURN SSSCR/L |  | SC_ | 314 |
|  | TURN SSDCN |  | SC_ | 314 |
|  | TURN STFCL/L |  | TC_ | 315 |
|  | TURN STGCR/L |  | TC_ | 315 |
|  | TURN SVJBR/L |  | VB_ | 316 |
|  | TBURST SVJBR/L-TB |  | VB_ | 316 |
|  | TURN SVJCR/L |  | VC_ | 317 |
|  | TBURST SVJCR/L-IHP |  | VC_ | 317 |
|  | TURN SVJNR/L |  | VN_ | 318 |
|  | TURN SVVBN |  | VB_ | 318 |

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|  | TTURN SVVCN |  VC_ | 319 |
|  | COMBICLAMP TCLNR/L-F |  CN_N_ | 319 |
|  | COMBICLAMP TRGNR/L-F |  RN_N_ | 320 |
|  | COMBICLAMP TRDNN-F |  SN_N_ | 320 |
|  | COMBICLAMP TSRNR/L-F |  SN_N_ | 321 |
|  | COMBICLAMP TSSNR-F |  SN_N_ | 321 |
|  | COMBICLAMP TTJNR-F |  TN_N | 322 |
|  | TTURN S-PCLNR/L |  CN_ | 323 |
|  | TTURN S-SCLCR/L |  CC_ | 324 |
|  | TTURN S-SCLPR/L |  CP_ | 325 |
|  | TTURN S-SDQCR/L |  DC_ | 325 |
|  | TTURN S-SDUCR/L |  DC_ | 326 |
|  | TTURN S-SDZCR/L |  DC_ | 327 |
|  | TTURN S-SSKCR/L |  SC_ | 327 |

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|  | TTURN S-STFCR/L |  TC_ | 328 |
|  | TTURN S-STFPR/L |  TP_ | 329 |
|  | TTURN S-SVQBR/L |  VB_ | 329 |
|  | TTURN S-SVQCR/L |  VC_ | 330 |
|  | TTURN S-SVUBR/L |  VB_ | 330 |
|  | TTURN S-SVUCR/L |  VC_ | 331 |
|  | TTURN S-PDUNR/L |  DN_ | 331 |
|  | TTURN S-PDZNR/L |  DN_ | 332 |
|  | TTURN S-PTFNR/L |  TN_ | 333 |
|  | TTURN S-CKUNR/L |  KNUX_ | 334 |
|  | TTURN A-SDLNR/L |  DN_ | 334 |
|  | TTURN A-SDQNR/L |  DN_ | 335 |
|  | TTURN A-SDUNR/L |  DN_ | 335 |
|  | TTURN A-SVLNR/L |  VN_ | 336 |

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|  | TTURN A-SVNR |  | VN_ | 336 |
|  | GOLDDUTY A-HCLNR/L |  | CNMX_ | 337 |
|  | TTURN A-TCLNR/L |  | CN_ | 338 |
|  | TTURN A-TDUNR/L |  | DN_ | 339 |
|  | TTURN A-TWLNLR/L |  | WN_ | 340 |
|  | TTURN C-SCLCR/L |  | CC_ | 341 |
|  | TTURN C-STFCR/L |  | TC_ | 342 |
|  | TTURN C-STFPR |  | TP_ | 342 |
|  | TABSORBER DTA-7D / 10D (Apation) DTA-7D / 10D (barres antivibratoires) | | | 343 |
|  | TABSORBER DTC-SCLCR/L 0602_/09T3_/1204_ |  | CC_T_ | 344 |
|  | TABSORBER DTC-SDUCR/L 0702_/11T3_ |  | DC_T_ | 344 |
|  | TABSORBER DTC-SVUBR/L 1103_/1604_ |  | VB_T_ | 345 |
|  | TABSORBER DTC-SVLCR/L |  | VC_ | 345 |
|  | TABSORBER DTC-SVUCR/L |  | VC_ | 346 |

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|---|---|---|--------------|------|
|  | TA ABSORBER DTC-DDUNR/L |  | DN_ | 346 |
|  | TA ABSORBER DTC-DVUNR/L |  | VN_ | 347 |
|  | TA ABSORBER DTC-HDUNR/L 1305_ |  | DN_G | 347 |
|  | TA ABSORBER DTC-HVUNR/L 1304_ |  | VN_X | 348 |
|  | TA ABSORBER DTC-SCLNR/L 0703_ |  | CNMX_ | 348 |
|  | TA ABSORBER DTC-SDUNR/L 0803_/1305_ |  | DN_ | 349 |
|  | TA ABSORBER DTC-SWLNR/L 0403_ |  | WNMX | 349 |
|  | TA ABSORBER DTC-SXUNR/L 0904_/1105_ |  | XNMG | 350 |
|  | FLEXTURN QE1 SDJCR |  | DC_ | 350 |
|  | FLEXTURN QE1 SDJCR-TB |  | DC_ | 351 |
|  | FLEXTURN QE1 SDJNR |  | DN_X | 351 |
|  | FLEXTURN QE1 SDJNR-TB |  | DN_X | 352 |
|  | FLEXTURN QE1 SVJBR |  | VB_ | 352 |
|  | FLEXTURN QE1 SVJBR-TB |  | VB_ | 353 |

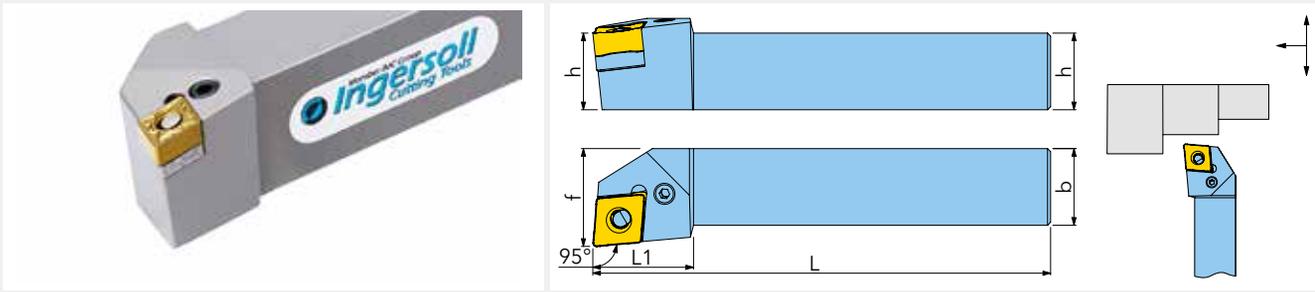
Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

TURNING HOLDER / PORTE-OUTILS DE TOURNAGE

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|  | FLEXTURN QE1 SVJCR |  VC_ | 353 |
|  | FLEXTURN QE1 SVJCR-TB |  VC_ | 354 |
|  | FLEXTURN QE1B SVXCR |  BTVC | 354 |
|  | FLEXTURN QE1B SVXCR-TB |  BTVC | 355 |
|  | FLEXTURN QE1Y SDJCR |  DC_ | 355 |
|  | FLEXTURN QE1Y SDJCR-TB |  DC_ | 356 |
|  | FLEXTURN QE1 S12N-TB | | 356 |
|  | FLEXTURN QE1 S16R/L-TB | | 357 |
|  | TABSORBER DTC-D80-SDUCR/L |  DC_T_ | 357 |
|  | TABSORBER DTC-D80-SVLCR/L |  VC_T_ | 358 |
|  | TABSORBER DTC-D80-2020-VH | - | 358 |
|  | TABSORBER DTA-D80-7D / 10D | - | 359 |
|  | TMODULAR DTC-TZXNN-TB |  ZNMV | 359 |
|  | TMODULAR DTC-TTXNN-TB |  TN_ | 360 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

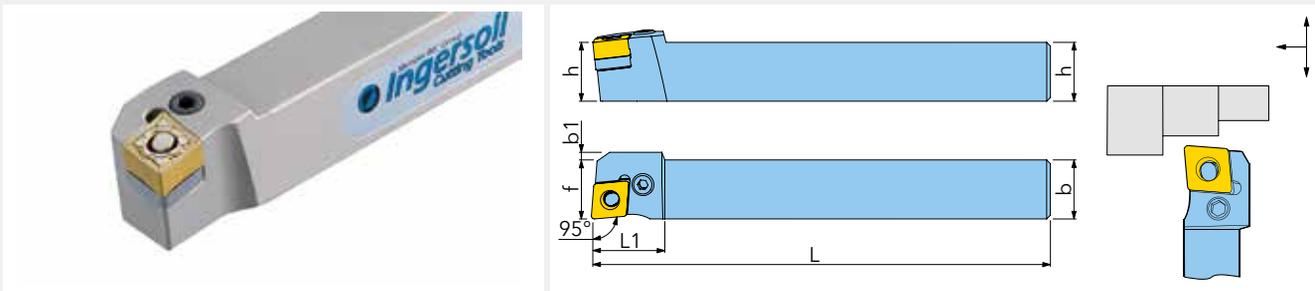
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_0904_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-----------|-------|---------|--------|--------|
| HCLNL 1616 H0904 | 100 | 22 | 20 | 95° | 16 | 16 | 0,200 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNL 2020 H0904 | 100 | 22 | 25 | 95° | 20 | 20 | 0,310 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNL 2020 K0904 | 125 | 22 | 25 | 95° | 20 | 20 | 0,390 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNL 2525 M0904 | 150 | 22 | 32 | 95° | 25 | 25 | 0,725 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNR 1616 H0904 | 100 | 22 | 20 | 95° | 16 | 16 | 0,200 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNR 2020 H0904 | 100 | 22 | 25 | 95° | 20 | 20 | 0,310 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNR 2020 K0904 | 125 | 22 | 25 | 95° | 20 | 20 | 0,390 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |
| HCLNR 2525 M0904 | 150 | 22 | 32 | 95° | 25 | 25 | 0,725 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_0904_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°

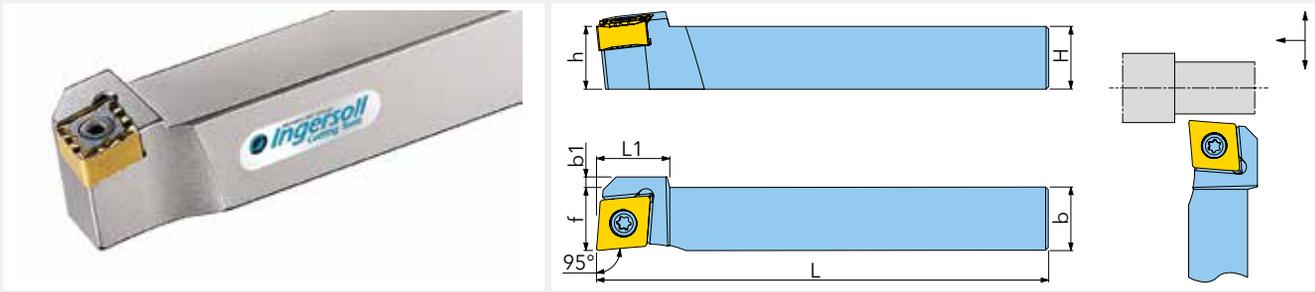


| Designation Réf. de l'article | L | L1 | f | κ | h | b | b1 | kg |
|----------------------------------|-----|----|----|-----|----|----|----|-------|
| HCLNL 1212 K0904-RS | 125 | 18 | 12 | 95° | 12 | 12 | 2 | 0,135 |
| HCLNL 1616 K0904-RS | 125 | 20 | 16 | 95° | 16 | 16 | - | 0,240 |
| HCLNR 1212 K0904-RS | 125 | 18 | 12 | 95° | 12 | 12 | 2 | 0,140 |
| HCLNR 1616 K0904-RS | 125 | 20 | 16 | 95° | 16 | 16 | - | 0,240 |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|------------|--------|---------|--------|--------|--------|
| HCLNL 1212 K0904-RS | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | LW 2 |
| HCLNL 1616 K0904-RS | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | - | LW 2.5 |
| HCLNR 1212 K0904-RS | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | LW 2 |
| HCLNR 1616 K0904-RS | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32A | LSP 3A | - | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Snap ring / Circlip ⑥ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEAGTIVE 80° CN_0904_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°

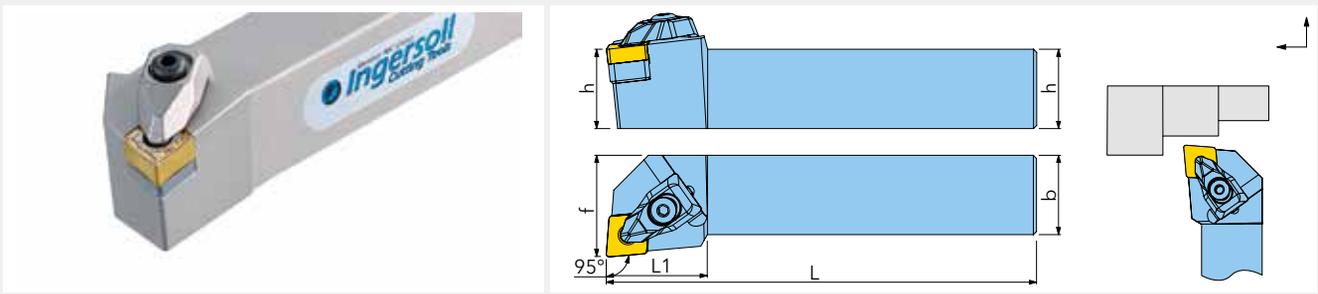


| Designation Réf. de l'article | L | L1 | H | f | h | b | b1 | kg |  |  |  |
|----------------------------------|-----|----|----|----|----|----|----|-------|---|---|---|
| SCLNR 1212 K0904-RS | 125 | 14 | 12 | 12 | 12 | 12 | 2 | 0,165 | CN_G0904_ | TS 35083/HG | T10 |
| SCLNR 1616 K0904-RS | 125 | 14 | 16 | 16 | 16 | 16 | - | 0,270 | CN_G0904_ | TS 35083/HG | T10 |
| SCLNR 2020 K0904-RS | 125 | 14 | 20 | 20 | 20 | 20 | - | 0,410 | CN_G0904_ | TS 35083/HG | T10 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° CN_0904_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|----|-----|----|----|-------|
| TCLNL 2020 H0904 | 100 | 25 | 25 | 95° | 20 | 20 | 0,315 |
| TCLNL 2020 K0904 | 125 | 25 | 25 | 95° | 20 | 20 | 0,395 |
| TCLNL 2525 M0904 | 150 | 25 | 32 | 95° | 25 | 25 | 0,730 |
| TCLNR 2020 H0904 | 100 | 25 | 25 | 95° | 20 | 20 | 0,320 |
| TCLNR 2020 K0904 | 125 | 25 | 25 | 95° | 20 | 20 | 0,395 |
| TCLNR 2525 M0904 | 150 | 25 | 32 | 95° | 25 | 25 | 0,730 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|----------|-------|---------|-----------|-------|--------|------|
| TCLNL 2020 H0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |
| TCLNL 2020 K0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |
| TCLNL 2525 M0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |
| TCLNR 2020 H0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |
| TCLNR 2020 K0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |
| TCLNR 2525 M0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32A | SO 40085I | DSP 3 | LW 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 80° CN_0904_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T" AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°

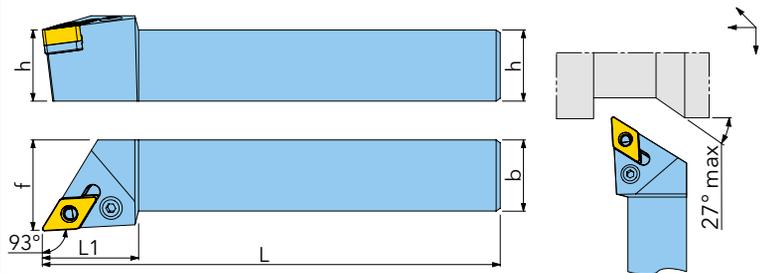


| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|----|------|----|
| TCLNL 2020 K0904-TB | 125 | 28 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TCLNL 2525 M0904-TB | 150 | 28 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TCLNR 2020 K0904-TB | 125 | 28 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TCLNR 2525 M0904-TB | 150 | 28 | 32 | 25 | 7 | 25 | 0,85 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|----------|-------------|-----------------|-------|--------------------|--------------------|---------|-----------|---------|
| TCLNL 2020 K0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32A | SO 400851 | WS-0060 |
| TCLNL 2525 M0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32A | SO 400851 | WS-0060 |
| TCLNR 2020 K0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32A | SO 400851 | WS-0060 |
| TCLNR 2525 M0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32A | SO 400851 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection ⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_1305_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



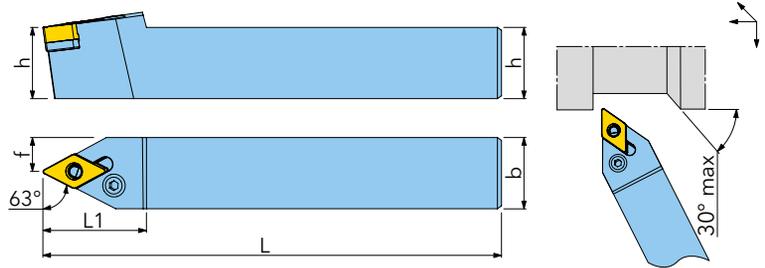
| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-----------|-------|----------|-------|---------|
| HDJNL 2020 H1305 | 100 | 34 | 25 | 93° | 20 | 20 | 0,300 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDJNL 2020 K1305 | 125 | 34 | 25 | 93° | 20 | 20 | 0,380 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDJNL 2525 M1305 | 150 | 34 | 32 | 93° | 25 | 25 | 0,705 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDJNR 2020 H1305 | 100 | 34 | 25 | 93° | 20 | 20 | 0,300 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDJNR 2020 K1305 | 125 | 34 | 25 | 93° | 20 | 20 | 0,375 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDJNR 2525 M1305 | 150 | 34 | 32 | 93° | 25 | 25 | 0,705 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

RHINOTURN HDNNR/L 1305

HDNNR/L 1305

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_1305_ INSERTS
 PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



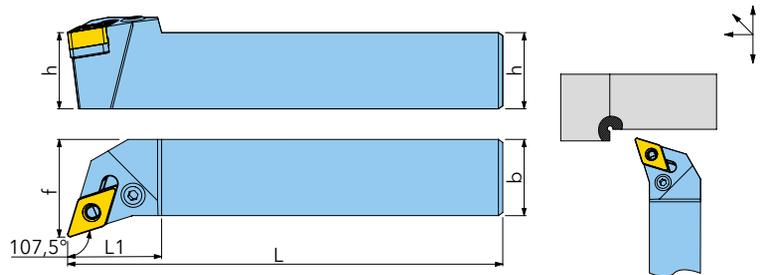
| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|----|-----|----|----|-------|----------|-----------|-------|----------|-------|---------|
| HDNNL 2020 K1305 | 125 | 36,5 | 10 | 63° | 20 | 20 | 0,355 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDNNL 2525 M1305 | 150 | 36,5 | 12 | 63° | 25 | 25 | 0,665 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDNNR 2020 K1305 | 125 | 36,5 | 10 | 63° | 20 | 20 | 0,355 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDNNR 2525 M1305 | 150 | 36,5 | 12 | 63° | 25 | 25 | 0,660 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

RHINOTURN HDQNR/L 1305

HDQNR/L 1305

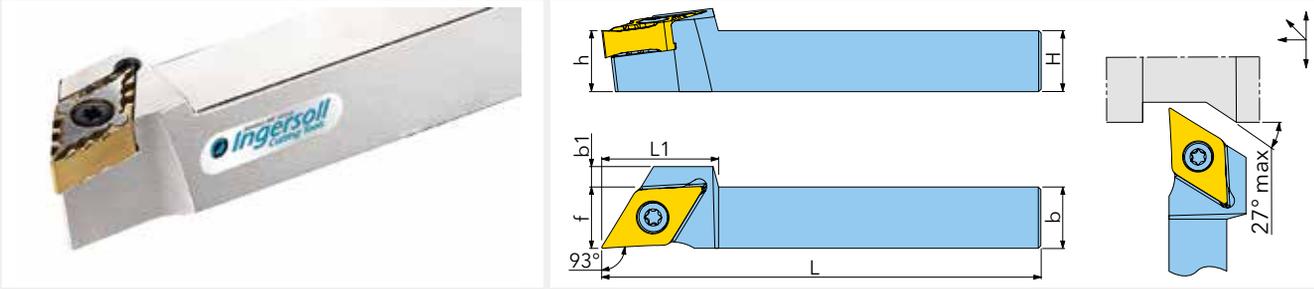
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_1305_ INSERTS
 PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|----|----|-------|----------|-----------|-------|----------|-------|---------|
| HDQNL 2020 K1305 | 125 | 31 | 25 | 20 | 20 | 0,375 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDQNL 2525 M1305 | 150 | 31 | 32 | 25 | 25 | 0,700 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDQNR 2020 K1305 | 125 | 31 | 25 | 20 | 20 | 0,375 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |
| HDQNR 2525 M1305 | 150 | 31 | 32 | 25 | 25 | 0,700 | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

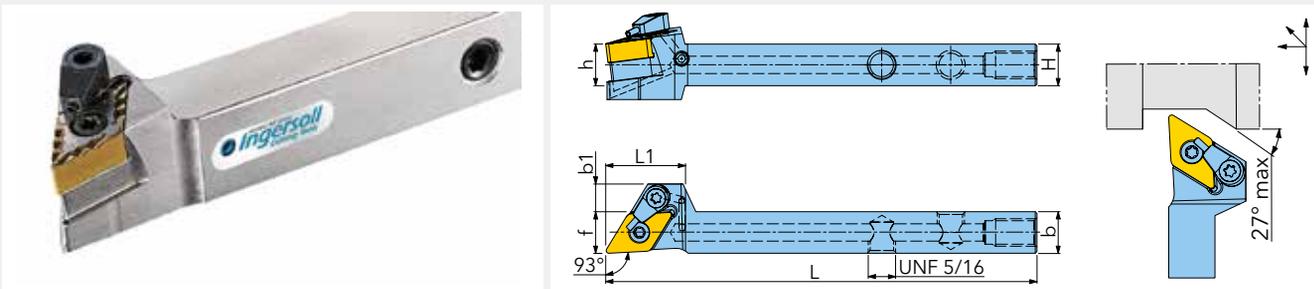
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 55° DN_ 1305_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | H | f | h | b | b1 | kg | | | |
|----------------------------------|-----|----|----|----|----|----|----|-------|------------|------------|-----|
| SDJNR 1212 K1305-RS | 125 | 23 | 12 | 12 | 12 | 12 | 4 | 0,165 | DN_G 1305_ | TS 40G110I | T15 |
| SDJNR 1616 K1305-RS | 125 | 23 | 16 | 16 | 16 | 16 | - | 0,270 | DN_G 1305_ | TS 40G110I | T15 |
| SDJNR 2020 K1305-RS | 125 | 23 | 20 | 20 | 20 | 20 | - | 0,400 | DN_G 1305_ | TS 40G110I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ 1305_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°

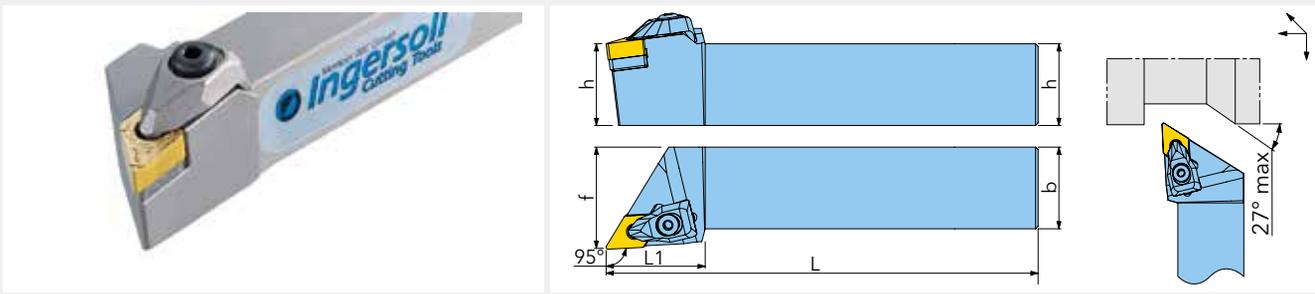


| Designation Réf. de l'article | L | L1 | H | f | h | b | b1 | kg | |
|----------------------------------|-----|----|----|----|----|----|----|-------|---|
| SDJNR 1212 K1305-RS-TB | 125 | 23 | 12 | 12 | 12 | 12 | 8 | 0,175 | ✓ |
| SDJNR 1616 K1305-RS-TB | 125 | 23 | 16 | 16 | 16 | 16 | 4 | 0,270 | ✓ |

| Designation Réf. de l'article | | | | | | |
|----------------------------------|------------|------------|-----|---------|--------------|----------|
| SDJNR 1212 K1305-RS-TB | DN_G 1305_ | TS 40G110I | T15 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |
| SDJNR 1616 K1305-RS-TB | DN_G 1305_ | TS 40G110I | T15 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage ④ = Plug / Tube ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 55° DN_ 1305_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°

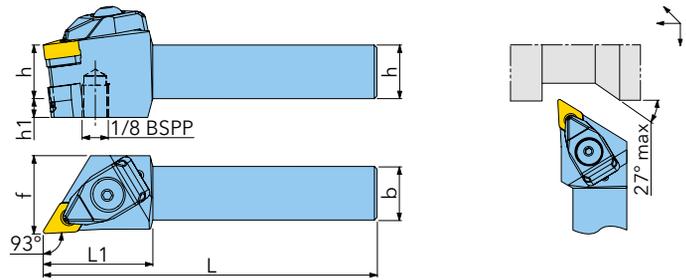


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|----|-----|----|----|-------|
| TDJNL 2020 H1305 | 100 | 33 | 25 | 93° | 20 | 20 | 0,340 |
| TDJNL 2020 K1305 | 125 | 33 | 25 | 93° | 20 | 20 | 0,385 |
| TDJNL 2525 M1305 | 150 | 36 | 32 | 93° | 25 | 25 | 0,715 |
| TDJNR 2020 H1305 | 100 | 33 | 25 | 93° | 20 | 20 | 0,340 |
| TDJNR 2020 K1305 | 125 | 33 | 25 | 93° | 20 | 20 | 0,385 |
| TDJNR 2525 M1305 | 150 | 36 | 32 | 93° | 25 | 25 | 0,710 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|------------|-------|----------|-----------|-------|---------|-----|
| TDJNL 2020 H1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDJNL 2020 K1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDJNL 2525 M1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDJNR 2020 H1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDJNR 2020 K1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDJNR 2525 M1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 55° DN_ 1305_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE TYPE "T" AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°

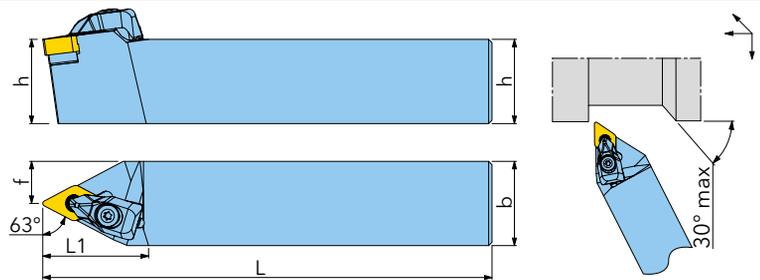


| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|----|------|----|
| TDJNL 2020 K1305-TB | 125 | 41 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TDJNL 2525 M1305-TB | 150 | 41 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TDJNR 2020 K1305-TB | 125 | 41 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TDJNR 2525 M1305-TB | 150 | 41 | 32 | 25 | 7 | 25 | 0,85 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-----------|---------------|--------------------|-------|--------------------|--------------------|----------|--------------|---------|
| TDJNL 2020 K1305-TB | DN_ 1305_ | DLM 3.5-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | LSD 3.52 | SO 50090I-MO | WS-0060 |
| TDJNL 2525 M1305-TB | DN_ 1305_ | DLM 3.5-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | LSD 3.52 | SO 50090I | WS-0060 |
| TDJNR 2020 K1305-TB | DN_ 1305_ | DLM 3.5-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | LSD 3.52 | SO 50090I-MO | WS-0060 |
| TDJNR 2525 M1305-TB | DN_ 1305_ | DLM 3.5-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | LSD 3.52 | SO 50090I | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection ⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 55° DN_ 1305_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|------|-----|----|----|-------|
| TDNNL 2020 K1305 | 125 | 34 | 10 | 63° | 20 | 20 | 0,365 |
| TDNNL 2525 M1305 | 150 | 34 | 12,5 | 63° | 25 | 25 | 0,670 |
| TDNNR 2020 K1305 | 125 | 34 | 10 | 63° | 20 | 20 | 0,365 |
| TDNNR 2525 M1305 | 150 | 34 | 12,5 | 63° | 25 | 25 | 0,670 |

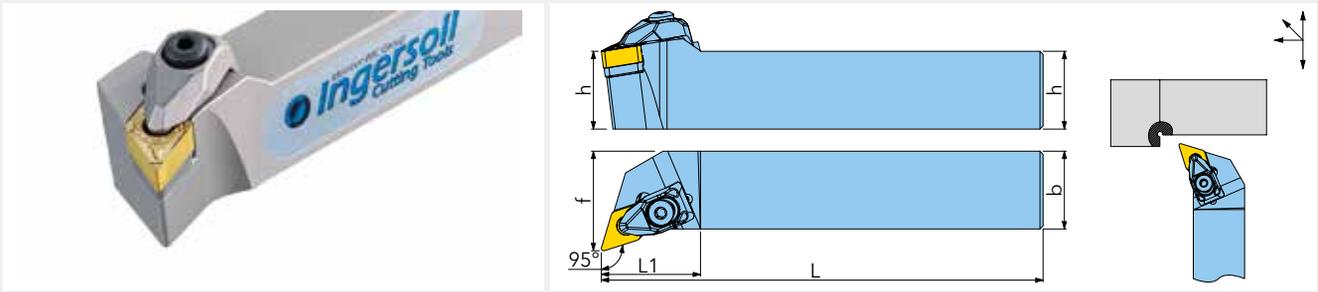
| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|-----------|------------|-------|----------|-----------|-------|---------|-----|
| TDNNL 2020 K1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDNNL 2525 M1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDNNR 2020 K1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDNNR 2525 M1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

RHINOTURN TDQNR/L 1305

TDQNR/L 1305

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 55° DN_1305_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | h | b | kg |
|----------------------------------|-----|----|----|----|----|-------|
| TDQNL 2020 K1305 | 125 | 32 | 25 | 20 | 20 | 0,385 |
| TDQNL 2525 M1305 | 150 | 32 | 32 | 25 | 25 | 0,710 |
| TDQNR 2020 K1305 | 125 | 32 | 25 | 20 | 20 | 0,385 |
| TDQNR 2525 M1305 | 150 | 32 | 32 | 25 | 25 | 0,710 |

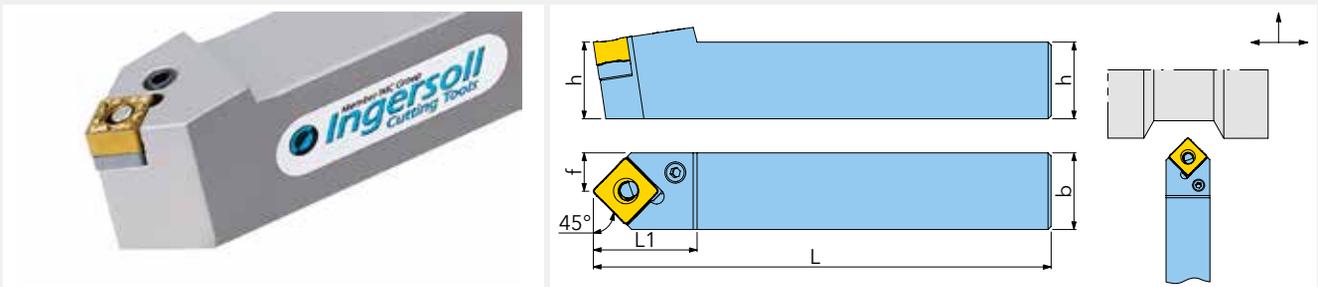
| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|------------|-------|----------|-----------|-------|---------|-----|
| TDQNL 2020 K1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDQNL 2525 M1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDQNR 2020 K1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |
| TDQNR 2525 M1305 | DN_1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52 | SO 50090I | DSP 4 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
 ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

RHINOTURN HSDNN 0904

HSDNN 0904

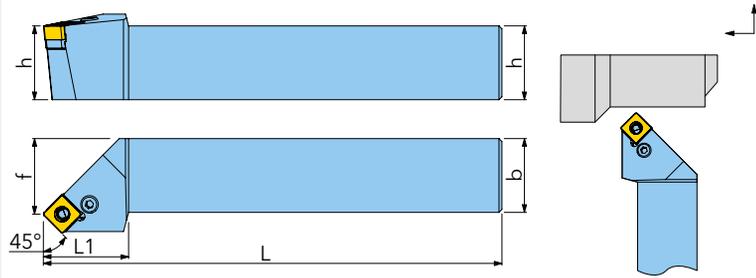
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_0904_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_0904_ NÉGATIVES 90°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|------|-----|----|----|-------|----------|-----------|-------|---------|--------|--------|
| HSDNN 2020 K0904 | 125 | 25 | 10 | 45° | 20 | 20 | 0,375 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |
| HSDNN 2525 M0904 | 150 | 25 | 12,5 | 45° | 25 | 25 | 0,690 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

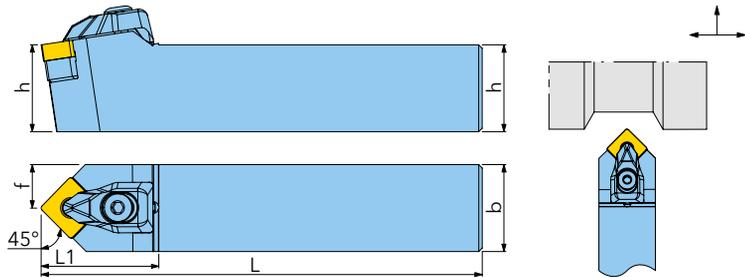
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_0904_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_0904_ NÉGATIVES 90°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|----|-----|----|----|-------|----------|-----------|-------|---------|--------|--------|
| HSSNL 2020 K0904 | 125 | 21,5 | 25 | 45° | 20 | 20 | 0,370 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |
| HSSNL 2525 M0904 | 150 | 29 | 32 | 45° | 25 | 25 | 0,695 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |
| HSSNR 2020 K0904 | 125 | 21,5 | 25 | 45° | 20 | 20 | 0,395 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |
| HSSNR 2525 M0904 | 150 | 29 | 32 | 45° | 25 | 25 | 0,700 | SN_0904_ | LCL 09-NX | LCS 3 | LSS 32A | LSP 3A | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 90° SN_0904_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES SN_0904_ NÉGATIVES 90°

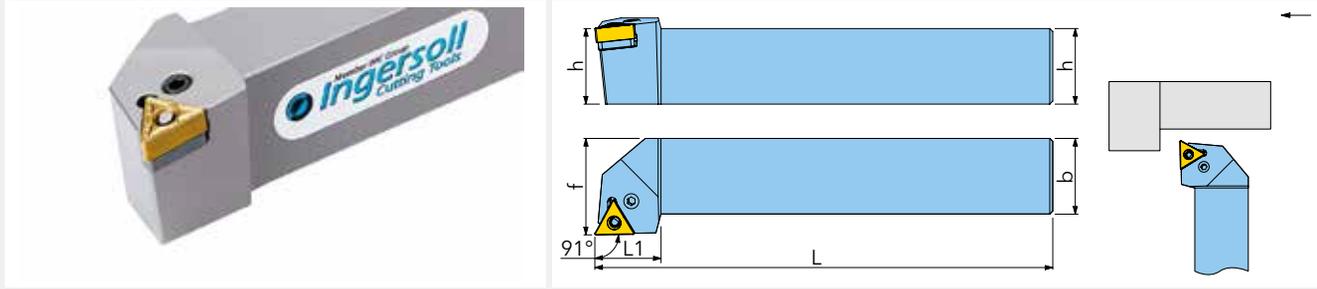


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|------|-----|----|----|-------|
| TSDNN 2020 K0904 | 125 | 28 | 10 | 45° | 20 | 20 | 0,375 |
| TSDNN 2525 M0904 | 150 | 28 | 12,5 | 45° | 25 | 25 | 0,690 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|----------|-------|---------|-----------|-------|--------|------|
| TSDNN 2020 K0904 | SN_0904_ | DLM 3-NX | DLS 3 | LSS 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |
| TSDNN 2525 M0904 | SN_0904_ | DLM 3-NX | DLS 3 | LSS 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

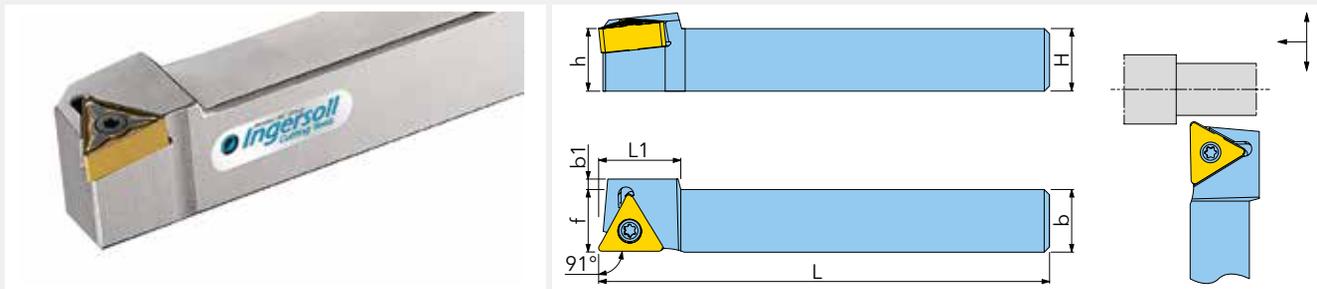
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 60° TN_1304_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-----------|----------|------------|--------|--------|
| HTGNL 1616 H1304 | 100 | 22 | 20 | 90° | 16 | 16 | 0,200 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |
| HTGNL 2020 H1304 | 100 | 22 | 25 | 90° | 20 | 20 | 0,315 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |
| HTGNL 2525 M1304 | 150 | 22 | 32 | 90° | 25 | 25 | 0,725 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |
| HTGNR 1616 H1304 | 100 | 22 | 20 | 90° | 16 | 16 | 0,200 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |
| HTGNR 2020 H1304 | 125 | 22 | 25 | 90° | 20 | 20 | 0,315 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |
| HTGNR 2020 K1304 | 125 | 22 | 25 | 90° | 20 | 20 | 0,395 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

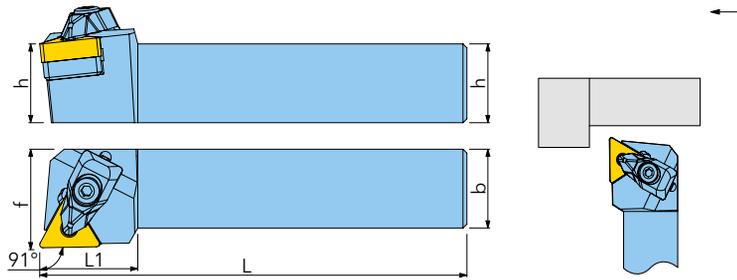
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 60° TN_1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



| Designation Réf. de l'article | L | L1 | H | f | h | b | b1 | kg | | | |
|----------------------------------|-----|----|----|----|----|----|----|-------|------------|--------------|----|
| STGNR 1212 K1304-RS | 125 | 16 | 12 | 12 | 12 | 12 | 2 | 0,165 | TN_G 1304_ | TS 30080I/HG | T9 |
| STGNR 1616 K1304-RS | 125 | 16 | 16 | 16 | 16 | 16 | - | 0,270 | TN_G 1304_ | TS 30080I/HG | T9 |
| STGNR 2020 K1304-RS | 125 | 16 | 20 | 20 | 20 | 20 | - | 0,415 | TN_G 1304_ | TS 30080I/HG | T9 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES TN_1304_ NÉGATIVES 60°

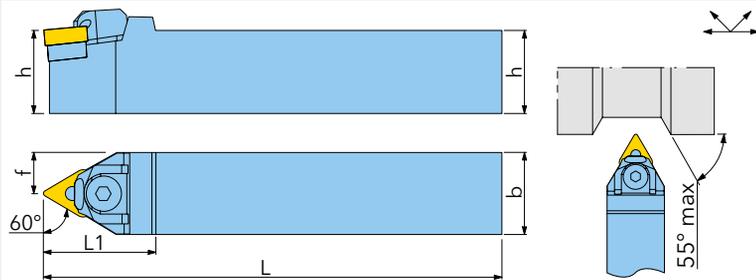


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|----|-----|----|----|-------|
| TTGNL 2020 K1304 | 125 | 25 | 25 | 90° | 20 | 20 | 0,400 |
| TTGNL 2525 M1304 | 150 | 25 | 32 | 90° | 25 | 25 | 0,730 |
| TTGNR 2525 M1304 | 150 | 25 | 32 | 90° | 25 | 25 | 0,730 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|------------|-------|----------|-----------|-------|---------|------|
| TTGNL 2020 K1304 | TN_1304_ | DLM 2.5-NX | DLS 3 | LST 2.52 | SO 400851 | DSP 3 | L-W 2.5 | T 15 |
| TTGNL 2525 M1304 | TN_1304_ | DLM 2.5-NX | DLS 3 | LST 2.52 | SO 400851 | DSP 3 | L-W 2.5 | T 15 |
| TTGNR 2525 M1304 | TN_1304_ | DLM 2.5-NX | DLS 3 | LST 2.52 | SO 400851 | DSP 3 | L-W 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



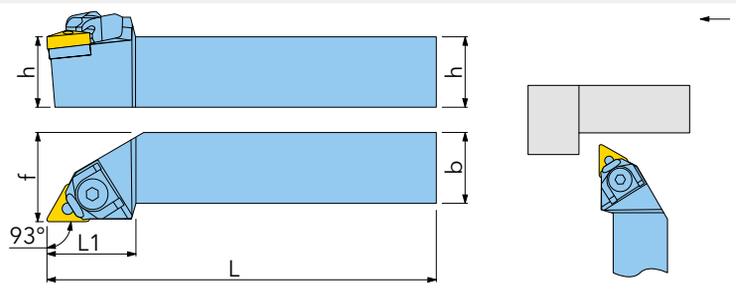
| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|------|----|----|----|-------|----------|---------|---------|-------|----------|----------|---------|
| WTENN 2020 K1304 | 125 | 28 | 10 | 60 | 20 | 20 | 0,365 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTENN 2525 M1304 | 150 | 28 | 12,5 | 60 | 25 | 25 | 0,675 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Circlip ④ = Shim / Assise de protection
⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

RHINOTURN WTGNR/L 1304

WTGNR/L 1304

EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_1304_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



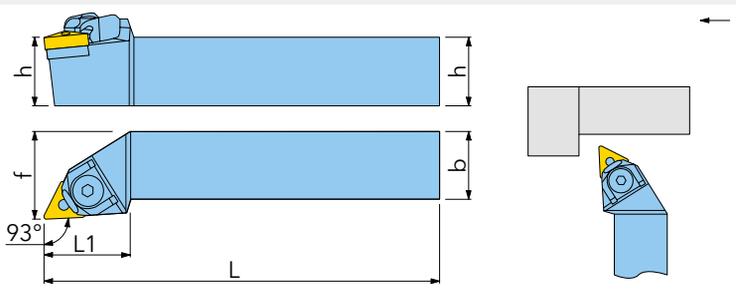
| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|---------|---------|-------|----------|----------|---------|
| WTGNL 2020 K1304 | 125 | 27 | 25 | 90° | 20 | 20 | 0,380 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTGNL 2525 M1304 | 150 | 27 | 32 | 90° | 25 | 25 | 0,700 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTGNR 2020 K1304 | 125 | 27 | 25 | 90° | 20 | 20 | 0,380 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTGNR 2525 M1304 | 150 | 27 | 32 | 90° | 25 | 25 | 0,700 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Circlip ④ = Shim / Assise de protection
 ⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

RHINOTURN WTJNR/L 1304

WTJNR/L 1304

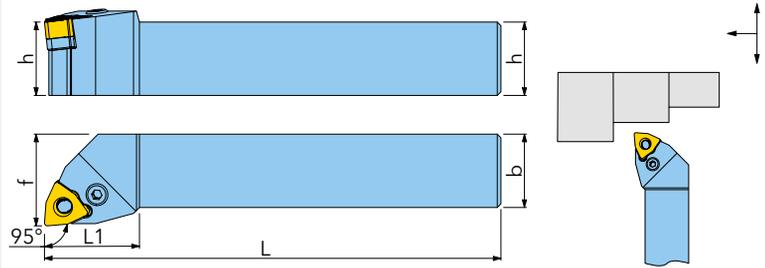
EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_1304_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|---------|---------|-------|----------|----------|---------|
| WTJNL 2020 K1304 | 125 | 27 | 25 | 93° | 20 | 20 | 0,380 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTJNL 2525 M1304 | 150 | 27 | 32 | 93° | 25 | 25 | 0,700 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTJNR 2020 K1304 | 125 | 27 | 25 | 93° | 20 | 20 | 0,380 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| WTJNR 2525 M1304 | 150 | 27 | 32 | 93° | 25 | 25 | 0,695 | TN_1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Circlip ④ = Shim / Assise de protection
 ⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

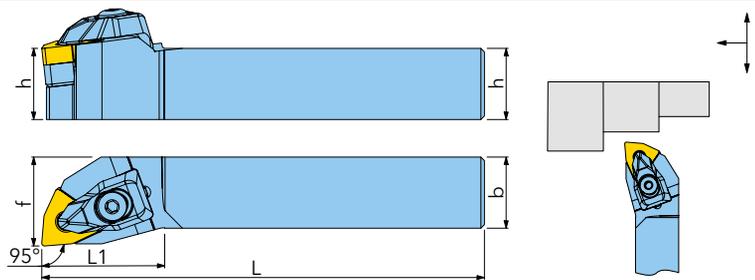
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° TRIGON WNNX 0604_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES WNNX 0604_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|-----------|-------|---------|--------|--------|
| HWLNL 1616 H0604 | 100 | 26 | 20 | 95° | 16 | 16 | 0,200 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |
| HWLNL 2020 K0604 | 125 | 26 | 25 | 95° | 20 | 20 | 0,390 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |
| HWLNL 2525 M0604 | 150 | 26 | 32 | 95° | 25 | 25 | 0,710 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |
| HWLNR 1616 H0604 | 100 | 26 | 20 | 95° | 16 | 16 | 0,200 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |
| HWLNR 2020 K0604 | 125 | 26 | 25 | 95° | 20 | 20 | 0,385 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |
| HWLNR 2525 M0604 | 150 | 26 | 32 | 95° | 25 | 25 | 0,715 | WNNX 0604_ | LCL 09-NX | LCS 3 | LSW 32A | LSP 3A | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° TRIGON WNNX 0604_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES WNNX 0604_ NÉGATIVES TRIGONE 80°

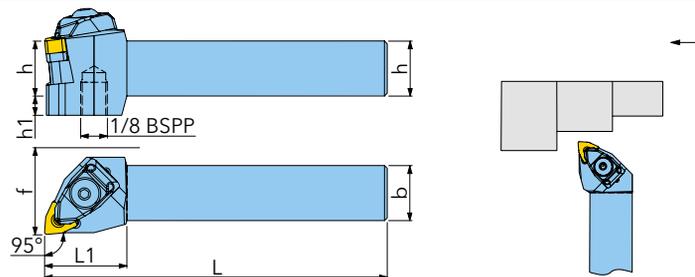


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg |
|----------------------------------|-----|----|----|-----|----|----|-------|
| TWLNL 2020 K0604 | 125 | 26 | 25 | 95° | 20 | 20 | 0,390 |
| TWLNL 2525 M0604 | 150 | 26 | 32 | 95° | 25 | 25 | 0,715 |
| TWLNR 2020 K0604 | 125 | 26 | 25 | 95° | 20 | 20 | 0,390 |
| TWLNR 2525 M0604 | 150 | 26 | 32 | 95° | 25 | 25 | 0,715 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|----------|-------|---------|-----------|-------|--------|------|
| TWLNL 2020 K0604 | WNNX 0604_ | DLM 3-NX | DLS 3 | LSW 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |
| TWLNL 2525 M0604 | WNNX 0604_ | DLM 3-NX | DLS 3 | LSW 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |
| TWLNR 2020 K0604 | WNNX 0604_ | DLM 3-NX | DLS 3 | LSW 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |
| TWLNR 2525 M0604 | WNNX 0604_ | DLM 3-NX | DLS 3 | LSW 32A | SO 400851 | DSP 3 | LW 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 80° TRIGON WNNX 0604_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE TYPE "T" AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES WNNX 0604_ NÉGATIVES TRIGONE 80°



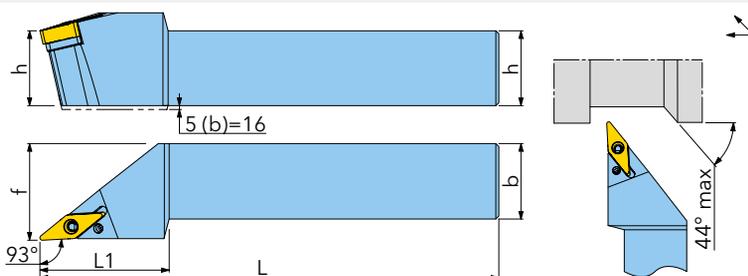
| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|----|------|----|
| TWLNL 2020 K0604-TB | 125 | 30 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TWLNL 2525 M0604-TB | 150 | 30 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TWLNR 2020 K0604-TB | 125 | 30 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TWLNR 2525 M0604-TB | 150 | 30 | 32 | 25 | 7 | 25 | 0,85 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-----------|-------------|-----------------|-------|--------------------|--------------------|---------|-----------|---------|
| TWLNL 2020 K0604-TB | WN_X0604_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSW 32A | SO 40085I | WS-0060 |
| TWLNL 2525 M0604-TB | WN_X0604_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSW 32A | SO 40085I | WS-0060 |
| TWLNR 2020 K0604-TB | WN_X0604_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSW 32A | SO 40085I | WS-0060 |
| TWLNR 2525 M0604-TB | WN_X0604_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSW 32A | SO 40085I | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection ⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

RHINOTURN HVJNR/L 1304
HVJNR/L 1304

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°

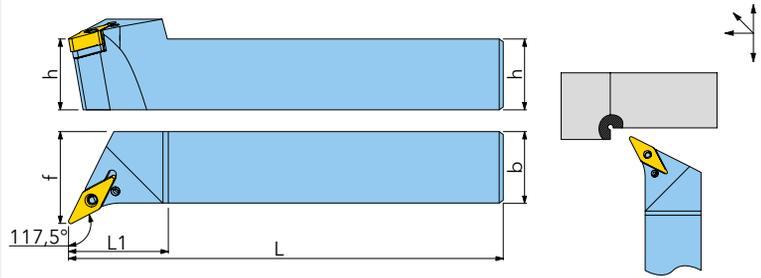


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|-----------|-----------|----------|-------------|--------|--------|
| HVJNL 1616 H1304 | 100 | 30 | 20 | 93° | 16 | 16 | 0,195 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVJNL 2020 K1304 | 125 | 35 | 25 | 93° | 20 | 20 | 0,360 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVJNL 2525 M1304 | 150 | 43 | 32 | 93° | 25 | 25 | 0,670 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVJNR 1616 H1304 | 100 | 30 | 20 | 93° | 16 | 16 | 0,195 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVJNR 2020 K1304 | 125 | 35 | 25 | 93° | 20 | 20 | 0,360 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVJNR 2525 M1304 | 150 | 43 | 32 | 93° | 25 | 25 | 0,665 | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |

for VN_X 1304_ & YNMG 1304_ Inserts / Pour les plaquettes VN_X 1304_ & YNMG 1304_

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°

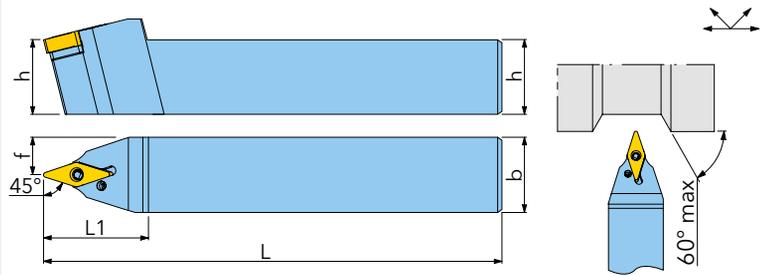


| Designation Réf. de l'article | L | L1 | f | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|----|----|-------|------------|-----------|----------|-------------|--------|--------|
| HVQNL 2020 K1304 | 125 | 35 | 25 | 20 | 20 | 0,375 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVQNL 2525 M1304 | 150 | 35 | 32 | 25 | 25 | 0,695 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVQNR 2020 K1304 | 125 | 35 | 25 | 20 | 20 | 0,375 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVQNR 2525 M1304 | 150 | 35 | 32 | 25 | 25 | 0,695 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |

for VN_X 1304_ & YNMG 1304_ Inserts / Pour les plaquettes VN_X 1304_ & YNMG 1304_

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°

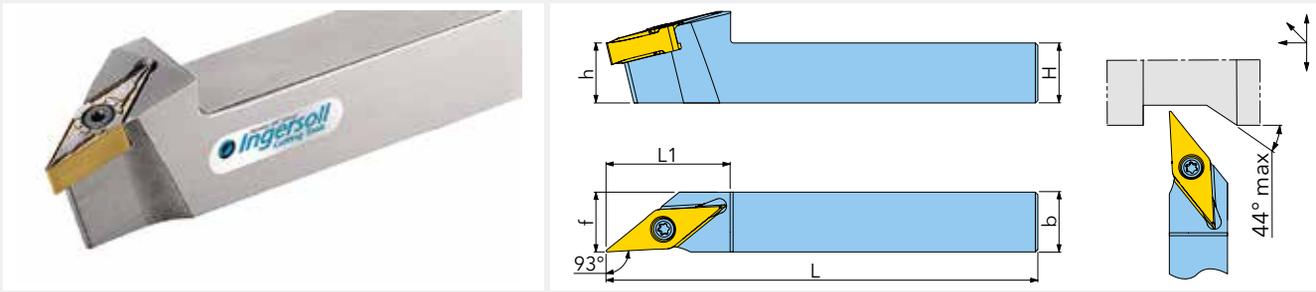


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|------|-------|----|----|-------|------------|-----------|----------|-------------|--------|--------|
| HVVNN 2020 K1304 | 125 | 35 | 10 | 72,5° | 20 | 20 | 0,355 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| HVVNN 2525 M1304 | 150 | 35 | 12,5 | 72,5° | 25 | 25 | 0,650 | VN_X 1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |

for VN_X 1304_ & YNMG 1304_ Inserts / Pour les plaquettes VN_X 1304_ & YNMG 1304_

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

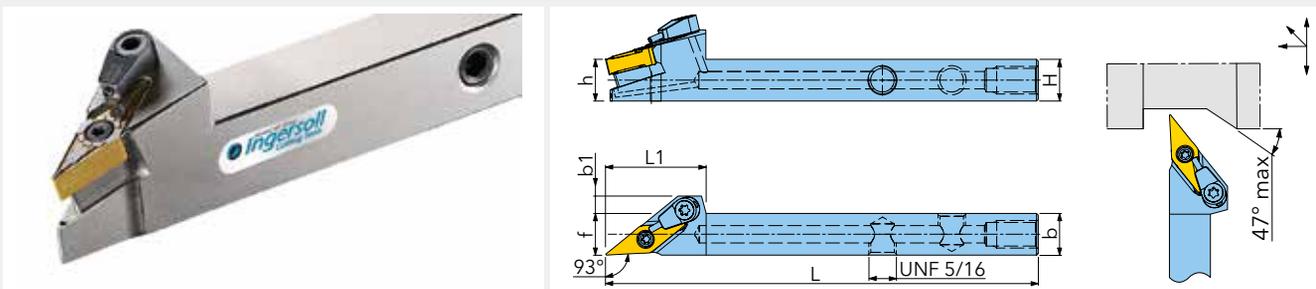
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



| Designation Réf. de l'article | L | L1 | H | f | h | b | kg | | | |
|----------------------------------|-----|----|----|----|----|----|-------|------------|--------------|----|
| SVJNR 1212 K1304-RS | 125 | 25 | 12 | 12 | 12 | 12 | 0,155 | VN_X 1304_ | TS 30080I/HG | T9 |
| SVJNR 1616 K1304-RS | 125 | 25 | 16 | 16 | 16 | 16 | 0,255 | VN_X 1304_ | TS 30080I/HG | T9 |
| SVJNR 2020 K1304-RS | 125 | 25 | 20 | 20 | 20 | 20 | 0,375 | VN_X 1304_ | TS 30080I/HG | T9 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°

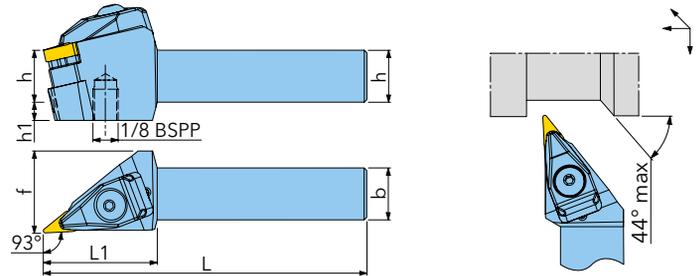


| Designation Réf. de l'article | L | L1 | H | f | h | b | b1 | kg | |
|----------------------------------|-----|----|----|----|----|----|----|-------|---|
| SVJNR 1212 K1304-RS-TB | 125 | 29 | 12 | 12 | 12 | 12 | 5 | 0,160 | ✓ |
| SVJNR 1616 K1304-RS-TB | 125 | 29 | 16 | 16 | 16 | 16 | 1 | 0,255 | ✓ |

| Designation Réf. de l'article | | | | | | |
|----------------------------------|------------|--------------|----|---------|--------------|----------|
| SVJNR 1212 K1304-RS-TB | VN_X 1304_ | TS 30080I/HG | T9 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |
| SVJNR 1616 K1304-RS-TB | VN_X 1304_ | TS 30080I/HG | T9 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage ④ = Plug / Tube ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SEERAGE TYPE "T" AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



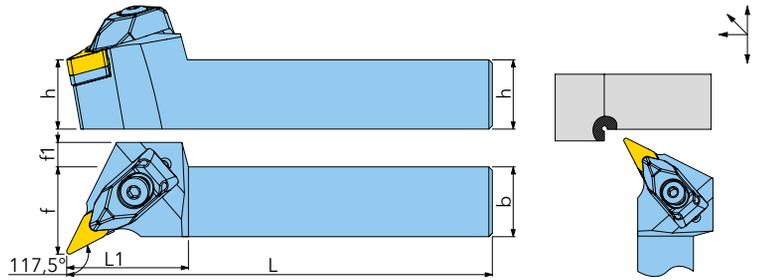
| Designation Réf. de l'article | L | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|------|----|
| TVJNL 2020 K1304-TB | 125 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TVJNL 2525 M1304-TB | 150 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TVJNR 2020 K1304-TB | 125 | 25 | 20 | 7 | 20 | 0,45 | ✓ |
| TVJNR 2525 M1304-TB | 150 | 32 | 25 | 7 | 25 | 0,85 | ✓ |

for VN_X 1304_ & YNMG 1304_ Inserts / Pour les plaquettes VN_X 1304_ & YNMG 1304_

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|------------|----------------|--------------------|-------|--------------------|--------------------|------------|-----------|---------|
| TVJNL 2020 K1304-TB | VN_X 1304_ | DLM 2.5V-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | MSVI 2.522 | SO 400851 | WS-0060 |
| TVJNL 2525 M1304-TB | VN_X 1304_ | DLM 2.5V-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | MSVI 2.522 | SO 400851 | WS-0060 |
| TVJNR 2020 K1304-TB | VN_X 1304_ | DLM 2.5V-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | MSVI 2.522 | SO 400851 | WS-0060 |
| TVJNR 2525 M1304-TB | VN_X 1304_ | DLM 2.5V-NX-TB | BH MSX0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | MSVI 2.522 | SO 400851 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection
⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 35° VN_X 1304_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



| Designation Réf. de l'article | L | L1 | f | f1 | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|----|----|----|-------|------------|-------------|-------|------------|-----------|-------|-------|
| TVQNL 2020 K1304 | 125 | 35 | 25 | 7 | 20 | 20 | 0,415 | VN_X 1304_ | DLM 2.5V-NX | DLS 4 | MSVI 2.522 | SO 400851 | DSP 4 | L-W 4 |
| TVQNL 2525 M1304 | 150 | 35 | 32 | - | 25 | 25 | 0,710 | VN_X 1304_ | DLM 2.5V-NX | DLS 4 | MSVI 2.522 | SO 400851 | DSP 4 | L-W 4 |
| TVQNR 2020 K1304 | 125 | 35 | 25 | 7 | 20 | 20 | 0,415 | VN_X 1304_ | DLM 2.5V-NX | DLS 4 | MSVI 2.522 | SO 400851 | DSP 4 | L-W 4 |
| TVQNR 2525 M1304 | 150 | 35 | 32 | - | 25 | 25 | 0,725 | VN_X 1304_ | DLM 2.5V-NX | DLS 4 | MSVI 2.522 | SO 400851 | DSP 4 | L-W 4 |

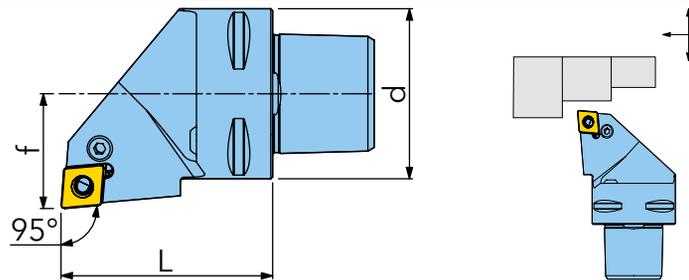
for VN_X 1304_ & YNMG 1304_ Inserts / Pour les plaquettes VN_X 1304_ & YNMG 1304_

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

RHINOTURN C-HCLNR/L 0904

C-HCLNR/L 0904

C-TYP ADAPTION WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_0904_ INSERTS
 PORTE-OUTILS EXTERIEUR DE TYPE "C" AVEC SERRAGE PAR LEVIER, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



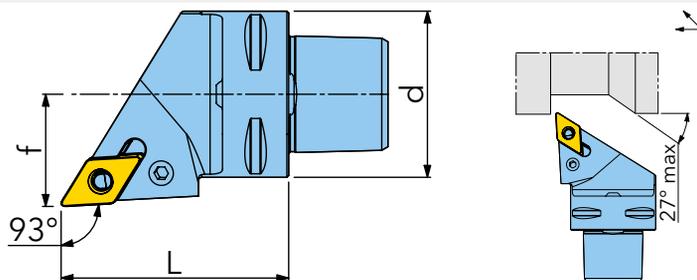
| Designation Réf. de l'article | d | L | f | κ | kg | IK | 80° | ① | ② | ③ | ④ | ⑤ | ⑥ |
|----------------------------------|----|----|----|-----|-------|----|----------|------------|-------|--------|--------|-------|--------|
| C4-HCLNL 27050-0904 | 40 | 50 | 27 | 95° | 0,395 | ✓ | CN_0904_ | LCL 09B-NX | LCS 3 | LSC 32 | LSP 3A | NZ 83 | LW 2.5 |
| C4-HCLNR 27050-0904 | 40 | 50 | 27 | 95° | 0,385 | ✓ | CN_0904_ | LCL 09B-NX | LCS 3 | LSC 32 | LSP 3A | NZ 83 | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Nozzle / Embout
 ⑥ = Wrench / Clé de serrage

RHINOTURN C-HDJNR/L 1305

C-HDJNR/L 1305

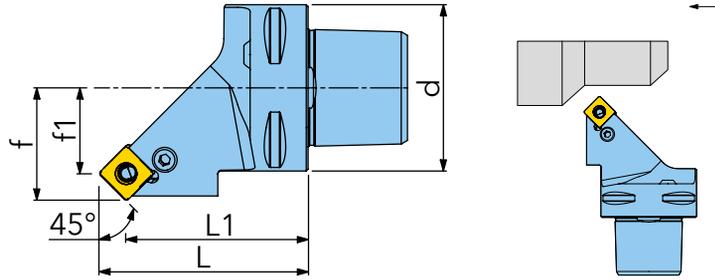
C-TYP ADAPTION WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_1305_ INSERTS
 PORTE-OUTILS EXTERIEUR DE TYPE "C" AVEC SERRAGE PAR LEVIER, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



| Designation Réf. de l'article | d | L | f | κ | kg | IK | 55° | ① | ② | ③ | ④ | ⑤ | ⑥ |
|----------------------------------|----|----|----|-----|-------|----|----------|-----------|-------|----------|-------|-------|---------|
| C4-HDJNL 27055-1305 | 40 | 55 | 27 | 93° | 0,395 | ✓ | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | NZ 83 | WS-0060 |
| C4-HDJNR 27055-1305 | 40 | 55 | 27 | 93° | 0,395 | ✓ | DN_1305_ | LCL 11-NX | LCS 4 | LSD 3.52 | LSP 4 | NZ 83 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Nozzle / Embout
 ⑥ = Wrench / Clé de serrage

C-TYP ADAPTION WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_0904_ INSERTS
PORTE-OUTILS EXTERIEUR DE TYPE "C" AVEC SERRAGE PAR LEVIER, POUR PLAQUETTES SN_0904_ NÉGATIVES 90°

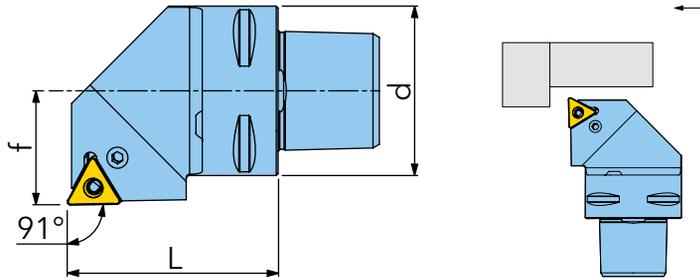


| Designation Réf. de l'article | d | L | L1 | f | f1 | κ | kg | IK |
|----------------------------------|----|------|----|----|------|-----|-------|----|
| C4-HSSNL 27042-0904 | 40 | 50,3 | 44 | 27 | 20,6 | 45° | 0,315 | ✓ |
| C4-HSSNR 27042-0904 | 40 | 50,3 | 44 | 27 | 20,6 | 45° | 0,315 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------|----------|-------|-------|---------|
| C4-HSSNL 27042-0904 | SN_0904_ | LCL 09-NX | LCS 4 | LSD 3.52 | LSP 4 | NZ 83 | L-W 2.5 |
| C4-HSSNR 27042-0904 | SN_0904_ | LCL 09-NX | LCS 4 | LSD 3.52 | LSP 4 | NZ 83 | L-W 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Nozzle / Embout ⑥ = Wrench / Clé de serrage

C-TYP ADAPTION WITH LEVER LOCK CLAMPING, FOR NEGATIVE 60° TN_1304_ INSERTS
PORTE-OUTILS EXTERIEUR DE TYPE "C" AVEC SERRAGE PAR LEVIER, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



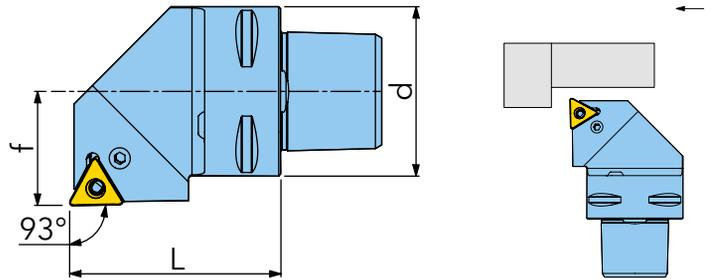
| Designation Réf. de l'article | d | L | f | κ | kg | IK | | | | | | | |
|----------------------------------|----|----|----|-----|-------|----|----------|-----------|----------|------------|--------|-------|--------|
| C4-HTGNL 27050-1304 | 40 | 50 | 27 | 90° | 0,415 | ✓ | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | NZ 83 | LW 2.5 |
| C4-HTGNR 27050-1304 | 40 | 50 | 27 | 90° | 0,420 | ✓ | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | NZ 83 | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Nozzle / Embout ⑥ = Wrench / Clé de serrage

RHINOTURN C-HTJNR/L 1304

C-HTJNR/L 1304

C-TYP ADAPTION WITH LEVER LOCK CLAMPING, FOR NEGATIVE 60° TN_ 1304_ INSERTS
 PORTE-OUTILS EXTERIEUR DE TYPE "C" AVEC SERRAGE PAR LEVIER, POUR PLAQUETTES TN_ 1304_ NÉGATIVES 60°



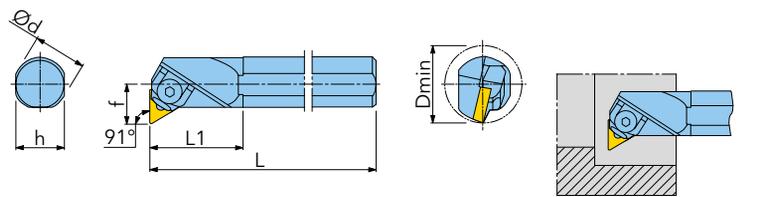
| Designation Réf. de l'article | d | L | f | κ | kg | IK | | | | | | | |
|----------------------------------|----|----|----|-----|-------|----|-----------|-----------|----------|------------|--------|-------|--------|
| C4-HTJNL 27050-1304 | 40 | 50 | 27 | 93° | 0,425 | ✓ | TN_ 1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | NZ 83 | LW 2.5 |
| C4-HTJNR 27050-1304 | 40 | 50 | 27 | 93° | 0,420 | ✓ | TN_ 1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8 | LSP 3B | NZ 83 | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Nozzle / Embout
 ⑥ = Wrench / Clé de serrage

RHINOTURN S-WTFNR/L 1304

S-WTFNR/L 1304

INTERNAL TOP CLAMP TOOL HOLDER, FOR NEGATIVE 60° TN_ 1304_ INSERTS
 BARRE D'ALÉSAGE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_ 1304_ NÉGATIVES 60°

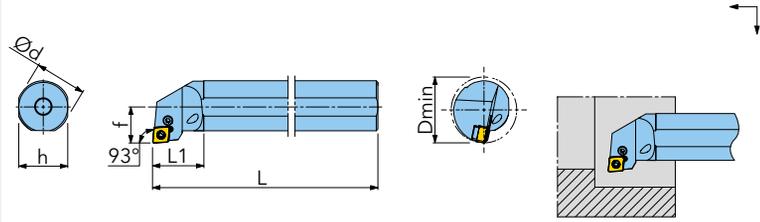


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|
| S25R WTFNL 1304 | 32 | 25 | 200 | 40 | 17 | 90° | 23 | 0,700 |
| S32S WTFNL 1304 | 40 | 32 | 250 | 45 | 22 | 90° | 30 | 1,460 |
| S25R WTFNR 1304 | 32 | 25 | 200 | 40 | 17 | 90° | 23 | 0,700 |
| S32S WTFNR 1304 | 40 | 32 | 250 | 45 | 22 | 90° | 30 | 1,460 |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|-----------|---------|---------|-------|----------|------------|---------|
| S25R WTFNL 1304 | TN_ 1304_ | WC 2.53 | WCS 2,5 | CSR 2 | - | WSS 2.52-1 | WS-0060 |
| S32S WTFNL 1304 | TN_ 1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |
| S25R WTFNR 1304 | TN_ 1304_ | WC 2.53 | WCS 2,5 | CSR 2 | - | WSS 2.52-1 | WS-0060 |
| S32S WTFNR 1304 | TN_ 1304_ | WC 2.53 | WCS 2,5 | CSR 2 | WST 2.52 | WSS 2.52 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Circlip ④ = Shim / Assise de protection
 ⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 80° CN_0904_INSERTS
BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES CN_0904_NÉGATIVES 80°

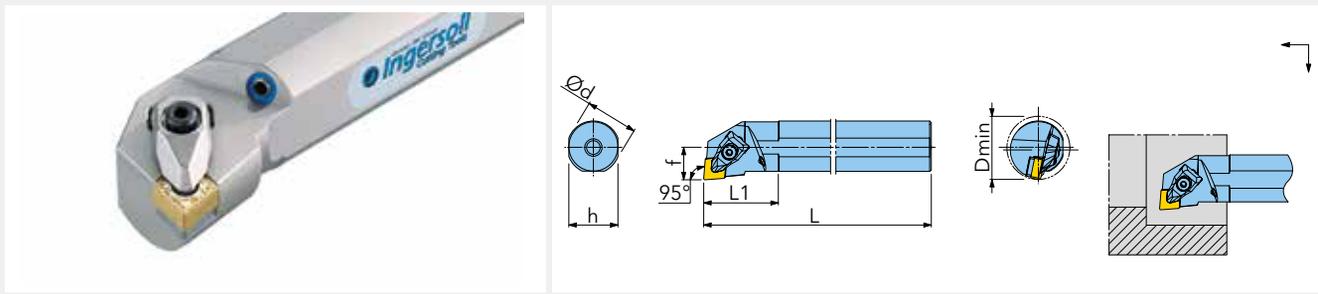


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A16Q HCLNL 0904 | 20 | 16 | 180 | 25 | 11 | 95° | 15 | 0,240 | ✓ |
| A20Q HCLNL 0904 | 25 | 20 | 180 | 28 | 13 | 95° | 18 | 0,370 | ✓ |
| A25R HCLNL 0904 | 32 | 25 | 200 | 31 | 17 | 95° | 23 | 0,660 | ✓ |
| A32S HCLNL 0904 | 40 | 32 | 250 | 31 | 22 | 95° | 30 | 1,375 | ✓ |
| A16Q HCLNR 0904 | 20 | 16 | 180 | 25 | 11 | 95° | 15 | 0,245 | ✓ |
| A20Q HCLNR 0904 | 25 | 20 | 180 | 28 | 13 | 95° | 18 | 0,370 | ✓ |
| A25R HCLNR 0904 | 32 | 25 | 200 | 31 | 17 | 95° | 23 | 0,660 | ✓ |
| A32S HCLNR 0904 | 40 | 32 | 250 | 31 | 22 | 95° | 30 | 1,380 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|------------|--------|--------|--------|--------|---------|
| A16Q HCLNL 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HCLNL 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HCLNL 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HCLNL 0904 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32 | LSP 3A | - | L-W 2.5 |
| A16Q HCLNR 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HCLNR 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HCLNR 0904 | CN_0904_ | LCL 09B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HCLNR 0904 | CN_0904_ | LCL 09-NX | LCS 3 | LSC 32 | LSP 3A | - | L-W 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Circlip ⑤ = Snap ring / Circlip ⑥ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH TOP CLAMP AND INTERNAL COOLANT, FOR NEGATIVE 80° CN_0904_ INSERTS
 BARRE D'ALÉSAGE À BRIDE AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A25R TCLNL 0904 | 32 | 25 | 200 | 35 | 17 | 95° | 23 | 0,660 | ✓ |
| A32S TCLNL 0904 | 40 | 32 | 250 | 35 | 22 | 95° | 30 | 1,375 | ✓ |
| A25R TCLNR 0904 | 32 | 25 | 200 | 35 | 17 | 95° | 23 | 0,660 | ✓ |
| A32S TCLNR 0904 | 40 | 32 | 250 | 35 | 22 | 95° | 30 | 1,380 | ✓ |

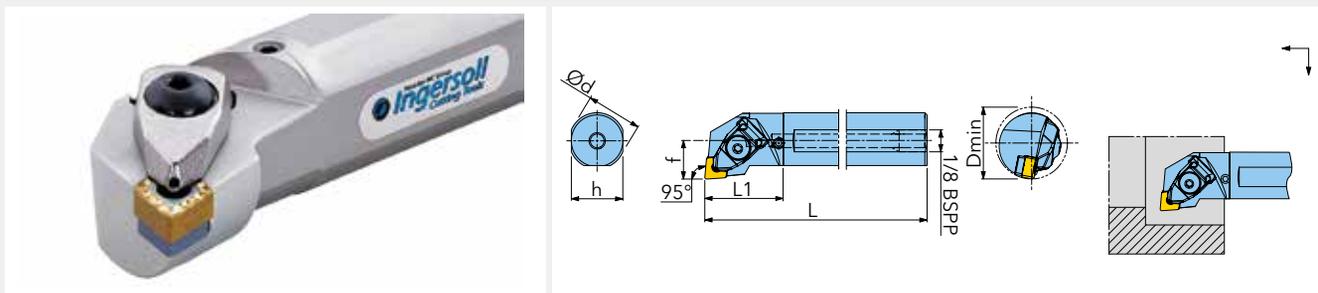
| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|----------|----------|-------|--------|-----------|-------|-------|--------|------|
| A25R TCLNL 0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32 | SO 40073I | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A32S TCLNL 0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32 | SO 40085I | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A25R TCLNR 0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32 | SO 40073I | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A32S TCLNR 0904 | CN_0904_ | DLM 3-NX | DLS 3 | LSC 32 | SO 40085I | DSP 3 | NZ 62 | LW 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Nozzle / Embout
 ⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage

COOLBURST A-TCLNR/L 0904-TB

A-TCLNR/L 0904-TB

INTERNAL TOOL HOLDER WITH TOP CLAMP AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 80° CN_0904_ INSERTS
 BARRE D'ALÉSAGE À BRIDE AVEC ARROSAGE HAUTE-PRESSION, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|----|------|----|
| A25R TCLNL 0904-TB | 32 | 25 | 200 | 35 | 17 | 23 | 0,75 | ✓ |
| A32S TCLNL 0904-TB | 40 | 32 | 250 | 35 | 22 | 30 | 1,45 | ✓ |
| A25R TCLNR 0904-TB | 32 | 25 | 200 | 35 | 17 | 23 | 0,75 | ✓ |
| A32S TCLNR 0904-TB | 40 | 32 | 250 | 35 | 22 | 30 | 1,45 | ✓ |

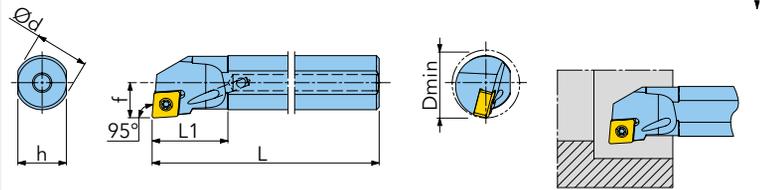
| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|----------|-------------|-----------------|-------|--------------------|--------------------|--------|-----------|---------|
| A25R TCLNL 0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32 | SO 40073I | WS-0060 |
| A32S TCLNL 0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32 | SO 40073I | WS-0060 |
| A25R TCLNR 0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32 | SO 40073I | WS-0060 |
| A32S TCLNR 0904-TB | CN_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | LSC 32 | SO 40073I | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection
 ⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

RHINOTURN A-SCLNR/L 0904

A-SCLNR/L 0904

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 80° CN_0904_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES CN_0904_ NÉGATIVES 80°



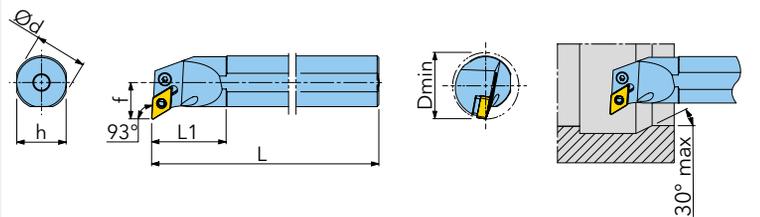
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK | | | | |
|----------------------------------|--------|----|-----|----|----|----------|----|-------|----|----------|--------------|-----|--------|
| A16Q SCLNL 0904 | 20 | 16 | 180 | 25 | 11 | 95° | 15 | 0,245 | ✓ | CN_0904_ | TS 350831/HG | T10 | RSS M4 |
| A20Q SCLNL 0904 | 25 | 20 | 180 | 28 | 13 | 95° | 18 | 0,375 | ✓ | CN_0904_ | TS 350831/HG | T10 | RSS M4 |
| A16Q SCLNR 0904 | 20 | 16 | 180 | 25 | 11 | 95° | 15 | 0,245 | ✓ | CN_0904_ | TS 350831/HG | T10 | RSS M4 |
| A20Q SCLNR 0904 | 25 | 20 | 180 | 28 | 13 | 95° | 18 | 0,375 | ✓ | CN_0904_ | TS 350831/HG | T10 | RSS M4 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Sealing screw / -

RHINOTURN A-HDUNR/L 1305

A-HDUNR/L 1305

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_1305_ INSERTS
 BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|----------|----|-------|----|
| A32S HDUNL 1305 | 40 | 32 | 250 | 45 | 22 | 93° | 30 | 1,355 | ✓ |
| A40T HDUNL 1305 | 50 | 40 | 300 | 55 | 27 | 93° | 37 | 2,600 | ✓ |
| A32S HDUNR 1305 | 40 | 32 | 250 | 45 | 22 | 93° | 30 | 1,385 | ✓ |
| A40T HDUNR 1305 | 50 | 40 | 300 | 55 | 27 | 93° | 37 | 2,600 | ✓ |

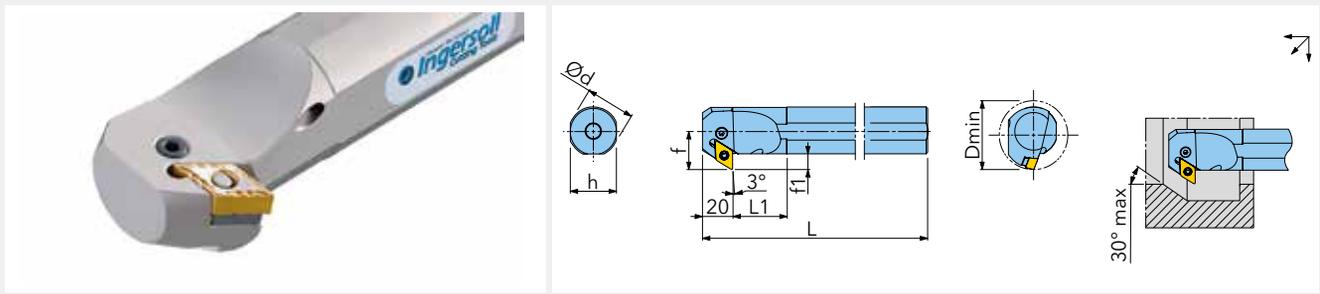
| Designation Réf. de l'article | | | | | | |
|----------------------------------|----------|-----------|--------|-----------|-------|---------|
| A32S HDUNL 1305 | DN_1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A40T HDUNL 1305 | DN_1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A32S HDUNR 1305 | DN_1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A40T HDUNR 1305 | DN_1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

RHINOTURN A-HDZNR/L 1305

A-HDZNR/L 1305

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ 1305_ INSERTS
 BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°



| Designation Réf. de l'article | D min. | d | L | L1 | f | f1 | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|------|-----|----|-------|----|
| A32S HDZNL 1305 | 45 | 32 | 250 | 35 | 25 | 10,5 | 93° | 30 | 1,490 | ✓ |
| A40T HDZNL 1305 | 50 | 40 | 300 | 40 | 29 | 10,5 | 93° | 37 | 2,755 | ✓ |
| A32S HDZNR 1305 | 45 | 32 | 250 | 35 | 25 | 10,5 | 93° | 30 | 1,493 | ✓ |
| A40T HDZNR 1305 | 50 | 40 | 300 | 40 | 29 | 10,5 | 93° | 37 | 2,750 | ✓ |

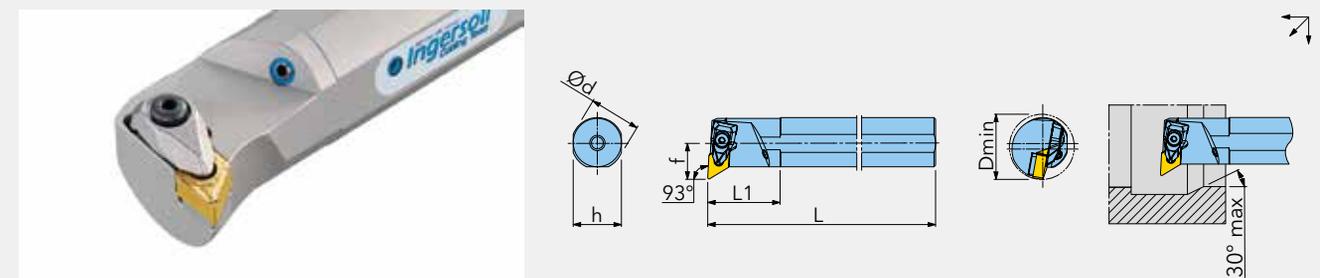
| Designation Réf. de l'article | | | | | | |
|----------------------------------|-----------|-----------|--------|-----------|-------|---------|
| A32S HDZNL 1305 | DN_ 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A40T HDZNL 1305 | DN_ 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A32S HDZNR 1305 | DN_ 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| A40T HDZNR 1305 | DN_ 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

RHINOTURN A-TDUNR/L 1305

A-TDUNR/L 1305

INTERNAL TOOL HOLDER WITH TOP CLAMP AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ 1305_ INSERTS
 BARRE D'ALÉSAGE A BRIDE AVEC ARROSAGE INTEGRE, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°

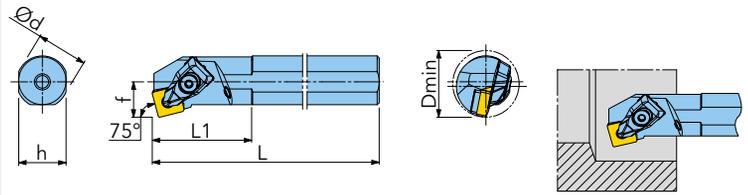


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A32S TDUNL 1305 | 40 | 32 | 250 | 45 | 22 | 93° | 30 | 1,370 | ✓ |
| A40T TDUNL 1305 | 50 | 40 | 300 | 55 | 27 | 93° | 37 | 2,635 | ✓ |
| A32S TDUNR 1305 | 40 | 32 | 250 | 45 | 22 | 93° | 30 | 1,370 | ✓ |
| A40T TDUNR 1305 | 50 | 40 | 300 | 55 | 27 | 93° | 37 | 2,630 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-----------|------------|-------|-----------|------------|-------|--------|---------|-----|
| A32S TDUNL 1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52B | TS 50A105I | DSP 4 | NZ 62 | WS-0060 | T20 |
| A40T TDUNL 1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52B | TS 50A105I | DSP 4 | NZ 104 | WS-0060 | T20 |
| A32S TDUNR 1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52B | TS 50A105I | DSP 4 | NZ 62 | WS-0060 | T20 |
| A40T TDUNR 1305 | DN_ 1305_ | DLM 3.5-NX | DLS 4 | LSD 3.52B | TS 50A105I | DSP 4 | NZ 104 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Nozzle / Embout ⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH T HOLDER TYPE CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 90° SN_0904_ INSERTS
BARRE D'ALEPAGE A BRIDE AVEC ARROSAGE INTEGRE, POUR PLAQUETTES SN_0904_ NÉGATIVES 90°



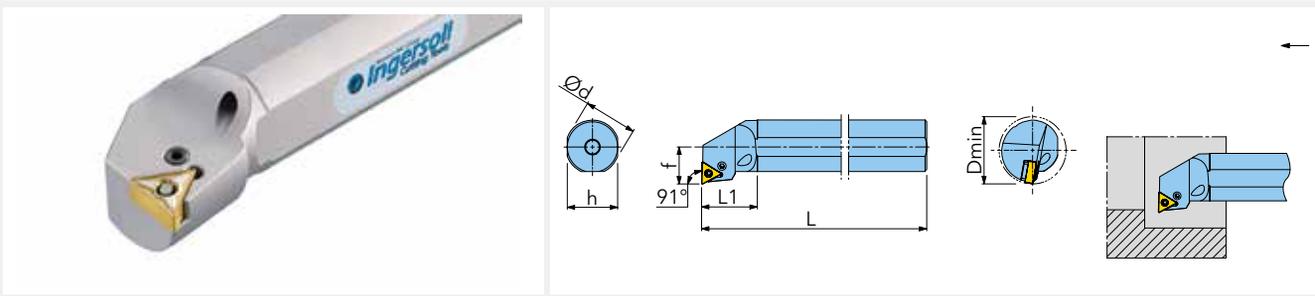
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A25R TSKNL 0904 | 32 | 25 | 200 | 35 | 17 | 75° | 23 | 0,670 | ✓ |
| A32S TSKNL 0904 | 40 | 32 | 250 | 35 | 22 | 75° | 30 | 1,395 | ✓ |
| A25R TSKNR 0904 | 32 | 25 | 200 | 35 | 17 | 75° | 23 | 0,670 | ✓ |
| A32S TSKNR 0904 | 40 | 32 | 250 | 35 | 22 | 75° | 30 | 1,390 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|------------|-------|--------|-----------|-------|-------|------------|
| A25R TSKNL 0904 | SN_0904_ | DLM 3.5-NX | DLS 3 | LSS 32 | SO 400731 | DSP 3 | NZ 62 | LW 2.5 T15 |
| A32S TSKNL 0904 | SN_0904_ | DLM 3.5-NX | DLS 3 | LSS 32 | SO 400851 | DSP 3 | NZ 62 | LW 2.5 T15 |
| A25R TSKNR 0904 | SN_0904_ | DLM 3.5-NX | DLS 3 | LSS 32 | SO 400731 | DSP 3 | NZ 62 | LW 2.5 T15 |
| A32S TSKNR 0904 | SN_0904_ | DLM 3.5-NX | DLS 3 | LSS 32 | SO 400851 | DSP 3 | NZ 62 | LW 2.5 T15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Nozzle / Embout
⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage



INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 60° TN_1304_ INSERTS
BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°

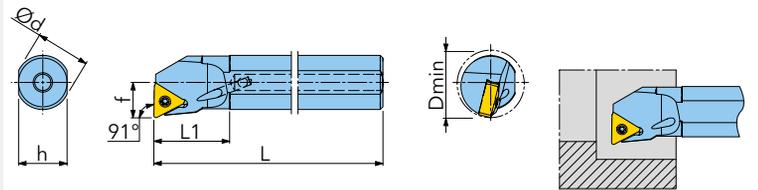


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A16Q HTFNL 1304 | 20 | 16 | 180 | 25 | 11 | 90° | 15 | 0,240 | ✓ |
| A20Q HTFNL 1304 | 25 | 20 | 180 | 28 | 13 | 90° | 18 | 0,375 | ✓ |
| A25R HTFNL 1304 | 32 | 25 | 200 | 33 | 17 | 90° | 23 | 0,665 | ✓ |
| A32S HTFNL 1304 | 40 | 32 | 250 | 33 | 22 | 90° | 30 | 1,370 | ✓ |
| A16Q HTFNR 1304 | 20 | 16 | 180 | 25 | 11 | 90° | 15 | 0,245 | ✓ |
| A20Q HTFNR 1304 | 25 | 20 | 180 | 28 | 13 | 90° | 18 | 0,375 | ✓ |
| A25R HTFNR 1304 | 32 | 25 | 200 | 33 | 17 | 90° | 23 | 0,665 | ✓ |
| A32S HTFNR 1304 | 40 | 32 | 250 | 33 | 22 | 90° | 30 | 1,370 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|------------|----------|-------------|--------|--------|---------|
| A16Q HTFNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HTFNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HTFNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HTFNL 1304 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8B | LSP 3B | - | L-W 2.5 |
| A16Q HTFNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HTFNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HTFNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HTFNR 1304 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8B | LSP 3B | - | L-W 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Snap ring / Circlip ⑥ = Wrench / Clé de serrage

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 60° TN_ 1304_ INSERTS
BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES TN_ 1304_ NÉGATIVES 60°

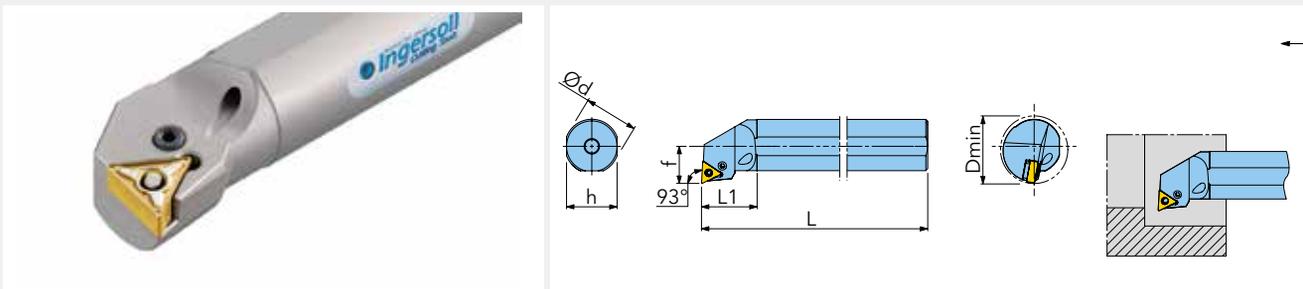


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |  |  |  |  |
|----------------------------------|--------|----|-----|----|----|----------|----|-------|----|---|---|---|---|
| A16Q STFNL 1304 | 20 | 16 | 180 | 25 | 11 | 90° | 15 | 0,245 | ✓ | TN_ 1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A20Q STFNL 1304 | 25 | 20 | 180 | 28 | 13 | 90° | 18 | 0,375 | ✓ | TN_ 1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A16Q STFNR 1304 | 20 | 16 | 180 | 25 | 11 | 90° | 15 | 0,245 | ✓ | TN_ 1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A20Q STFNR 1304 | 25 | 20 | 180 | 28 | 13 | 90° | 18 | 0,375 | ✓ | TN_ 1304_ | TS 30080I/HG | T 9 | RSS M4 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Sealing screw / -



INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 60° TN_1304_ INSERTS
BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES TN_1304_ NÉGATIVES 60°



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A16Q HTUNL 1304 | 20 | 16 | 180 | 25 | 11 | 93° | 15 | 0,240 | ✓ |
| A20Q HTUNL 1304 | 25 | 20 | 180 | 28 | 13 | 93° | 18 | 0,375 | ✓ |
| A25R HTUNL 1304 | 32 | 25 | 200 | 33 | 17 | 93° | 23 | 0,665 | ✓ |
| A32S HTUNL 1304 | 40 | 32 | 250 | 33 | 22 | 93° | 30 | 1,370 | ✓ |
| A16Q HTUNR 1304 | 20 | 16 | 180 | 25 | 11 | 93° | 15 | 0,250 | ✓ |
| A20Q HTUNR 1304 | 25 | 20 | 180 | 28 | 13 | 93° | 18 | 0,375 | ✓ |
| A25R HTUNR 1304 | 32 | 25 | 200 | 33 | 17 | 93° | 23 | 0,665 | ✓ |
| A32S HTUNR 1304 | 40 | 32 | 250 | 33 | 22 | 93° | 30 | 1,370 | ✓ |

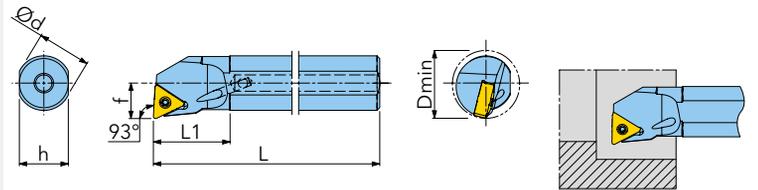
| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|------------|----------|-------------|--------|--------|---------|
| A16Q HTUNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HTUNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HTUNL 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HTUNL 1304 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8B | LSP 3B | - | L-W 2.5 |
| A16Q HTUNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A20Q HTUNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A25R HTUNR 1304 | TN_1304_ | LCL 08B-NX | LCS 3B | - | - | LSR 3B | L-W 2 |
| A32S HTUNR 1304 | TN_1304_ | LCL 08-NX | LCS 3-NX | LST 2.51.8B | LSP 3B | - | L-W 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Snap ring / Circlip ⑥ = Wrench / Clé de serrage

RHINOTURN A-STUNR/L 1304

A-STUNR/L 1304

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 60° TN_ 1304_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES TN_ 1304_ NÉGATIVES 60°



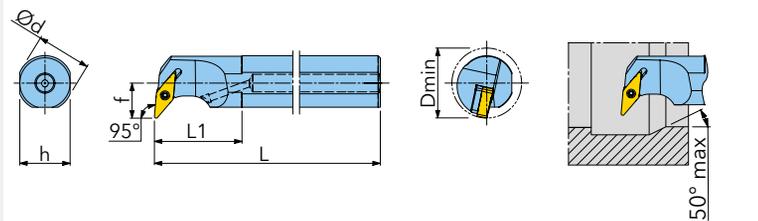
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK | | | | |
|----------------------------------|--------|----|-----|----|----|----------|----|-------|----|----------|--------------|-----|--------|
| A16Q STUNL 1304 | 20 | 16 | 180 | 25 | 11 | 93° | 15 | 0,245 | ✓ | TN_1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A20Q STUNL 1304 | 25 | 20 | 180 | 28 | 13 | 93° | 18 | 0,375 | ✓ | TN_1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A16Q STUNR 1304 | 20 | 16 | 180 | 25 | 11 | 93° | 15 | 0,245 | ✓ | TN_1304_ | TS 30080I/HG | T 9 | RSS M4 |
| A20Q STUNR 1304 | 25 | 20 | 180 | 28 | 13 | 93° | 18 | 0,375 | ✓ | TN_1304_ | TS 30080I/HG | T 9 | RSS M4 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Sealing screw / -

RHINOTURN A-SVLNR/L 1304

A-SVLNR/L 1304

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 35° VN_X 1304_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



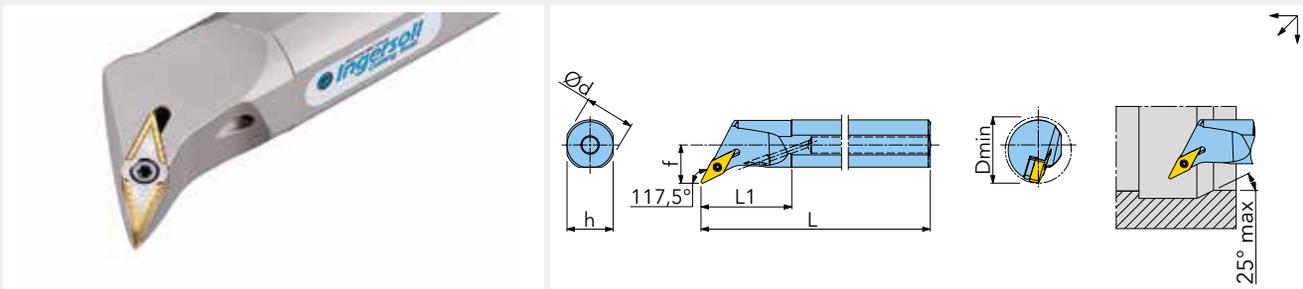
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|----------|----|-------|----|
| A25T SVLNL 1304 | 31 | 25 | 300 | 40 | 16 | 95° | 23 | 0,940 | ✓ |
| A32T SVLNL 1304 | 38 | 32 | 300 | 45 | 20 | 95° | 30 | 1,635 | ✓ |
| A25T SVLNR 1304 | 31 | 25 | 300 | 40 | 16 | 95° | 23 | 0,940 | ✓ |
| A32T SVLNR 1304 | 38 | 32 | 300 | 45 | 20 | 95° | 30 | 1,635 | ✓ |

For inserts VN_X 1304_ & YNMG 1304_ / Pour les plaquettes VN_X 1304_ & YNMG 1304_

| Designation Réf. de l'article | | | | | | |
|----------------------------------|------------|--------------|-----|------------|-------------|--------|
| A25T SVLNL 1304 | VN_X 1304_ | TS 30120I/HG | T 9 | SSVN 2.523 | TS 5030062S | LW 3.5 |
| A32T SVLNL 1304 | VN_X 1304_ | TS 30120I/HG | T 9 | SSVN 2.523 | TS 5030062S | LW 3.5 |
| A25T SVLNR 1304 | VN_X 1304_ | TS 30120I/HG | T 9 | SSVN 2.523 | TS 5030062S | LW 3.5 |
| A32T SVLNR 1304 | VN_X 1304_ | TS 30120I/HG | T 9 | SSVN 2.523 | TS 5030062S | LW 3.5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Wrench / Clé de serrage

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 35° VN_X 1304_ INSERTS
BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



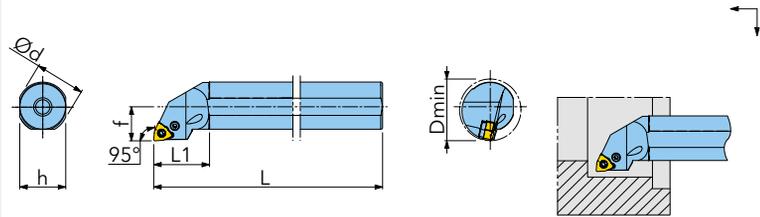
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|--------|----|-------|----|
| A25T SVPNL 1304 | 33 | 25 | 300 | 45 | 19 | 117,5° | 23 | 0,940 | ✓ |
| A32T SVPNL 1304 | 44 | 32 | 300 | 47 | 26 | 117,5° | 30 | 1,600 | ✓ |
| A25T SVPNR 1304 | 33 | 25 | 300 | 45 | 19 | 117,5° | 23 | 0,940 | ✓ |
| A32T SVPNR 1304 | 44 | 32 | 300 | 47 | 26 | 117,5° | 30 | 1,600 | ✓ |

For inserts VN_X 1304_ & YNMG 1304_ / Pour les plaquettes VN_X 1304_ & YNMG 1304_

| Designation Réf. de l'article |  |  |  |  |  |  |
|----------------------------------|---|---|---|---|--|---|
| A25T SVPNL 1304 | VN_X 1304_ | TS 30120I/HG | T9 | SSVN 2.523 | TS 5030062S | L-W 3.5 |
| A32T SVPNL 1304 | VN_X 1304_ | TS 30120I/HG | T9 | SSVN 2.523 | TS 5030062S | L-W 3.5 |
| A25T SVPNR 1304 | VN_X 1304_ | TS 30120I/HG | T9 | SSVN 2.523 | TS 5030062S | L-W 3.5 |
| A32T SVPNR 1304 | VN_X 1304_ | TS 30120I/HG | T9 | SSVN 2.523 | TS 5030062S | L-W 3.5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° TRIGON WNNX 0604_ INSERTS
BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ,, POUR PLAQUETTES WNNX 0604_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A16Q HWLNL 0604 | 20 | 16 | 180 | 30 | 11 | 95° | 15 | 0,245 | ✓ |
| A20Q HWLNL 0604 | 25 | 20 | 180 | 33 | 13 | 95° | 18 | 0,370 | ✓ |
| A25R HWLNL 0604 | 32 | 25 | 200 | 36 | 17 | 95° | 23 | 0,650 | ✓ |
| A32S HWLNL 0604 | 40 | 32 | 250 | 36 | 22 | 95° | 30 | 1,355 | ✓ |
| A16Q HWLNR 0604 | 20 | 16 | 180 | 30 | 11 | 95° | 15 | 0,245 | ✓ |
| A20Q HWLNR 0604 | 25 | 20 | 180 | 33 | 13 | 95° | 18 | 0,375 | ✓ |
| A25R HWLNR 0604 | 32 | 25 | 200 | 36 | 17 | 95° | 23 | 0,650 | ✓ |
| A32S HWLNR 0604 | 40 | 32 | 250 | 36 | 22 | 95° | 30 | 1,355 | ✓ |

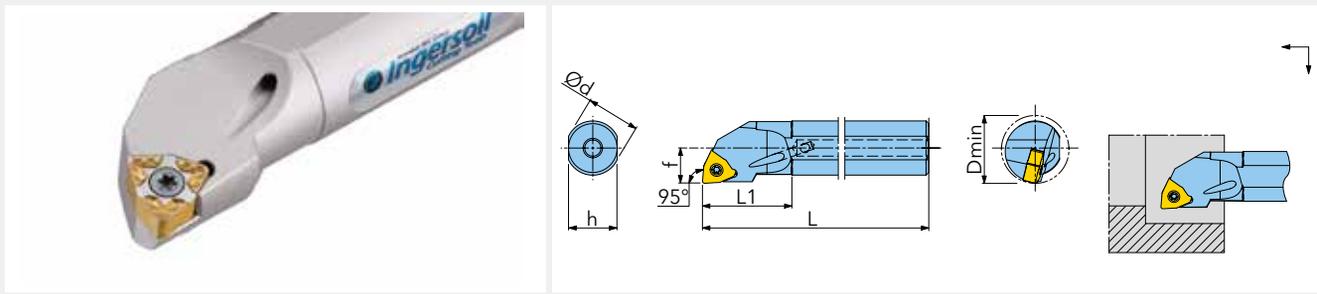
| Designation Réf. de l'article | | | | | | | |
|----------------------------------|------------|------------|--------|--------|--------|--------|--------|
| A16Q HWLNL 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A20Q HWLNL 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A25R HWLNL 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A32S HWLNL 0604 | WNNX 0604_ | LCL 09-NX | LCS 3 | - | LSW 32 | LSP 3A | LW 2.5 |
| A16Q HWLNR 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A20Q HWLNR 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A25R HWLNR 0604 | WNNX 0604_ | LCL 09B-NX | LCS 3B | LSR 3B | - | - | LW 2 |
| A32S HWLNR 0604 | WNNX 0604_ | LCL 09-NX | LCS 3 | - | LSW 32 | LSP 3A | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Circlip ④ = Shim / Assise de protection ⑤ = Shim pin / Goupille d'assise
⑥ = Wrench / Clé de serrage

RHINOTURN A-SWLNRL/L 0604

A-SWLNRL/L 0604

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 80° TRIGON WNMX 0604_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES WNMX 0604_ NÉGATIVES TRIGONE 80°



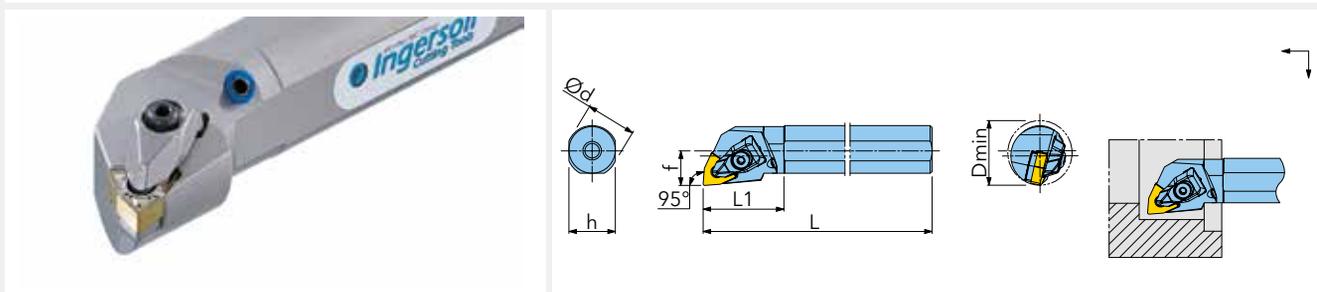
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK | | | | |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|------------|--------------|------|--------|
| A16Q SWLNL 0604 | 20 | 16 | 180 | 30 | 11 | 95° | 15 | 0,250 | ✓ | WNMX 0604_ | TS 350831/HG | T 10 | RSS M4 |
| A20Q SWLNL 0604 | 25 | 20 | 180 | 33 | 13 | 95° | 18 | 0,400 | ✓ | WNMX 0604_ | TS 350831/HG | T 10 | RSS M4 |
| A16Q SWLNR 0604 | 20 | 16 | 180 | 30 | 11 | 95° | 15 | 0,245 | ✓ | WNMX 0604_ | TS 350831/HG | T 10 | RSS M4 |
| A20Q SWLNR 0604 | 25 | 20 | 180 | 33 | 13 | 95° | 18 | 0,375 | ✓ | WNMX 0604_ | TS 350831/HG | T 10 | RSS M4 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Sealing screw /

RHINOTURN A-TWLNRL/L 0604

A-TWLNRL/L 0604

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° TRIGON WNNX 0604_ INSERTS
 BARRE D'ALÉSAGE À BRIDE AVEC ARROSAGE INÉGRÉ, POUR PLAQUETTES WNMX 0604_ NÉGATIVES TRIGONE 80°

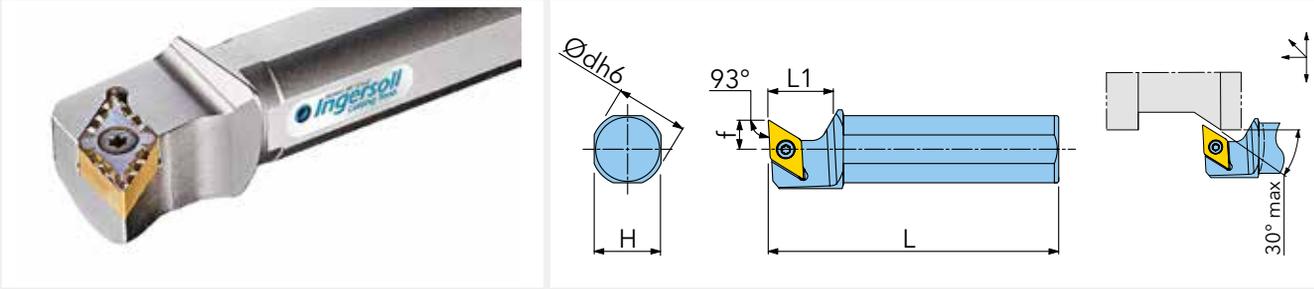


| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A25R TWLNL 0604 | 32 | 25 | 200 | 40 | 17 | 95° | 23 | 0,655 | ✓ |
| A32S TWLNL 0604 | 40 | 32 | 250 | 45 | 22 | 95° | 30 | 1,365 | ✓ |
| A25R TWLNR 0604 | 32 | 25 | 200 | 40 | 17 | 95° | 23 | 0,655 | ✓ |
| A32S TWLNR 0604 | 40 | 32 | 250 | 45 | 22 | 95° | 30 | 1,365 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|------------|----------|-------|--------|-----------|-------|-------|--------|------|
| A25R TWLNL 0604 | WNMX 0604_ | DLM 3-NX | DLS 3 | LSW 32 | SO 400731 | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A32S TWLNL 0604 | WNMX 0604_ | DLM 3-NX | DLS 3 | LSW 32 | SO 400851 | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A25R TWLNR 0604 | WNMX 0604_ | DLM 3-NX | DLS 3 | LSW 32 | SO 400731 | DSP 3 | NZ 62 | LW 2.5 | T 15 |
| A32S TWLNR 0604 | WNMX 0604_ | DLM 3-NX | DLS 3 | LSW 32 | SO 400851 | DSP 3 | NZ 62 | LW 2.5 | T 15 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Nozzle / Embout ⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage

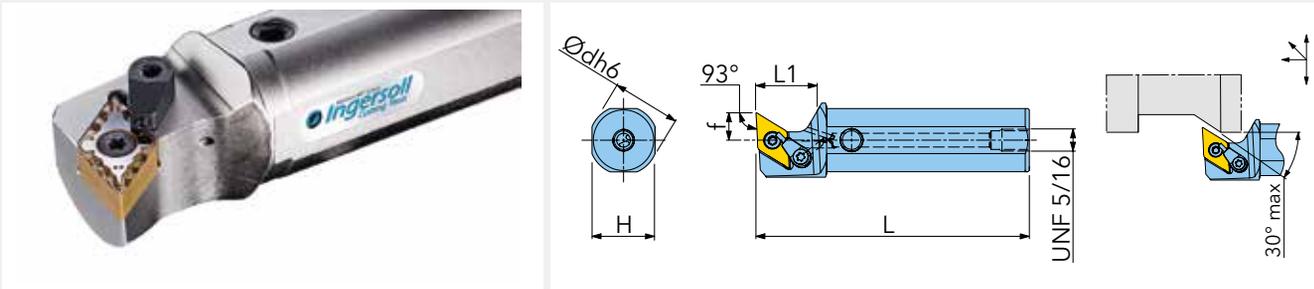
SLEEVE HOLDER WITH SCREW CLAMPING, FOR NEGATIVE DN_1305_ INSERTS
PORTE-OUTIL SERRAGE PAR VIS TYPE DOUILLE, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



| Designation Réf. de l'article | dh6 | L | L1 | H | f | kg | | | |
|----------------------------------|-------|-----|----|----|----|-------|------------|------------|------|
| TMS-16X SDUNL 1305 | 16 | 85 | 22 | 15 | 10 | 0,160 | DN_G 1305_ | TS 40G110I | T 15 |
| TMS-19.05H SDUNL 1305 | 19,05 | 100 | 22 | 17 | 10 | 0,255 | DN_G 1305_ | TS 40G110I | T 15 |
| TMS-20H SDUNL 1305 | 20 | 100 | 22 | 18 | 10 | 0,240 | DN_G 1305_ | TS 40G110I | T 15 |
| TMS-22H SDUNL 1305 | 22 | 100 | 22 | 20 | 10 | 0,280 | DN_G 1305_ | TS 40G110I | T 15 |
| TMS-25H SDUNL 1305 | 25 | 100 | 22 | 23 | 10 | 0,345 | DN_G 1305_ | TS 40G110I | T 15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

SLEEVE HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE DN_1305_ INSERTS
PORTE-OUTIL SERRAGE PAR VIS TYPE DOUILLE AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES DN_1305_ NÉGATIVES 55°



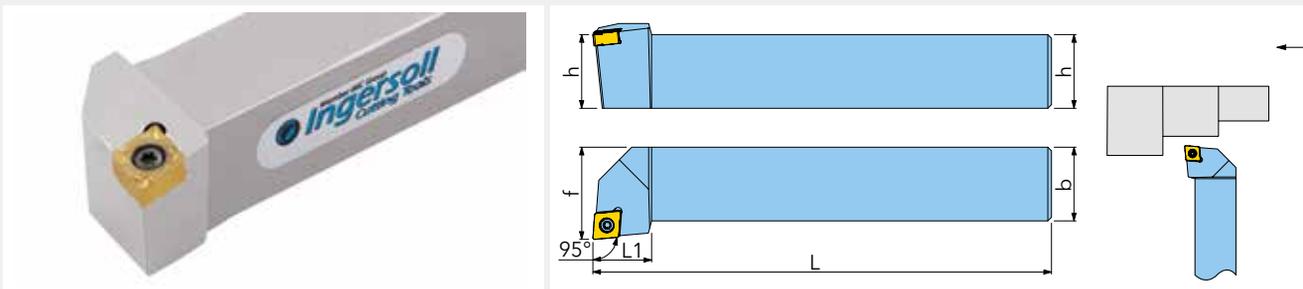
| Designation Réf. de l'article | dh6 | L | L1 | H | f | kg | | | | | | | |
|----------------------------------|-----|-----|----|----|----|-------|---|------------|------------|------|-------|--------------|---------|
| TMS-25H SDUNL 1305-TB | 25 | 100 | 22 | 23 | 10 | 0,355 | ✓ | DN_G 1305_ | TS 40G110I | T 15 | SCUTB | PLG 5/16 UNF | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage ④ = Plug / Tube ⑤ = Wrench / Clé de serrage

RHINOTURN™ SCLNR/L 0704

SCLNR/L 0704

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 80° CNMX 0703_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES CNMX 0703_ NÉGATIVES 80°



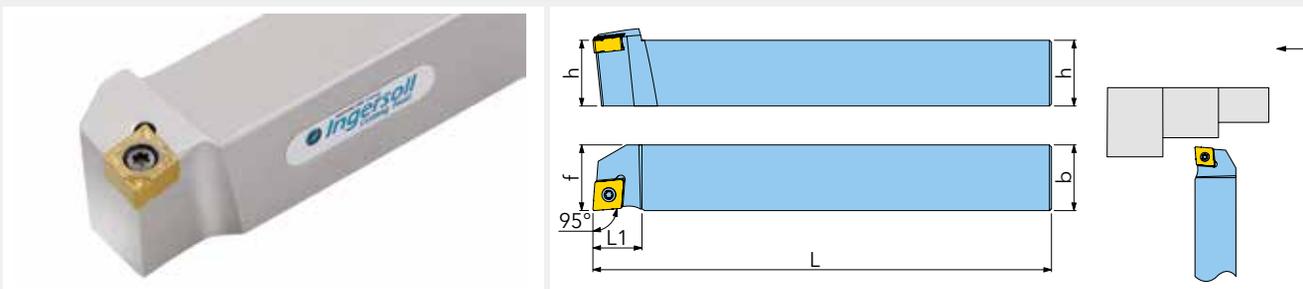
| Designation Réf. de l'article | L | L1 | f | h | b | kg |  |  |  |
|----------------------------------|-----|----|----|----|----|------|---|---|---|
| SCLNL 1616 H0703 | 100 | 12 | 20 | 16 | 16 | 0,22 | CNMX 0703_ | TS 25D060/HG-P | T7P |
| SCLNL 2020 K0703 | 125 | 16 | 25 | 20 | 20 | 0,41 | CNMX 0703_ | TS 25D060/HG-P | T7P |
| SCLNR 1616 H0703 | 100 | 12 | 20 | 16 | 16 | 0,22 | CNMX 0703_ | TS 25D060/HG-P | T7P |
| SCLNR 2020 K0703 | 125 | 16 | 25 | 20 | 20 | 0,41 | CNMX 0703_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

RHINOTURN™ SCLNR -RS 0704

SCLNR -RS 0704

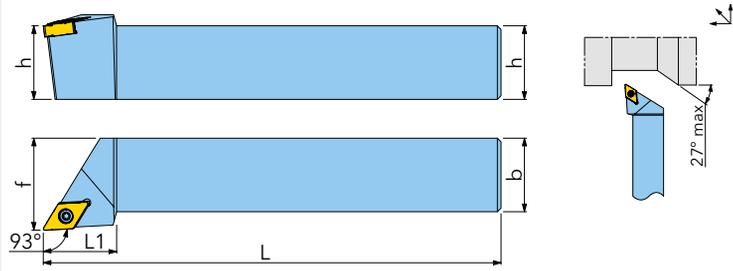
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 80° CNMX 0703_ INSERTS
 PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES CNMX 0703_ NÉGATIVES 80°



| Designation Réf. de l'article | L | L1 | f | h | b | kg |  |  |  |
|----------------------------------|-----|----|----|----|----|------|---|---|---|
| SCLNR 1212 K0703-RS | 125 | 12 | 12 | 12 | 12 | 0,16 | CNMX 0703_ | TS 25D060/HG-P | T7P |
| SCLNR 1616 K0703-RS | 125 | 12 | 16 | 16 | 16 | 0,27 | CNMX 0703_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

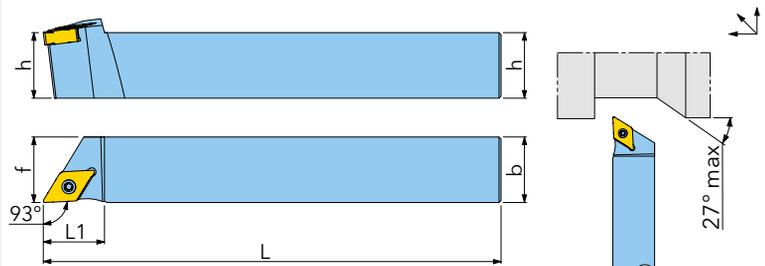
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 55° DN_X 0803_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES DN_X 0803_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | h | b | kg | | | |
|----------------------------------|-----|----|----|----|----|------|-----------|----------------|-----|
| SDJNL 1616 H0803 | 100 | 16 | 20 | 16 | 16 | 0,21 | DN_X0803_ | TS 25D060/HG-P | T7P |
| SDJNL 2020 K0803 | 125 | 20 | 25 | 20 | 20 | 0,40 | DN_X0803_ | TS 25D060/HG-P | T7P |
| SDJNR 1616 H0803 | 100 | 16 | 20 | 16 | 16 | 0,21 | DN_X0803_ | TS 25D060/HG-P | T7P |
| SDJNR 2020 K0803 | 125 | 20 | 25 | 20 | 20 | 0,40 | DN_X0803_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

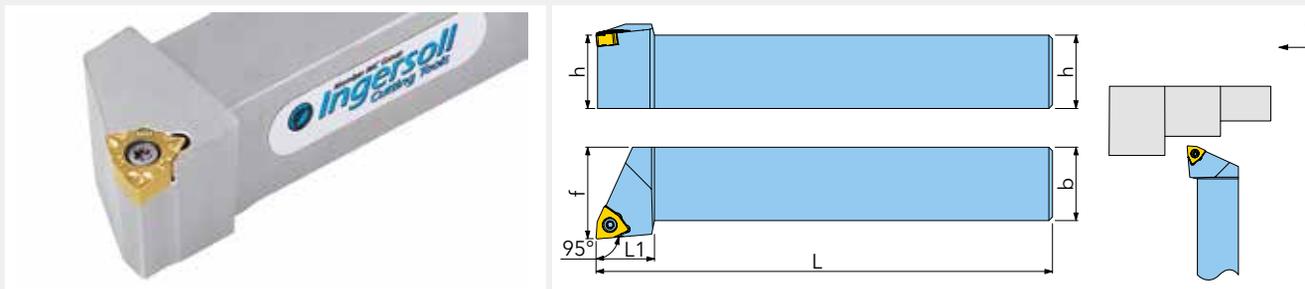
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 55° DN_X 0803_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES DN_X 0803_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | h | b | kg | | | |
|----------------------------------|-----|----|----|----|----|------|-----------|----------------|-----|
| SDJNR 1212 K0803-RS | 125 | 15 | 12 | 12 | 12 | 0,15 | DN_X0803_ | TS 25D060/HG-P | T7P |
| SDJNR 1616 K0803-RS | 125 | 15 | 16 | 16 | 16 | 0,26 | DN_X0803_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

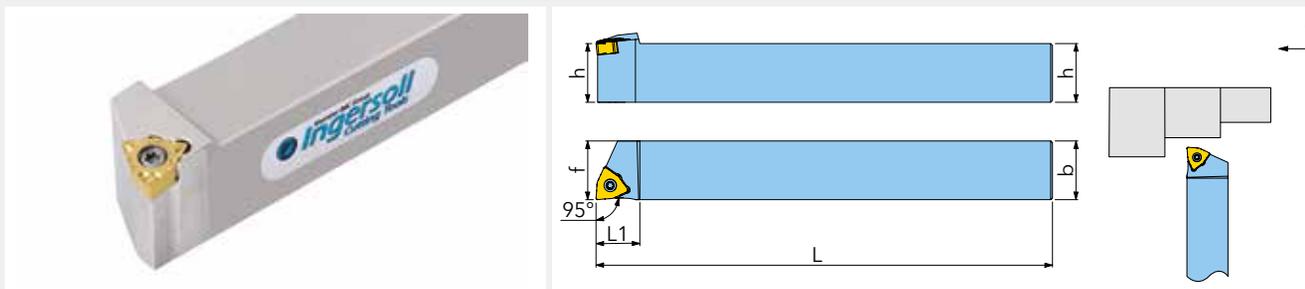
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 80° TRIGON WNMX 0403_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES WNMX 0403_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | L | L1 | f | h | b | kg |  |  |  |
|----------------------------------|-----|----|----|----|----|------|---|---|---|
| SWLNL 1616 H0403 | 100 | 16 | 20 | 16 | 16 | 0,22 | WNMX 0403_ | TS 25D060/HG-P | T7P |
| SWLNL 2020 K0403 | 125 | 16 | 25 | 20 | 20 | 0,41 | WNMX 0403_ | TS 25D060/HG-P | T7P |
| SWLNR 1616 H0403 | 100 | 16 | 20 | 16 | 16 | 0,22 | WNMX 0403_ | TS 25D060/HG-P | T7P |
| SWLNR 2020 K0403 | 125 | 16 | 25 | 20 | 20 | 0,41 | WNMX 0403_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 80° TRIGON WNMX 0403_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES WNMX 0403_ NÉGATIVES TRIGONE 80°



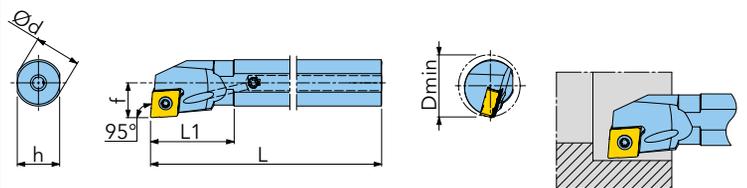
| Designation Réf. de l'article | L | L1 | f | h | b | kg |  |  |  |
|----------------------------------|-----|----|----|----|----|------|---|---|---|
| SWLNR 1212 K0403-RS | 125 | 12 | 12 | 12 | 12 | 0,16 | WNMX 0403_ | TS 25D060/HG-P | T7P |
| SWLNR 1616 K0403-RS | 125 | 12 | 16 | 16 | 16 | 0,27 | WNMX 0403_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

RHINOTURN[™] A-SCLNR/L 0703

A-SCLNR/L 0703

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 80° CNMX 0703_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES CNMX 0703_ NÉGATIVES 80°



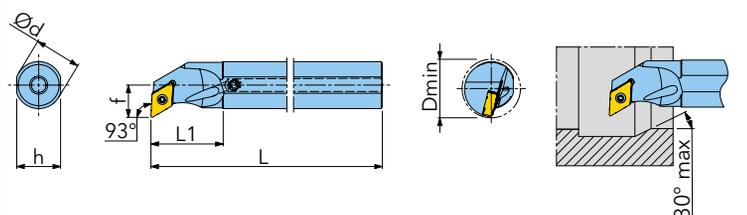
| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK | 80° | ① | ② |
|----------------------------------|--------|----|-----|------|----|----|------|----|------------|----------------|-----|
| A12M SCLNL 0703 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | CNMX 0703_ | TS 25D060/HG-P | T7P |
| A16Q SCLNL 0703 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | CNMX 0703_ | TS 25D060/HG-P | T7P |
| A12M SCLNR 0703 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | CNMX 0703_ | TS 25D060/HG-P | T7P |
| A16Q SCLNR 0703 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | CNMX 0703_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

RHINOTURN[™] A-SDUNR/L 0803

A-SDUNR/L 0803

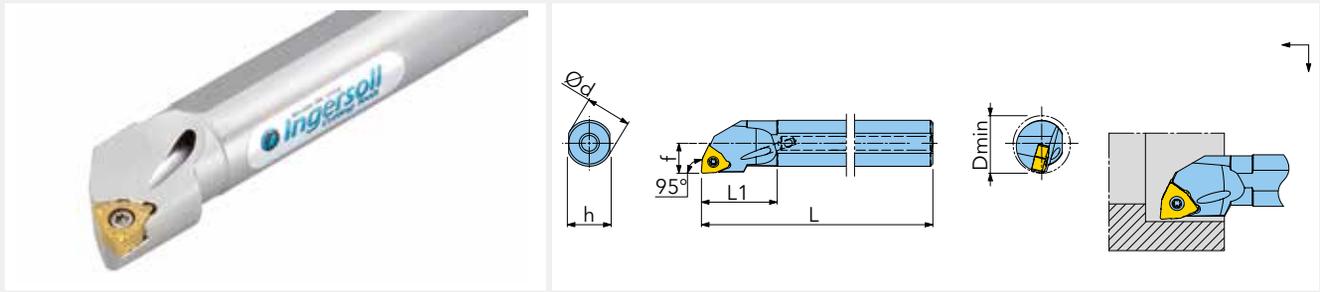
SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 55° DN_X 0803_ INSERTS
 BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES DN_X 0803_ NÉGATIVES 55°



| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK | 55° | ① | ② |
|----------------------------------|--------|----|-----|------|----|----|------|----|------------|----------------|-----|
| A12M SDUNL 0803 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |
| A16Q SDUNL 0803 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |
| A12M SDUNR 0803 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |
| A16Q SDUNR 0803 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

SCREW CLAMPING TYPE BORING BAR WITH INTERNAL COOLANT, FOR NEGATIVE 80° TRIGON WNMX 0403_ INSERTS
BARRE D'ALÉSAGE À SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES WNMX 0403_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK |  |  |  |
|----------------------------------|--------|----|-----|------|----|----|------|----|---|---|---|
| A12M SWLNL 0403 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | WNMX 0403_ | TS 25D060/HG-P | T7P |
| A16Q SWLNL 0403 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | WNMX 0403_ | TS 25D060/HG-P | T7P |
| A12M SWLNR 0403 | 16 | 12 | 150 | 21,5 | 9 | 11 | 1,00 | ✓ | WNMX 0403_ | TS 25D060/HG-P | T7P |
| A16Q SWLNR 0403 | 20 | 16 | 180 | 24,5 | 11 | 15 | 1,00 | ✓ | WNMX 0403_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°

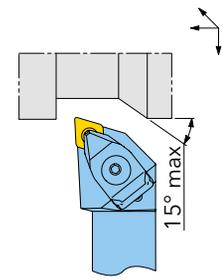
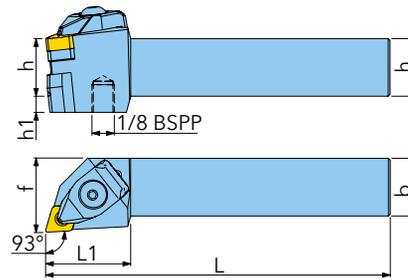


| Designation Réf. de l'article | L | L1 | f | h | b | kg |
|----------------------------------|-----|----|----|----|----|------|
| TXJNL 2020 K0904 | 125 | 25 | 25 | 20 | 20 | 0,22 |
| TXJNL 2525 M0904 | 150 | 25 | 32 | 25 | 25 | 0,76 |
| TXJNL 2020 K1105 | 125 | 32 | 25 | 20 | 20 | 0,44 |
| TXJNL 2525 M1105 | 150 | 32 | 32 | 25 | 25 | 0,76 |
| TXJNR 2020 K0904 | 125 | 25 | 25 | 20 | 20 | 0,22 |
| TXJNR 2525 M0904 | 150 | 25 | 32 | 25 | 25 | 0,76 |
| TXJNR 2020 K1105 | 125 | 32 | 25 | 20 | 20 | 0,44 |
| TXJNR 2525 M1105 | 150 | 32 | 32 | 25 | 25 | 0,76 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|-----------|------------|-------|-------|----------|-----------|---------|------|
| TXJNL 2020 K0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | LW 2.5 | T 15 |
| TXJNL 2525 M0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | LW 2.5 | T 15 |
| TXJNL 2020 K1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXJNL 2525 M1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXJNR 2020 K0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | LW 2.5 | T 15 |
| TXJNR 2525 M0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | LW 2.5 | T 15 |
| TXJNR 2020 K1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXJNR 2525 M1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH-PRESSURE COOLANT, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE TYPE "T" AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°

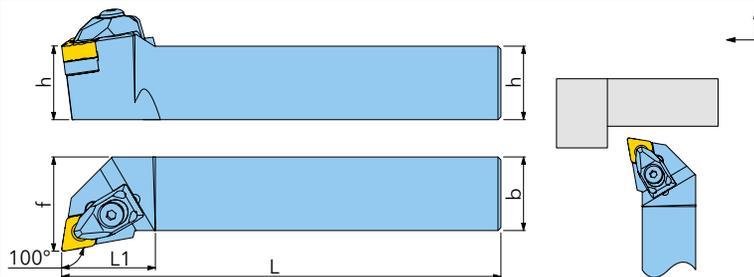


| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|----|------|----|
| TXJNL 2525 M0904-TB | 150 | 30 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TXJNL 2525 M1105-TB | 150 | 37 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TXJNR 2525 M0904-TB | 150 | 30 | 32 | 25 | 7 | 25 | 0,85 | ✓ |
| TXJNR 2525 M1105-TB | 150 | 37 | 32 | 25 | 7 | 25 | 0,85 | ✓ |

| Designation Réf. de l'article | | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-----------|---------------|--------------------|-------|--------------------|--------------------|----------|-----------|---------|
| TXJNL 2525 M0904-TB | XNM_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | TSX 2.73 | SO 40085I | WS-0060 |
| TXJNL 2525 M1105-TB | XNM_1105_ | DLM 3.5-NX-TB | BH M5X0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | TSX 3.53 | SO 50090I | WS-0060 |
| TXJNR 2525 M0904-TB | XNM_0904_ | DLM 3-NX-TB | BH M4X0.7X16-TB | DSP 3 | O-RING ID4.47X1.78 | O-RING ID6.07X1.78 | TSX 2.73 | SO 40085I | WS-0060 |
| TXJNR 2525 M1105-TB | XNM_1105_ | DLM 3.5-NX-TB | BH M5X0.8X21-MO-TB | DSP 4 | O-RING ID5.28X1.78 | O-RING ID7.59X2.62 | TSX 3.53 | SO 50090I | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Shim / Assise de protection
⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 70° XNMG 0904 /1105 INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES XNMG 0904 /1105 NÉGATIVES 70°



| Designation Réf. de l'article | L | L1 | f | h | b | kg |
|----------------------------------|-----|----|----|----|----|------|
| TXQNL 2020 K0904 | 125 | 25 | 25 | 20 | 20 | 0,22 |
| TXQNL 2525 M0904 | 150 | 25 | 32 | 25 | 25 | 0,76 |
| TXQNL 2020 K1105 | 125 | 32 | 25 | 20 | 20 | 0,44 |
| TXQNL 2525 M1105 | 150 | 32 | 32 | 25 | 25 | 0,76 |
| TXQNR 2020 K0904 | 125 | 25 | 25 | 20 | 20 | 0,22 |
| TXQNR 2525 M0904 | 150 | 25 | 32 | 25 | 25 | 0,76 |
| TXQNR 2020 K1105 | 125 | 32 | 25 | 20 | 20 | 0,44 |
| TXQNR 2525 M1105 | 150 | 32 | 32 | 25 | 25 | 0,76 |

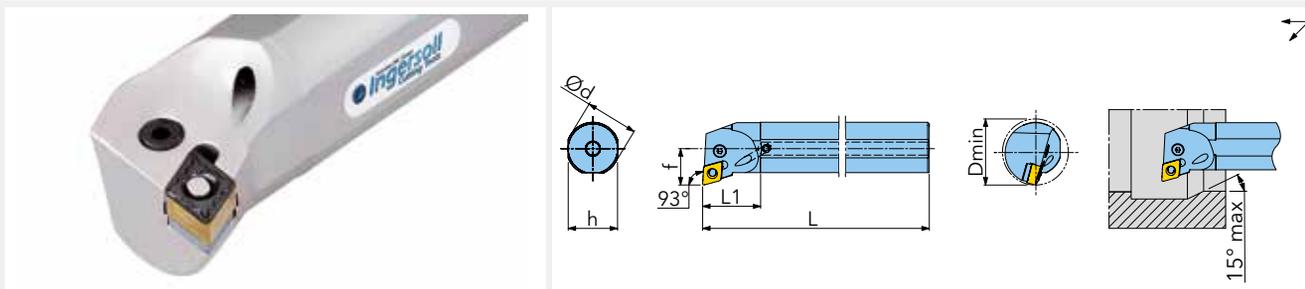
| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|-----------|------------|-------|-------|----------|-----------|---------|------|
| TXQNL 2020 K0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | L-W 2.5 | T 15 |
| TXQNL 2525 M0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | L-W 2.5 | T 15 |
| TXQNL 2020 K1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXQNL 2525 M1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXQNR 2020 K0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | L-W 2.5 | T 15 |
| TXQNR 2525 M0904 | XNM_0904_ | DLM 2.5-NX | DLS 3 | DSP 3 | TSX 2.73 | SO 40085I | L-W 2.5 | T 15 |
| TXQNR 2020 K1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |
| TXQNR 2525 M1105 | XNM_1105_ | DLM 3-NX | DLS 4 | DSP 4 | TSX 3.53 | SO 50090I | WS-0060 | T 20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

RHINOTURN[®] A-HXUNR/L 1105_

A-HXUNR/L 1105_

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
 BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°



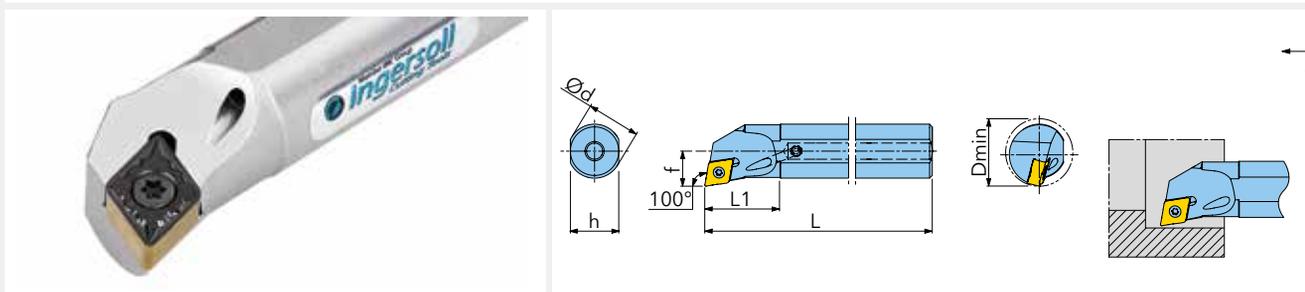
| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK | 70° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|--------|----|-----|----|----|----|------|----|-----------|-----------|--------|-----------|-------|---------|
| A32S HXUNL 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,47 | ✓ | XNM_1105_ | LCL 11-NX | LCS 4S | LSX 3.52B | LSP 4 | WS-0060 |
| A32S HXUNR 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,47 | ✓ | XNM_1105_ | LCL 11-NX | LCS 4S | LSX 3.52B | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

RHINOTURN[®] A-SXQNR/L 0904_/1105_

A-SXQNR/L 0904_/1105_

INTERNAL TOOL HOLDER WITH TOP CLAMP AND INTERNAL COOLANT, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
 BARRE D'ALÉSAGE SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°



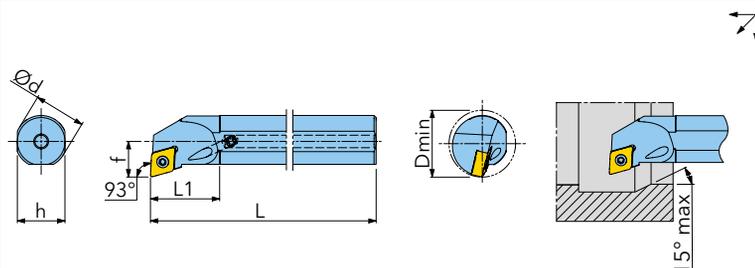
| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK | 70° | ① | ② |
|----------------------------------|--------|----|-----|------|----|----|------|----|-----------|--------------|-----|
| A16Q SXQNL 0904 | 20 | 16 | 180 | 24,5 | 11 | 15 | 0,30 | ✓ | XNM_0904_ | TS 30080I/HG | T9 |
| A20Q SXQNL 0904 | 25 | 20 | 180 | 28 | 13 | 18 | 0,40 | ✓ | XNM_0904_ | TS 30080I/HG | T9 |
| A20Q SXQNL 1105 | 25 | 20 | 180 | 28 | 13 | 18 | 0,40 | ✓ | XNM_1105_ | TS 40G110I | T15 |
| A16Q SXQNR 0904 | 20 | 16 | 180 | 24,5 | 11 | 15 | 0,30 | ✓ | XNM_0904_ | TS 30080I/HG | T9 |
| A20Q SXQNR 0904 | 25 | 20 | 180 | 28 | 13 | 18 | 0,40 | ✓ | XNM_0904_ | TS 30080I/HG | T9 |
| A20Q SXQNR 1105 | 25 | 20 | 180 | 28 | 13 | 18 | 0,40 | ✓ | XNM_1105_ | TS 40G110I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

RHINOTURN[®] A-SXUNR/L 1105_

A-SXUNR/L 1105_

INTERNAL TOOL HOLDER WITH TOP CLAMP AND INTERNAL COOLANT, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
 BARRE D'ALÉSAGE SERRAGE PAR VIS AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES XNMG 0904_/1105 NÉGATIVES 70°



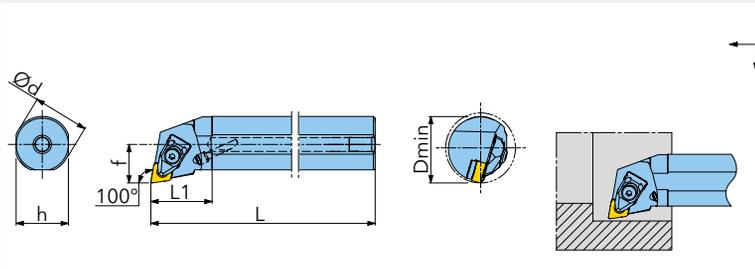
| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK | | | |
|----------------------------------|--------|----|-----|------|----|----|------|----|-----------|------------|-----|
| A25R SXUNL 1105 | 32 | 25 | 200 | 33,4 | 17 | 23 | 0,72 | ✓ | XNM_1105_ | TS 40G110I | T15 |
| A25R SXUNR 1105 | 32 | 25 | 200 | 33,4 | 17 | 23 | 0,72 | ✓ | XNM_1105_ | TS 40G110I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

RHINOTURN[®] A-TXQNR/L 1105_

A-TXQNR/L 1105_

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
 BARRE D'ALÉSAGE SERRAGE TYPE "T" AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°

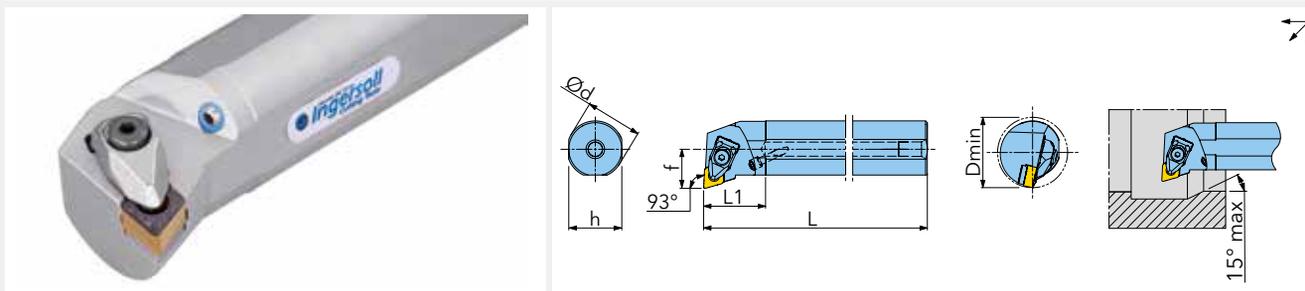


| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK |
|----------------------------------|--------|----|-----|------|----|----|------|----|
| A25R TXQNL 1105 | 32 | 25 | 200 | 33,4 | 17 | 23 | 0,72 | ✓ |
| A32S TXQNL 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,46 | ✓ |
| A25R TXQNR 1105 | 32 | 25 | 200 | 33,4 | 17 | 23 | 0,72 | ✓ |
| A32S TXQNR 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,46 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-----------|------------|-------|-------|-----------|------------|-------|---------|-----|
| A25R TXQNL 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | - | - | NZ 62 | WS-0060 | - |
| A32S TXQNL 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | LSX 3.52B | TS 50A105I | NZ 62 | WS-0060 | T20 |
| A25R TXQNR 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | - | - | NZ 62 | WS-0060 | - |
| A32S TXQNR 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | LSX 3.52B | TS 50A105I | NZ 62 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage ⑥ = Nozzle / Embout
 ⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 70° XNMG 0904_/1105_ INSERTS
BARRE D'ALÉSAGE SERRAGE TYPE "T" ARROSAGE INTÉGRÉ, POUR PLAQUETTES XNMG 0904_/1105_ NÉGATIVES 70°



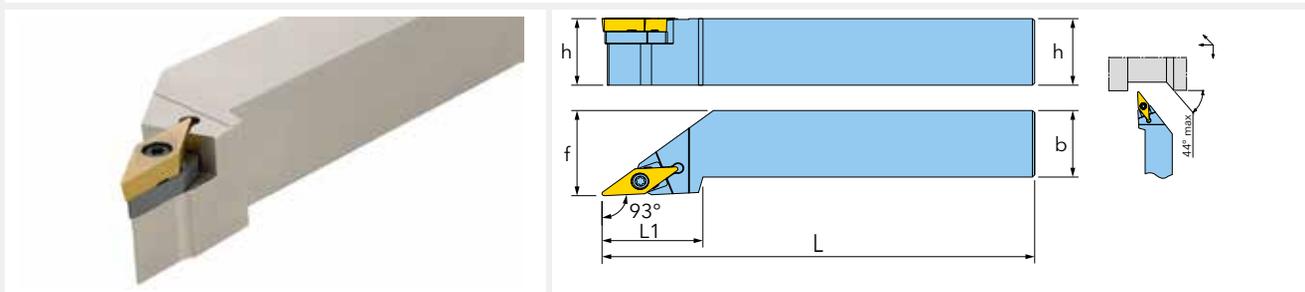
| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|----|------|----|
| A32S TXUNL 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,47 | ✓ |
| A32S TXUNR 1105 | 40 | 32 | 250 | 35 | 22 | 30 | 1,47 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-----------|------------|-------|-------|-----------|------------|-------|---------|-----|
| A32S TXUNL 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | LSX 3.52B | TS 50A105I | NZ 62 | WS-0060 | T20 |
| A32S TXUNR 1105 | XNM_1105_ | DLM 3.5-NX | DLS 4 | DSP 4 | LSX 3.52B | TS 50A105I | NZ 62 | WS-0060 | T20 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage ⑥ = Nozzle / Embout
 ⑦ = Wrench / Clé de serrage ⑧ = Wrench / Clé de serrage

MULTITURN LVJBR/L
LVJBR/L

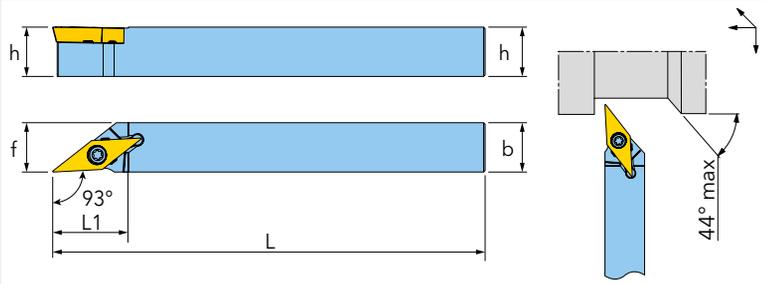
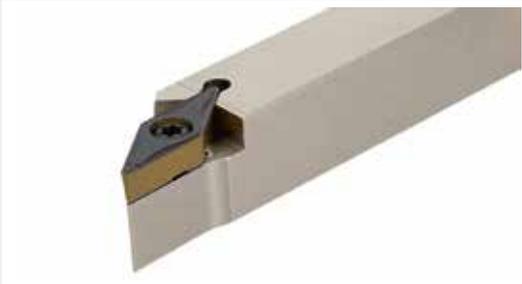
SCREW CLAMPING HOLDER, FOR VBMX INSERTS
PORTE-OUTIL EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VBMX



| Designation Réf. de l'article | L1 | L2 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|----|----|----|-------|------------|-----------|---------|-------------|--------|-----|
| LVJBL 2020 K16 | 125 | 35 | 25 | 93 | 20 | 20 | 0,390 | VBMX_1604_ | SO 35124I | SSVX 32 | TS 5035062S | LW 3.5 | T15 |
| LVJBL 2525 M16 | 150 | 35 | 32 | 93 | 25 | 25 | 0,700 | VBMX_1604_ | SO 35124I | SSVX 32 | TS 5035062S | LW 3.5 | T15 |
| LVJBR 2020 K16 | 125 | 35 | 25 | 93 | 20 | 20 | 0,390 | VBMX_1604_ | SO 35124I | SSVX 32 | TS 5035062S | LW 3.5 | T15 |
| LVJBR 2525 M16 | 150 | 35 | 32 | 93 | 25 | 25 | 0,700 | VBMX_1604_ | SO 35124I | SSVX 32 | TS 5035062S | LW 3.5 | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Wrench / Clé de serrage

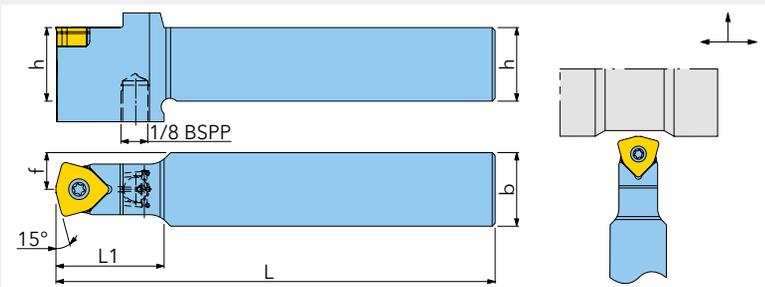
SCREW CLAMPING HOLDER, FOR VBMX INSERTS
PORTE-OUTIL EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VBMX



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | |
|----------------------------------|-----|------|----|----|----|----|-------|------------|-----------|-----|
| LVJBR 1616 K16-SH | 125 | 24,5 | 16 | 93 | 16 | 16 | 0,245 | VBMX_1604_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

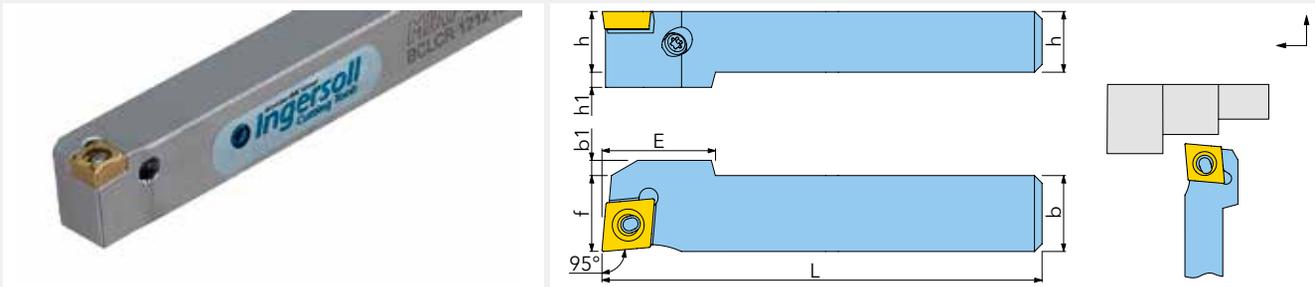
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR FCMX_ POSITIVE HIGH PRESSURE INSERT
PORTE-OUTIL EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES FCMX, ARROSAGE HAUTE PRESSION



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | |
|----------------------------------|-----|----|------|----|----|----|------|------------|-----------|-----|
| SFXCN 2525 M1006 | 150 | 37 | 12,5 | 15 | 25 | 25 | 0,75 | FCMX 1006_ | SO 451301 | T20 |
| SFXCN 3232 P1006 | 170 | 37 | 16 | 15 | 32 | 32 | 1,25 | FCMX 1006_ | SO 451301 | T20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

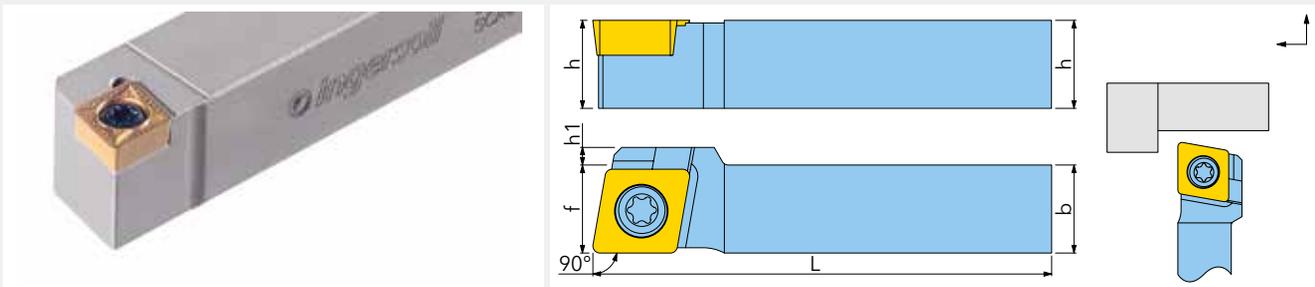
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE CC_ INSERTS
PORTE-OUTIL DE DECOLLETAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CC_ POSITIVES 80°



| Designation Réf. de l'article | L | E | f | h | h1 | b | b1 | kg | | | | | |
|----------------------------------|-----|----|----|----|----|----|----|-------|----------|--------|--------|--------|-------|
| BCLCL 1010 K06-SH | 125 | - | 10 | 10 | - | 10 | - | 0,095 | CC_0602_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BCLCL 1010 K09-SH | 125 | 17 | 10 | 10 | 3 | 10 | 4 | 0,100 | CC_09T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BCLCL 1212 K06-SH | 125 | - | 12 | 12 | - | 12 | - | 0,140 | CC_0602_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BCLCL 1212 K09-SH | 125 | 17 | 12 | 12 | 1 | 12 | 2 | 0,140 | CC_09T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BCLCR 1010 K06-SH | 125 | - | 10 | 10 | - | 10 | - | 0,095 | CC_0602_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BCLCR 1010 K09-SH | 125 | 17 | 10 | 10 | 3 | 10 | 4 | 0,100 | CC_09T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BCLCR 1212 K06-SH | 125 | - | 12 | 12 | - | 12 | - | 0,140 | CC_0602_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BCLCR 1212 K09-SH | 125 | 17 | 12 | 12 | 1 | 12 | 2 | 0,140 | CC_09T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Wrench / Clé de serrage

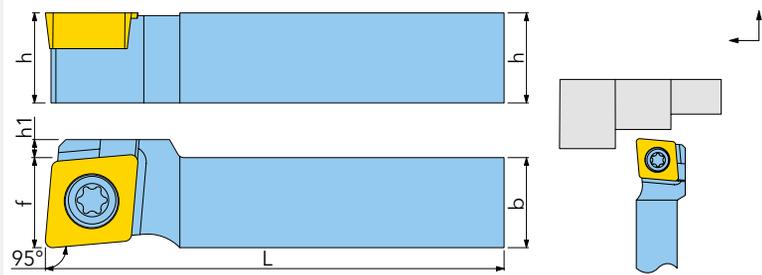
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND SHORT HEAD, FOR POSITIVE 80° CC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DECOLLETAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES CC_ 80°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|-----|----|-----|----|----|----|-------|----------|-----------|------|
| SCACL 1010 K09-SH | 125 | 10 | 90° | 10 | 2 | 10 | 0,095 | CC_09T3_ | SO 350801 | T 15 |
| SCACR 0808 K06-SH | 125 | 8 | 90° | 8 | 0 | 8 | 0,060 | CC_0602_ | SO 250651 | T 7 |
| SCACR 1010 K06-SH | 125 | 10 | 90° | 10 | 0 | 10 | 0,095 | CC_0602_ | SO 250651 | T 7 |
| SCACR 1212 K09-SH | 125 | 12 | 90° | 12 | 0 | 12 | 0,135 | CC_09T3_ | SO 350801 | T 15 |
| SCACR 1616 K09-SH | 125 | 16 | 90° | 16 | 0 | 16 | 0,240 | CC_09T3_ | SO 350801 | T 15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

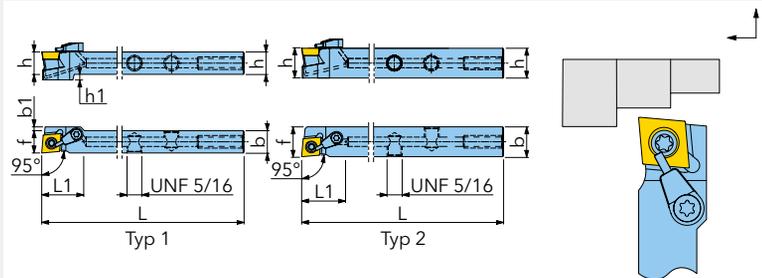
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND SHORT HEAD, FOR POSITIVE 80° CC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES CC_ 80°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|-----|----|-----|----|----|----|-------|----------|-----------|-----|
| SCLCR 1010 K06-SH | 125 | 10 | 95° | 10 | 0 | 10 | 0,095 | CC_0602_ | SO 250651 | T7 |
| SCLCR 1010 K09-SH | 125 | 10 | 95° | 10 | 2 | 10 | 0,095 | CC_09T3_ | SO 350801 | T15 |
| SCLCR 1212 K09-SH | 125 | 12 | 95° | 12 | 0 | 12 | 0,135 | CC_09T3_ | SO 350801 | T15 |
| SCLCR 1616 K09-SH | 125 | 16 | 95° | 16 | 0 | 16 | 0,240 | CC_09T3_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 80° CC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES POSITIVES CC_ 80°, 7° DE DÉPOUILLE

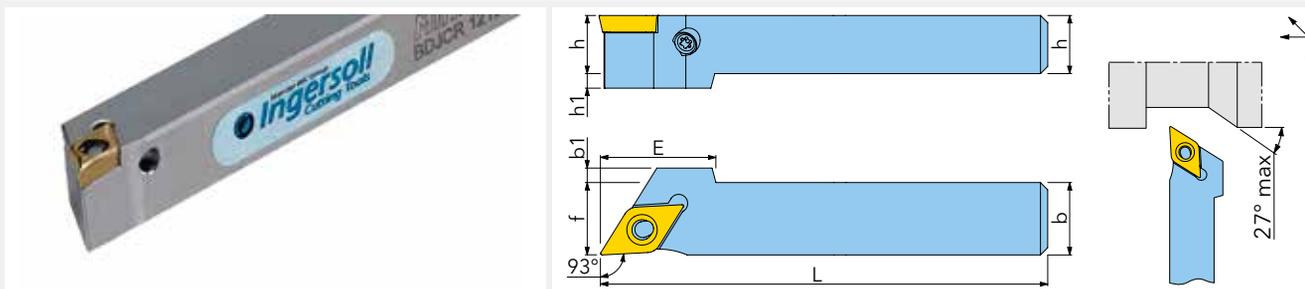


| Designation Réf. de l'article | L | L1 | f | κ | h | h1 | b | b1 | Typ | kg | |
|----------------------------------|-----|----|----|-----|----|----|----|----|-----|-------|---|
| SCLCL 1212 K09-SH-TB | 125 | 23 | 12 | 95° | 12 | 3 | 12 | 2 | 1 | 0,125 | ✓ |
| SCLCL 1616 K09-SH-TB | 125 | 23 | 16 | 95° | 16 | - | 16 | - | 2 | 0,220 | ✓ |
| SCLCR 1212 K09-SH-TB | 125 | 23 | 12 | 95° | 12 | 3 | 12 | 2 | 1 | 0,125 | ✓ |
| SCLCR 1616 K09-SH-TB | 125 | 23 | 16 | 95° | 16 | - | 16 | - | 2 | 0,220 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|-----|---------|
| SCLCL 1212 K09-SH-TB | CC_09T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SCLCL 1616 K09-SH-TB | CC_09T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SCLCR 1212 K09-SH-TB | CC_09T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SCLCR 1616 K09-SH-TB | CC_09T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

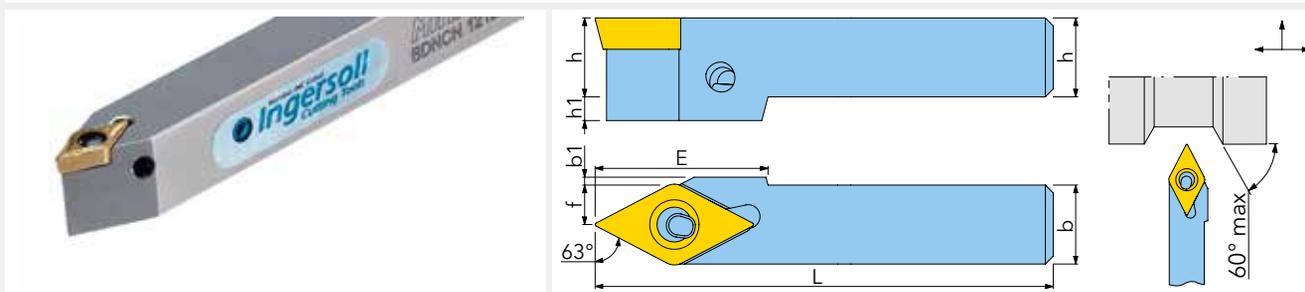
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE DC_ INSERTS
PORTE-OUTIL DE DECOLLETAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DC_ POSITIVES 55°



| Designation Réf. de l'article | L | E | f | h | h1 | b | b1 | kg | | | | | |
|----------------------------------|-----|----|----|----|----|----|----|-------|----------|--------|--------|--------|-------|
| BDJCL 1010 K07-SH | 125 | - | 10 | 10 | - | 10 | - | 0,090 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDJCL 1010 K11-SH | 125 | 17 | 10 | 10 | 3 | 10 | 4 | 0,100 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BDJCL 1212 K07-SH | 125 | - | 12 | 12 | - | 12 | - | 0,135 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDJCL 1212 K11-SH | 125 | 17 | 12 | 12 | 1 | 12 | 2 | 0,130 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BDJCR 1010 K07-SH | 125 | - | 10 | 10 | - | 10 | - | 0,095 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDJCR 1010 K11-SH | 125 | 17 | 10 | 10 | 3 | 10 | 4 | 0,100 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BDJCR 1212 K07-SH | 125 | - | 12 | 12 | - | 12 | - | 0,135 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDJCR 1212 K11-SH | 125 | 17 | 12 | 12 | 1 | 12 | 2 | 0,135 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Wrench / Clé de serrage

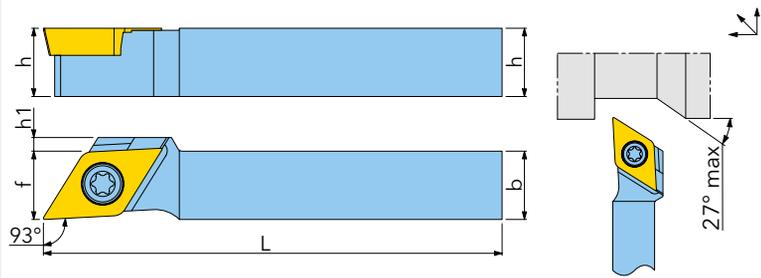
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE DC_ INSERTS
PORTE-OUTIL DE DECOLLETAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DC_ POSITIVES 55°



| Designation Réf. de l'article | L | E | f | h | h1 | b | kg | | | | | |
|----------------------------------|-----|----|---|----|----|----|-------|----------|--------|--------|--------|-------|
| BDNCN 1010 K07-SH | 125 | - | 5 | 10 | - | 10 | 0,009 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDNCN 1010 K11-SH | 125 | 22 | 5 | 10 | 3 | 10 | 0,095 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |
| BDNCN 1212 K07-SH | 125 | - | 6 | 12 | - | 12 | 0,130 | DC_0702_ | BLCL 2 | BLCS 2 | BLSR 2 | T 6 |
| BDNCN 1212 K11-SH | 125 | 22 | 6 | 12 | 1 | 12 | 0,130 | DC_11T3_ | BLCL 3 | BLCS 3 | BLSR 3 | LW 2F |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Wrench / Clé de serrage

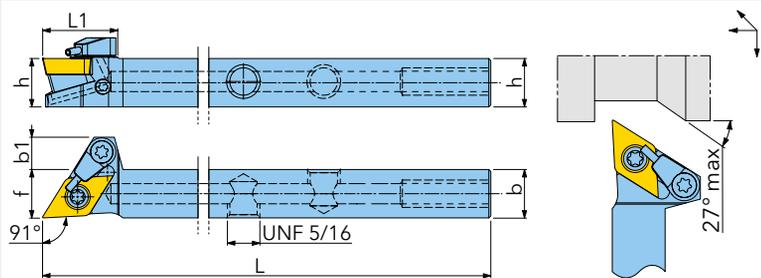
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND SHORT HEAD, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTIL EXTERNE SERRAGE PAR VIS AVEC TÊTE COURTE, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|-----|----|-----|----|----|----|-------|----------|-----------|-----|
| SDJCL 1212 K11-SH | 125 | 12 | 93° | 12 | - | 12 | 0,130 | DC_11T3_ | SO 350801 | T15 |
| SDJCL 1616 K11-SH | 125 | 16 | 93° | 16 | - | 16 | 0,235 | DC_11T3_ | SO 350801 | T15 |
| SDJCR 1010 K07-SH | 125 | 10 | 93° | 10 | - | 10 | 0,095 | DC_0702_ | SO 250651 | T7 |
| SDJCR 1010 K11-SH | 125 | 10 | 93° | 10 | 2 | 10 | 0,090 | DC_11T3_ | SO 350801 | T15 |
| SDJCR 1212 K11-SH | 125 | 12 | 93° | 12 | - | 12 | 0,130 | DC_11T3_ | SO 350801 | T15 |
| SDJCR 1616 K11-SH | 125 | 16 | 93° | 16 | - | 16 | 0,235 | DC_11T3_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE

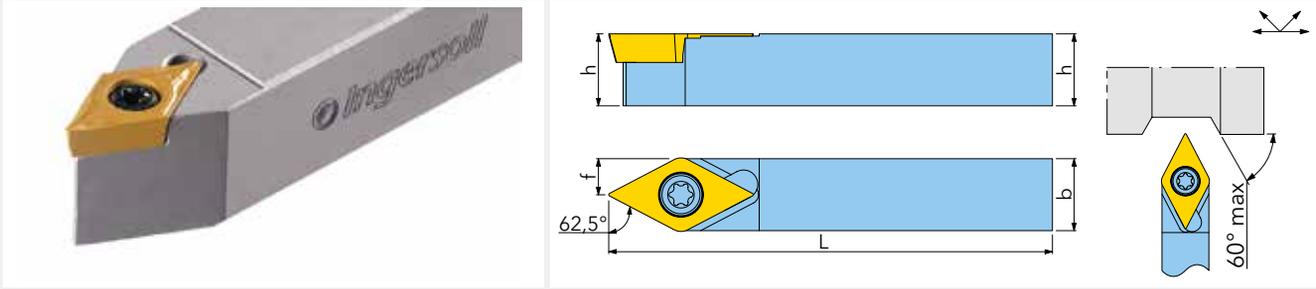


| Designation Réf. de l'article | L | L1 | f | κ | h | b | b1 | kg | IK |
|----------------------------------|-----|----|----|-----|----|----|----|-------|----|
| SDJCL 1212 K11-SH-TB | 125 | 19 | 12 | 93° | 12 | 12 | 8 | 0,120 | ✓ |
| SDJCL 1616 K11-SH-TB | 125 | 19 | 16 | 93° | 16 | 16 | 4 | 0,215 | ✓ |
| SDJCR 1212 K11-SH-TB | 125 | 19 | 12 | 93° | 12 | 12 | 8 | 0,120 | ✓ |
| SDJCR 1616 K11-SH-TB | 125 | 19 | 16 | 93° | 16 | 16 | 4 | 0,215 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|-----|---------|
| SDJCL 1212 K11-SH-TB | DC_11T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SDJCL 1616 K11-SH-TB | DC_11T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SDJCR 1212 K11-SH-TB | DC_11T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |
| SDJCR 1616 K11-SH-TB | DC_11T3_ | SO 350801 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

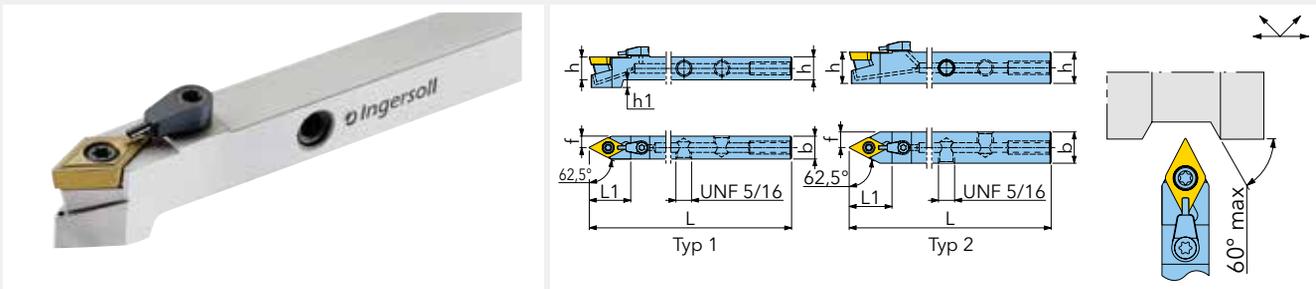
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | |
|----------------------------------|-----|---|-----|----|----|-------|----------|-----------|-----|
| SDNCN 0808 K07-SH | 125 | 4 | 63° | 8 | 8 | 0,060 | DC_0702_ | SO 25065I | T7 |
| SDNCN 1010 K07-SH | 125 | 5 | 63° | 10 | 10 | 0,095 | DC_0702_ | SO 25065I | T7 |
| SDNCN 1010 K11-SH | 125 | 5 | 63° | 10 | 10 | 0,090 | DC_11T3_ | SO 35080I | T15 |
| SDNCN 1212 K11-SH | 125 | 6 | 63° | 12 | 12 | 0,130 | DC_11T3_ | SO 35080I | T15 |
| SDNCN 1616 K11-SH | 125 | 8 | 63° | 16 | 16 | 0,230 | DC_11T3_ | SO 35080I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE

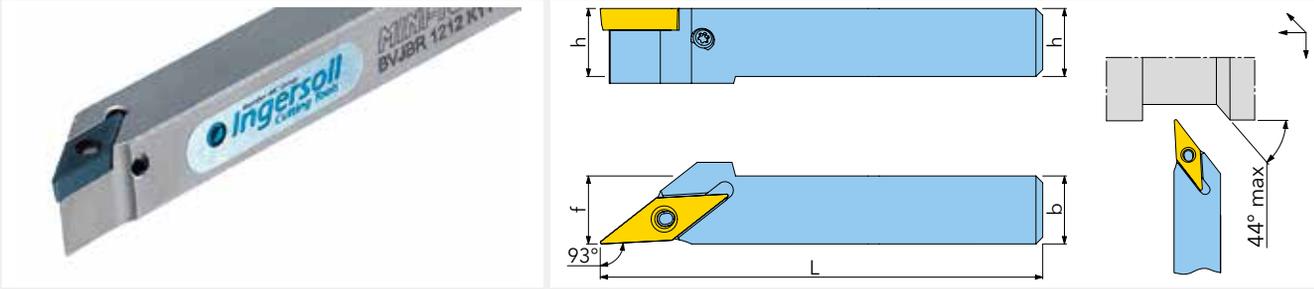


| Designation Réf. de l'article | L | L1 | f | κ | h | h1 | b | Typ | kg | |
|----------------------------------|-----|----|---|-----|----|----|----|-----|-------|---|
| SDNCN 1212 K11-SH-TB | 125 | 32 | 6 | 63° | 12 | 4 | 12 | 1 | 0,115 | ✓ |
| SDNCN 1616 K11-SH-TB | 125 | 32 | 8 | 63° | 16 | - | 16 | 2 | 0,210 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|-----|----------|
| SDNCN 1212 K11-SH-TB | DC_11T3_ | SO 35080I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | L-W 5/32 |
| SDNCN 1616 K11-SH-TB | DC_11T3_ | SO 35080I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T15 | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

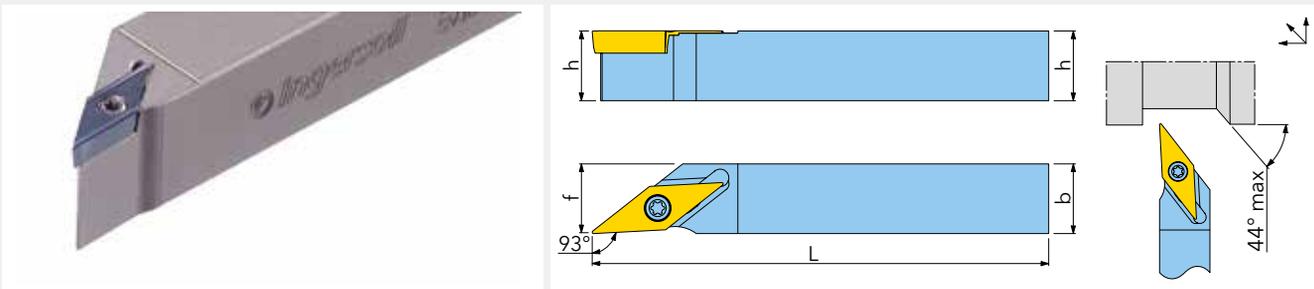
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE VB_ INSERTS
PORTE-OUTIL DE DECOLLETAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | h | b | kg | | | | | |
|----------------------------------|-----|----|----|----|-------|----------|-------|--------|--------|----|
| BVJBL 1010 K11-SH | 125 | 10 | 10 | 10 | 0,090 | VB_1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJBL 1212 K11-SH | 125 | 12 | 12 | 12 | 0,130 | VB_1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJBR 1010 K11-SH | 125 | 10 | 10 | 10 | 0,090 | VB_1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJBR 1212 K11-SH | 125 | 12 | 12 | 12 | 0,130 | VB_1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Wrench / Clé de serrage

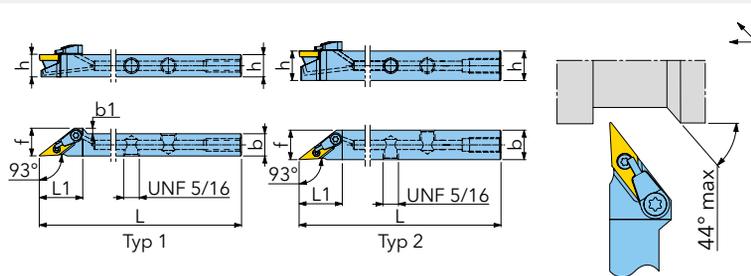
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND SHORT HEAD, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|----|
| SVJBL 1212 K11-SH | 125 | 12 | 93° | 12 | 12 | 0,130 | VB_1103_ | SO 250651 | T7 |
| SVJBL 1616 K11-SH | 125 | 16 | 93° | 16 | 16 | 0,225 | VB_1103_ | SO 250651 | T7 |
| SVJBR 1010 K11-SH | 125 | 10 | 93° | 10 | 10 | 0,090 | VB_1103_ | SO 250651 | T7 |
| SVJBR 1212 K11-SH | 125 | 12 | 93° | 12 | 12 | 0,130 | VB_1103_ | SO 250651 | T7 |
| SVJBR 1616 K11-SH | 125 | 16 | 93° | 16 | 16 | 0,225 | VB_1103_ | SO 250651 | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | L1 | f | κ | h | b | b1 | Typ | kg | IK |
|----------------------------------|-----|------|----|-----|----|----|----|-----|-------|----|
| SVJBL 1212 K11-SH-TB | 125 | 23,6 | 12 | 93° | 12 | 12 | 3 | 1 | 0,115 | ✓ |
| SVJBL 1616 K11-SH-TB | 125 | 23,6 | 16 | 93° | 16 | 16 | - | 2 | 0,205 | ✓ |
| SVJBR 1212 K11-SH-TB | 125 | 23,6 | 12 | 93° | 12 | 12 | 3 | 1 | 0,115 | ✓ |
| SVJBR 1616 K11-SH-TB | 125 | 23,6 | 16 | 93° | 16 | 16 | - | 2 | 0,205 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|----|----------|
| SVJBL 1212 K11-SH-TB | VB_1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | L-W 5/32 |
| SVJBL 1616 K11-SH-TB | VB_1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | L-W 5/32 |
| SVJBR 1212 K11-SH-TB | VB_1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | L-W 5/32 |
| SVJBR 1616 K11-SH-TB | VB_1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

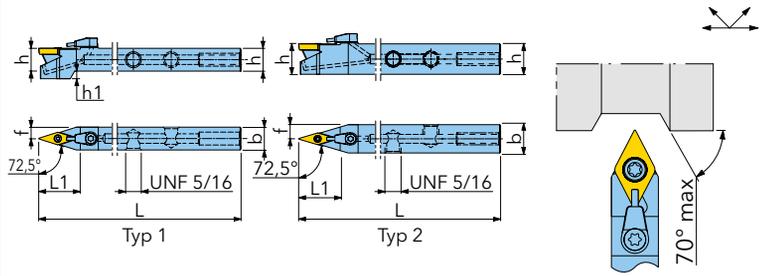
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | |
|----------------------------------|-----|---|-------|----|----|-------|----------|-----------|----|
| SVVBN 1010 K11-SH | 125 | 5 | 72,5° | 10 | 10 | 0,090 | VB_1103_ | SO 250651 | T7 |
| SVVBN 1212 K11-SH | 125 | 6 | 72,5° | 12 | 12 | 0,125 | VB_1103_ | SO 250651 | T7 |
| SVVBN 1616 K11-SH | 125 | 8 | 72,5° | 16 | 16 | 0,225 | VB_1103_ | SO 250651 | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE

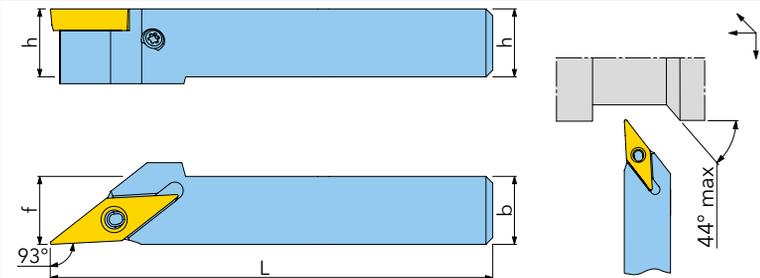


| Designation Réf. de l'article | L | L1 | f | κ | h | h1 | b | Typ | kg | IK |
|----------------------------------|-----|------|---|-------|----|----|----|-----|-------|----|
| SVVBN 1212 K11-SH-TB | 125 | 31,5 | 6 | 72,5° | 12 | 4 | 12 | 1 | 0,110 | ✓ |
| SVVBN 1616 K11-SH-TB | 125 | 31,5 | 8 | 72,5° | 16 | - | 16 | 2 | 0,205 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|-----------|-----------|-------------|----------------|---------|----|---------|
| SVVBN 1212 K11-SH-TB | VB_ 1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |
| SVVBN 1616 K11-SH-TB | VB_ 1103_ | SO 250651 | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

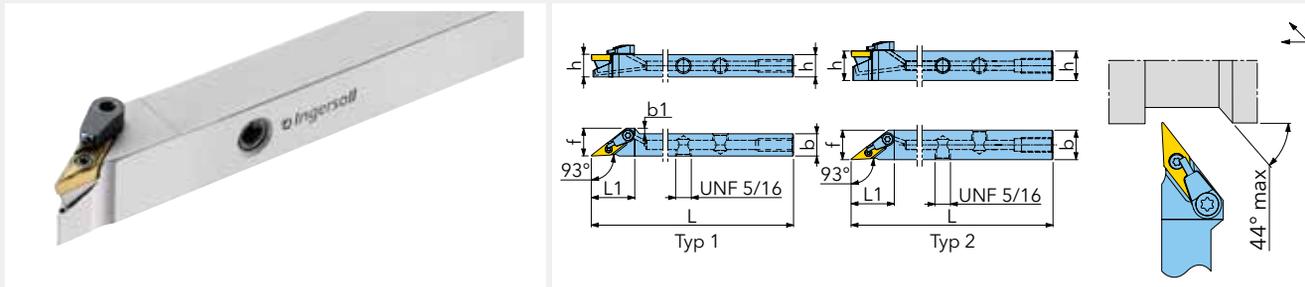
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE VC_ INSERTS
PORTE-OUTILS DE DÉCOLLETAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | h | b | kg | | | | | |
|----------------------------------|-----|----|----|----|-------|-----------|-------|--------|--------|----|
| BVJCL 1010 K11-SH | 125 | 10 | 10 | 10 | 0,090 | VC_ 1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJCL 1212 K11-SH | 125 | 12 | 12 | 12 | 0,130 | VC_ 1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJCR 1010 K11-SH | 125 | 10 | 10 | 10 | 0,090 | VC_ 1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |
| BVJCR 1212 K11-SH | 125 | 12 | 12 | 12 | 0,130 | VC_ 1103_ | BLCL2 | BLCS 2 | BLSR 2 | T6 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE

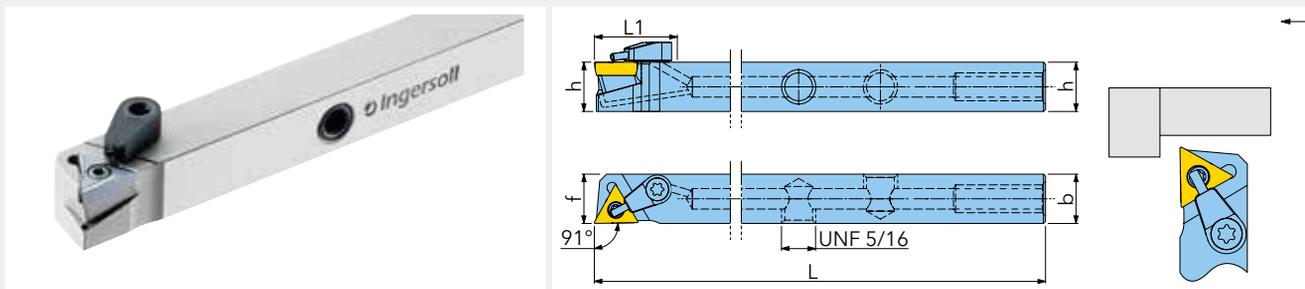


| Designation Réf. de l'article | L | L1 | f | κ | h | b | b1 | Typ | kg | IK |
|----------------------------------|-----|------|----|-----|----|----|----|-----|-------|----|
| SVJCL 1212 K11-SH-TB | 125 | 23,6 | 12 | 93° | 12 | 12 | 3 | 1 | 0,110 | ✓ |
| SVJCL 1616 K11-SH-TB | 125 | 23,6 | 16 | 93° | 16 | 16 | - | 2 | 0,205 | ✓ |
| SVJCR 1212 K11-SH-TB | 125 | 23,6 | 12 | 93° | 12 | 12 | 3 | 1 | 0,110 | ✓ |
| SVJCR 1616 K11-SH-TB | 125 | 23,6 | 16 | 93° | 16 | 16 | - | 2 | 0,205 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|----|---------|
| SVJCL 1212 K11-SH-TB | VC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |
| SVJCL 1616 K11-SH-TB | VC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |
| SVJCR 1212 K11-SH-TB | VC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |
| SVJCR 1616 K11-SH-TB | VC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

T-BURST HOLDER FOR SWISS TURNING APPLICATIONS, FOR POSITIVE 60° TC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE T-BURST, POUR PLAQUETTES TC_ POSITIVES, 7° DE DÉPOUILLE

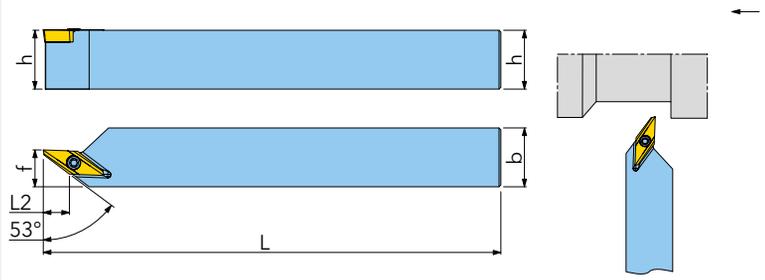


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | IK |
|----------------------------------|-----|----|----|-----|----|----|-------|----|
| STGCR 1212 K11-SH-TB | 125 | 20 | 12 | 90° | 12 | 12 | 0,115 | ✓ |
| STGCR 1616 K11-SH-TB | 125 | 20 | 12 | 90° | 16 | 16 | 0,225 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|-------------|----------------|---------|----|---------|
| STGCR 1212 K11-SH-TB | TC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |
| STGCR 1616 K11-SH-TB | TC_1103_ | SO 25065I | PT 5/16 UNF | SS M3X0.5X3-NL | S-CU-TB | T7 | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Set screw / Vis de réglage ④ = Coolant unit / Buse d'arrosage ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage

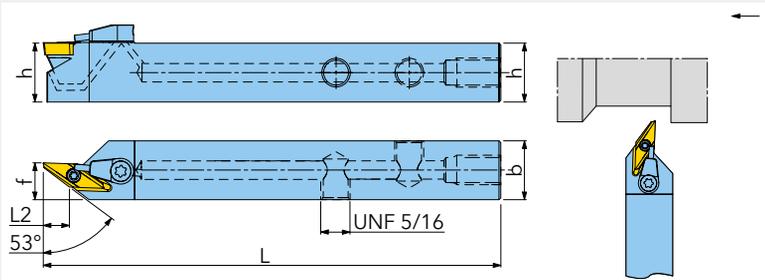
SCREW TYPE BACK TURNING HOLDER
PORTE-OUTILS POUR TOURNAGE EN TIRANT



| Designation Réf. de l'article | L | L2 | f | h | b | kg | | | |
|----------------------------------|-----|-----|----|----|----|------|----------|-----------|----|
| TMB-SVXCR 1212 K11 | 125 | 7,2 | 10 | 12 | 12 | 0,25 | BTVC 11_ | SO 250651 | T7 |
| TMB-SVXCR 1616 K11 | 125 | 7,2 | 10 | 16 | 16 | 0,35 | BTVC 11_ | SO 250651 | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

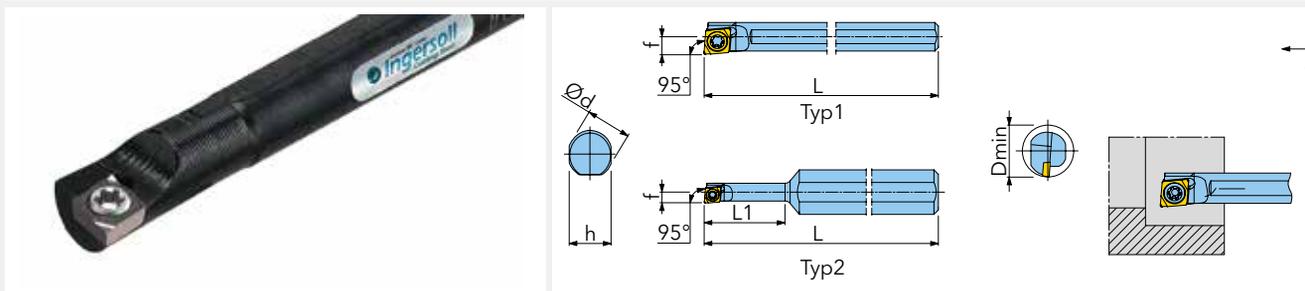
SCREW TYPE BACK TURNING HOLDER WITH HIGH-PRESSURE COOLANT
PORTE-OUTILS POUR TOURNAGE EN TIRANT AVEC ARROSAGE HAUTE PRESSION



| Designation Réf. de l'article | L | L1 | L2 | f | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|----|------|---|----------|-----------|----|---------|--------------|----------|
| TMB-SVXCR 1212 K11-TB | 125 | 25 | 7,2 | 10 | 12 | 12 | 0,25 | ✓ | BTVC 11_ | SO 250651 | T7 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |
| TMB-SVXCR 1616 K11-TB | 125 | 25 | 7,2 | 10 | 16 | 16 | 0,35 | ✓ | BTVC 11_ | SO 250651 | T7 | S-CU-TB | PLG 5/16 UNF | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage ④ = Plug / Tube ⑤ = Wrench / Clé de serrage

STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE CC_ INSERTS
BARRE D'ALEPAGE ACIER AVEC SERRAGE PAR VIS, POUR PLAQUETTES CC_ POSITIVES 80°



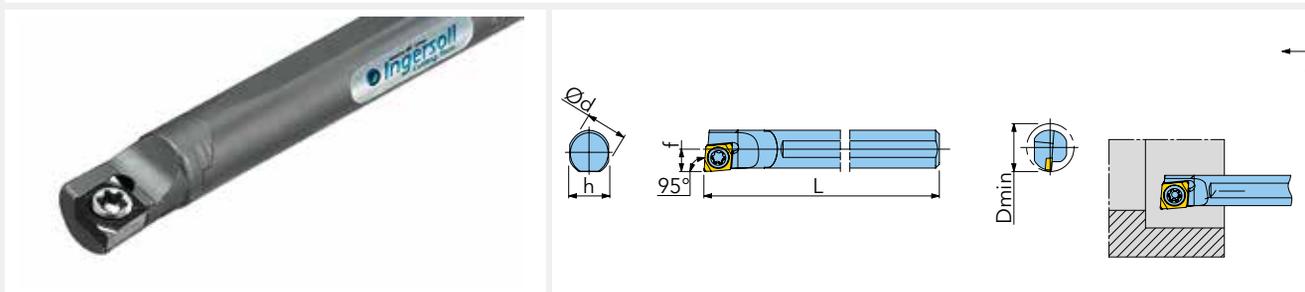
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | | | |
|-------------------------------------|--------|----|-----|----|-----|-----|------|-------|----------|----------------|-----|
| S04F SCLCL 03-D05 ¹⁾²⁾³⁾ | 5 | 4 | 80 | - | 2,5 | 95° | 3,75 | 0,015 | CC_0301_ | TS 160311 | T6 |
| S05G SCLCL 03-D06 ¹⁾²⁾³⁾ | 6 | 5 | 90 | - | 3 | 95° | 4,75 | 0,015 | CC_0301_ | TS 160311 | T6 |
| S06H SCLCL 04-D07 ¹⁾²⁾³⁾ | 7 | 6 | 100 | - | 3,5 | 95° | 5,50 | 0,025 | CC_0401_ | TS 200381/HG-P | T6P |
| S07J SCLCL 04-D08 ¹⁾²⁾³⁾ | 8 | 7 | 110 | - | 4 | 95° | 6,50 | 0,030 | CC_0401_ | TS 200381/HG-P | T6P |
| S10H SCLCL 03-D05 ³⁾ | 5 | 10 | 100 | 15 | 2,5 | 95° | 9,00 | 0,050 | CC_0301_ | TS 160311 | T6 |
| S04F SCLCR 03-D05 ¹⁾²⁾³⁾ | 5 | 4 | 80 | - | 2,5 | 95° | 3,75 | 0,005 | CC_0301_ | TS 160311 | T6 |
| S05G SCLCR 03-D06 ¹⁾²⁾³⁾ | 6 | 5 | 90 | - | 3 | 95° | 4,75 | 0,015 | CC_0301_ | TS 160311 | T6 |
| S06H SCLCR 04-D07 ¹⁾²⁾³⁾ | 7 | 6 | 100 | - | 3,5 | 95° | 5,50 | 0,020 | CC_0401_ | TS 200381/HG-P | T6P |
| S07J SCLCR 04-D08 ¹⁾²⁾³⁾ | 8 | 7 | 110 | - | 4 | 95° | 6,50 | 0,030 | CC_0401_ | TS 200381/HG-P | T6P |
| S10H SCLCR 03-D05 ³⁾ | 5 | 10 | 100 | 15 | 2,5 | 95° | 9,00 | 0,050 | CC_0301_ | TS 160311 | T6 |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"

¹⁾Typ1 / Typ1²⁾³⁾ /

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° CC_ INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES CC_ POSITIVES 80°

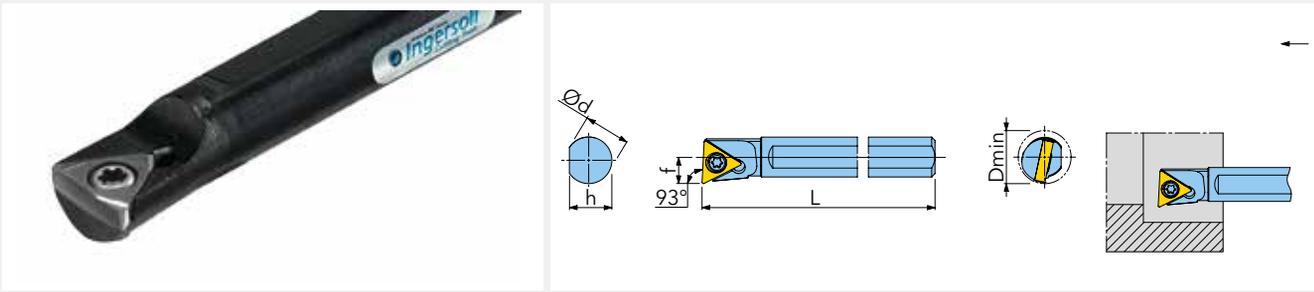


| Designation Réf. de l'article | D min. | d | L | f | κ | h | kg | | | |
|----------------------------------|--------|---|-----|-----|-----|------|-------|----------|----------------|-----|
| C04G SCLCL 03-D05 | 5 | 4 | 90 | 2,5 | 95° | 3,75 | 0,015 | CC_0301_ | TS 160311 | T6 |
| C05H SCLCL 03-D06 | 6 | 5 | 100 | 3 | 95° | 4,75 | 0,025 | CC_0301_ | TS 160311 | T6 |
| C06J SCLCL 04-D07 | 7 | 6 | 110 | 3,5 | 95° | 5,50 | 0,040 | CC_0401_ | TS 200381/HG-P | T6P |
| C07K SCLCL 04-D08 | 8 | 7 | 125 | 4 | 95° | 6,50 | 0,060 | CC_0401_ | TS 200381/HG-P | T6P |
| C04G SCLCR 03-D05 | 5 | 4 | 90 | 2,5 | 95° | 3,75 | 0,015 | CC_0301_ | TS 160311 | T6 |
| C05H SCLCR 03-D06 | 6 | 5 | 100 | 3 | 95° | 4,75 | 0,025 | CC_0301_ | TS 160311 | T6 |
| C06J SCLCR 04-D07 | 7 | 6 | 110 | 3,5 | 95° | 5,50 | 0,045 | CC_0401_ | TS 200381/HG-P | T6P |
| C07K SCLCR 04-D08 | 8 | 7 | 125 | 4 | 95° | 6,50 | 0,065 | CC_0401_ | TS 200381/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

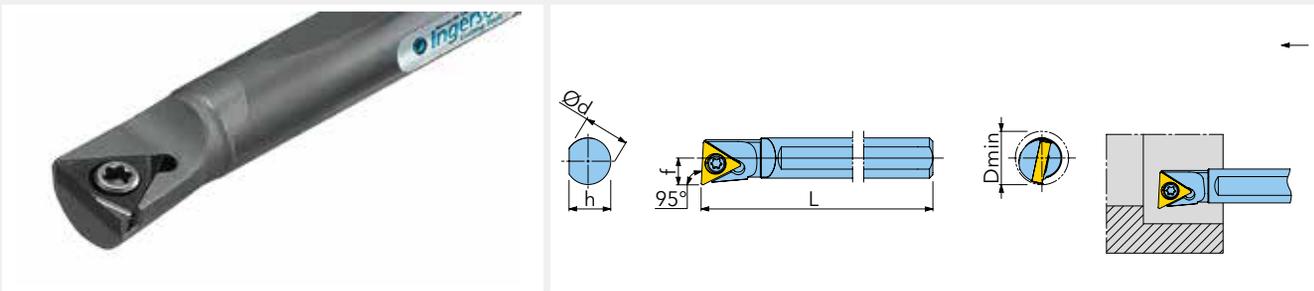
STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TB_INSERTS
BARRE D'ALÉSAGE ACIER AVEC SERRAGE PAR VIS, POUR PLAQUETTES TB_POSITIVES 60°



| Designation Réf. de l'article | D min. | d | L | f | κ | h | kg | | | |
|----------------------------------|--------|---|-----|---|-----|-----|-------|----------|---------------|-----|
| S06H STUBL 06-D08 | 8 | 6 | 100 | 4 | 93° | 5,5 | 0,025 | TB_0601_ | TS 20043/HG-P | T6P |
| S06H STUBR 06-D08 | 8 | 6 | 100 | 4 | 93° | 5,5 | 0,020 | TB_0601_ | TS 20043/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"
① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

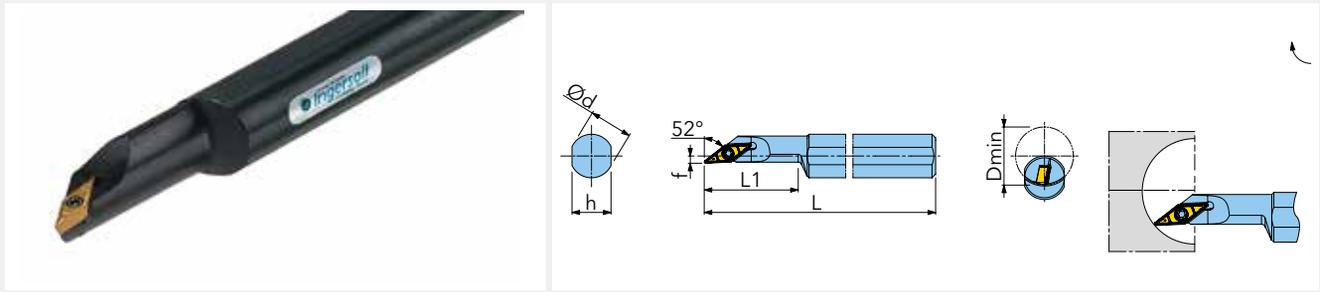
INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TB_INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES TB_POSITIVES 60°



| Designation Réf. de l'article | D min. | d | L | f | κ | h | kg | | | |
|----------------------------------|--------|---|-----|---|-----|-----|-------|----------|---------------|-----|
| C06J STUBL 06-D08 | 8 | 6 | 110 | 4 | 93° | 5,5 | 0,030 | TB_0601_ | TS 20043/HG-P | T6P |
| C06J STUBR 06-D08 | 8 | 6 | 110 | 4 | 93° | 5,5 | 0,040 | TB_0601_ | TS 20043/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"
① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE VC_ INSERTS
BARRE D'ALEPAGE ACIER AVEC SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE

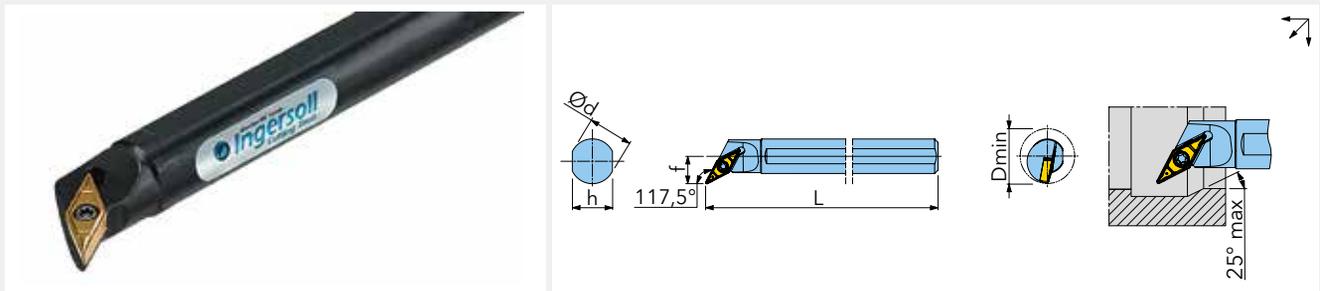


| Designation Réf. de l'article | D min. | d | L | L1 | f | h | kg | | | |
|----------------------------------|--------|----|-----|----|---|----|-------|----------|----------------|-----|
| S12M SVJCL 08-D16 | 16 | 12 | 150 | 26 | 2 | 11 | 0,120 | VC_0802_ | TS 20038I/HG-P | T6P |
| S16Q SVJCL 08-D20 | 20 | 16 | 180 | 36 | 2 | 15 | 0,240 | VC_0802_ | TS 20038I/HG-P | T6P |
| S12M SVJCR 08-D16 | 16 | 12 | 150 | 26 | 2 | 11 | 0,115 | VC_0802_ | TS 20038I/HG-P | T6P |
| S16Q SVJCR 08-D20 | 20 | 16 | 180 | 36 | 2 | 11 | 0,240 | VC_0802_ | TS 20038I/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

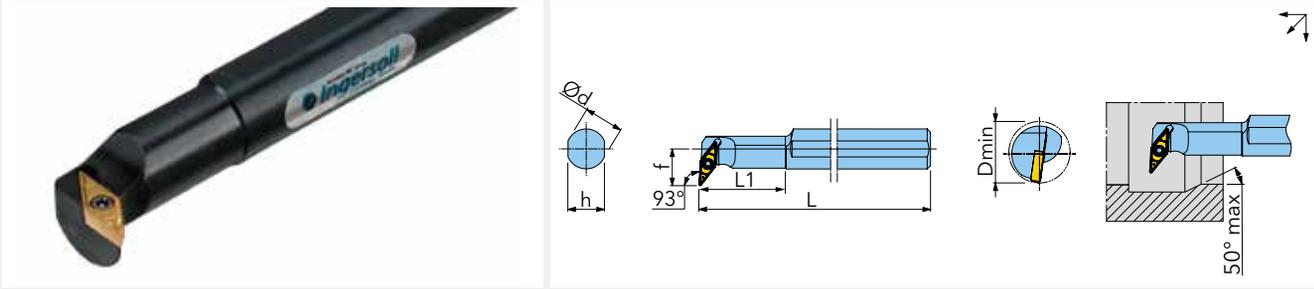
STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS
BARRE D'ALEPAGE ACIER AVEC SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | d | L | f | κ | h | kg | | | |
|----------------------------------|--------|----|-----|----|----------|----|-------|----------|----------------|-----|
| S10K SVPCL 08-D16 | 16 | 10 | 125 | 8 | 117,5° | 9 | 0,070 | VC_0802_ | TS 20038I/HG-P | T6P |
| S12M SVPCL 11-D20 | 20 | 12 | 150 | 10 | 117,5° | 11 | 0,120 | VC_1103_ | SO 25065I | T7 |
| S10K SVPCR 08-D16 | 16 | 10 | 125 | 8 | 117,5° | 9 | 0,070 | VC_0802_ | TS 20038I/HG-P | T6P |
| S12M SVPCR 11-D20 | 20 | 12 | 150 | 10 | 117,5° | 11 | 0,120 | VC_1103_ | SO 25065I | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

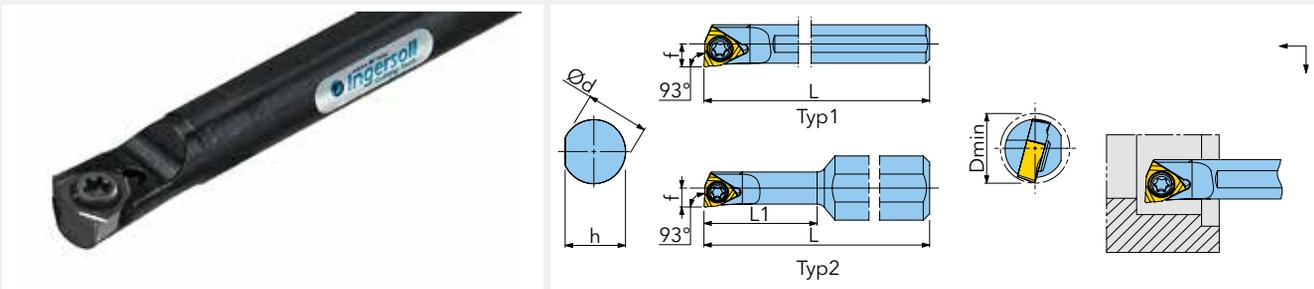
STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | | | |
|----------------------------------|--------|----|-----|----|------|-----|----|-------|----------|----------------|-----|
| S12M SVUCL 08-D16 | 16 | 12 | 150 | 26 | 11 | 93° | 11 | 0,120 | VC_0802_ | TS 20038I/HG-P | T6P |
| S16Q SVUCL 11-D20 | 20 | 16 | 180 | 32 | 15,5 | 93° | 15 | 0,250 | VC_1103_ | SO 25065I | T7 |
| S20R SVUCL 11-D25 | 25 | 20 | 200 | 40 | 17,5 | 93° | 18 | 0,440 | VC_1103_ | SO 25065I | T7 |
| S12M SVUCR 08-D16 | 16 | 12 | 150 | 26 | 11 | 93° | 11 | 0,120 | VC_0802_ | TS 20038I/HG-P | T6P |
| S16Q SVUCR 11-D20 | 20 | 16 | 180 | 32 | 15,5 | 93° | 15 | 0,250 | VC_1103_ | SO 25065I | T7 |
| S20R SVUCR 11-D25 | 25 | 20 | 200 | 40 | 17,5 | 93° | 18 | 0,440 | VC_1103_ | SO 25065I | T7 |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"
① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

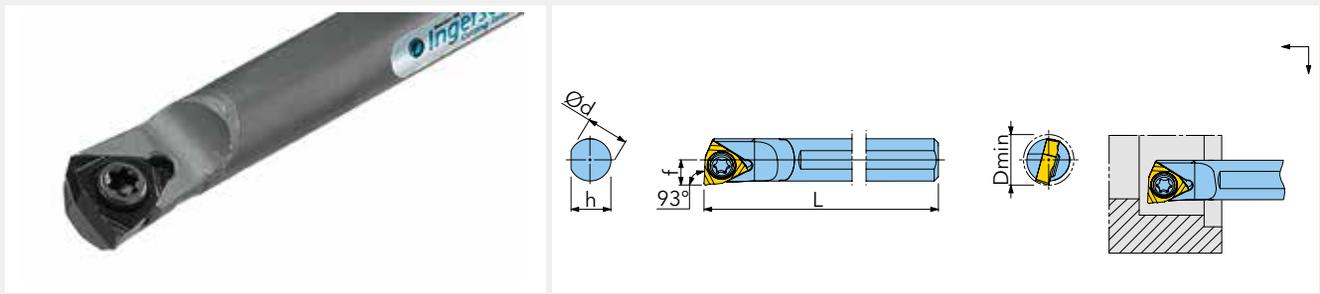
STEEL SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° WB_ INSERTS
BARRE D'ALÉSAGE ACIER AVEC SERRAGE PAR VIS, POUR PLAQUETTES WB_ POSITIVES TRIGONES 80°



| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | | | |
|----------------------------------|--------|----|-----|----|-----|-----|------|-------|----------|----------------|-----|
| S05G SWUBL 06-D06 | 6 | 5 | 90 | - | 3 | 93° | 4,75 | 0,015 | WB_0601_ | TS 20038I/HG-P | T6P |
| S06H SWUBL 06-D07 | 7 | 6 | 100 | - | 3,5 | 93° | 5,50 | 0,020 | WB_0601_ | TS 20038I/HG-P | T6P |
| S07J SWUBL 06-D08 | 8 | 7 | 110 | - | 4 | 93° | 6,50 | 0,030 | WB_0601_ | TS 20038I/HG-P | T6P |
| S10H SWUBL 06-D06 | 6 | 10 | 100 | 18 | 3 | 93° | 9,00 | 0,050 | WB_0601_ | TS 20038I/HG-P | T6P |
| S05G SWUBR 06-D06 | 6 | 5 | 90 | - | 3 | 93° | 4,75 | 0,015 | WB_0601_ | TS 20038I/HG-P | T6P |
| S06H SWUBR 06-D07 | 7 | 6 | 100 | - | 3,5 | 93° | 5,50 | 0,025 | WB_0601_ | TS 20038I/HG-P | T6P |
| S07J SWUBR 06-D08 | 8 | 7 | 110 | - | 4 | 93° | 6,50 | 0,030 | WB_0601_ | TS 20038I/HG-P | T6P |
| S10H SWUBR 06-D06 | 6 | 10 | 100 | 18 | 3 | 93° | 9,00 | 0,050 | WB_0601_ | TS 20038I/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"
① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° WB_ INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES WB_ POSITIVES TRIGONES 80°

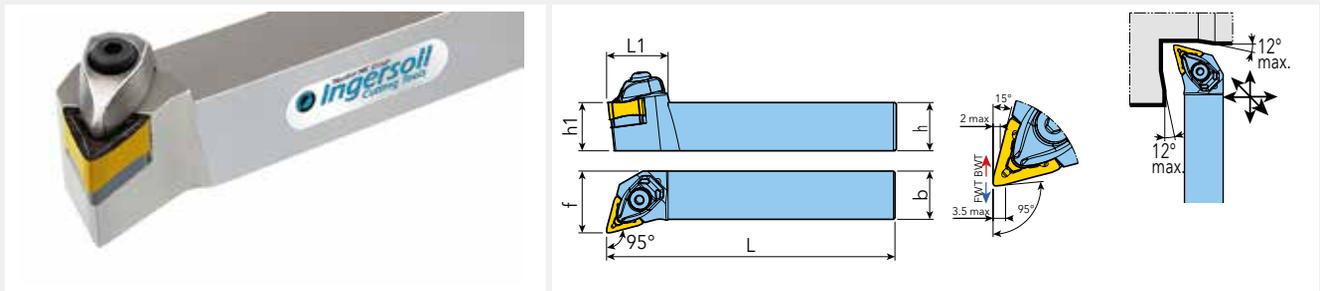


| Designation Réf. de l'article | D min. | d | L | f | κ | h | kg | | | |
|----------------------------------|--------|---|-----|-----|-----|------|-------|----------|----------------|-----|
| C05H SWUBL 06-D06 | 6 | 5 | 100 | 3 | 93° | 4,75 | 0,025 | WB_0601_ | TS 20038I/HG-P | T6P |
| C06J SWUBL 06-D07 | 7 | 6 | 110 | 3,5 | 93° | 5,50 | 0,040 | WB_0601_ | TS 20038I/HG-P | T6P |
| C07K SWUBL 06-D08 | 8 | 7 | 125 | 4 | 93° | 6,50 | 0,065 | WB_0601_ | TS 20038I/HG-P | T6P |
| C05H SWUBR 06-D06 | 6 | 5 | 100 | 3 | 93° | 4,75 | 0,025 | WB_0601_ | TS 20038I/HG-P | T6P |
| C06J SWUBR 06-D07 | 7 | 6 | 110 | 3,5 | 93° | 5,50 | 0,040 | WB_0601_ | TS 20038I/HG-P | T6P |
| C07K SWUBR 06-D08 | 8 | 7 | 125 | 4 | 93° | 6,50 | 0,065 | WB_0601_ | TS 20038I/HG-P | T6P |

L-hand insert for R-hand toolholders, R-hand insert for L-hand toolholder! / Plaquette à gauche "L" pour Porte-outils à droite "R", Plaquette à droite "R" pour Porte-outils à gauche "L"

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TNMV INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES TNMV NÉGATIVES 60°

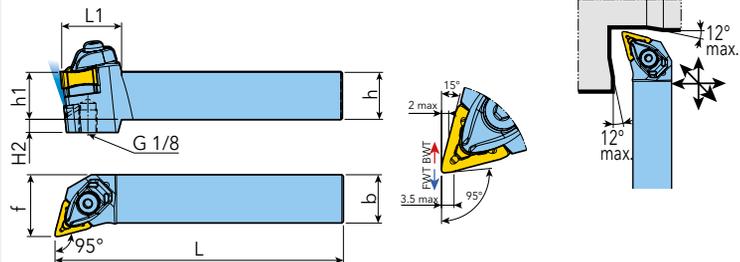


| Designation Réf. de l'article | L | f | κ | h | h1 | b | kg |
|----------------------------------|-----|----|-----|----|----|----|-------|
| TTQNL 2525 M2109 | 150 | 32 | 95° | 25 | 25 | 25 | 0,739 |
| TTQNL 3232 P2109 | 170 | 40 | 95° | 32 | 32 | 32 | 1,316 |
| TTQNR 2525 M2109 | 150 | 32 | 95° | 25 | 25 | 25 | 0,739 |
| TTQNR 3232 P2109 | 170 | 40 | 95° | 32 | 32 | 32 | 1,316 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|-------------|-------|-------|-------------|--------------|------|-----|
| TTQNL 2525 M2109 | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T10 |
| TTQNL 3232 P2109 | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T10 |
| TTQNR 2525 M2109 | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T10 |
| TTQNR 3232 P2109 | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND HIGH PRESSURE COOLANT, FOR NEGATIVE 60° TNMV INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T" ET ARROSAGE HAUTE PRESSION, POUR PLAQUETTES TNMV NÉGATIVES 60°



| Designation Réf. de l'article | L | L1 | H2 | f | κ | h | h1 | b | kg | Ⓚ |
|----------------------------------|-----|----|----|----|-----|----|----|----|-------|---|
| TTQNL 2525 M2109-TB | 150 | 32 | 7 | 32 | 95° | 25 | 25 | 25 | 0,764 | ✓ |
| TTQNL 3232 P2109-TB | 170 | 32 | - | 40 | 95° | 32 | 32 | 32 | 1,309 | ✓ |
| TTQNR 2525 M2109-TB | 150 | 32 | 7 | 32 | 95° | 25 | 25 | 25 | 0,764 | ✓ |
| TTQNR 3232 P2109-TB | 170 | 32 | - | 40 | 95° | 32 | 32 | 32 | 1,309 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|-------------|-------|-------|-------------|--------------|------|------|
| TTQNL 2525 M2109-TB | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T 10 |
| TTQNL 3232 P2109-TB | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T 10 |
| TTQNR 2525 M2109-TB | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T 10 |
| TTQNR 3232 P2109-TB | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T 10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE ZNMV INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES NÉGATIVES ZNMW

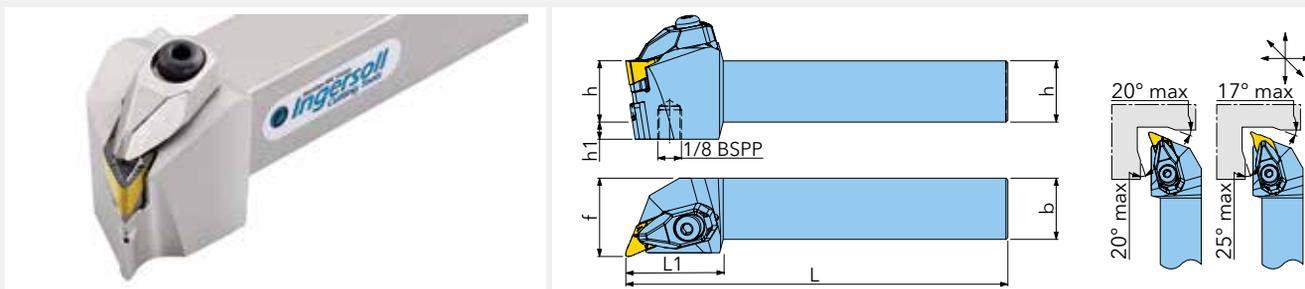


| Designation Réf. de l'article | L | L1 | f | h | b | kg |
|----------------------------------|-----|----|----|----|----|------|
| TZQNL 2525 M1410 | 150 | 40 | 32 | 25 | 25 | 0,83 |
| TZQNL 3232 P1410 | 170 | 40 | 40 | 32 | 32 | 1,41 |
| TZQNR 2525 M1410 | 150 | 40 | 32 | 25 | 25 | 0,83 |
| TZQNR 3232 P1410 | 170 | 40 | 40 | 32 | 32 | 1,41 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|-------------|-------|-------|------------|--------------|------|------|
| TZQNL 2525 M1410 | ZNMV_1410_ | DLM 3.32-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNL 3232 P1410 | ZNMV_1410_ | DLM 3.32-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNR 2525 M1410 | ZNMV_1410_ | DLM 3.32-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNR 3232 P1410 | ZNMV_1410_ | DLM 3.32-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM WITH HIGH PRESSURE COOLANT, FOR NEGATIVE ZNMV INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES NÉGATIVES ZNMW

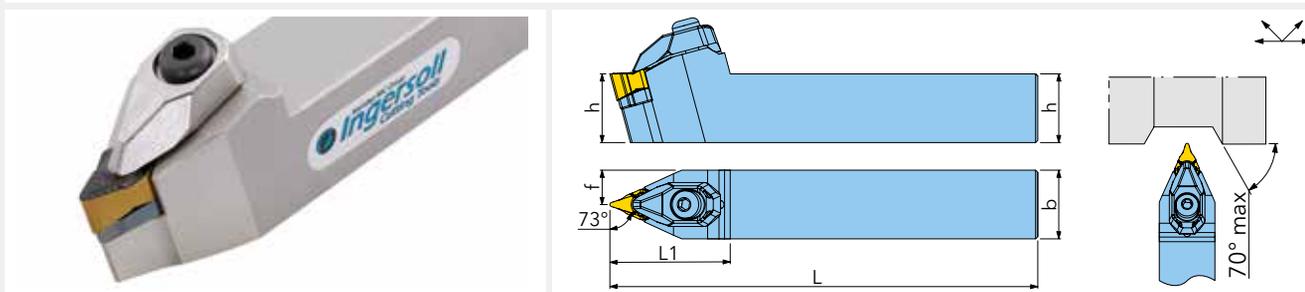


| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|----|----|----|----|------|----|
| TZQNL 2525 M1410-TB | 150 | 40 | 32 | 25 | 7 | 25 | 0,88 | ✓ |
| TZQNL 3232 P1410-TB | 170 | 40 | 40 | 32 | - | 32 | 1,41 | ✓ |
| TZQNR 2525 M1410-TB | 150 | 40 | 32 | 25 | 7 | 25 | 0,88 | ✓ |
| TZQNR 3232 P1410-TB | 170 | 40 | 40 | 32 | - | 32 | 1,41 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|-------------|-------|-------|------------|--------------|------|------|
| TZQNL 2525 M1410-TB | ZNMV_1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNL 3232 P1410-TB | ZNMV_1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNR 2525 M1410-TB | ZNMV_1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZQNR 3232 P1410-TB | ZNMV_1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 35° ZNMV-Y INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES NÉGATIVES ZNMV-Y

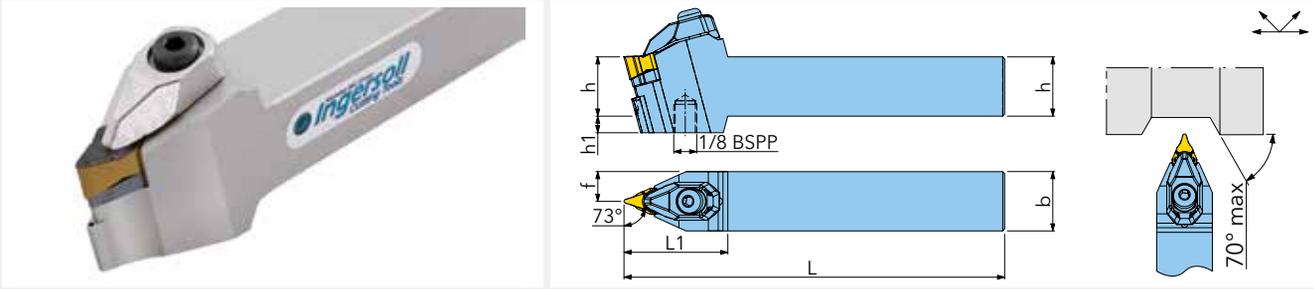


| Designation Réf. de l'article | L | L1 | f | h | b | kg |
|----------------------------------|-----|----|------|----|----|------|
| TZXNN 2525 M1410 | 150 | 44 | 12,5 | 25 | 25 | 0,75 |
| TZXNN 3232 P1410 | 170 | 44 | 16 | 32 | 32 | 1,31 |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------------|-------------|-------|-------|------------|--------------|------|------|
| TZXNN 2525 M1410 | ZNMV 1410_Y-BF | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |
| TZXNN 3232 P1410 | ZNMV 1410_Y-BF | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | LW 4 | T 10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM WITH HIGH PRESSURE COOLANT, FOR NEGATIVE 35° ZNMV -Y INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE AVEC ARROSAGE HAUTE PRESSION, POUR PLAQUETTES NÉGATIVES ZNMV-Y

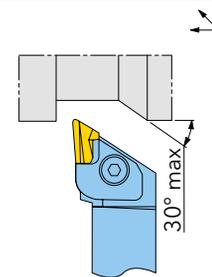
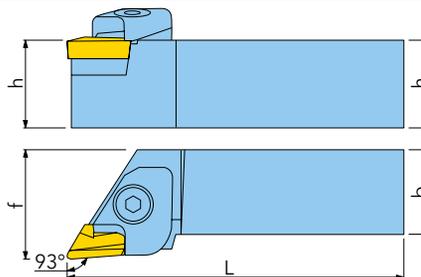


| Designation Réf. de l'article | L | L1 | f | h | h1 | b | kg | IK |
|----------------------------------|-----|----|------|----|----|----|------|----|
| TZXNN 2525 M1410-TB | 150 | 44 | 12,5 | 25 | 7 | 25 | 0,78 | ✓ |
| TZXNN 3232 P1410-TB | 170 | 44 | 16 | 32 | - | 32 | 1,31 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------------|-------------|-------|-------|------------|--------------|-------|------|
| TZXNN 2525 M1410-TB | ZNMV 1410_Y-BF | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | L-W 4 | T 10 |
| TZXNN 3232 P1410-TB | ZNMV 1410_Y-BF | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | L-W 4 | T 10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage



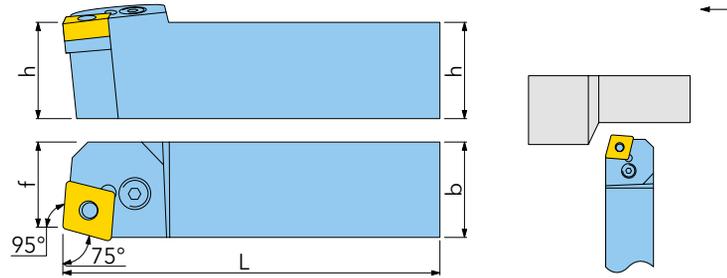
EXTERNAL TOP CLAMP TOOL HOLDER, FOR NEGATIVE 55° KNUX_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE, POUR PLAQUETTES KNUX_ NÉGATIVES 55°


| Designation Réf. de l'article | L | f | κ | h | b | kg |
|----------------------------------|-----|----|-----|----|----|-------|
| CKJNL 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,395 |
| CKJNL 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,700 |
| CKJNL 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,275 |
| CKJNR 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,390 |
| CKJNR 2020 M16 | 150 | 25 | 93° | 20 | 20 | 0,470 |
| CKJNR 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,705 |
| CKJNR 3225 P16 | 170 | 32 | 93° | 32 | 25 | 1,020 |
| CKJNR 3232 M16 | 150 | 40 | 93° | 32 | 32 | - |
| CKJNR 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,270 |
| CKJNR 4040 R16 | 200 | 50 | 93° | 40 | 40 | 2,260 |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|-------------|---------|---------|--------|--------|--------|------------|--------------|------|
| CKJNL 2020 K16 | KNUX_ 1604_ | CL 16KL | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 L | FH M3X0.5X10 | LW 4 |
| CKJNL 2525 M16 | KNUX_ 1604_ | CL 16KL | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 L | FH M3X0.5X10 | LW 4 |
| CKJNL 3232 P16 | KNUX_ 1604_ | CL 16KL | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 L | FH M3X0.5X10 | LW 4 |
| CKJNR 2020 K16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 2020 M16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 2525 M16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 3225 P16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 3232 M16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 3232 P16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |
| CKJNR 4040 R16 | KNUX_ 1604_ | CL 16KR | CLS 16K | KSP 90 | KSP 48 | KP 48S | CSK 1604 R | FH M3X0.5X10 | LW 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Clamp spring / Support de ressort ④ = Pin & spring / Goupille et ressort ⑤ = Pin & spring / Goupille et ressort
 ⑥ = Shim / Assise de protection ⑦ = Clamp screw / Vis de serrage ⑧ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_ NÉGATIVES 80°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|----------|-------|-------|--------|-------|---------|
| PCBNL 2020 K12 | 125 | 17,5 | 75° | 20 | 20 | 0,375 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNL 2525 M12 | 150 | 22,5 | 75° | 25 | 25 | 0,710 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNL 3225 P12 | 170 | 22,5 | 75° | 32 | 25 | 1,025 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNL 2525 M16 | 150 | 22 | 75° | 25 | 25 | 0,705 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |
| PCBNR 2020 K12 | 125 | 17,5 | 75° | 20 | 20 | 0,375 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNR 2525 M12 | 150 | 22,5 | 75° | 25 | 25 | 0,710 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNR 3225 P12 | 170 | 22,5 | 75° | 32 | 25 | 1,025 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCBNR 2525 M16 | 150 | 22 | 75° | 25 | 25 | 0,700 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_ NÉGATIVES 80°

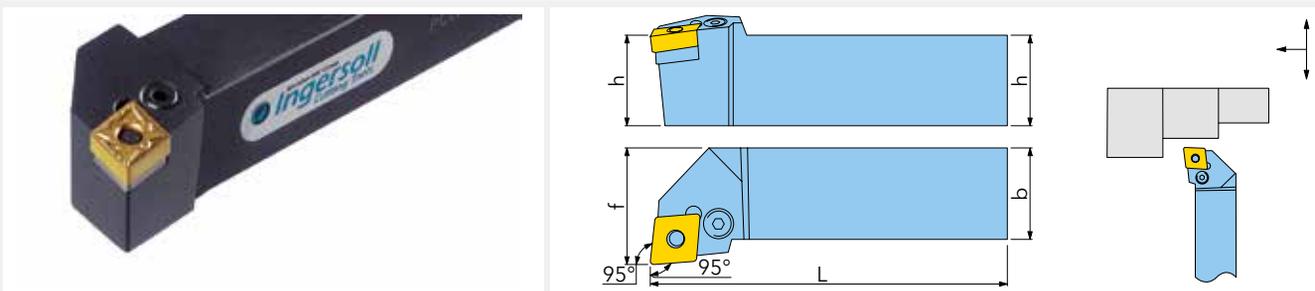


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-------|---------|---------|-------|------|
| PCBNL 3232 P1906D | 170 | 37 | 37 | 75° | 32 | 32 | 1,310 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCBNL 4040 S1906D | 250 | 37 | 37 | 75° | 40 | 40 | 3,045 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCBNL 4040 S2509D | 250 | 50 | 37 | 75° | 40 | 40 | 3,040 | CN_2509_ | LCL 8 | LCS 8 | LSC 84D | LSP 8 | LW 5 |
| PCBNL 5050 T2509D | 300 | 50 | 47 | 75° | 50 | 50 | 5,710 | CN_2509_ | LCL 8 | LCS 8 | LSC 84D | LSP 8 | LW 5 |
| PCBNR 3232 P1906D | 170 | 37 | 37 | 75° | 32 | 32 | 0,720 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCBNR 4040 S1906D | 250 | 37 | 37 | 75° | 40 | 40 | 3,050 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCBNR 4040 S2509D | 250 | 50 | 37 | 75° | 40 | 40 | 3,040 | CN_2509_ | LCL 8 | LCS 8 | LSC 84D | LSP 8 | LW 5 |
| PCBNR 5050 T2509D | 300 | 50 | 47 | 75° | 50 | 50 | 5,710 | CN_2509_ | LCL 8 | LCS 8 | LSC 84D | LSP 8 | LW 5 |

LSC 85D Shim can be used for CN_2507_ insert. / L'assise LSC 85D peut être utilisée pour les plaquettes CN_ 2507

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

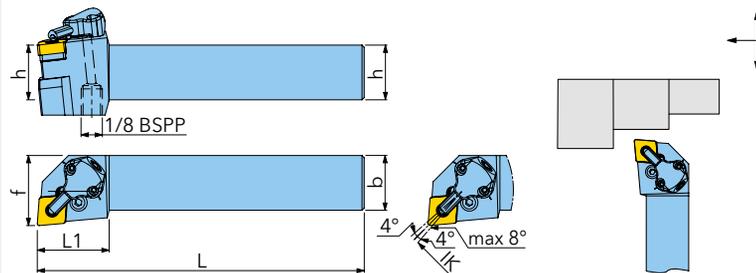
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_ NÉGATIVES 80°



| Designation Réf. de l'article | L | f | κ | h | b | kg |  |  |  |  |  |  |
|----------------------------------|-----|----|-----|----|----|-------|---|---|---|---|---|---|
| PCLNL 1616 H12 | 100 | 20 | 95° | 16 | 16 | 0,200 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNL 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,385 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNL 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,720 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNL 3225 P12 | 170 | 32 | 95° | 32 | 25 | 1,040 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNL 3232 P12 | 170 | 40 | 95° | 32 | 32 | 1,305 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNL 2525 M16 | 150 | 32 | 95° | 25 | 25 | 0,725 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |
| PCLNL 3225 P16 | 170 | 32 | 95° | 32 | 25 | 1,060 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |
| PCLNL 3232 P16 | 170 | 40 | 95° | 32 | 32 | 1,320 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |
| PCLNR 1616 H12 | 100 | 20 | 95° | 16 | 16 | 0,200 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNR 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,390 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNR 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,720 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNR 3225 P12 | 170 | 32 | 95° | 32 | 25 | 1,035 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNR 3232 P12 | 170 | 40 | 95° | 32 | 32 | 1,310 | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 |
| PCLNR 2525 M16 | 150 | 32 | 95° | 25 | 25 | 0,725 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |
| PCLNR 3232 P16 | 170 | 40 | 95° | 32 | 32 | 1,320 | CN_1606_ | LCL 5 | LCS 5 | LSC 53 | LSP 5 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND COOLANT, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL EXTERIEUR AVEC SERRAGE PAR LEVIER & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES CN_ NÉGATIVES 80°

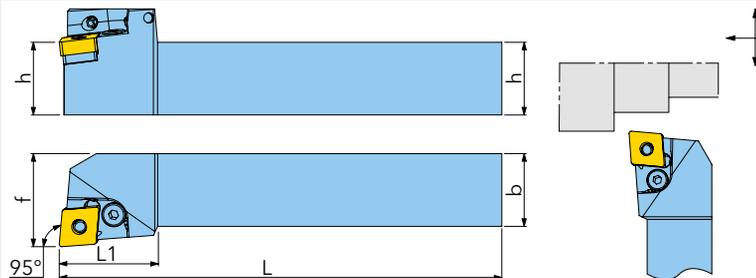


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | IK |
|----------------------------------|-----|----|----|-----|----|----|-------|----|
| PCLNL 2525 M12-TB | 150 | 33 | 32 | 95° | 25 | 25 | 0,830 | ✓ |
| PCLNL 3232 P12-TB | 170 | 33 | 40 | 95° | 32 | 32 | 1,320 | ✓ |
| PCLNR 2525 M12-TB | 150 | 33 | 32 | 95° | 25 | 25 | 0,770 | ✓ |
| PCLNR 3232 P12-TB | 170 | 33 | 40 | 95° | 32 | 32 | 1,325 | ✓ |

| Designation Réf. de l'article | | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|----------|-------|-------|--------|-------|---------|----------|------------|---------------|
| PCLNL 2525 M12-TB | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PCLNL 3232 P12-TB | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PCLNR 2525 M12-TB | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PCLNR 3232 P12-TB | CN_1204_ | LCL 4 | LCS 4 | LSC 42 | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage
⑥ = Coolant unit / Buse d'arrosage ⑦ = O-Ring / Joint ⑧ = Plug / Tube

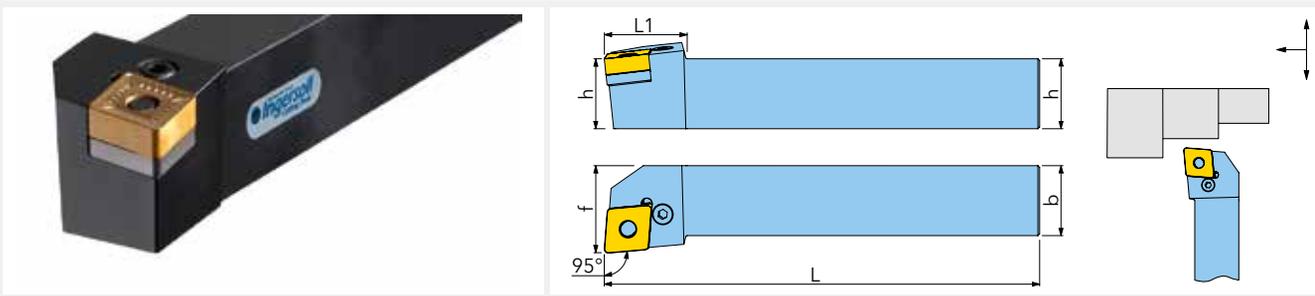
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL EXTERIEUR AVEC SERRAGE PAR LEVIER & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES CN_ NÉGATIVES 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | | ① | ② | ③ | ④ |
|----------------------------------|-------|----|----|-----|----|----|----|----------|---------|---------|---------|---------|
| PCLNL 2020 G12-IHP | 93 | 34 | 25 | 95° | 20 | 20 | ✓ | CN_1204_ | LCL 100 | LCS 100 | LSP 100 | LSC 112 |
| PCLNL 2525 J12-IHP | 105,5 | 34 | 32 | 95° | 25 | 25 | ✓ | CN_1204_ | LCL 100 | LCS 100 | LSP 100 | LSC 112 |
| PCLNR 2020 G12-IHP | 93 | 34 | 25 | 95° | 20 | 20 | ✓ | CN_1204_ | LCL 100 | LCS 100 | LSP 100 | LSC 112 |
| PCLNR 2525 J12-IHP | 105,5 | 34 | 32 | 95° | 25 | 25 | ✓ | CN_1204_ | LCL 100 | LCS 100 | LSP 100 | LSC 112 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim pin / Goupille d'assise ④ = Shim / Assise de protection

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES CN_ NÉGATIVES 80°

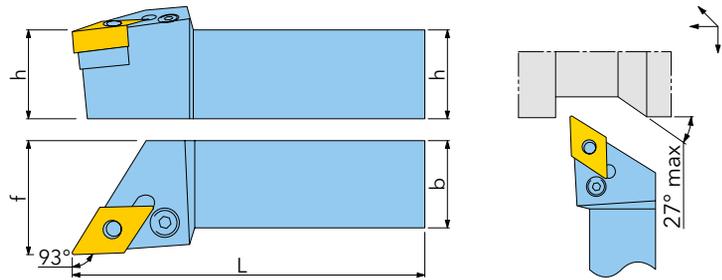


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | 80° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-------|---------|---------|-------|------|
| PCLNL 2525 M1906D | 150 | 38 | 32 | 95° | 25 | 25 | 0,750 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNL 3225 P1906D | 170 | 38 | 32 | 95° | 32 | 32 | 1,065 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNL 3232 P1906D | 170 | 38 | 40 | 95° | 32 | 32 | 1,360 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNL 4040 S1906D | 250 | 38 | 50 | 95° | 40 | 40 | 3,085 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNR 2525 M1906D | 150 | 38 | 32 | 95° | 25 | 25 | 0,750 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNR 3225 P1906D | 170 | 38 | 32 | 95° | 32 | 32 | 1,065 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNR 3232 P1906D | 170 | 38 | 40 | 95° | 32 | 32 | 0,670 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |
| PCLNR 4040 S1906D | 250 | 38 | 50 | 95° | 40 | 40 | 3,085 | CN_1906_ | LCL 6 | LCS 25C | LSC 64D | LSP 6 | LW 4 |

LSC 85D Shim can be used for CN_2507_ insert. / L'assise LSC 85D peut être utilisée pour les plaquettes CN_2507

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DN_ NÉGATIVES 55°

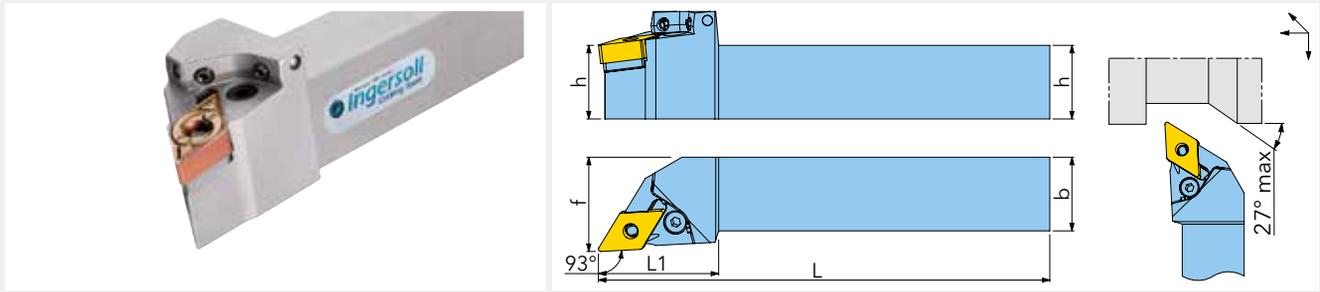


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|--------|------|-------|-------|--------|
| PDJNL 1616 H11 | 100 | 20 | 93° | 16 | 16 | 0,190 | DN_1104_ | LCL12C | LCS3 | LSD32 | LSP3A | LW2.5 |
| PDJNL 2020 K15 | 125 | 25 | 93° | 20 | 20 | 0,370 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNL 2525 M15 | 150 | 32 | 93° | 25 | 25 | 0,695 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNL 3225 P15 | 170 | 32 | 93° | 32 | 25 | 1,010 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNL 3232 P15 | 170 | 40 | 93° | 32 | 32 | 1,275 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNR 1616 H11 | 100 | 20 | 93° | 16 | 16 | 0,190 | DN_1104_ | LCL12C | LCS3 | LSD32 | LSP3A | LW2.5 |
| PDJNR 2020 K11 | 125 | 25 | 93° | 20 | 20 | 0,375 | DN_1104_ | LCL12C | LCS3 | LSD32 | LSP3A | LW2.5 |
| PDJNR 2525 M11 | 150 | 32 | 93° | 25 | 25 | 0,695 | DN_1104_ | LCL12C | LCS3 | LSD32 | LSP3A | LW2.5 |
| PDJNR 2020 K15 | 125 | 25 | 93° | 20 | 20 | 0,370 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNR 2525 M15 | 150 | 32 | 93° | 25 | 25 | 0,695 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNR 3225 P15 | 170 | 32 | 93° | 32 | 25 | 1,005 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |
| PDJNR 3232 P15 | 170 | 40 | 93° | 32 | 32 | 1,270 | DN_1506_ | LCL4A | LCS4 | LSD42 | LSP4 | WS0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage



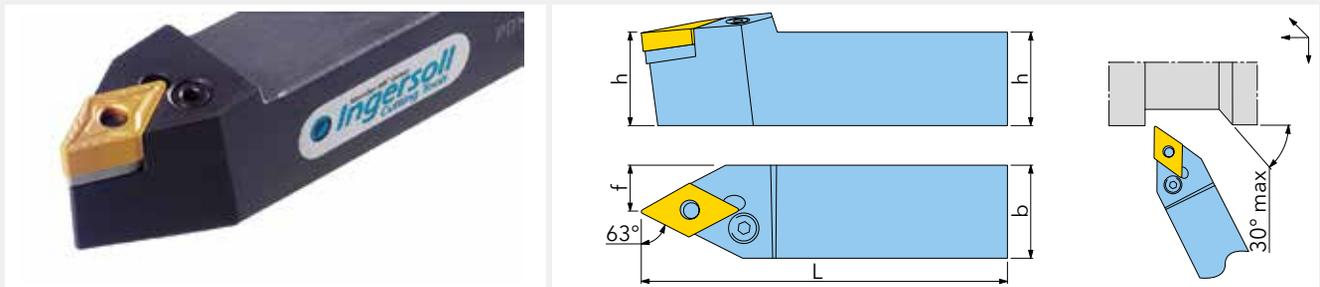
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ INSERTS
PORTE-OUTIL EXTÉRIEUR AVEC SERRAGE PAR LEVIER ET ARROSAGE HAUTE PRESSION, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | 55° | ① | ② | ③ | ④ |
|----------------------------------|-------|----|----|-----|----|----|----|----------|---------|---------|---------|---------|
| PDJNL 2020 G11-IHP | 92 | 33 | 25 | 93° | 20 | 20 | ✓ | DN_1104_ | LCL 101 | LCS 102 | LSP 101 | LSD 111 |
| PDJNL 2020 H15-IHP | 100 | 41 | 25 | 93° | 20 | 20 | ✓ | DN_1506_ | LCL 102 | LCS 100 | LSP 100 | LSD 115 |
| PDJNL 2525 H11-IHP | 104,5 | 33 | 32 | 93° | 25 | 25 | ✓ | DN_1104_ | LCL 101 | LCS 102 | LSP 101 | LSD 111 |
| PDJNL 2525 J15-IHP | 112,5 | 41 | 32 | 93° | 25 | 25 | ✓ | DN_1506_ | LCL 102 | LCS 100 | LSP 100 | LSD 115 |
| PDJNR 2020 G11-IHP | 92 | 33 | 25 | 93° | 20 | 20 | ✓ | DN_1104_ | LCL 101 | LCS 102 | LSP 101 | LSD 111 |
| PDJNR 2020 H15-IHP | 100 | 41 | 25 | 93° | 20 | 20 | ✓ | DN_1506_ | LCL 102 | LCS 100 | LSP 100 | LSD 115 |
| PDJNR 2525 H11-IHP | 104,5 | 33 | 32 | 93° | 25 | 25 | ✓ | DN_1104_ | LCL 101 | LCS 102 | LSP 101 | LSD 111 |
| PDJNR 2525 J15-IHP | 112,5 | 41 | 32 | 93° | 25 | 25 | ✓ | DN_1506_ | LCL 102 | LCS 100 | LSP 100 | LSD 115 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim pin / Goupille d'assise ④ = Shim / Assise de protection

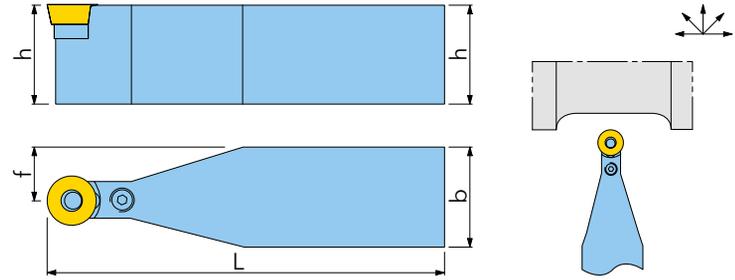
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 55° DN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | L | f | κ | h | b | kg | 55° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|-----|------|-----|----|----|-------|----------|--------|-------|--------|-------|---------|
| PDNNL 2020 K15 | 125 | 16 | 63° | 20 | 20 | 0,350 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| PDNNL 2525 M15 | 150 | 18,5 | 63° | 25 | 25 | 0,655 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| PDNNL 3232 P15 | 170 | 23,4 | 63° | 32 | 32 | 1,200 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| PDNNR 2020 K15 | 125 | 16 | 63° | 20 | 20 | 0,350 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| PDNNR 2525 M15 | 150 | 18,5 | 63° | 25 | 25 | 0,655 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| PDNNR 3232 P15 | 170 | 23,4 | 63° | 32 | 32 | 1,210 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE RC_X_ ROUND INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES RC_X_ RONDES POSITIVES

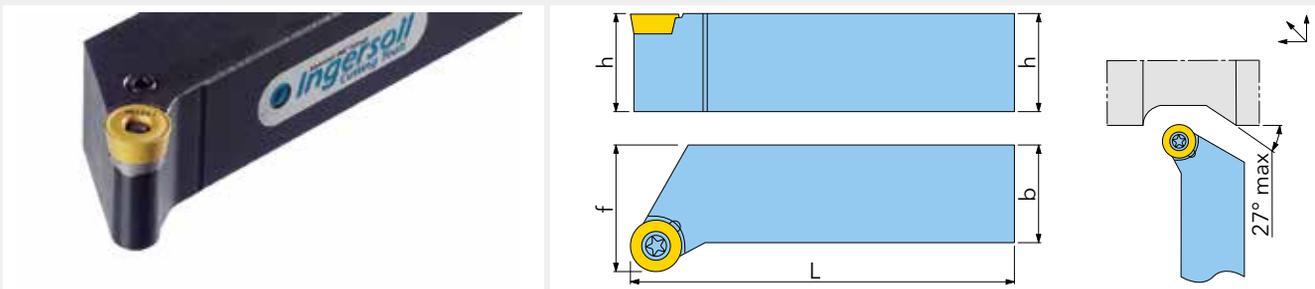


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|--------------|---------|---------|----------|---------|---------|
| PRDCN 2020 M10 | 150 | 10,0 | 45° | 20 | 20 | 0,380 | RC_X_ 100300 | LCL 10C | LCS 2 | LSR 32 | LSP 3A | LW 2 |
| PRDCN 2525 M10 | 150 | 12,5 | 45° | 25 | 25 | 0,590 | RC_X_ 100300 | LCL 10C | LCS 2 | LSR 32 | LSP 3A | LW 2 |
| PRDCN 2020 K12 | 125 | 10,0 | 45° | 20 | 20 | 0,310 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3A | LW 2.5 |
| PRDCN 2525 M12 | 150 | 12,5 | 45° | 25 | 25 | 0,590 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3A | LW 2.5 |
| PRDCN 2525 Q16 | 180 | 12,5 | 45° | 25 | 25 | 0,755 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRDCN 3225 Q16 | 180 | 12,5 | 45° | 32 | 25 | 0,970 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRDCN 3232 Q16 | 180 | 16,0 | 45° | 32 | 32 | 1,220 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRDCN 3232 Q20 | 250 | 16,0 | 45° | 32 | 32 | 1,215 | RC_X_ 200600 | LCL 20C | LCS 5 | LSR 2004 | LSP 5 | WS-0060 |
| PRDCN 4040 S20 | 250 | 20,0 | 45° | 40 | 40 | 2,660 | RC_X_ 200600 | LCL 12C | LCS 5 | LSR 2004 | LSP 5 | WS-0060 |
| PRDCN 4040 S25 | 250 | 20,0 | 45° | 40 | 40 | 2,670 | RC_X_ 250700 | LCL 25C | LCS 25C | LSR 2506 | LSP 6 | LW 4 |
| PRDCN 5050 U32 | 350 | 25,0 | 45° | 50 | 50 | 6,020 | RC_X_ 320900 | LCL 32C | LCS 8 | LSR 3206 | LSP 8 | LW 5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage



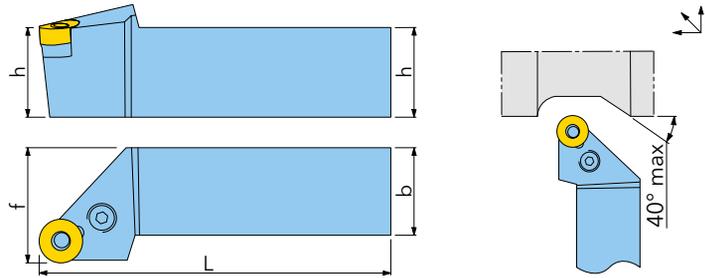
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR POSITIVE RC_X_ ROUND INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES RC_X_ RONDES POSITIVES



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|--------------|---------|---------|----------|---------|---------|
| PRGCL 2020 K12 | 125 | 25 | 90° | 20 | 20 | 0,370 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3 | LW 2.5 |
| PRGCL 2525 M10 | 150 | 32 | 90° | 25 | 25 | 0,690 | RC_X_ 100300 | LCL 10C | LCS 2 | LSR 32 | LSP 3 | LW 2 |
| PRGCL 2525 M12 | 150 | 32 | 90° | 25 | 25 | 0,690 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3 | LW 2.5 |
| PRGCL 3225 P12 | 170 | 32 | 90° | 32 | 25 | 1,010 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3 | LW 2.5 |
| PRGCL 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,690 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRGCL 3225 P16 | 170 | 32 | 90° | 32 | 25 | 1,015 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRGCL 3232 P20 | 170 | 40 | 90° | 32 | 32 | 1,295 | RC_X_ 200600 | LCL 20C | LCS 5 | LSR 2004 | LSP 5 | WS-0060 |
| PRGCL 4040 S25 | 250 | 50 | 90° | 40 | 40 | 3,000 | RC_X_ 250700 | LCL 25C | LCS 25C | LSR 2506 | LSP 6 | LW 4 |
| PRGCR 2020 K12 | 125 | 25 | 90° | 20 | 20 | 0,370 | RC_X_ 120400 | LCL 10C | LCS 2 | LSR 32 | LSP 3 | LW 2 |
| PRGCR 2525 M10 | 150 | 32 | 90° | 25 | 25 | 0,695 | RC_X_ 100300 | LCL 10C | LCS 2 | LSR 32 | LSP 3 | LW 2 |
| PRGCR 2525 M12 | 150 | 32 | 90° | 25 | 25 | 0,690 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3 | LW 2.5 |
| PRGCR 3225 P12 | 170 | 32 | 90° | 32 | 25 | 1,010 | RC_X_ 120400 | LCL 12C | LCS 3 | LSR 1203 | LSP 3 | LW 2.5 |
| PRGCR 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,695 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRGCR 3225 P16 | 170 | 32 | 90° | 32 | 25 | 1,015 | RC_X_ 160600 | LCL 16C | LCS 16C | LSR 1604 | LSP 16C | LW 2.5 |
| PRGCR 3232 P20 | 170 | 40 | 90° | 32 | 32 | 1,290 | RC_X_ 200600 | LCL 20C | LCS 5 | LSR 2004 | LSP 5 | WS-0060 |
| PRGCR 4040 S25 | 250 | 50 | 90° | 40 | 40 | 3,010 | RC_X_ 250700 | LCL 25C | LCS 25C | LSR 2506 | LSP 6 | LW 4 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

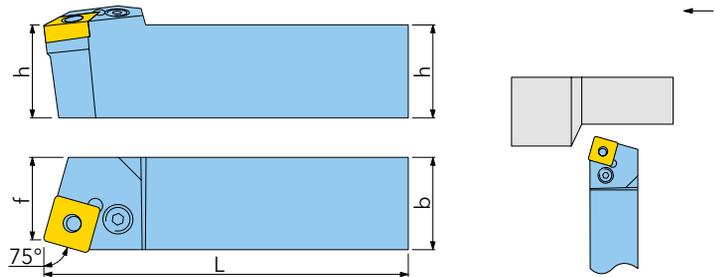
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE RNMG ROUND INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES RNMG RONDES NÉGATIVES



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|-------------|-------|-------|--------|-------|---------|
| PRGNL 2525 M12 | 150 | 32 | 90° | 25 | 25 | 0,690 | RNMG_120400 | LCL 4 | LCS 4 | LSR 42 | LSP 4 | WS-0060 |
| PRGNR 2525 M12 | 150 | 32 | 90° | 25 | 25 | 0,685 | RNMG_120400 | LCL 4 | LCS 4 | LSR 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

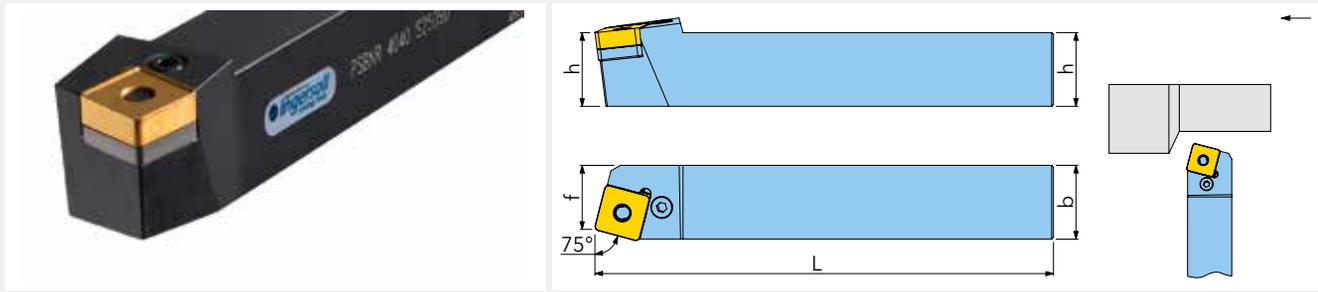
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-------|---------|
| PSBNL 2525 M12 | 150 | 22 | 75° | 25 | 25 | 0,700 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSBNL 3225 P12 | 170 | 22 | 75° | 32 | 25 | 1,015 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSBNL 2525 M15 | 150 | 22 | 75° | 25 | 25 | 0,695 | SN_1506_ | LCL 5 | LCS 5 | LSS 53 | LSP 5 | WS-0060 |
| PSBNR 2525 M12 | 150 | 22 | 75° | 25 | 25 | 0,705 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSBNR 3225 P12 | 170 | 22 | 75° | 32 | 25 | 1,015 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSBNR 2525 M15 | 150 | 22 | 75° | 25 | 25 | 0,695 | SN_1506_ | LCL 5 | LCS 5 | LSS 53 | LSP 5 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°



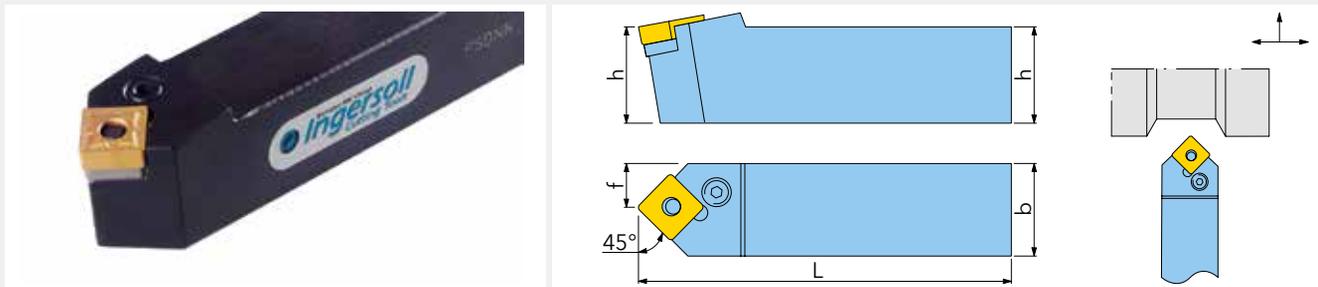
| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|---|-----|----|------|-----|----|----|-------|----------|-------|---------|---------|-------|------|
| PSBNL 3232 P1906D | 170 | 39 | 27 | 75° | 32 | 32 | 1,295 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 8 | LW 5 |
| PSBNL 4040 S1906D | 250 | 39 | 35 | 75° | 40 | 40 | 3,000 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 8 | LW 5 |
| PSBNL 4040 S2509D | 250 | 48 | 35 | 75° | 40 | 40 | 1,995 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSBNL 4040 S2509D-A85 ¹⁾²⁾³⁾ | 250 | 48 | 39,5 | 75° | 40 | 40 | 3,035 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSBNL 5050 T2509D | 300 | 48 | 43 | 75° | 50 | 50 | 5,610 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSBNR 3232 P1906D | 170 | 39 | 27 | 75° | 32 | 32 | 1,295 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 8 | LW 5 |
| PSBNR 4040 S1906D | 250 | 39 | 35 | 75° | 40 | 40 | 3,000 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 8 | LW 5 |
| PSBNR 4040 S2509D ²⁾³⁾ | 250 | 48 | 35 | 75° | 40 | 40 | 2,990 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSBNR 4040 S2509D-A85 ¹⁾²⁾³⁾ | 250 | 48 | 39,5 | 75° | 40 | 40 | 3,035 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSBNR 5050 T2509D | 300 | 48 | 43 | 75° | 50 | 50 | 5,615 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |

LSS 85D Shim can be used for SN_2507_ insert. / L'assise LSS 85D peut être utilisée pour les plaquettes SN_ 2507

¹⁾ 4040 S2509D-A85 in 85° / 4040 S2509D-A85 in 85° ²⁾ / ³⁾ /

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

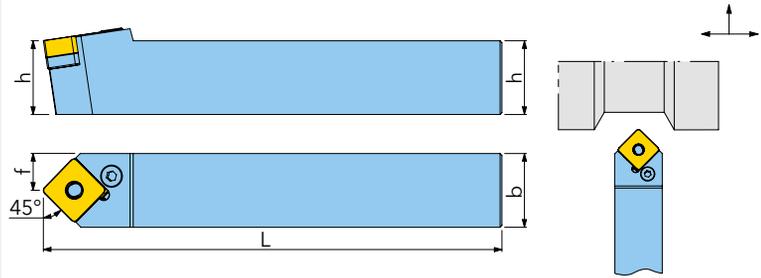
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|----------|-------|-------|--------|-------|---------|
| PSDNN 2020 K12 | 125 | 10,0 | 45° | 20 | 20 | 0,365 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSDNN 2525 M12 | 150 | 12,5 | 45° | 25 | 25 | 0,685 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSDNN 3225 P12 | 170 | 12,5 | 45° | 32 | 25 | 0,995 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°

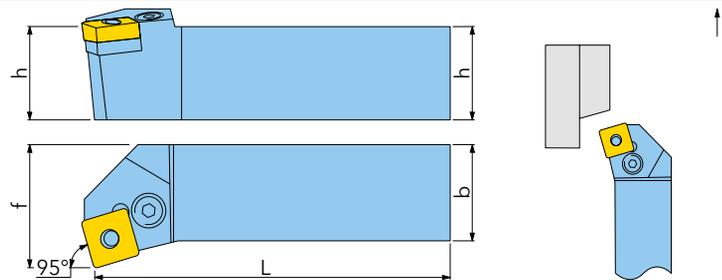


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|------|------|-----|----|----|-------|----------|-------|---------|---------|-------|------|
| PSDNN 3225 P1906D | 170 | 40,5 | 12,5 | 45° | 32 | 25 | 1,000 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 6 | LW 4 |
| PSDNN 3232 P1906D | 170 | 40,5 | 16,0 | 45° | 32 | 32 | 1,270 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 6 | LW 4 |
| PSDNN 4040 S1906D | 250 | 40,5 | 20 | 45° | 40 | 40 | 2,940 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 6 | LW 4 |
| PSDNN 4040 S2509D | 250 | 48 | 20 | 45° | 40 | 40 | 2,945 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSDNN 5050 T2509D | 300 | 48 | 25 | 45° | 50 | 50 | 5,505 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |

LSS 85D Shim can be used for SN_2507_ insert. / L'assise LSS 85D peut être utilisée pour les plaquettes SN_2507

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

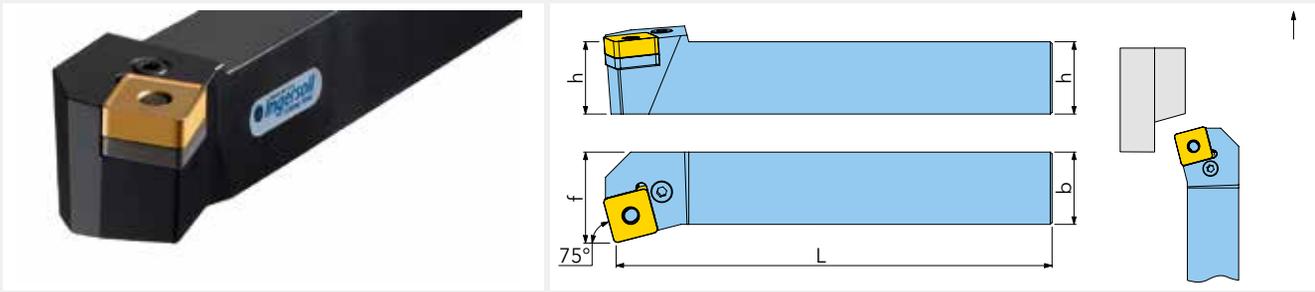
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-------|---------|
| PSKNL 2020 K12 | 125 | 25 | 75° | 20 | 20 | 0,390 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSKNL 2525 M12 | 150 | 32 | 75° | 25 | 25 | 0,730 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSKNR 2020 K12 | 125 | 25 | 75° | 20 | 20 | 0,390 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSKNR 2525 M12 | 150 | 32 | 75° | 25 | 25 | 0,725 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°

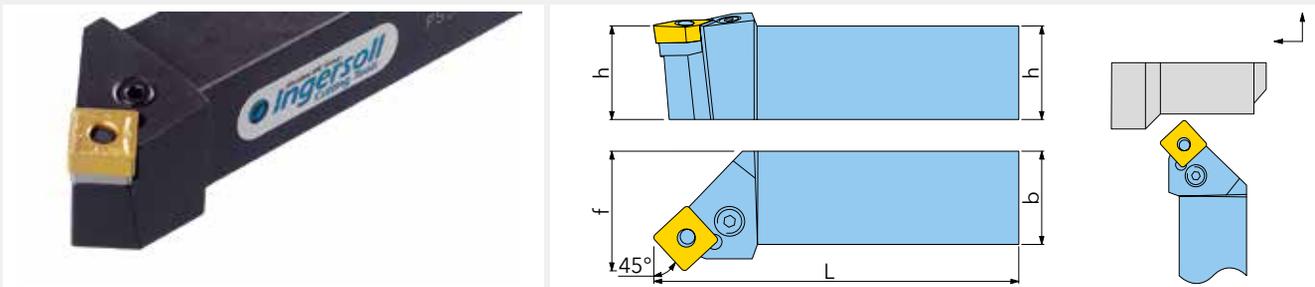


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-------|-------|---------|-------|------|
| PSKNL 4040 S2509D | 250 | 42 | 50 | 75° | 40 | 40 | 3,165 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |
| PSKNR 4040 S2509D | 250 | 42 | 50 | 75° | 40 | 40 | 3,160 | SN_2509_ | LCL 8 | LCS 8 | LSS 84D | LSP 8 | LW 5 |

LSS 85D Shim can be used for SN_2507_ insert. / L'assise LSS 85D peut être utilisée pour les plaquettes SN_ 2507

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

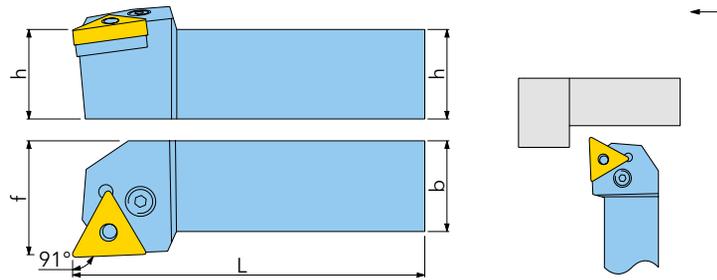
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|---------|---------|-------|---------|
| PSSNL 2020 K12 | 125 | 25 | 45° | 20 | 20 | 0,375 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSSNL 2525 M12 | 150 | 32 | 45° | 25 | 25 | 0,690 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSSNL 3232 P19 | 170 | 40 | 45° | 32 | 32 | 1,295 | SN_1906_ | LCL 6 | LCS 6 | LSS 63 | LSP 6 | LW 4 |
| PSSNR 2020 K12 | 125 | 25 | 45° | 20 | 20 | 0,375 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSSNR 2525 M12 | 150 | 32 | 45° | 25 | 25 | 0,695 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSSNR 3225 P12 | 170 | 32 | 45° | 32 | 25 | 1,010 | SN_1204_ | LCL 4 | LCS 4 | LSS 42 | LSP 4 | WS-0060 |
| PSSNL 3232 P1906D | 170 | 40 | 45° | 32 | 32 | 1,300 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 6 | LW 4 |
| PSSNL 4040 S1906D | 250 | 50 | 45° | 40 | 40 | 2,960 | SN_1906_ | LCL 6 | LCS 25C | LSS 64D | LSP 6 | LW 4 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES TN_ NÉGATIVES 60°

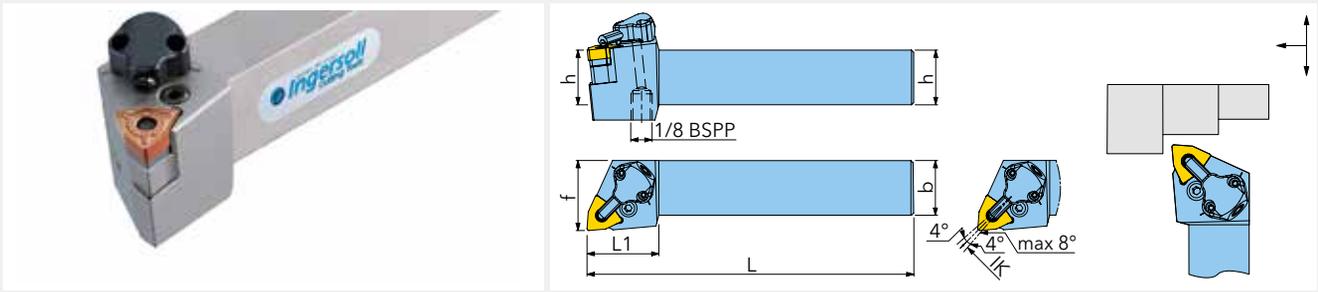


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|--------|--------|----------|--------|---------|
| PTGNL 1010 E11 | 70 | 12 | 90° | 10 | 10 | 0,055 | TN_1103_ | LCL 2B | LCS 2B | LSR 2B | - | LW 2 |
| PTGNL 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TN_1103_ | LCL 2B | LCS 2B | LSR 2B | - | LW 2 |
| PTGNL 1616 H16 | 100 | 20 | 90° | 16 | 16 | 0,195 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTGNL 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,390 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTGNL 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,715 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTGNL 2525 M22 | 150 | 32 | 90° | 25 | 25 | 0,735 | TN_2204_ | LCL 4 | LCS 4 | LST 42 | LSP 4 | WS-0060 |
| PTGNL 3232 P22 | 170 | 40 | 90° | 32 | 32 | 1,330 | TN_2204_ | LCL 4 | LCS 4 | LST 42 | LSP 4 | WS-0060 |
| PTGNL 4040 S27 | 250 | 50 | 90° | 40 | 40 | 3,090 | TN_2706_ | LCL 5 | LCS 5 | LST 53 | LSP 5 | LW 4 |
| PTG NR 1010 E11 | 70 | 12 | 90° | 10 | 10 | 0,055 | TN_1103_ | LCL 2B | LCS 2B | LSR 2B | - | LW 2 |
| PTG NR 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TN_1103_ | LCL 2B | LCS 2B | LSR 2B | - | LW 2 |
| PTG NR 1616 H16 | 100 | 20 | 90° | 16 | 16 | 0,200 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTG NR 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,390 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTG NR 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,720 | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTG NR 3232 P16 | 170 | 40 | 90° | 32 | 32 | | TN_1604_ | LCL 3 | LCS 3 | LST 31.8 | LSP 3A | LW 2.5 |
| PTG NR 2525 M22 | 150 | 32 | 90° | 25 | 25 | 0,735 | TN_2204_ | LCL 4 | LCS 4 | LST 42 | LSP 4 | WS-0060 |
| PTG NR 3232 P22 | 170 | 40 | 90° | 32 | 32 | 1,335 | TN_2204_ | LCL 4 | LCS 4 | LST 42 | LSP 4 | WS-0060 |
| PTG NR 4040 S27 | 250 | 50 | 90° | 40 | 40 | 3,170 | TN_2706_ | LCL 5 | LCS 5 | LST 53 | LSP 5 | LW 4 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage



EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND COOLANT, FOR NEGATIVE 80° TRIGON WN_ INSERTS
PORTE-OUTIL EXTERIEUR AVEC SERRAGE PAR LEVIER & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES WN_ NÉGATIVES TRIGONE 80°

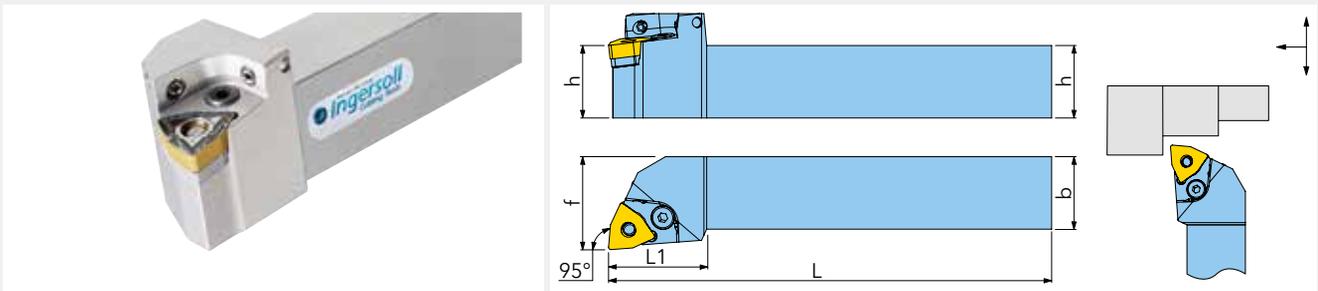


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | IK |
|----------------------------------|-----|----|----|-----|----|----|-------|----|
| PwLNL 2525 M08-TB | 150 | 33 | 32 | 95° | 25 | 25 | 0,780 | ✓ |
| PwLNL 3232 P08-TB | 170 | 33 | 40 | 95° | 32 | 32 | 1,340 | ✓ |
| PwLNR 2525 M08-TB | 150 | 33 | 32 | 95° | 25 | 25 | 0,780 | ✓ |
| PwLNR 3232 P08-TB | 170 | 33 | 40 | 95° | 32 | 32 | 1,340 | ✓ |

| Designation Réf. de l'article | | | | | | | | | |
|----------------------------------|----------|-------|-------|------------|-------|---------|----------|------------|---------------|
| PwLNL 2525 M08-TB | WN_0804_ | LCL 4 | LCS 4 | TWN 423(T) | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PwLNL 3232 P08-TB | WN_0804_ | LCL 4 | LCS 4 | TWN 423(T) | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PwLNR 2525 M08-TB | WN_0804_ | LCL 4 | LCS 4 | TWN 423(T) | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |
| PwLNR 3232 P08-TB | WN_0804_ | LCL 4 | LCS 4 | TWN 423(T) | LSP 4 | WS-0060 | CU-CW-TB | ID 6.4x0.9 | SS 4x0.7x4-NL |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage
⑥ = Coolant unit / Buse d'arrosage ⑦ = O-Ring / Joint ⑧ = Plug / Tube

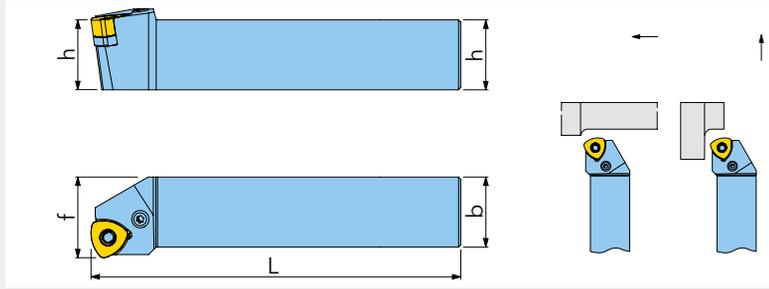
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 80° TRIGON WN_ INSERTS
PORTE-OUTIL EXTERIEUR AVEC SERRAGE PAR LEVIER & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES WN_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | | | | | |
|----------------------------------|-------|----|----|-----|----|----|----|----------|---------|---------|---------|---------|
| PwLNL 2020 G06-IHP | 89 | 30 | 25 | 95° | 20 | 20 | ✓ | WN_0604_ | LCL 103 | LCS 103 | LSP 102 | LSW 106 |
| PwLNL 2020 G08-IHP | 93 | 34 | 25 | 95° | 20 | 20 | ✓ | WN_0804_ | LCL 100 | LCS 100 | LSP 100 | LSW 108 |
| PwLNL 2525 H06-IHP | 101,5 | 30 | 32 | 95° | 25 | 25 | ✓ | WN_0604_ | LCL 103 | LCS 103 | LSP 102 | LSW 106 |
| PwLNL 2525 J08-IHP | 105,5 | 34 | 32 | 95° | 25 | 25 | ✓ | WN_0804_ | LCL 100 | LCS 100 | LSP 100 | LSW 108 |
| PwLNR 2020 G06-IHP | 89 | 30 | 25 | 95° | 20 | 20 | ✓ | WN_0604_ | LCL 103 | LCS 103 | LSP 102 | LSW 106 |
| PwLNR 2020 G08-IHP | 93 | 34 | 25 | 95° | 20 | 20 | ✓ | WN_0804_ | LCL 100 | LCS 100 | LSP 100 | LSW 108 |
| PwLNR 2525 H06-IHP | 101,5 | 30 | 32 | 95° | 25 | 25 | ✓ | WN_0604_ | LCL 103 | LCS 103 | LSP 102 | LSW 106 |
| PwLNR 2525 J08-IHP | 105,5 | 34 | 32 | 95° | 25 | 25 | ✓ | WN_0804_ | LCL 100 | LCS 100 | LSP 100 | LSW 108 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim pin / Goupille d'assise ④ = Shim / Assise de protection

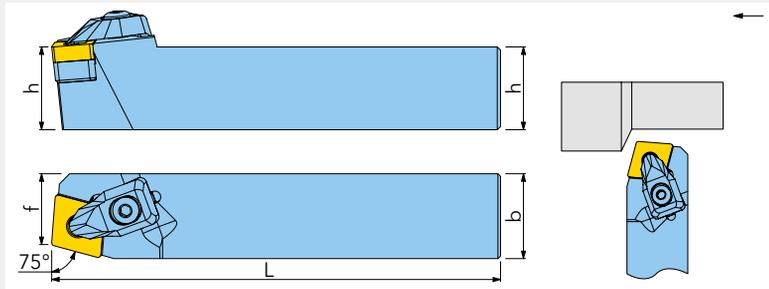
EXTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEGATIVE BNMX_ INSERTS
PORTE-OUTIL DE TOURNAGE EXTERNE SERRAGE PAR LEVIER, POUR PLAQUETTES NÉGATIVES BNMX



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|---------|----|----|-------|----------------|-----------|-------------|----------|-------|---------|---------|
| HBXNL 2525 M1507 | 150 | 30 | Spezial | 25 | 25 | 0,725 | BNMX_1507_L-HF | LCL 16-NX | LCS 5-L25.5 | LSB 53 L | LSP 5 | SPP 5-6 | WS-0060 |
| HBXNL 3232 P1507 | 170 | 37 | Spezial | 32 | 32 | 1,305 | BNMX_1507_L-HF | LCL 16-NX | LCS 5-L25.5 | LSB 53 L | LSP 5 | SPP 5-6 | WS-0060 |
| HBXNR 2525 M1507 | 150 | 30 | Spezial | 25 | 25 | 0,725 | BNMX_1507_R-HF | LCL 16-NX | LCS 5-L25.5 | LSB 53 R | LSP 5 | SPP 5-6 | WS-0060 |
| HBXNR 3232 P1507 | 170 | 37 | Spezial | 32 | 32 | 1,310 | BNMX_1507_R-HF | LCL 16-NX | LCS 5-L25.5 | LSB 53 R | LSP 5 | SPP 5-6 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Differential screw / Vis à pas différentiel ⑥ = Wrench / Clé de serrage

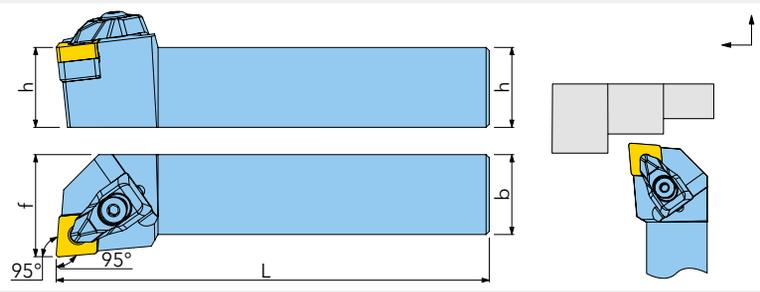
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES CN_ NÉGATIVES 80°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TCBNL 2525 M12 | 150 | 22,5 | 75° | 25 | 25 | 0,725 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCBNL 3232 P19 | 170 | 27 | 75° | 32 | 32 | 1,330 | CN_1906_ | DLM 6 | DLS 5 | LSC 63 | SO 80180I | DSP 5 | L-W 4 |
| TCBNR 2525 M12 | 150 | 22,5 | 75° | 25 | 25 | 0,725 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCBNR 3232 P19 | 170 | 27 | 75° | 32 | 32 | 1,335 | CN_1906_ | DLM 6 | DLS 5 | LSC 63 | SO 80180I | DSP 5 | L-W 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

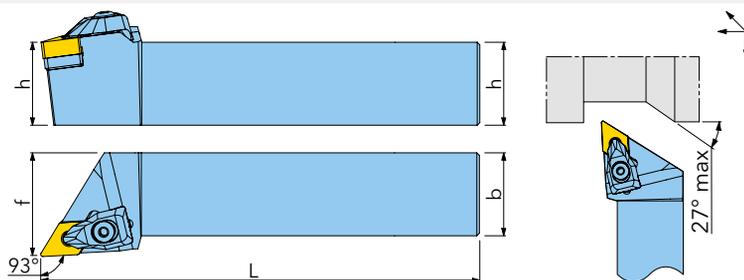
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° CN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES CN_ NÉGATIVES 80°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TCLNL 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,410 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,750 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 3225 P12 | 170 | 32 | 95° | 32 | 25 | 1,070 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 3232 P12 | 170 | 40 | 95° | 32 | 32 | 1,355 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 2525 M16 | 150 | 32 | 95° | 25 | 25 | 0,765 | CN_1606_ | DLM 5 | DLS 5 | TSC 54 | SO 50090I | DSP 5 | L-W 4 |
| TCLNL 3232 P19 | 170 | 40 | 95° | 32 | 32 | 1,390 | CN_1906_ | DLM 6 | DLS 5 | LSC 63 | SO 80180I | DSP 5 | L-W 4 |
| TCLNR 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,410 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,750 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 3225 P12 | 170 | 32 | 95° | 32 | 25 | 1,070 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 3232 P12 | 170 | 40 | 95° | 32 | 32 | 1,355 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2525 M16 | 150 | 32 | 95° | 25 | 25 | 0,770 | CN_1606_ | DLM 5 | DLS 5 | TSC 54 | SO 50090I | DSP 5 | L-W 4 |
| TCLNR 3232 P19 | 170 | 40 | 95° | 32 | 32 | 1,390 | CN_1906_ | DLM 6 | DLS 5 | LSC 63 | SO 80180I | DSP 5 | L-W 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

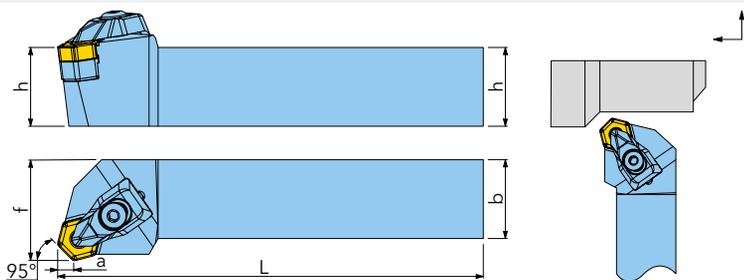
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 55° DN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TDJNL 2020 K11 | 125 | 25 | 93° | 20 | 20 | 0,380 | DN_1104_ | DLM 3 | DLS 3 | LSD 32 | SO 40085I | DSP 3 | LW 2.5 |
| TDJNL 2525 M11 | 150 | 32 | 93° | 25 | 25 | 0,700 | DN_1104_ | DLM 3 | DLS 3 | LSD 32 | SO 40085I | DSP 3 | LW 2.5 |
| TDJNL 2020 K15 | 125 | 25 | 93° | 20 | 20 | 0,390 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 40050I | DSP 4 | WS-0060 |
| TDJNL 2525 M15 | 150 | 32 | 93° | 25 | 25 | 0,720 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 40050I | DSP 4 | WS-0060 |
| TDJNL 2525 M1504 | 150 | 32 | 93° | 25 | 25 | 0,725 | DN_1504_ | DLM 4 | DLS 4 | TSD 44 | SO 40050I | DSP 4 | WS-0060 |
| TDJNR 2020 K11 | 125 | 25 | 93° | 20 | 20 | 0,380 | DN_1104_ | DLM 3 | DLS 3 | LSD 32 | SO 40085I | DSP 3 | LW 2.5 |
| TDJNR 2525 M11 | 150 | 32 | 93° | 25 | 25 | 0,700 | DN_1104_ | DLM 3 | DLS 3 | LSD 32 | SO 40085I | DSP 3 | LW 2.5 |
| TDJNR 2020 K15 | 125 | 25 | 93° | 20 | 20 | 0,395 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 40050I | DSP 4 | WS-0060 |
| TDJNR 2525 M15 | 150 | 32 | 93° | 25 | 25 | 0,725 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 40050I | DSP 4 | WS-0060 |
| TDJNR 2525 M1504 | 150 | 32 | 93° | 25 | 25 | 0,725 | DN_1504_ | DLM 4 | DLS 4 | TSD 44 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

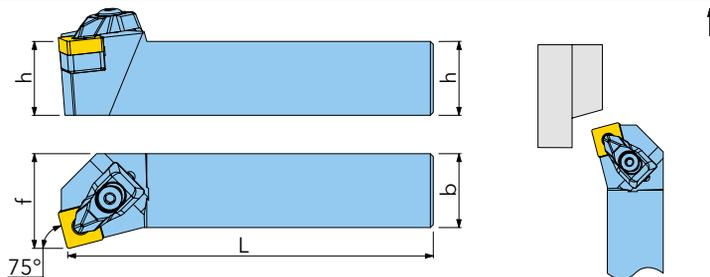
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 120° HN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES HN_ NÉGATIVES 120°



| Designation Réf. de l'article | L | f | κ | a | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| THSNL 2525 M05 | 150 | 32 | 45° | 4,2 | 25 | 25 | 0,750 | HN_0504_ | DLM 4 | DLS 4 | TSH 44 | SO 40050I | DSP 4 | WS-0060 |
| THSNL 2525 M10 | 150 | 32 | 45° | 4,2 | 25 | 25 | 0,840 | HN_1006_ | DLM 6 | DLS 5 | TSH 64 | SO 50090I | DSP 5 | LW 4 |
| THSNL 3232 P05 | 170 | 40 | 45° | 4,2 | 32 | 32 | 1,000 | HN_0504_ | DLM 4 | DLS 4 | TSH 44 | SO 40050I | DSP 4 | WS-0060 |
| THSNL 3232 P10 | 170 | 40 | 45° | 4,2 | 32 | 32 | 1,391 | HN_1006_ | DLM 6 | DLS 5 | TSH 64 | SO 50090I | DSP 5 | LW 4 |
| THSNR 2525 M05 | 150 | 32 | 45° | 4,2 | 25 | 25 | 0,745 | HN_0504_ | DLM 4 | DLS 4 | TSH 44 | SO 40050I | DSP 4 | WS-0060 |
| THSNR 2525 M10 | 150 | 32 | 45° | 4,2 | 25 | 25 | 0,785 | HN_1006_ | DLM 6 | DLS 5 | TSH 64 | SO 50090I | DSP 5 | LW 4 |
| THSNR 3232 P05 | 170 | 40 | 45° | 4,2 | 32 | 32 | 1,350 | HN_0504_ | DLM 4 | DLS 4 | TSH 44 | SO 40050I | DSP 4 | WS-0060 |
| THSNR 3232 P10 | 170 | 40 | 45° | 4,2 | 32 | 32 | 1,390 | HN_1006_ | DLM 6 | DLS 5 | TSH 64 | SO 50090I | DSP 5 | LW 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TSKNL 2525 M12 | 150 | 32 | 75° | 25 | 25 | 0,750 | SN_1204_ | DLM 4 | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |
| TSKNR 2525 M12 | 150 | 32 | 75° | 25 | 25 | 0,755 | SN_1204_ | DLM 4 | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

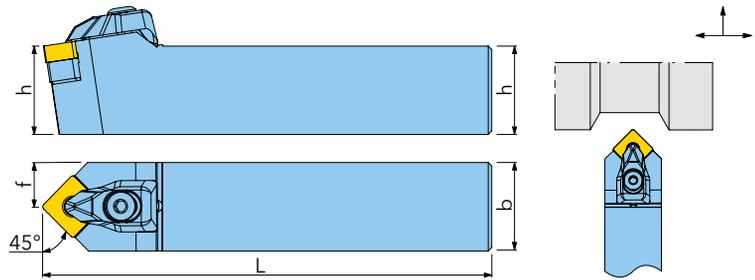
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TSSNL 2525 M12 | 150 | 32 | 45° | 25 | 25 | 0,720 | SN_1204_ | DLM 4 | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |
| TSSNR 2525 M12 | 150 | 32 | 45° | 25 | 25 | 0,720 | SN_1204_ | DLM 4 | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

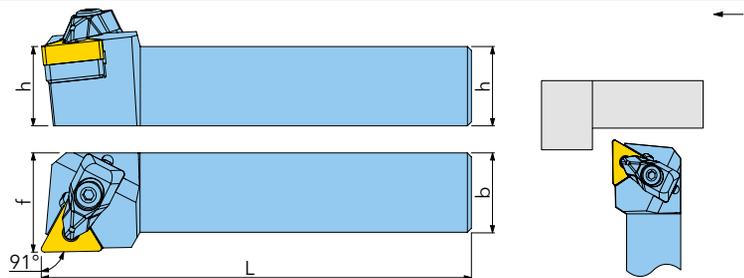
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 90° SN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES SN_ NÉGATIVES 90°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TSDNN 2525 M12 | 150 | 12,5 | 45° | 25 | 25 | 0,705 | SN_1204_ | DLM 4 | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |
| TSDNN 3232 P19 | 170 | 16 | 45° | 32 | 32 | 1,300 | SN_1906_ | DLM 5 | DLS 5 | LSS 63 | SO 80180I | DSP 5 | LW 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

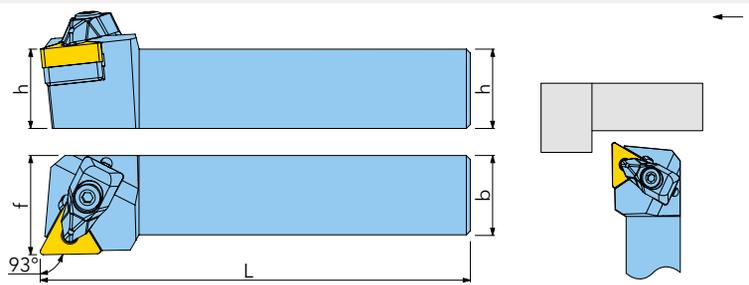
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES TN_ NÉGATIVES 60°



| Designation Réf. de l'article | L | f | α | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|-------|-------|--------|-----------|-------|--------|
| TTGNL 2525 M16 | 150 | 32 | 91 | 90° | 25 | 25 | 0,730 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 35080I | DSP 3 | LW 2.5 |
| TTGNR 2525 M16 | 150 | 32 | 91 | 90° | 25 | 25 | 0,730 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 35080I | DSP 3 | LW 2.5 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

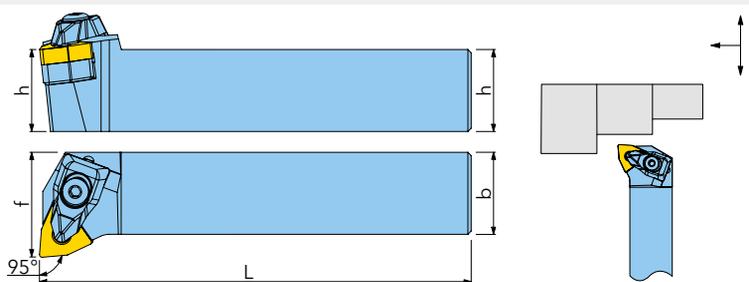
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES TN_ NÉGATIVES 60°



| Designation Réf. de l'article | L | f | α | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----------|----------|----|----|-------|----------|-------|-------|--------|-----------|-------|--------|
| TTJNL 2020 K16 | 125 | 25 | 93 | 93° | 20 | 20 | 0,400 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 350801 | DSP 3 | LW 2.5 |
| TTJNL 2525 M16 | 150 | 32 | 93 | 93° | 25 | 25 | 0,725 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 350801 | DSP 3 | LW 2.5 |
| TTJNR 2020 K16 | 125 | 25 | 93 | 93° | 20 | 20 | 0,400 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 350801 | DSP 3 | LW 2.5 |
| TTJNR 2525 M16 | 150 | 32 | 93 | 93° | 25 | 25 | 0,706 | TN_1604_ | DLM 3 | DLS 3 | TST 33 | SO 350801 | DSP 3 | LW 2.5 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

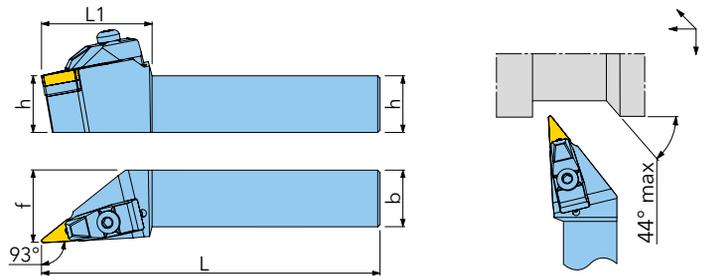
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 80° TRIGON WN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES WN_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----------|----|----|-------|----------|-------|-------|--------|-----------|-------|---------|
| TWLNL 2020 K06 | 125 | 25 | 95° | 20 | 20 | 0,385 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 400901 | DSP 3 | LW 2.5 |
| TWLNL 2525 M06 | 150 | 32 | 95° | 25 | 25 | 0,720 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 400901 | DSP 3 | LW 2.5 |
| TWLNL 2020 K08 | 125 | 25 | 95° | 20 | 20 | 0,405 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |
| TWLNL 2525 M08 | 150 | 32 | 95° | 25 | 25 | 0,730 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |
| TWLNL 3232 M08 | 150 | 39 | 95° | 32 | 32 | 1,175 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |
| TWLNR 2020 K06 | 125 | 25 | 95° | 20 | 20 | 0,385 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 400901 | DSP 3 | LW 2.5 |
| TWLNR 2525 M06 | 150 | 32 | 95° | 25 | 25 | 0,720 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 400901 | DSP 3 | LW 2.5 |
| TWLNR 2020 K08 | 125 | 25 | 95° | 20 | 20 | 0,410 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |
| TWLNR 2525 M08 | 150 | 32 | 95° | 25 | 25 | 0,730 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |
| TWLNR 3232 P08 | 170 | 39 | 95° | 32 | 32 | 1,330 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 400501 | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

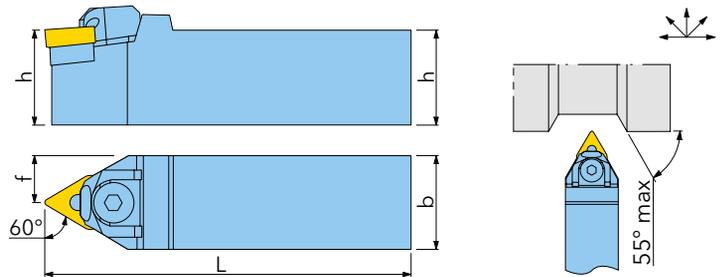
EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM, FOR NEGATIVE 35° VN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE TYPE "T", POUR PLAQUETTES VN_ NÉGATIVES 35°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|----------|--------|-------|-----------|-----------|-------|------|
| TVJNL 2020 K13 | 125 | 49 | 25 | 93° | 20 | 20 | 0,415 | VN_1304_ | DLM 3V | DLS 5 | MSV 2.522 | SC 4-SH | DSP 5 | LW 4 |
| TVJNL 2525 M13 | 150 | 49 | 32 | 93° | 25 | 25 | 0,720 | VN_1304_ | DLM 3V | DLS 5 | MSV 2.522 | SC 4-SH | DSP 5 | LW 4 |
| TVJNL 2020 K16 | 125 | 49 | 25 | 93° | 20 | 20 | 0,410 | VN_1604_ | DLM 3V | DLS 5 | TSV 33 | SO 35080I | DSP 5 | LW 4 |
| TVJNL 2525 M16 | 150 | 49 | 32 | 93° | 25 | 25 | 0,715 | VN_1604_ | DLM 3V | DLS 5 | TSV 33 | SO 35080I | DSP 5 | LW 4 |
| TVJNR 2020 K13 | 125 | 49 | 25 | 93° | 20 | 20 | 0,410 | VN_1304_ | DLM 3V | DLS 5 | MSV 2.522 | SC 4-SH | DSP 5 | LW 4 |
| TVJNR 2525 M13 | 150 | 49 | 32 | 93° | 25 | 25 | 0,715 | VN_1304_ | DLM 3V | DLS 5 | MSV 2.522 | SC 4-SH | DSP 5 | LW 4 |
| TVJNR 2020 K16 | 125 | 49 | 25 | 93° | 20 | 20 | 0,410 | VN_1604_ | DLM 3V | DLS 5 | TSV 33 | SO 35080I | DSP 5 | LW 4 |
| TVJNR 2525 M16 | 150 | 49 | 32 | 93° | 25 | 25 | 0,715 | VN_1604_ | DLM 3V | DLS 5 | TSV 33 | SO 35080I | DSP 5 | LW 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

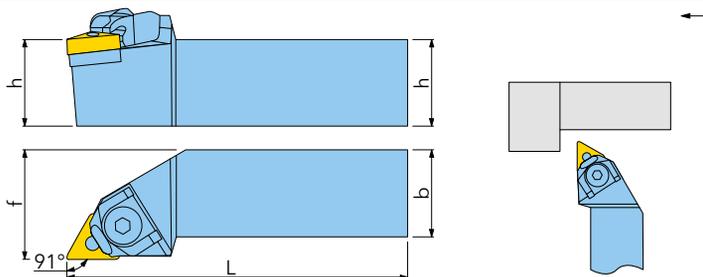
EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_ NÉGATIVES 60°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|------|----|----|----|-------|----------|-------|-------|-------|--------|--------|---------|
| WTENN 2020 K16 | 125 | 10,0 | 60 | 20 | 20 | 0,370 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTENN 2525 M16 | 150 | 12,5 | 60 | 25 | 25 | 0,680 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTENN 2525 M22 | 150 | 12,5 | 60 | 25 | 25 | 0,680 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTENN 3232 P22 | 170 | 16,0 | 60 | 32 | 32 | 1,240 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Shim / Assise de protection ⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

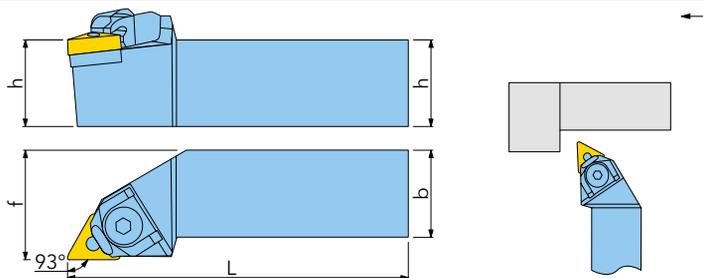
EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_ NÉGATIVES 60°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|-------|--------|--------|---------|
| WTGNL 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,385 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTGNL 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,695 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTGNL 3232 P22 | 170 | 40 | 90° | 32 | 32 | 1,275 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTGNR 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,385 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTGNR 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,695 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTGNR 2525 M22 | 150 | 32 | 90° | 25 | 25 | 0,695 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTGNR 3232 P22 | 170 | 40 | 90° | 32 | 32 | 1,275 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Shim / Assise de protection
⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

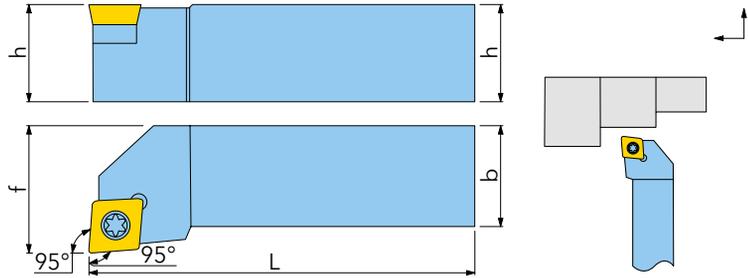
EXTERNAL TOOL HOLDER WITH WEDGE-TYPE CLAMPING SYSTEM, FOR NEGATIVE 60° TN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR BRIDE, POUR PLAQUETTES TN_ NÉGATIVES 60°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-------|-------|-------|--------|--------|---------|
| WTJNL 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,385 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNL 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,695 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNL 2525 M22 | 150 | 32 | 93° | 25 | 25 | 0,720 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTJNL 3232 P22 | 170 | 40 | 93° | 32 | 32 | 1,280 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTJNR 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,385 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNR 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,695 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNR 3225 P16 | 170 | 32 | 93° | 32 | 25 | 1,260 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNR 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,260 | TN_1604_ | WC 33 | WCS 4 | WSR 4 | WST 33 | WSS 33 | WS-0060 |
| WTJNR 2525 M22 | 150 | 32 | 93° | 25 | 25 | 0,725 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |
| WTJNR 3232 P22 | 170 | 40 | 93° | 32 | 32 | 1,280 | TN_2204_ | WC 43 | WCS 4 | WSR 4 | WST 43 | WSS 43 | WS-0060 |

① = Wedge clamp / Coin de serrage ② = Clamp screw / Vis de serrage ③ = Snap ring / Jonc d'arrêt ④ = Shim / Assise de protection
⑤ = Pin screw / Vis goupille ⑥ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° CC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES CC_ 80°, 7° DE DÉPOUILLE

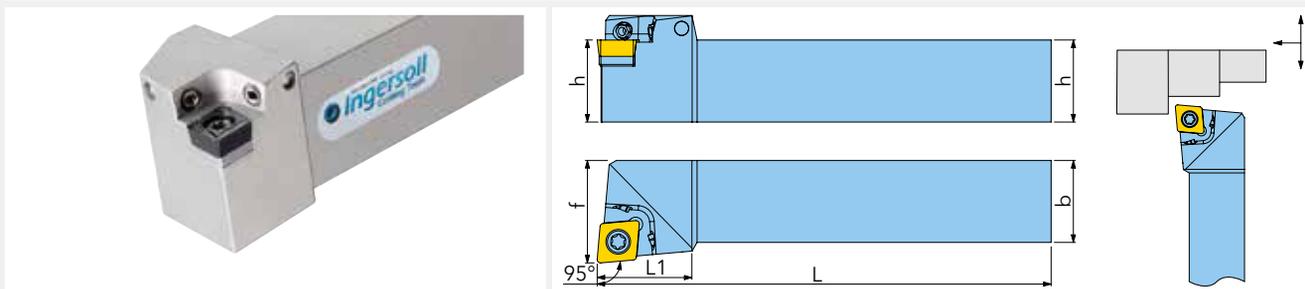


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|---------|-----------|-----|
| SCLCL 0808 F06 | 80 | 10 | 95° | 8 | 8 | 0,040 | CC_0602_ | SO 25065I | - | - | T7 |
| SCLCL 1010 F06 | 80 | 12 | 95° | 10 | 10 | 0,065 | CC_0602_ | SO 25065I | - | - | T7 |
| SCLCL 1212 F09 | 80 | 16 | 95° | 12 | 12 | 0,090 | CC_09T3_ | SO 35080I | - | - | T15 |
| SCLCL 1616 H09 | 100 | 20 | 95° | 16 | 16 | 0,195 | CC_09T3_ | SO 35124I | SSC 32 | SO 50090S | T15 |
| SCLCL 2020 K09 | 125 | 25 | 95° | 20 | 20 | 0,350 | CC_09T3_ | SO 35124I | SSC 32 | SO 50090S | T15 |
| SCLCL 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,385 | CC_1204_ | SO 45130I | SSC 43N | SO 60105S | T20 |
| SCLCL 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,720 | CC_1204_ | SO 45130I | SSC 43N | SO 60105S | T20 |
| SCLCR 0808 F06 | 80 | 10 | 95° | 8 | 8 | 0,040 | CC_0602_ | SO 25065I | - | - | T7 |
| SCLCR 1010 F06 | 80 | 12 | 95° | 10 | 10 | 0,060 | CC_0602_ | SO 25065I | - | - | T7 |
| SCLCR 1212 F09 | 80 | 16 | 95° | 12 | 12 | 0,090 | CC_09T3_ | SO 35080I | - | - | T15 |
| SCLCR 1616 H09 | 100 | 20 | 95° | 16 | 16 | 0,195 | CC_09T3_ | SO 35124I | SSC 32 | SO 50090S | T15 |
| SCLCR 2020 K09 | 125 | 25 | 95° | 20 | 20 | 0,385 | CC_09T3_ | SO 35124I | SSC 32 | SO 50090S | T15 |
| SCLCR 2525 M09 | 150 | 32 | 95° | 25 | 25 | 0,715 | CC_09T3_ | SO 35124I | SSC 32 | SO 50090S | T15 |
| SCLCR 2020 K12 | 125 | 25 | 95° | 20 | 20 | 0,385 | CC_1204_ | SO 45130I | SSC 43N | SO 60105S | T20 |
| SCLCR 2525 M12 | 150 | 32 | 95° | 25 | 25 | 0,720 | CC_1204_ | SO 45130I | SSC 43N | SO 60105S | T20 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage



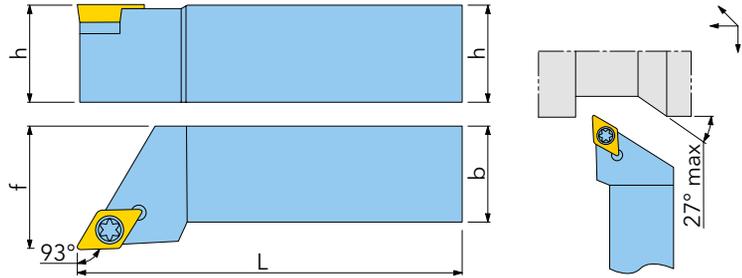
TOOL HOLDER WITH SCREW CLAMPING AND COOLANT, FOR POSITIVE 80° CC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS AVEC SERRAGE PAR VIS & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES POSITIVES CC_ 80°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | | | | |
|----------------------------------|------|------|----|-----|----|----|----|----------|-------------|---------|-----------|
| SCLCL 2020 F09-IHP | 83,5 | 24,5 | 25 | 95° | 20 | 20 | ✓ | CC_09T3_ | SM35-120-00 | SSC 32A | SO 50090A |
| SCLCL 2525 H09-IHP | 96 | 24,5 | 32 | 95° | 25 | 25 | ✓ | CC_09T3_ | SM35-120-00 | SSC 32A | SO 50090A |
| SCLCR 2020 F09-IHP | 83,5 | 24,5 | 25 | 95° | 20 | 20 | ✓ | CC_09T3_ | SM35-120-00 | SSC 32A | SO 50090A |
| SCLCR 2525 H09-IHP | 96 | 24,5 | 32 | 95° | 25 | 25 | ✓ | CC_09T3_ | SM35-120-00 | SSC 32A | SO 50090A |

① = Insert screw / Vis de serrage plaquette ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE

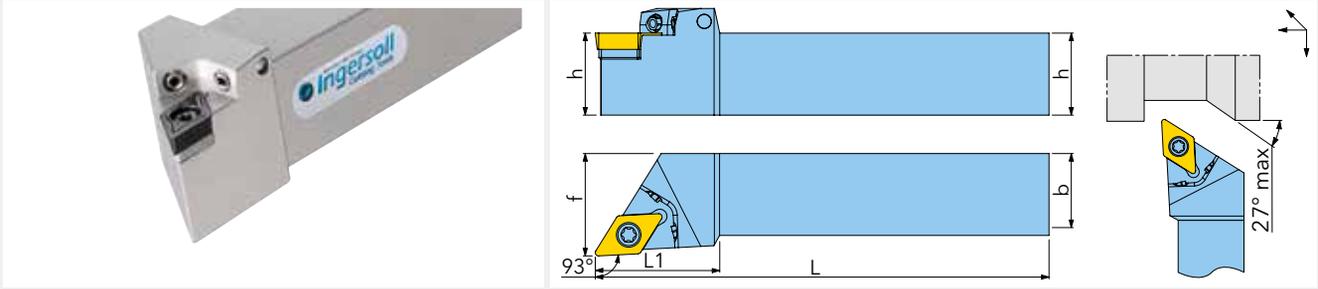


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| SDJCL 1212 F07 | 80 | 16 | 93° | 12 | 12 | 0,085 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCL 1616 H07 | 100 | 20 | 93° | 16 | 16 | 0,190 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCL 2020 K07 | 125 | 25 | 93° | 20 | 20 | 0,365 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCL 1616 H11 | 100 | 20 | 93° | 16 | 16 | 0,185 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| SDJCL 2020 K11 | 125 | 25 | 93° | 20 | 20 | 0,365 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| SDJCL 2525 M11 | 150 | 32 | 93° | 25 | 25 | 0,690 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| SDJCR 1212 F07 | 80 | 16 | 93° | 12 | 12 | 0,085 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCR 1616 H07 | 100 | 20 | 93° | 16 | 16 | 0,190 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCR 2020 K07 | 125 | 25 | 93° | 20 | 20 | 0,370 | DC_0702_ | SO 25065I | - | - | T7 |
| SDJCR 1616 H11 | 100 | 20 | 93° | 16 | 16 | 0,185 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| SDJCR 2020 K11 | 125 | 25 | 93° | 20 | 20 | 0,365 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| SDJCR 2525 M11 | 150 | 32 | 93° | 25 | 25 | 0,690 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage



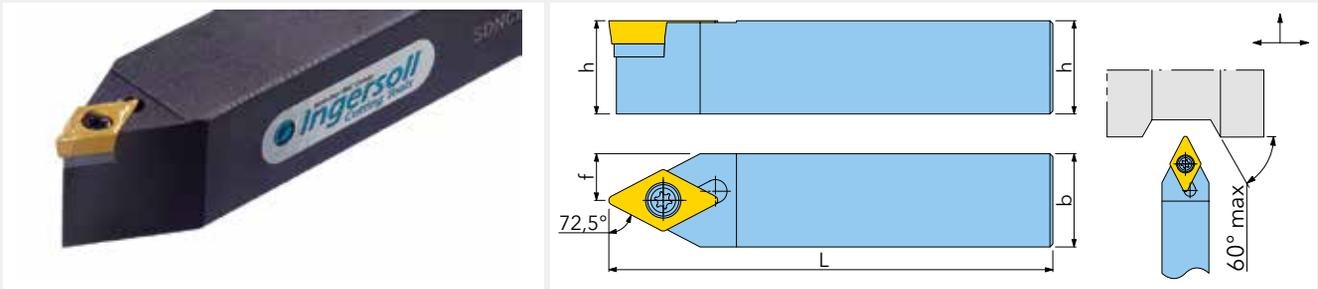
TOOL HOLDER WITH SCREW CLAMPING AND COOLANT, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS AVEC SERRAGE PAR VIS & ARROSAGE HAUTE PRESSION, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | | | | |
|----------------------------------|------|------|----|-----|----|----|----|----------|-------------|---------|-----------|
| SDJCL 2020 G11-IHP | 89,5 | 30,5 | 25 | 93° | 20 | 20 | ✓ | DC_11T3_ | SM35-120-00 | SSD 32A | SO 50090A |
| SDJCL 2525 H11-IHP | 102 | 30,5 | 32 | 93° | 25 | 25 | ✓ | DC_11T3_ | SM35-120-00 | SSD 32A | SO 50090A |
| SDJCR 2020 G11-IHP | 89,5 | 30,5 | 25 | 93° | 20 | 20 | ✓ | DC_11T3_ | SM35-120-00 | SSD 32A | SO 50090A |
| SDJCR 2525 H11-IHP | 102 | 30,5 | 32 | 93° | 25 | 25 | ✓ | DC_11T3_ | SM35-120-00 | SSD 32A | SO 50090A |

① = Insert screw / Vis de serrage plaquette ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|------|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| SDNCN 0808 F07 | 80 | 4 | 63° | 8 | 8 | 0,035 | DC_0702_ | SO 250651 | - | - | T15 |
| SDNCN 1616 H11 | 100 | 8 | 63° | 16 | 16 | 0,175 | DC_11T3_ | SO 350801 | SSD 32 | SO 50090S | T15 |
| SDNCN 2525 M11 | 150 | 12,5 | 63° | 25 | 25 | 0,660 | DC_11T3_ | SO 350801 | SSD 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

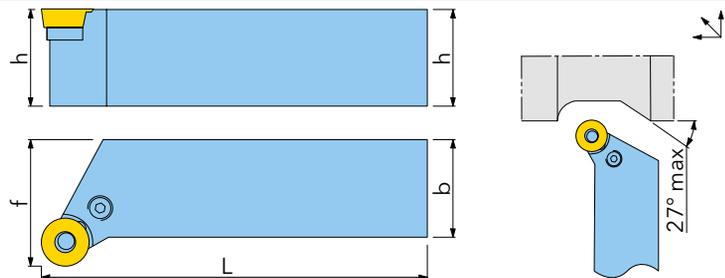
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE RC_ ROUND INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES RC_ RONDES POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | l1 | f | κ | h | b | kg |  |  |  |
|----------------------------------|-----|------|------|-----|----|----|-------|---|---|---|
| SRDCN 2020 K10 | 125 | 22,5 | 10 | 45° | 20 | 20 | 0,340 | RC_I_10T3_ | TS 400971 | T15 |
| SRDCN 2525 M10 | 150 | 27,5 | 12,5 | 45° | 25 | 25 | 0,625 | RC_I_10T3_ | TS 400971 | T15 |
| SRDCN 2525 M12 | 150 | 27,5 | 12,5 | 45° | 25 | 25 | 0,635 | RC_I_1204_ | SO 400501 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

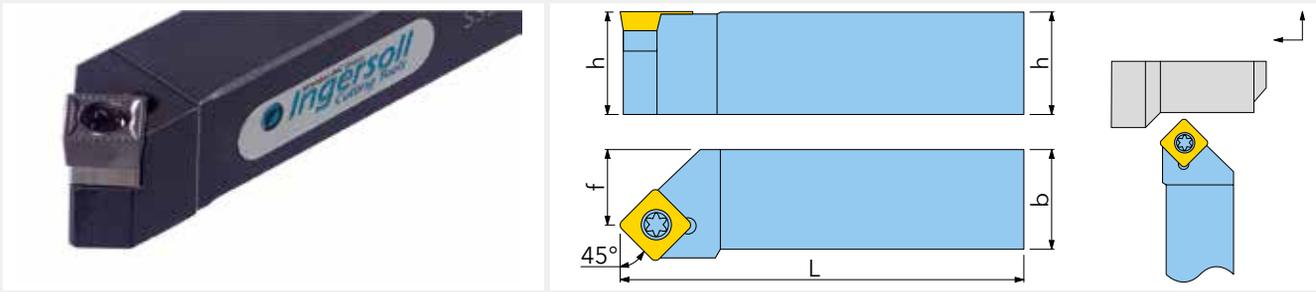
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE RC_ ROUND INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES RC_ RONDES POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg |  |  |  |
|----------------------------------|-----|----|-----|----|----|-------|---|---|---|
| SRGCL 2525 M10 | 150 | 32 | 90° | 25 | 25 | 0,700 | RC_I_10T3_ | TS 400971 | T15 |
| SRGCR 2020 K10 | 125 | 25 | 90° | 20 | 20 | 0,380 | RC_I_10T3_ | TS 400971 | T15 |
| SRGCR 2525 M10 | 150 | 32 | 90° | 25 | 25 | 0,700 | RC_I_10T3_ | TS 400971 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

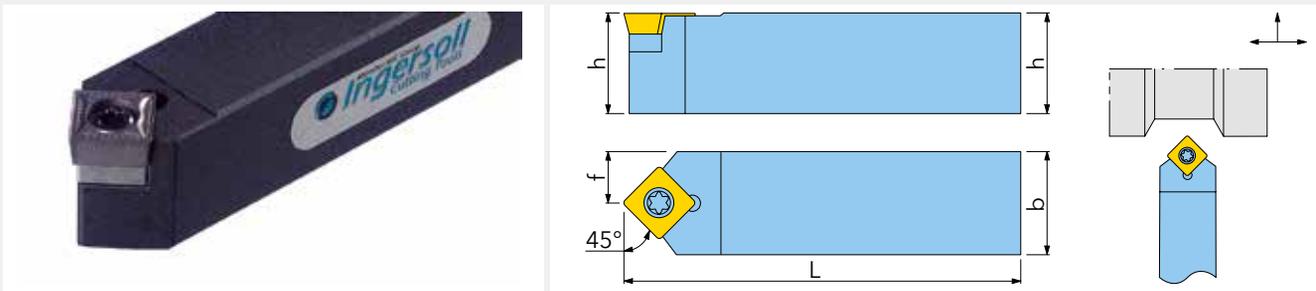
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 90° SC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES SC_ POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|---------|-----------|-----|
| SSSCL 1616 H09 | 100 | 17 | 45° | 16 | 16 | 0,185 | SC_09T3_ | SO 35124I | SSS 32 | SO 50090I | T15 |
| SSSCL 2020 K12 | 125 | 22 | 45° | 20 | 20 | 0,365 | SC_1204_ | SO 45130I | SSS 43N | SO 60105S | T20 |
| SSSCL 2525 M12 | 150 | 27 | 45° | 25 | 25 | 0,685 | SC_1204_ | SO 45130I | SSS 43N | SO 60105S | T20 |
| SSSCR 1212 F09 | 80 | 14 | 45° | 12 | 12 | 0,085 | SC_09T3_ | SO 35080I | - | - | T15 |
| SSSCR 1616 H09 | 100 | 17 | 45° | 16 | 16 | 0,185 | SC_09T3_ | SO 35124I | SSS 32 | SO 50090I | T15 |
| SSSCR 2020 K12 | 125 | 22 | 45° | 20 | 20 | 0,365 | SC_1204_ | SO 45130I | SSS 43N | SO 60105S | T20 |
| SSSCR 2525 M12 | 150 | 27 | 45° | 25 | 25 | 0,685 | SC_1204_ | SO 45130I | SSS 43N | SO 60105S | T20 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

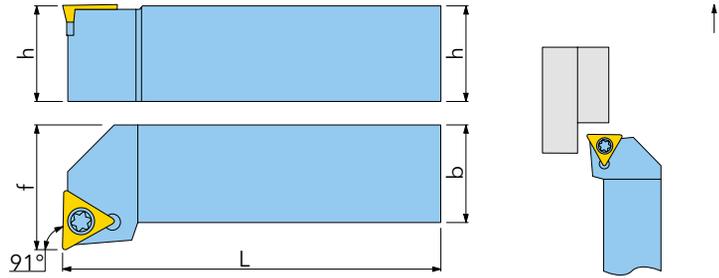
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 90° SC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES SC_ POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|---|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| SSDCN 1212 F09 | 80 | 6 | 45° | 12 | 12 | 0,085 | SC_09T3_ | SO 35080I | - | - | T15 |
| SSDCN 1616 H09 | 100 | 8 | 45° | 16 | 16 | 0,185 | SC_09T3_ | SO 35124I | SSS 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

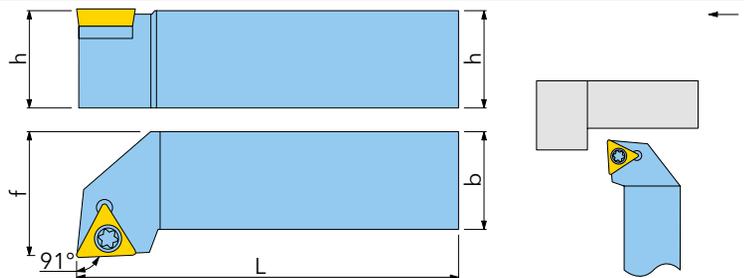
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES TC_ POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | ① | ② | ③ | ④ |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| STFCL 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TC_1102_ | SO 25065I | - | - | T7 |
| STFCL 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,385 | TC_16T3_ | SO 35124I | SST 32 | SO 50090I | T15 |
| STFCL 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,725 | TC_16T3_ | SO 35124I | SST 32 | SO 50090I | T15 |
| STFCR 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TC_1102_ | SO 25065I | - | - | T7 |
| STFCR 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,385 | TC_16T3_ | SO 35124I | SST 32 | SO 50090I | T15 |
| STFCR 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,725 | TC_16T3_ | SO 35124I | SST 32 | SO 50090I | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

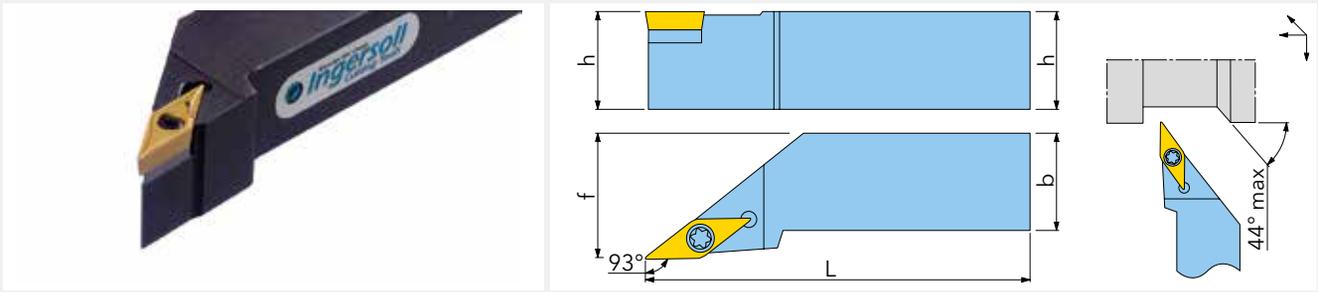
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES TC_ POSITIVES, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | ① | ② | ③ | ④ |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| STGCL 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TC_1102_ | SO 25065I | - | - | T7 |
| STGCL 1616 H11 | 100 | 20 | 90° | 16 | 16 | 0,195 | TC_1102_ | SO 25065I | - | - | T7 |
| STGCL 1616 H16 | 100 | 20 | 90° | 16 | 16 | 0,195 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| STGCL 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,380 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| STGCL 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,715 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| STGCR 1212 F11 | 80 | 16 | 90° | 12 | 12 | 0,090 | TC_1102_ | SO 25065I | - | - | T7 |
| STGCR 1616 H11 | 100 | 20 | 90° | 16 | 16 | 0,195 | TC_1102_ | SO 25065I | - | - | T7 |
| STGCR 1616 H16 | 100 | 20 | 90° | 16 | 16 | 0,195 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| STGCR 2020 K16 | 125 | 25 | 90° | 20 | 20 | 0,385 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| STGCR 2525 M16 | 150 | 32 | 90° | 25 | 25 | 0,725 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

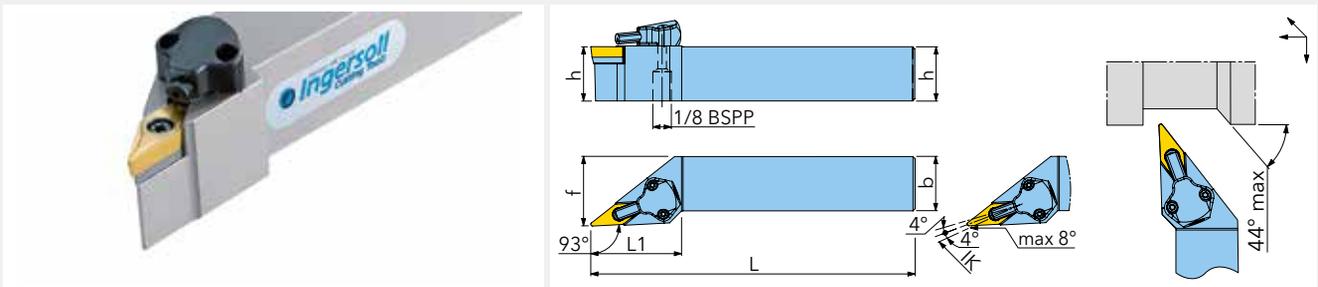
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|--------|-------------|-----|
| SVJBL 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,340 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBL 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,645 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBL 3225 P16 | 170 | 32 | 93° | 32 | 25 | 0,940 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBL 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,165 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBR 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,345 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBR 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,640 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBR 3225 P16 | 170 | 32 | 93° | 32 | 25 | 0,945 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |
| SVJBR 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,165 | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING AND COOLANT, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTIL EXTERIEUR AVEC SERRAGE PAR VIS ET ARROSAGE HAUTE PRESSION, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE

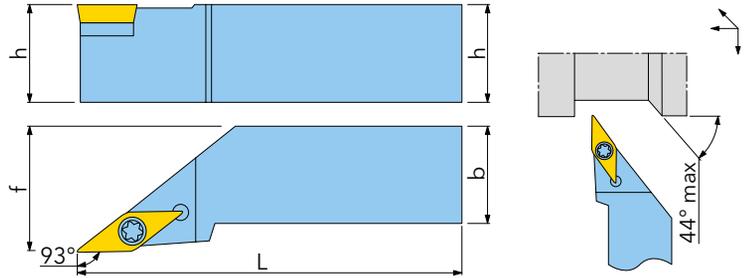


| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | |
|----------------------------------|-----|----|----|-----|----|----|-------|---|
| SVJBL 2525 M16-TB | 150 | 37 | 32 | 93° | 25 | 25 | 0,660 | ✓ |
| SVJBR 2525 M16-TB | 150 | 37 | 32 | 93° | 25 | 25 | 0,660 | ✓ |

| Designation Réf. de l'article | | | | | | | |
|----------------------------------|----------|-----------|--------|-------------|-----|--------|------------|
| SVJBL 2525 M16-TB | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 | CU-VTB | ID 6.4x0.9 |
| SVJBR 2525 M16-TB | VB_1604_ | SO 35124I | SSV 32 | TS 5035062S | T15 | CU-VTB | ID 6.4x0.9 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage
⑤ = Coolant unit / Buse d'arrosage ⑥ = O-Ring / Joint

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|--------|-----------|-----|
| SVJCL 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,345 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVJCL 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,645 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVJCL 3225 P16 | 170 | 32 | 93° | 32 | 25 | 0,950 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVJCL 3232 P16 | 170 | 40 | 93° | 32 | 32 | 1,190 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVJCR 2020 K16 | 125 | 25 | 93° | 20 | 20 | 0,345 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVJCR 2525 M16 | 150 | 32 | 93° | 25 | 25 | 0,640 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

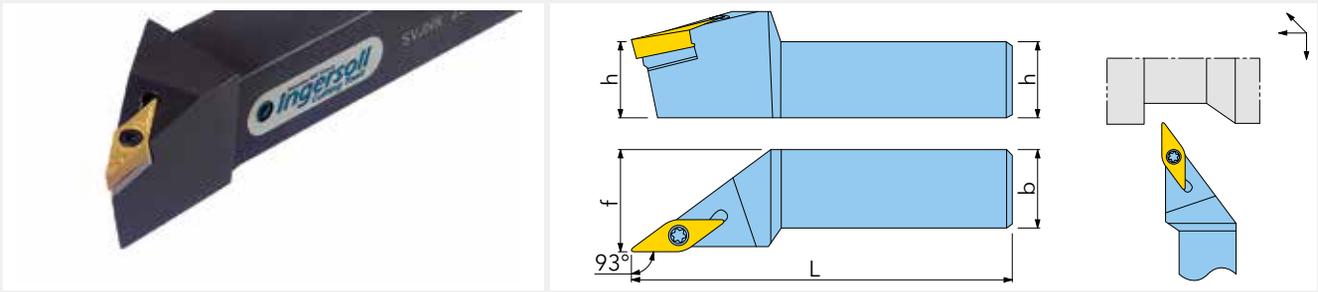
TOOL HOLDER WITH SCREW CLAMPING AND COOLANT, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS AVEC SERRAGE PAR VIS ET ARROSAGE HAUTE PRESSION, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | L | L1 | f | κ | h | b | IK | | | | |
|----------------------------------|-------|----|----|-----|----|----|----|---------|-------------|---------|-----------|
| SVJCL 2020 G11-IHP | 94 | 35 | 25 | 93° | 20 | 20 | ✓ | VC_1103 | SM25-064-00 | - | - |
| SVJCL 2020 H16-IHP | 99 | 40 | 25 | 93° | 20 | 20 | ✓ | VC_1604 | SM35-120-00 | SSV 32A | SO 50090A |
| SVJCL 2525 J11-IHP | 106,5 | 35 | 32 | 93° | 25 | 25 | ✓ | VC_1103 | SM25-064-00 | - | - |
| SVJCL 2525 J16-IHP | 111,5 | 40 | 32 | 93° | 25 | 25 | ✓ | VC_1604 | SM35-120-00 | SSV 32A | SO 50090A |
| SVJCR 2020 G11-IHP | 94 | 35 | 25 | 93° | 20 | 20 | ✓ | VC_1103 | SM25-064-00 | - | - |
| SVJCR 2020 H16-IHP | 99 | 40 | 25 | 93° | 20 | 20 | ✓ | VC_1604 | SM35-120-00 | SSV 32A | SO 50090A |
| SVJCR 2525 J11-IHP | 106,5 | 35 | 32 | 93° | 25 | 25 | ✓ | VC_1103 | SM25-064-00 | - | - |
| SVJCR 2525 J16-IHP | 111,5 | 40 | 32 | 93° | 25 | 25 | ✓ | VC_1604 | SM35-120-00 | SSV 32A | SO 50090A |

① = Insert screw / Vis de serrage plaquette ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage

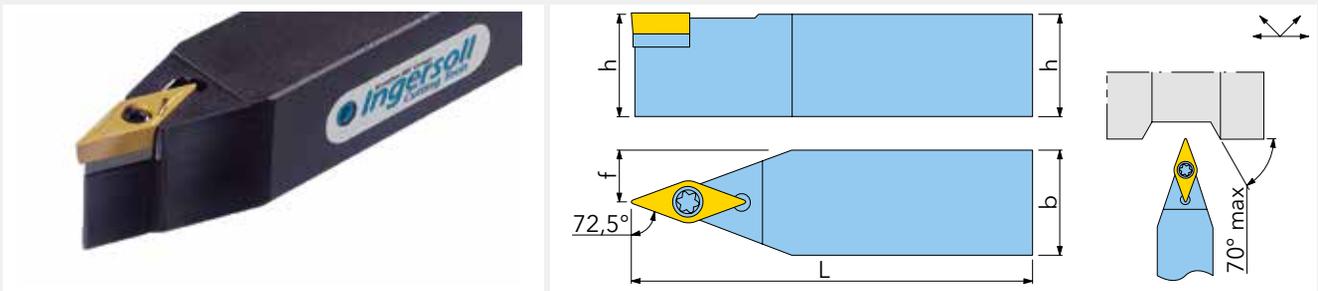
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 35° VN_ INSERTS
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VN_ NÉGATIVES 35°



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|----|-----|----|----|-------|----------|-----------|------------|-------------|-----|
| SVJNL 1616 H13 | 100 | 20 | 93° | 16 | 16 | 0,180 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |
| SVJNL 2020 K13 | 125 | 25 | 93° | 20 | 20 | 0,350 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |
| SVJNL 2525 M13 | 150 | 32 | 93° | 25 | 25 | 0,655 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |
| SVJNR 1616 H13 | 100 | 20 | 93° | 16 | 16 | 0,180 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |
| SVJNR 2020 K13 | 125 | 25 | 93° | 20 | 20 | 0,350 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |
| SVJNR 2525 M13 | 150 | 32 | 93° | 25 | 25 | 0,655 | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

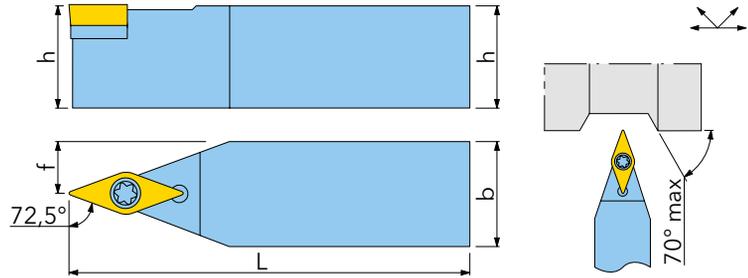
EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|------|-------|----|----|-------|----------|-----------|--------|-----------|-----|
| SVVBN 2020 K16 | 125 | 10,0 | 72,5° | 20 | 20 | 0,335 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVVBN 2525 M16 | 150 | 12,5 | 72,5° | 25 | 25 | 0,635 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVVBN 3225 P16 | 170 | 12,5 | 72,5° | 32 | 25 | 0,935 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
PORTE-OUTILS DE TOURNAGE EXTERNE SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE

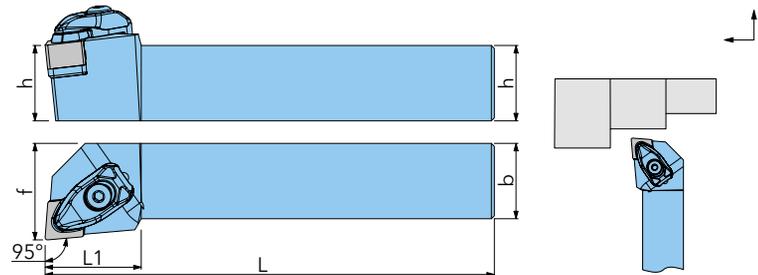


| Designation Réf. de l'article | L | f | κ | h | b | kg | | | | | |
|----------------------------------|-----|------|-------|----|----|-------|----------|-----------|--------|-----------|-----|
| SVVCN 2020 K16 | 125 | 10,0 | 72,5° | 20 | 20 | 0,335 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVVCN 2525 M16 | 150 | 12,5 | 72,5° | 25 | 25 | 0,630 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| SVVCN 3225 P16 | 170 | 12,5 | 72,5° | 32 | 25 | 0,935 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

COMBI CLAMP TCLNR/L-F
TCLNR/L-F

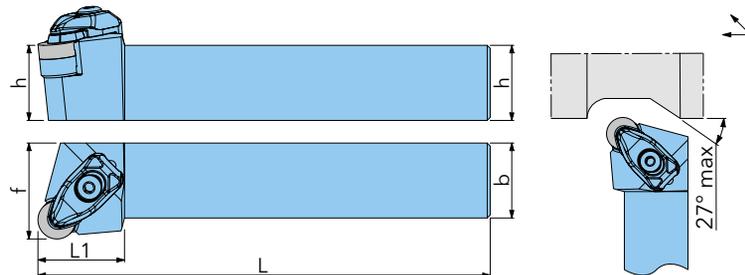
COMBI CLAMP, T-HOLDER FOR 80° CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE RHOMBIQUE 80°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|---------|-------|--------|-----------|-------|---------|
| TCLNL 2020 K1204-F | 125 | 32 | 25 | 95° | 20 | 20 | 0,415 | CN_N 1204_ | DCLS-4F | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 2525 M1204-F | 150 | 32 | 32 | 95° | 25 | 25 | 0,760 | CN_N 1204_ | DCLS-4F | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNL 2525 M1207-F | 150 | 32 | 32 | 95° | 25 | 25 | 0,750 | CN_N 1207_ | DCLS-4F | DLS 4 | TSC 42 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2020 K1204-F | 125 | 32 | 25 | 95° | 20 | 20 | 0,415 | CN_N 1204_ | DCLS-4F | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2020 K1207-F | 125 | 32 | 25 | 95° | 20 | 20 | 0,405 | CN_N 1207_ | DCLS-4F | DLS 4 | TSC 42 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2525 M1204-F | 150 | 32 | 32 | 95° | 25 | 25 | 0,755 | CN_N 1204_ | DCLS-4F | DLS 4 | TSC 44 | SO 40050I | DSP 4 | WS-0060 |
| TCLNR 2525 M1207-F | 150 | 32 | 32 | 95° | 25 | 25 | 0,745 | CN_N 1207_ | DCLS-4F | DLS 4 | TSC 42 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

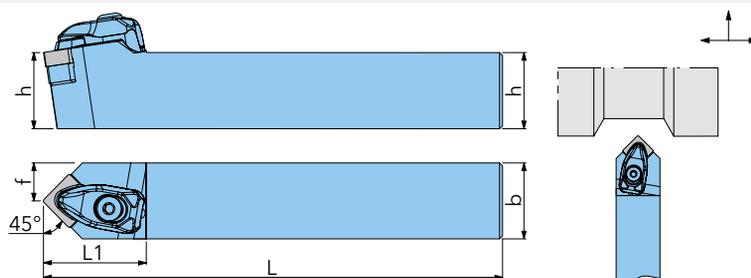
COMBI CLAMP, T-HOLDER FOR ROUND CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE RONDES



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|---------|-------|---------|--------------|-------|---------|
| TRGNL 2020 K1204-F | 125 | 29 | 25 | 90° | 20 | 20 | 0,410 | RN_N 1204_ | DCLS-4F | DLS 4 | S 43-T8 | BH M5X0.8X10 | DSP 4 | WS-0060 |
| TRGNL 2525 M1204-F | 150 | 29 | 32 | 90° | 25 | 25 | 0,750 | RN_N 1204_ | DCLS-4F | DLS 4 | S 43-T8 | BH M5X0.8X10 | DSP 4 | WS-0060 |
| TRGNL 2525 M1207-F | 150 | 29 | 32 | 90° | 25 | 25 | 0,745 | RN_N 1207_ | DCLS-4F | DLS 4 | S 43 | BH M5X0.8X8 | DSP 4 | WS-0060 |
| TRGNL 3225 P1207-F | 170 | 29 | 32 | 90° | 32 | 25 | 1,065 | RN_N 1207_ | DCLS-4F | DLS 4 | S 43 | BH M5X0.8X8 | DSP 4 | WS-0060 |
| TRGNR 2020 K1204-F | 125 | 29 | 25 | 90° | 20 | 20 | 0,410 | RN_N 1204_ | DCLS-4F | DLS 4 | S 43-T8 | BH M5X0.8X10 | DSP 4 | WS-0060 |
| TRGNR 2020 K1207-F | 125 | 29 | 25 | 90° | 20 | 20 | 0,405 | RN_N 1207_ | DCLS-4F | DLS 4 | S 43 | BH M5X0.8X8 | DSP 4 | WS-0060 |
| TRGNR 2525 M1204-F | 150 | 29 | 32 | 90° | 25 | 25 | 0,745 | RN_N 1204_ | DCLS-4F | DLS 4 | S 43-T8 | BH M5X0.8X10 | DSP 4 | WS-0060 |
| TRGNR 2525 M1207-F | 150 | 29 | 32 | 90° | 25 | 25 | 0,740 | RN_N 1207_ | DCLS-4F | DLS 4 | S 43 | BH M5X0.8X8 | DSP 4 | WS-0060 |
| TRGNR 3225 P1207-F | 170 | 29 | 32 | 90° | 32 | 25 | 1,065 | RN_N 1207_ | DCLS-4F | DLS 4 | S 43 | BH M5X0.8X8 | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

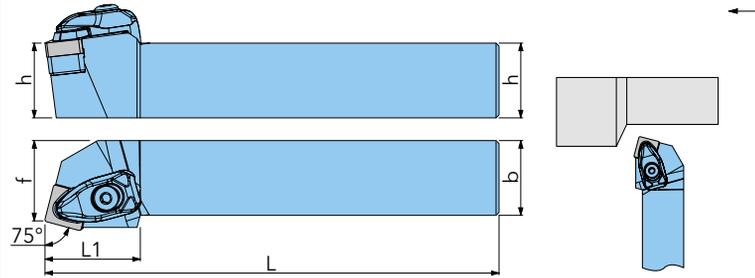
COMBI CLAMP, FOR NEGATIVE 90° CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE RHOMBIQUES 90°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|------|-----|----|----|-------|------------|---------|-------|--------|-----------|-------|---------|
| TSDNN 2020 K1204-F | 125 | 34 | 10 | 45° | 20 | 20 | 0,390 | SN_N_1204_ | DCLS-4F | DLS 4 | TSS 44 | SO 400501 | DSP 4 | WS-0060 |
| TSDNN 2525 M1204-F | 150 | 34 | 12,5 | 45° | 25 | 25 | 0,715 | SN_N_1204_ | DCLS-4F | DLS 4 | TSS 44 | SO 400501 | DSP 4 | WS-0060 |
| TSDNN 2525 M1207-F | 150 | 34 | 12,5 | 45° | 25 | 25 | 0,705 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 400501 | DSP 4 | WS-0060 |
| TSDNN 3225 P1207-F | 170 | 34 | 12,5 | 45° | 32 | 25 | 1,020 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 400501 | DSP 4 | WS-0060 |
| TSDNN 3232 P1207-F | 170 | 34 | 16 | 45° | 32 | 32 | 1,290 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 400501 | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

COMBI CLAMP, FOR NEGATIVE 90° CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE RHOMBIQUE 90°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|---------|-------|--------|-----------|-------|---------|
| TSRNL 2525 M1204-F | 150 | 32 | 27 | 75° | 25 | 25 | 0,740 | SN_N_1204_ | DCLS-4F | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |
| TSRNL 2525 M1207-F | 150 | 32 | 27 | 75° | 25 | 25 | 0,735 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 40050I | DSP 4 | WS-0060 |
| TSRNL 3225 P1207-F | 170 | 32 | 27 | 75° | 32 | 25 | 1,055 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 40050I | DSP 4 | WS-0060 |
| TSRNR 2525 M1207-F | 150 | 32 | 27 | 75° | 25 | 25 | 0,735 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 40050I | DSP 4 | WS-0060 |
| TSRNR 3225 P1207-F | 170 | 32 | 27 | 75° | 32 | 25 | 1,055 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

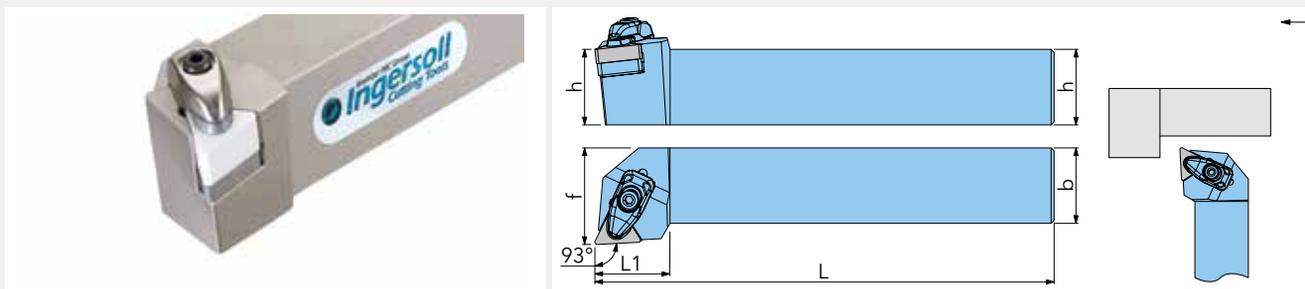
COMBI CLAMP, FOR NEGATIVE 90° CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE RHOMBIQUE 90°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|---------|-------|--------|-----------|-------|---------|
| TSSNR 2525 M1204-F | 150 | 35 | 32 | 45° | 25 | 25 | 0,725 | SN_N_1204_ | DCLS-4F | DLS 4 | TSS 44 | SO 40050I | DSP 4 | WS-0060 |
| TSSNR 2525 M1207-F | 150 | 35 | 32 | 45° | 25 | 25 | 0,720 | SN_N_1207_ | DCLS-4F | DLS 4 | TSS 42 | SO 40050I | DSP 4 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort ⑥ = Wrench / Clé de serrage

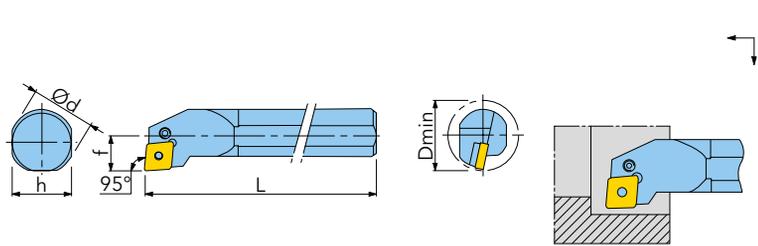
COMBI CLAMP, FOR NEGATIVE 60° CERAMIC INSERTS
PORTE-OUTIL COMBI CLAMP, POUR PLAQUETTES CÉRAMIQUE NÉGATIVES 60°



| Designation Réf. de l'article | L | L1 | f | κ | h | b | kg | | | | | | | |
|----------------------------------|-----|----|----|-----|----|----|-------|------------|----------|-------|--------|-----------|-------|---------|
| TTJNR 2020 K1604-F | 125 | 25 | 25 | 93° | 20 | 20 | 0,400 | TN_N 1604_ | DCL S-3F | DLS 3 | TST 33 | SO 40050I | DSP 3 | WS-0060 |
| TTJNR 2020 K1607-F | 125 | 25 | 25 | 93° | 20 | 20 | 0,400 | TN_N 1607_ | DCL S-3F | DLS 3 | TST 33 | SO 40050I | DSP 3 | WS-0060 |
| TTJNR 2525 M1604-F | 150 | 25 | 32 | 93° | 25 | 25 | 0,735 | TN_N 1604_ | DCL S-3F | DLS 3 | TST 33 | SO 40050I | DSP 3 | WS-0060 |
| TTJNR 2525 M1607-F | 150 | 25 | 32 | 93° | 25 | 25 | 0,730 | TN_N 1607_ | DCL S-3F | DLS 3 | TST 33 | SO 40050I | DSP 3 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEAGTIVE 80° CN_ INSERTS
BARRE D'ALÉSAGE À LEVIER, POUR PLAQUETTES CN_ NÉGATIVES 80°

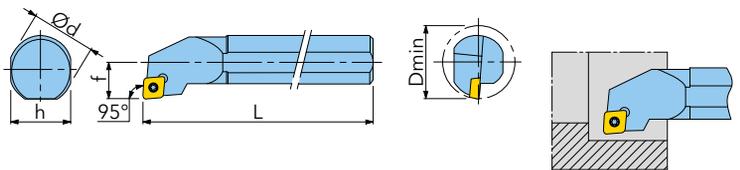


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | 80° | ① | ② | ③ | ④ | ⑤ | ⑥ |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-------|-------|-------|------|-------|---------|
| S25T PCLNL 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,055 | CN_1204_ | LCL4B | LCS4B | - | - | LSR4B | LW2.5 |
| S32T PCLNL 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,750 | CN_1204_ | LCL4 | LCS4S | LSC42 | LSP4 | - | WS-0060 |
| S40T PCLNL 12 | 50 | 40 | 300 | 27 | 95° | 37 | 2,690 | CN_1204_ | LCL4 | LCS4 | LSC42 | LSP4 | - | WS-0060 |
| S50U PCLNL 12 | 63 | 50 | 350 | 35 | 95° | 47 | 4,950 | CN_1204_ | LCL4 | LCS4 | LSC42 | LSP4 | - | WS-0060 |
| S50U PCLNL 16 | 63 | 50 | 350 | 35 | 95° | 47 | 4,925 | CN_1606_ | LCL5 | LCS5 | LSC53 | LSP5 | - | WS-0060 |
| S50U PCLNL 19 | 63 | 50 | 350 | 35 | 95° | 47 | 4,930 | CN_1906_ | LCL6 | LCS6 | LSC63 | LSP6 | - | LW4 |
| S25T PCLNR 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,055 | CN_1204_ | LCL4B | LCS4B | - | - | LSR4B | LW2.5 |
| S32T PCLNR 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,745 | CN_1204_ | LCL4 | LCS4S | LSC42 | LSP4 | - | WS-0060 |
| S40T PCLNR 12 | 50 | 40 | 300 | 27 | 95° | 37 | 2,675 | CN_1204_ | LCL4 | LCS4 | LSC42 | LSP4 | - | WS-0060 |
| S50U PCLNR 12 | 63 | 50 | 350 | 35 | 95° | 47 | 4,955 | CN_1204_ | LCL4 | LCS4 | LSC42 | LSP4 | - | WS-0060 |
| S50U PCLNR 16 | 63 | 50 | 350 | 35 | 95° | 47 | 4,930 | CN_1606_ | LCL5 | LCS5 | LSC53 | LSP5 | - | WS-0060 |
| S50U PCLNR 19 | 63 | 50 | 350 | 35 | 95° | 47 | 4,935 | CN_1906_ | LCL6 | LCS6 | LSC63 | LSP6 | - | LW4 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Snap ring / Circlip
⑥ = Wrench / Clé de serrage



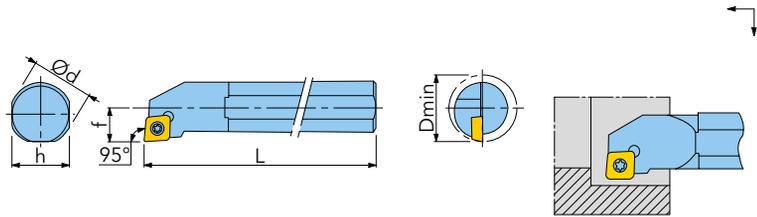
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° CC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES CC_ POSITIVES 80°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|---------|-----------|-----|
| S08K SCLCL 06 | 11 | 8 | 125 | 6 | 95° | 7 | 0,045 | CC_0602_ | SO 220501 | - | - | T7 |
| S10K SCLCL 06 | 13 | 10 | 125 | 7 | 95° | 9 | 0,070 | CC_0602_ | SO 220501 | - | - | T7 |
| S12M SCLCL 06 | 16 | 12 | 150 | 9 | 95° | 11 | 0,125 | CC_0602_ | SO 250651 | - | - | T7 |
| S16R SCLCL 06 | 20 | 16 | 200 | 11 | 95° | 15 | 0,300 | CC_0602_ | SO 250651 | - | - | T7 |
| S12M SCLCL 09 | 16 | 12 | 150 | 9 | 95° | 11 | 0,125 | CC_09T3_ | SO 350801 | - | - | T15 |
| S16R SCLCL 09 | 20 | 16 | 200 | 11 | 95° | 15 | 0,295 | CC_09T3_ | SO 350801 | - | - | T15 |
| S20S SCLCL 09 | 25 | 20 | 250 | 13 | 95° | 18 | 0,565 | CC_09T3_ | SO 350801 | - | - | T15 |
| S25T SCLCL 09 | 32 | 25 | 300 | 17 | 95° | 23 | 1,050 | CC_09T3_ | SO 350801 | - | - | T15 |
| S25T SCLCL 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,045 | CC_1204_ | SO 451001 | - | - | T20 |
| S32T SCLCL 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,740 | CC_1204_ | SO 451301 | SSC 43N | SO 60105S | T20 |
| S40T SCLCL 12 | 50 | 40 | 300 | 27 | 95° | 37 | 2,665 | CC_1204_ | SO 451301 | SSC 43N | SO 60105S | T20 |
| S08K SCLCR 06 | 11 | 8 | 125 | 6 | 95° | 7 | 0,045 | CC_0602_ | SO 220501 | - | - | T7 |
| S10K SCLCR 06 | 13 | 10 | 125 | 7 | 95° | 9 | 0,070 | CC_0602_ | SO 220501 | - | - | T7 |
| S12M SCLCR 06 | 16 | 12 | 150 | 9 | 95° | 11 | 0,125 | CC_0602_ | SO 250651 | - | - | T7 |
| S16R SCLCR 06 | 20 | 16 | 200 | 11 | 95° | 15 | 0,300 | CC_0602_ | SO 250651 | - | - | T7 |
| S12M SCLCR 09 | 16 | 12 | 150 | 9 | 95° | 11 | 0,125 | CC_09T3_ | SO 350801 | - | - | T15 |
| S16R SCLCR 09 | 20 | 16 | 200 | 11 | 95° | 15 | 0,295 | CC_09T3_ | SO 350801 | - | - | T15 |
| S20R SCLCR 09 | 25 | 20 | 200 | 13 | 95° | 18 | 0,450 | CC_09T3_ | SO 350801 | - | - | T15 |
| S20S SCLCR 09 | 25 | 20 | 250 | 13 | 95° | 18 | 0,565 | CC_09T3_ | SO 350801 | - | - | T15 |
| S25T SCLCR 09 | 32 | 25 | 300 | 17 | 95° | 23 | 1,050 | CC_09T3_ | SO 350801 | - | - | T15 |
| S25T SCLCR 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,045 | CC_1204_ | SO 451001 | - | - | T20 |
| S32T SCLCR 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,735 | CC_1204_ | SO 451301 | SSC 43N | SO 60105S | T20 |
| S40T SCLCR 12 | 50 | 40 | 300 | 27 | 95° | 37 | 2,665 | CC_1204_ | SO 451301 | SSC 43N | SO 60105S | T20 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

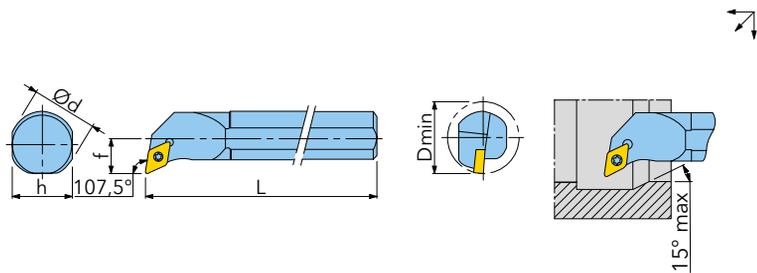
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° CP_ INSERTS - 11° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES CP_ POSITIVES 80° - 11° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|------|-----|----|-------|----------|-----------|-----|
| S10K SCLPR 08 | 12 | 10 | 125 | 6 | 95° | 9 | 0,070 | CP_0802_ | SO 301001 | T9 |
| S12M SCLPR 08 | 16 | 12 | 150 | 8 | 95° | 11 | 0,120 | CP_0802_ | SO 301001 | T9 |
| S16N SCLPR 09 | 20 | 16 | 160 | 10 | 95° | 15 | 0,230 | CP_0903_ | SO 350801 | T15 |
| S16R SCLPR 09 | 20 | 16 | 200 | 10 | 95° | 15 | 0,290 | CP_0903_ | SO 350801 | T15 |
| S20N SCLPR 09 | 25 | 20 | 160 | 12,5 | 95° | 18 | 0,350 | CP_0903_ | SO 350801 | T15 |
| S20S SCLPR 09 | 25 | 20 | 250 | 12,5 | 95° | 18 | 0,560 | CP_0903_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

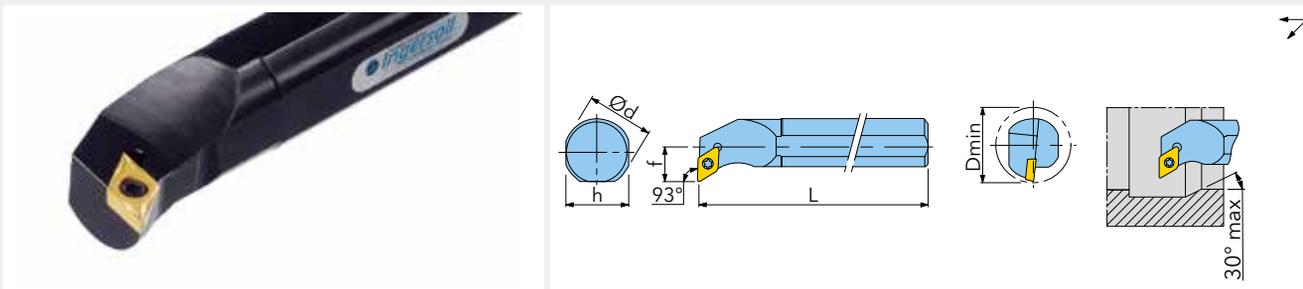
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES DC_ POSITIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|----|--------|----|-------|----------|-----------|-----|
| S10M SDQCL 07 | 13 | 10 | 125 | 7 | 107,5° | 9 | 0,085 | DC_0702_ | SO 220501 | T7 |
| S12M SDQCL 07 | 16 | 12 | 150 | 9 | 107,5° | 11 | 0,120 | DC_0702_ | SO 250651 | T7 |
| S16R SDQCL 07 | 20 | 16 | 200 | 11 | 107,5° | 15 | 0,290 | DC_0702_ | SO 250651 | T7 |
| S20S SDQCL 11 | 25 | 20 | 250 | 13 | 107,5° | 18 | 0,555 | DC_11T3_ | SO 350801 | T15 |
| S25T SDQCL 11 | 32 | 25 | 300 | 17 | 107,5° | 23 | 1,030 | DC_11T3_ | SO 350801 | T15 |
| S12M SDQCR 07 | 16 | 12 | 150 | 9 | 107,5° | 11 | 0,120 | DC_0702_ | SO 250651 | T7 |
| S16R SDQCR 07 | 20 | 16 | 200 | 11 | 107,5° | 15 | 0,290 | DC_0702_ | SO 250651 | T7 |
| S20S SDQCR 11 | 25 | 20 | 250 | 13 | 107,5° | 18 | 0,555 | DC_11T3_ | SO 350801 | T15 |
| S25T SDQCR 11 | 32 | 25 | 300 | 17 | 107,5° | 23 | 1,035 | DC_11T3_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

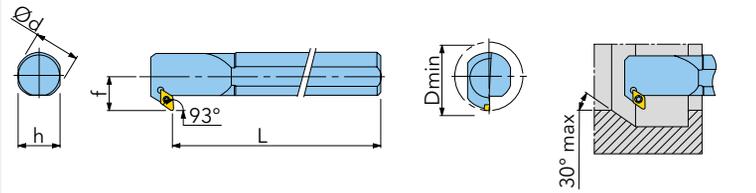
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES DC_ POSITIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|-----|
| S10K SDUCL 07 | 13 | 10 | 125 | 7 | 93° | 9 | 0,070 | DC_0702_ | SO 220501 | T7 |
| S12M SDUCL 07 | 16 | 12 | 150 | 9 | 93° | 11 | 0,120 | DC_0702_ | SO 250651 | T7 |
| S16R SDUCL 07 | 20 | 16 | 200 | 11 | 93° | 15 | 0,290 | DC_0702_ | SO 250651 | T7 |
| S16R SDUCL 11 | 20 | 16 | 200 | 11 | 93° | 15 | 0,290 | DC_11T3_ | SO 350801 | T15 |
| S20S SDUCL 11 | 25 | 20 | 250 | 13 | 93° | 18 | 0,565 | DC_11T3_ | SO 350801 | T15 |
| S25T SDUCL 11 | 32 | 25 | 300 | 17 | 93° | 23 | 1,040 | DC_11T3_ | SO 350801 | T15 |
| S32T SDUCL 11 | 40 | 32 | 300 | 22 | 93° | 30 | 1,735 | DC_11T3_ | SO 350801 | T15 |
| S10K SDUCR 07 | 13 | 10 | 125 | 7 | 93° | 9 | 0,070 | DC_0702_ | SO 220501 | T7 |
| S12M SDUCR 07 | 16 | 12 | 150 | 9 | 93° | 11 | 0,125 | DC_0702_ | SO 250651 | T7 |
| S16M SDUCR 07 | 20 | 16 | 150 | 11 | 93° | 15 | 0,215 | DC_0702_ | SO 250651 | T7 |
| S16R SDUCR 07 | 20 | 16 | 200 | 11 | 93° | 15 | 0,295 | DC_0702_ | SO 250651 | T7 |
| S16R SDUCR 11 | 20 | 16 | 200 | 11 | 93° | 15 | 0,290 | DC_11T3_ | SO 350801 | T15 |
| S20S SDUCR 11 | 25 | 20 | 250 | 13 | 93° | 18 | 0,560 | DC_11T3_ | SO 350801 | T15 |
| S25T SDUCR 11 | 32 | 25 | 300 | 17 | 93° | 23 | 1,045 | DC_11T3_ | SO 350801 | T15 |
| S32T SDUCR 11 | 40 | 32 | 300 | 22 | 93° | 30 | 1,735 | DC_11T3_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

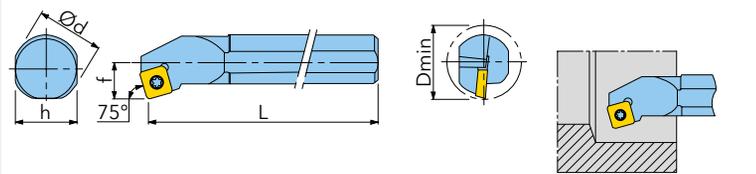
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 55° DC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES DC_ POSITIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|--------|-----------|-----|
| S16R SDZCL 07 | 22 | 16 | 200 | 13 | 93° | 15 | 0,300 | DC_0702_ | SO 25065I | - | - | T7 |
| S20S SDZCL 07 | 27 | 20 | 250 | 15 | 93° | 18 | 0,590 | DC_0702_ | SO 25065I | - | - | T7 |
| S25T SDZCL 07 | 33 | 25 | 300 | 18 | 93° | 23 | 1,095 | DC_0702_ | SO 25065I | - | - | T7 |
| S20S SDZCL 11 | 27 | 20 | 250 | 15 | 93° | 18 | 0,585 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| S32T SDZCL 11 | 40 | 32 | 300 | 22 | 93° | 30 | 1,845 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| S16R SDZCR 07 | 22 | 16 | 200 | 13 | 93° | 15 | 0,310 | DC_0702_ | SO 25065I | - | - | T7 |
| S20S SDZCR 07 | 27 | 20 | 250 | 15 | 93° | 18 | 0,590 | DC_0702_ | SO 25065I | - | - | T7 |
| S25T SDZCR 07 | 33 | 25 | 300 | 18 | 93° | 23 | 1,085 | DC_0702_ | SO 25065I | - | - | T7 |
| S20S SDZCR 11 | 27 | 20 | 250 | 15 | 93° | 18 | 0,600 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |
| S32T SDZCR 11 | 40 | 32 | 300 | 22 | 93° | 30 | 1,835 | DC_11T3_ | SO 35124I | SSD 32 | SO 50090S | T15 |

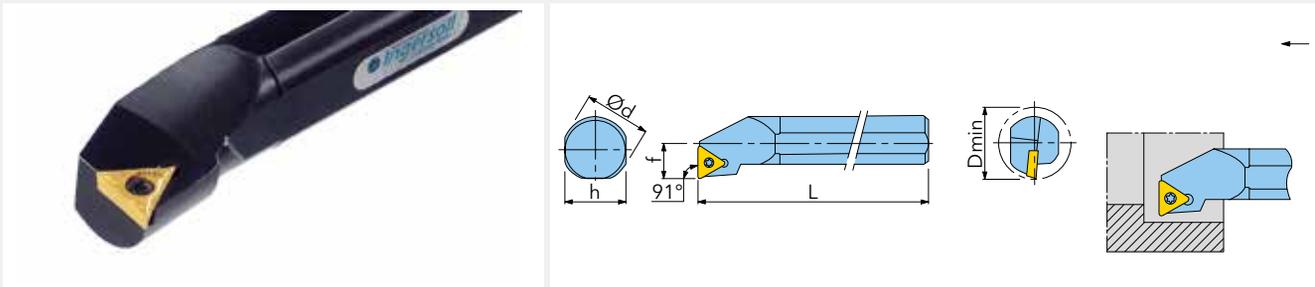
① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 90° SC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES SC_ POSITIVES 90°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|-----|
| S16R SSKCL 09 | 20 | 16 | 200 | 11 | 75° | 15 | 0,295 | SC_09T3_ | SO 35080I | T15 |
| S20S SSKCL 09 | 25 | 20 | 250 | 13 | 75° | 18 | 0,565 | SC_09T3_ | SO 35080I | T15 |
| S25T SSKCL 12 | 32 | 25 | 300 | 17 | 75° | 23 | 1,050 | SC_1204_ | SO 45100I | T20 |
| S16R SSKCR 09 | 20 | 16 | 200 | 11 | 75° | 15 | 0,295 | SC_09T3_ | SO 35080I | T15 |
| S20S SSKCR 09 | 25 | 20 | 250 | 13 | 75° | 18 | 0,575 | SC_09T3_ | SO 35080I | T15 |
| S25T SSKCR 12 | 32 | 25 | 300 | 17 | 75° | 23 | 1,050 | SC_1204_ | SO 45100I | T20 |

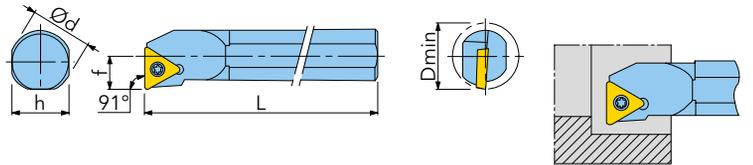
① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TC_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES TC_ POSITIVES 60°


| Designation Réf. de l'article | D | d | L | f | κ | h | kg |  |  |  |  |  |
|----------------------------------|----|----|-----|-----|-----|-----|-------|--|---|---|---|---|
| S06H STFCR 06T1 | 8 | 6 | 100 | 4,5 | 90° | 5,4 | 0,020 | TC_06T1_ | TS 20038I | - | - | T7 |
| S10K STFCR 09 | 13 | 10 | 125 | 7 | 90° | 9 | 0,070 | TC_0902_ | SO 22050I | - | - | T7 |
| S12M STFCR 11 | 16 | 12 | 150 | 9 | 90° | 11 | 0,120 | TC_1102_ | SO 25065I | - | - | T7 |
| S16R STFCR 11 | 20 | 16 | 200 | 11 | 90° | 15 | 0,295 | TC_1102_ | SO 25065I | - | - | T7 |
| S20S STFCR 11 | 25 | 20 | 250 | 13 | 90° | 18 | 0,565 | TC_1102_ | SO 25065I | - | - | T7 |
| S25T STFCR 16 | 32 | 25 | 300 | 17 | 90° | 23 | 1,045 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| S32T STFCR 16 | 40 | 32 | 300 | 22 | 90° | 30 | 1,750 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| S06H STFCR 06T1 | 8 | 6 | 100 | 4,5 | 90° | 5,4 | 0,020 | TC_06T1_ | TS 20038I | - | - | T7 |
| S08K STFCR 09 | 11 | 8 | 125 | 6 | 90° | 7 | 0,045 | TC_0902_ | SO 22050I | - | - | T7 |
| S10K STFCR 09 | 13 | 10 | 125 | 7 | 90° | 9 | 0,070 | TC_0902_ | SO 22050I | - | - | T7 |
| S12M STFCR 09 | 16 | 12 | 150 | 9 | 90° | 11 | 0,125 | TC_0902_ | SO 22050I | - | - | T7 |
| S12M STFCR 11 | 16 | 12 | 150 | 9 | 90° | 11 | 0,125 | TC_1102_ | SO 25065I | - | - | T7 |
| S16R STFCR 11 | 20 | 16 | 200 | 11 | 90° | 15 | 0,295 | TC_1102_ | SO 25065I | - | - | T7 |
| S20S STFCR 11 | 25 | 20 | 250 | 13 | 90° | 18 | 0,565 | TC_1102_ | SO 25065I | - | - | T7 |
| S20S STFCR 16 | 25 | 20 | 250 | 13 | 90° | 18 | 0,565 | TC_16T3_ | SO 35080I | - | - | T15 |
| S25T STFCR 16 | 32 | 25 | 300 | 17 | 90° | 23 | 1,050 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| S32T STFCR 16 | 40 | 32 | 300 | 22 | 90° | 30 | 1,750 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |
| S40T STFCR 16 | 50 | 40 | 300 | 27 | 90° | 37 | 2,670 | TC_16T3_ | SO 35124I | SST 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

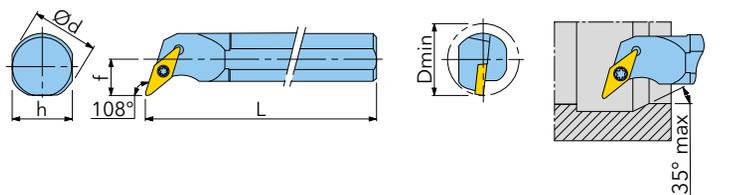
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TP_ INSERTS - 11° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES TP_ POSITIVES 60°, 11° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|------|-----|----|-------|----------|-----------|-----|
| S10K STFPL 11 | 12 | 10 | 125 | 6 | 90° | 9 | 0,070 | TP_1103_ | SO 300551 | T9 |
| S12M STFPL 11 | 16 | 12 | 150 | 8 | 90° | 11 | 0,115 | TP_1103_ | SO 301001 | T8 |
| S08K STFPR 09-X01 | 11 | 8 | 125 | 6 | 90° | 7 | 0,045 | TP_0902_ | SO 250611 | T8 |
| S08K STFPR 09 | 11 | 8 | 125 | 6 | 90° | 7 | 0,045 | TP_0902_ | SO 220501 | T7 |
| S10K STFPR 11 | 12 | 10 | 125 | 6 | 90° | 9 | 0,070 | TP_1103_ | SO 300551 | T9 |
| S12M STFPR 11 | 16 | 12 | 150 | 8 | 90° | 11 | 0,120 | TP_1103_ | SO 301001 | T8 |
| S16R STFPR 11 | 20 | 16 | 200 | 10 | 90° | 15 | 0,295 | TP_1103_ | SO 300401 | T9 |
| S16N STFPR 16 | 20 | 16 | 160 | 10 | 90° | 15 | 0,230 | TP_1604_ | SO 351241 | T15 |
| S20S STFPR 16 | 25 | 20 | 250 | 12,5 | 90° | 18 | 0,560 | TP_1604_ | SO 351241 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

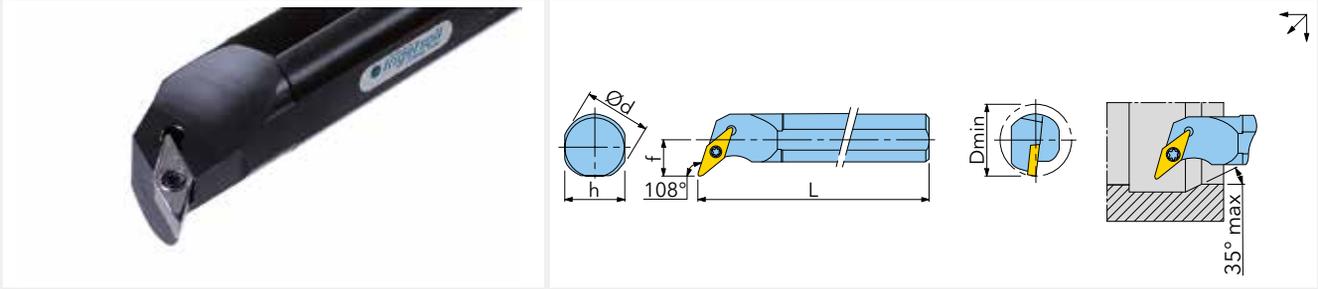
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°- 5° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|--------|----|-------|------------|-----------|--------|-----------|-----|
| S32T SVQBL 16 | 40 | 32 | 300 | 22 | 107,5° | 30 | 1,710 | VBMT_1604_ | SO 351241 | SSV 32 | SO 50090S | T15 |
| S40T SVQBL 16 | 50 | 40 | 300 | 27 | 107,5° | 37 | 2,635 | VBMT_1604_ | SO 351241 | SSV 32 | SO 50090S | T15 |
| S25T SVQBR 16 | 32 | 25 | 300 | 17 | 107,5° | 23 | 1,030 | VBMT_1604_ | SO 351241 | SSV 32 | SO 50090S | T15 |
| S32T SVQBR 16 | 40 | 32 | 300 | 22 | 107,5° | 30 | 1,705 | VBMT_1604_ | SO 351241 | SSV 32 | SO 50090S | T15 |
| S40T SVQBR 16 | 50 | 40 | 300 | 27 | 107,5° | 37 | 2,635 | VBMT_1604_ | SO 351241 | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

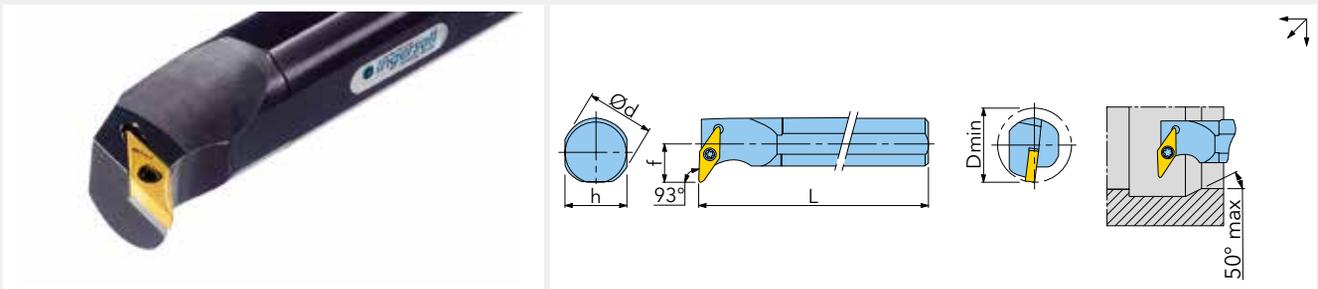
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°- 7° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|----------|----|-------|----------|-----------|--------|-----------|-----|
| S40T SVQCL 16 | 50 | 40 | 300 | 27 | 107,5° | 37 | 2,640 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S32T SVQCR 16 | 40 | 32 | 300 | 22 | 107,5° | 30 | 1,710 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S40T SVQCR 16 | 50 | 40 | 300 | 27 | 107,5° | 37 | 2,640 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

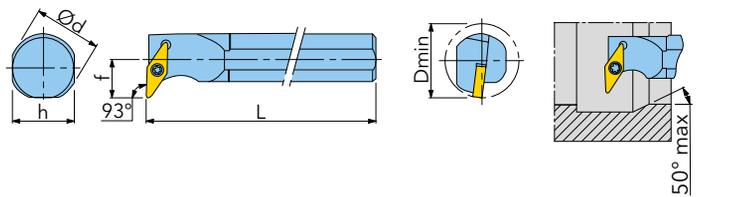
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES VB_ POSITIVES 35°- 5° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|----------|----|-------|----------|-----------|--------|-----------|-----|
| S32T SVUBL 16 | 40 | 32 | 300 | 22 | 93° | 30 | 1,715 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S40T SVUBL 16 | 50 | 40 | 300 | 27 | 93° | 37 | 2,660 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S32T SVUBR 16 | 40 | 32 | 300 | 22 | 93° | 30 | 1,715 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S40T SVUBR 16 | 50 | 40 | 300 | 27 | 93° | 37 | 2,661 | VB_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

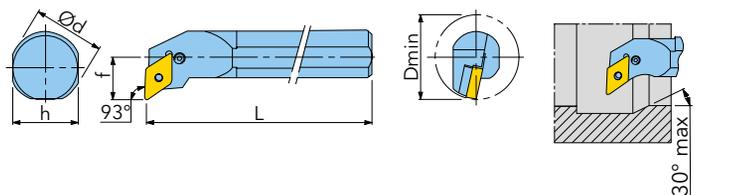
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 35° VC_ INSERTS - 7° CLEARANCE
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES VC_ POSITIVES 35°- 7° DE DÉPOUILLE



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|--------|-----------|-----|
| S32T SVUCL 16 | 40 | 32 | 300 | 22 | 93° | 30 | 1,725 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S40T SVUCL 16 | 50 | 40 | 300 | 27 | 93° | 37 | 2,655 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S32T SVUCR 16 | 40 | 32 | 300 | 22 | 93° | 30 | 1,720 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| S40T SVUCR 16 | 50 | 40 | 300 | 27 | 93° | 37 | 2,650 | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

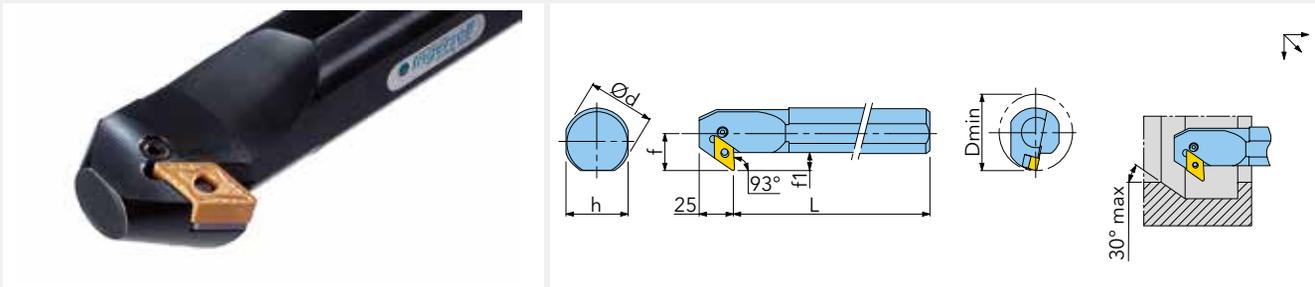
INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEAGTIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE À LEVIER, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|--------|--------|--------|-------|---------|
| S32T PDUNL 15 | 40 | 32 | 300 | 22 | 93° | 30 | 1,735 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S40T PDUNL 15 | 50 | 40 | 300 | 27 | 93° | 37 | 2,665 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| S50U PDUNL 15 | 63 | 50 | 350 | 35 | 93° | 47 | 4,940 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| S32T PDUNR 15 | 40 | 32 | 300 | 22 | 93° | 30 | 1,730 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S40T PDUNR 15 | 50 | 40 | 300 | 27 | 93° | 37 | 2,675 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| S50U PDUNR 15 | 63 | 50 | 350 | 35 | 93° | 47 | 4,945 | DN_1506_ | LCL 4A | LCS 4 | LSD 42 | LSP 4 | WS-0060 |
| S32T PDUNR 15A | 40 | 32 | 300 | 22 | 93° | 30 | 1,735 | DN_1504_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

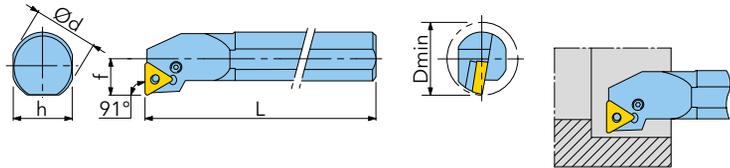
INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING, FOR NEAGTIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE À LEVIER, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | D | d | L | f | f1 | κ | h | kg | 55° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|----|----|-----|----|------|-----|----|-------|----------|--------|--------|--------|-------|---------|
| S32T PDZNL 15 | 45 | 32 | 300 | 25 | 11,4 | 93° | 30 | 1,870 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S40T PDZNL 15 | 50 | 40 | 300 | 29 | 11,4 | 93° | 37 | 2,870 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S32T PDZNR 15 | 45 | 32 | 300 | 25 | 11,4 | 93° | 30 | 1,880 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S40T PDZNR 15 | 50 | 40 | 300 | 29 | 11,4 | 93° | 37 | 2,880 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |
| S50U PDZNR 15 | 63 | 50 | 350 | 36 | 11,4 | 93° | 47 | 5,265 | DN_1506_ | LCL 4A | LCS 4S | LSD 42 | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER WITH MULTI LOCK CLAMP, FOR NEGATIVE 60° TN_ INSERTS
BARRE D'ALÉSAGE À LEVIER,, POUR PLAQUETTES TN_ NÉGATIVES 60°

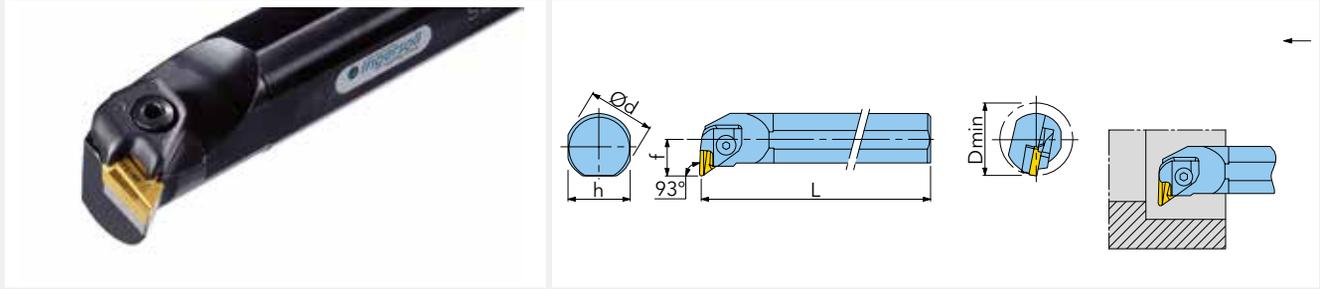


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|--------|-------|---------|-------|-------|---------|
| S20Q PTFNL 11 | 25 | 20 | 180 | 13 | 90° | 18 | 0,400 | TN_1103_ | LCL2B | LCS2B | - | - | LSR2B | LW2 |
| S25T PTFNL 16 | 32 | 25 | 300 | 17 | 90° | 23 | 1,060 | TN_1604_ | LCL3BH | LCS3B | - | - | LSR3B | LW2 |
| S32T PTFNL 16 | 40 | 32 | 300 | 22 | 90° | 30 | 1,750 | TN_1604_ | LCL3 | LCS3 | LST31.8 | LSP3A | - | LW2.5 |
| S40T PTFNL 16 | 50 | 40 | 300 | 27 | 90° | 37 | 2,690 | TN_1604_ | LCL3 | LCS3 | LST31.8 | LSP3A | - | LW2.5 |
| S20Q PTFNR 11 | 25 | 20 | 180 | 13 | 90° | 18 | 0,405 | TN_1103_ | LCL2B | LCS2B | - | - | LSR2B | LW2 |
| S25T PTFNR 16 | 32 | 25 | 300 | 17 | 90° | 23 | 1,055 | TN_1604_ | LCL3BH | LCS3B | - | - | LSR3B | LW2 |
| S32T PTFNR 16 | 40 | 32 | 300 | 22 | 90° | 30 | 1,750 | TN_1604_ | LCL3 | LCS3 | LST31.8 | LSP3A | - | LW2.5 |
| S40T PTFNR 16 | 50 | 40 | 300 | 27 | 90° | 37 | 2,690 | TN_1604_ | LCL3 | LCS3 | LST31.8 | LSP3A | - | LW2.5 |
| S50U PTFNR 16 | 63 | 50 | 350 | 35 | 90° | 47 | 4,930 | TN_1604_ | LCL3 | LCS3 | LST31.8 | LSP3A | - | LW2.5 |
| S40T PTFNR 22 | 50 | 40 | 300 | 27 | 90° | 37 | 2,680 | TN_2204_ | LCL4 | LCS4 | LST42 | LSP4 | - | WS-0060 |
| S50U PTFNR 22 | 63 | 50 | 350 | 35 | 90° | 47 | 4,930 | TN_2204_ | LCL4 | LCS4 | LST42 | LSP4 | - | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Snap ring / Circlip
⑥ = Wrench / Clé de serrage



INTERNAL TOP CLAMP TOOL HOLDER, FOR NEGATIVE 55° KNUX_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR BRIDE, POUR PLAQUETTES KNUX_ NÉGATIVES 55°

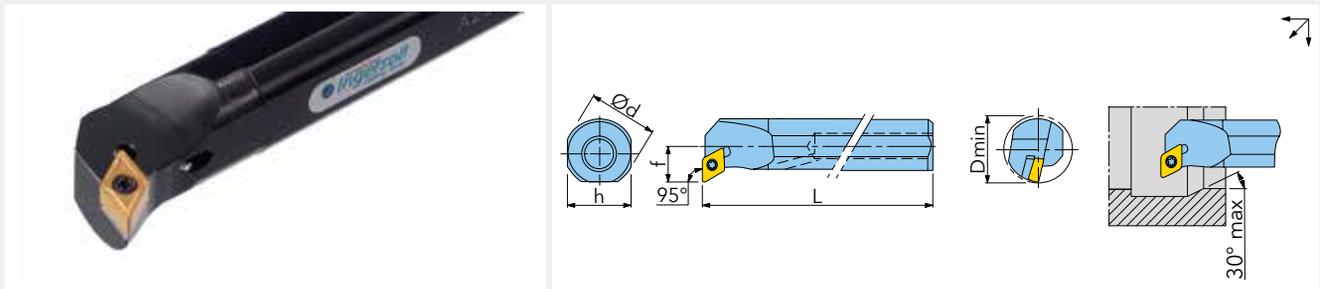


| Designation Réf. de l'article | D | d | L | f | κ | h | kg |
|----------------------------------|------|----|-----|----|-----|----|-------|
| S32T CKUNL 16 | 44 | 32 | 300 | 22 | 93° | 30 | 1,730 |
| S32T CKUNR 16 | 44 | 32 | 300 | 22 | 93° | 30 | 1,735 |
| S40T CKUNR 16 | 54 | 40 | 300 | 27 | 93° | 37 | 2,660 |
| S50U CKUNR 16 | 67,2 | 50 | 350 | 35 | 93° | 47 | 4,930 |

| Designation Réf. de l'article | | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-------------|---------|---------|--------|------------|--------------|--------|--------|------|
| S32T CKUNL 16 | KNUX_1604_R | CL 16KL | CLS 16K | KSP 90 | CSK 1604 L | FH M3X0.5X10 | KSP 48 | KP 48S | LW 4 |
| S32T CKUNR 16 | KNUX_1604_L | CL 16KR | CLS 16K | KSP 90 | CSK 1604 R | FH M3X0.5X10 | KSP 48 | KP 48S | LW 4 |
| S40T CKUNR 16 | KNUX_1604_L | CL 16KR | CLS 16K | KSP 90 | CSK 1604 R | FH M3X0.5X10 | KSP 48 | KP 48S | LW 4 |
| S50U CKUNR 16 | KNUX_1604_L | CL 16KR | CLS 16K | KSP 90 | CSK 1604 R | FH M3X0.5X10 | KSP 48 | KP 48S | LW 4 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Clamp spring / Support de ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Pin & spring / Goupille et ressort ⑦ = Pin & spring / Goupille et ressort ⑧ = Wrench / Clé de serrage

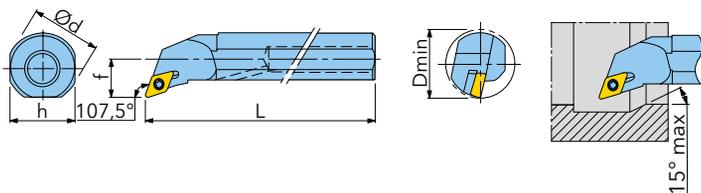
INTERNAL TOOL HOLDER WITH SCREW CLAMPING, FOR NEGATIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE SERRAGE PAR VIS, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | ⊿ | | ① | ② | ③ |
|----------------------------------|----|----|-----|----|-----|----|-------|---|----------|-----------|-----|------|
| A20S SDLNL 11 | 24 | 20 | 250 | 13 | 95° | 18 | 0,520 | ✓ | DN_1104_ | SO 351201 | T10 | PL20 |
| A20S SDLNR 11 | 24 | 20 | 250 | 13 | 95° | 18 | 0,520 | ✓ | DN_1104_ | SO 351201 | T10 | PL20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Seal / Joint d'étanchéité

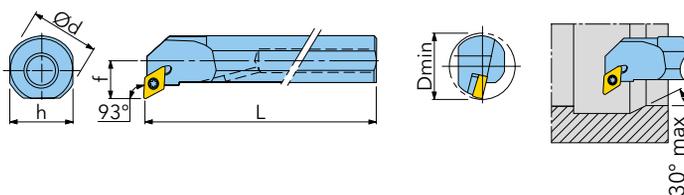
INTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE PAR VIS, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK | 55° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|----|----|-----|----|--------|----|-------|----|----------|-----------|--------|-----------|-----|------|
| A16S SDQNL 11 | 23 | 16 | 250 | 13 | 107,5° | 15 | 0,345 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL16 |
| A20S SDQNL 11 | 27 | 20 | 250 | 15 | 107,5° | 18 | 0,530 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL20 |
| A32T SDQNL 11 | 44 | 32 | 300 | 26 | 107,5° | 30 | 1,650 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL32 |
| A16S SDQNR 11 | 23 | 16 | 250 | 13 | 107,5° | 15 | 0,345 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL16 |
| A20S SDQNR 11 | 27 | 20 | 250 | 15 | 107,5° | 18 | 0,525 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL20 |
| A25T SDQNR 11 | 33 | 25 | 300 | 19 | 107,5° | 23 | 0,950 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL25 |
| A32T SDQNR 11 | 44 | 32 | 300 | 26 | 107,5° | 30 | 1,650 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL32 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Seal / Joint d'étanchéité

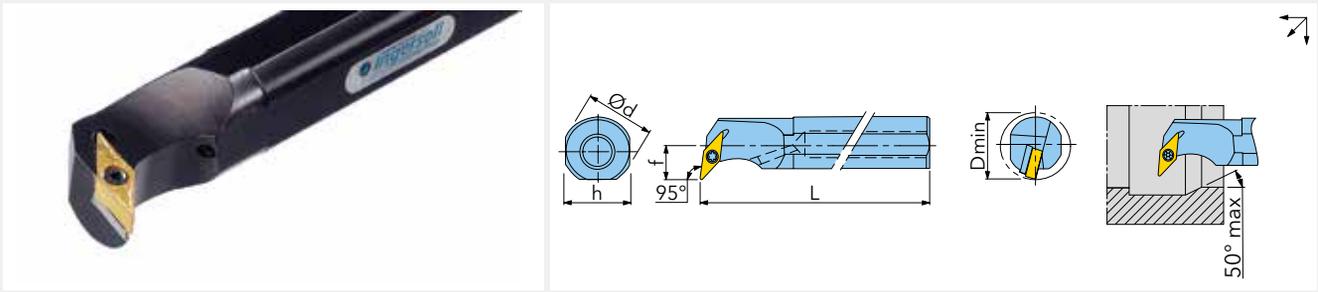
INTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE PAR VIS, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK | 55° | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|----|----|-----|----|-----|----|-------|----|----------|-----------|--------|-----------|-----|------|
| A20S SDUNL 11 | 27 | 20 | 250 | 15 | 93° | 18 | 0,520 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL20 |
| A25T SDUNL 11 | 33 | 25 | 300 | 19 | 93° | 23 | 0,960 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL25 |
| A32T SDUNL 11 | 44 | 32 | 300 | 26 | 93° | 30 | 1,665 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL32 |
| A20S SDUNR 11 | 27 | 20 | 250 | 15 | 93° | 18 | 0,525 | ✓ | DN_1104_ | SO 35120I | - | - | T10 | PL20 |
| A25T SDUNR 11 | 33 | 25 | 300 | 19 | 93° | 23 | 0,955 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL25 |
| A32T SDUNR 11 | 44 | 32 | 300 | 26 | 93° | 30 | 1,665 | ✓ | DN_1104_ | SO 35120I | SSD 32 | SO 50090S | T10 | PL32 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Seal / Joint d'étanchéité

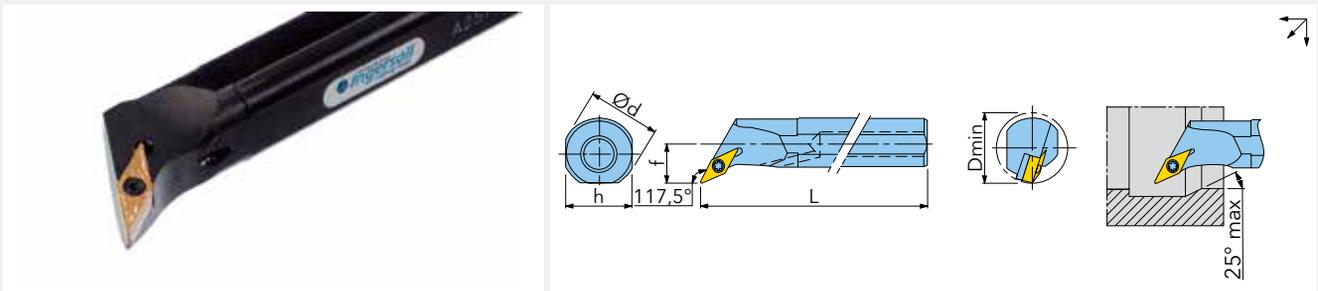
INTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 35° VN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE PAR VIS, POUR PLAQUETTES VN_ NÉGATIVES 35°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK | | | | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----|----------|-----------|------------|-------------|-----|------|
| A25T SVLNR 13 | 31 | 25 | 300 | 16 | 95° | 23 | 0,935 | ✓ | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 | PL25 |
| A32T SVLNR 13 | 38 | 32 | 300 | 20 | 95° | 30 | 1,630 | ✓ | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 | PL32 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Seal / Joint d'étanchéité

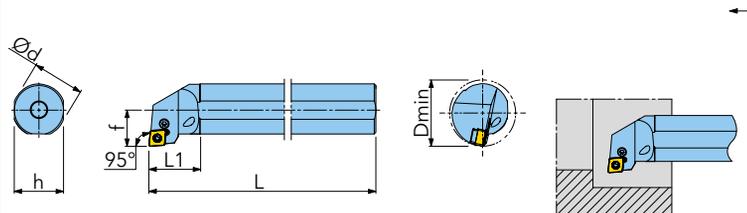
INTERNAL TOOL HOLDER WITH SCREW CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 35° VN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE PAR VIS, POUR PLAQUETTES VN_ NÉGATIVES 35°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK | | | | | | |
|----------------------------------|----|----|-----|----|--------|----|-------|----|----------|-----------|------------|-------------|-----|------|
| A25T SVPNR 13 | 33 | 25 | 300 | 19 | 117,5° | 23 | 0,935 | ✓ | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 | PL25 |
| A32T SVPNR 13 | 44 | 32 | 300 | 26 | 117,5° | 30 | 1,600 | ✓ | VN_1304_ | SO 35120I | SSVN 2.522 | TS 5035062S | T10 | PL32 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Seal / Joint d'étanchéité

INTERNAL TOOL HOLDER WITH LEVER LOCK CLAMPING AND INTERNAL COOLANT, FOR NEGATIVE 80° CNMX_ INSERTS
BARRE D'ALÉSAGE À LEVIER AVEC ARROSAGE INTÉGRÉ, POUR PLAQUETTES CNMX_ NÉGATIVES 80°



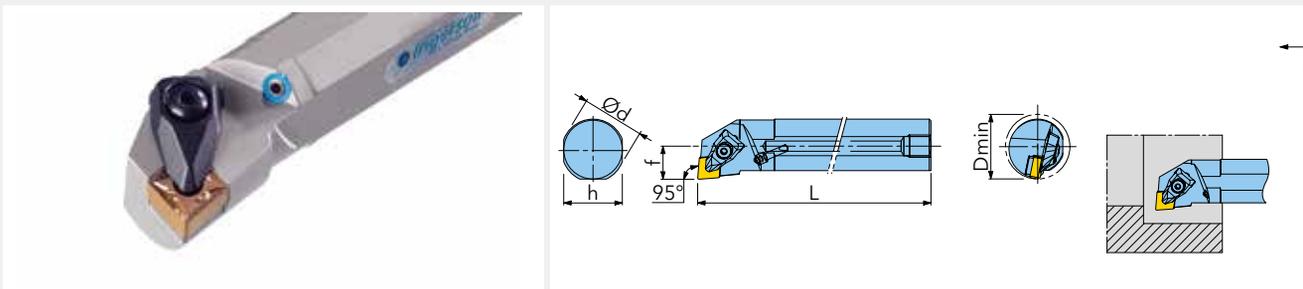
| Designation Réf. de l'article | D min. | d | L | L1 | f | κ | h | kg | IK |
|----------------------------------|--------|----|-----|----|----|-----|----|-------|----|
| A32S HCLNL 1205 | 40 | 32 | 250 | 45 | 22 | 95° | 30 | 1,365 | ✓ |
| A40T HCLNL 1205 | 50 | 40 | 300 | 55 | 27 | 95° | 37 | 2,605 | ✓ |
| A32S HCLNR 1205 | 40 | 32 | 250 | 45 | 22 | 95° | 30 | 1,370 | ✓ |
| A40T HCLNR 1205 | 50 | 40 | 300 | 55 | 27 | 95° | 37 | 2,605 | ✓ |

| Designation Réf. de l'article |  |  |  |  |  |  |  |
|----------------------------------|---|---|---|---|---|--|---|
| A32S HCLNL 1205 | CNMX_1205_HB | LCL 12-NX | LCS 5 | LSC 43-NXS | LSP 4 | SPP 3-4 | WS-0060 |
| A40T HCLNL 1205 | CNMX_1205_HB | LCL 12-NX | LCS 5 | LSC 43-NXS | LSP 4 | SPP 3-4 | WS-0060 |
| A32S HCLNR 1205 | CNMX_1205_HB | LCL 12-NX | LCS 5 | LSC 43-NXS | LSP 4 | SPP 3-4 | WS-0060 |
| A40T HCLNR 1205 | CNMX_1205_HB | LCL 12-NX | LCS 5 | LSC 43-NXS | LSP 4 | SPP 3-4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Differential screw / Vis à pas différentiel
⑥ = Wrench / Clé de serrage



EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND INTERNAL COOLANT, FOR NEGATIVE 80° CN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE TYPE "T", POUR PLAQUETTES CN_ NÉGATIVES 80°

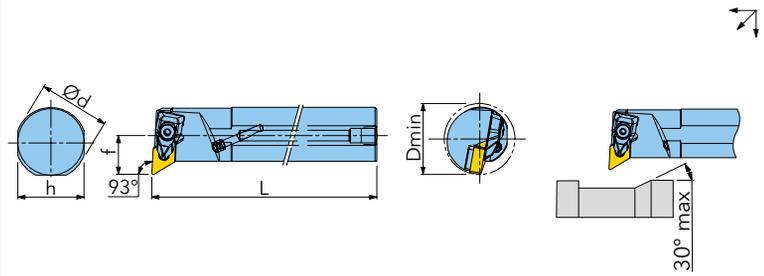


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK |
|----------------------------------|----|----|-----|----|-----|----|-------|----|
| A25T TCLNL 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,005 | ✓ |
| A32T TCLNL 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,700 | ✓ |
| A40T TCLNL 12 | 50 | 40 | 300 | 22 | 95° | 37 | 2,675 | ✓ |
| A50U TCLNL 12 | 63 | 50 | 350 | 35 | 95° | 47 | 4,995 | ✓ |
| A25T TCLNR 12 | 32 | 25 | 300 | 17 | 95° | 23 | 1,005 | ✓ |
| A32T TCLNR 12 | 40 | 32 | 300 | 22 | 95° | 30 | 1,705 | ✓ |
| A40T TCLNR 12 | 50 | 40 | 300 | 22 | 95° | 37 | 2,670 | ✓ |
| A50U TCLNR 12 | 63 | 50 | 350 | 35 | 95° | 47 | 4,990 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|-------|-------|--------|------------|-------|--------|---------|
| A25T TCLNL 12 | CN_1204_ | DLM 4 | DLS 4 | LSC 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A32T TCLNL 12 | CN_1204_ | DLM 4 | DLS 4 | LSC 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A40T TCLNL 12 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40085I | DSP 4 | NZ 104 | WS-0060 |
| A50U TCLNL 12 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40085I | DSP 4 | NZ 104 | WS-0060 |
| A25T TCLNR 12 | CN_1204_ | DLM 4 | DLS 4 | LSC 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A32T TCLNR 12 | CN_1204_ | DLM 4 | DLS 4 | LSC 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A40T TCLNR 12 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40085I | DSP 4 | NZ 104 | WS-0060 |
| A50U TCLNR 12 | CN_1204_ | DLM 4 | DLS 4 | TSC 44 | SO 40085I | DSP 4 | NZ 104 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Nozzle / Embout ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND INTERNAL COOLANT, FOR NEGATIVE 55° DN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE TYPE "T", POUR PLAQUETTES DN_ NÉGATIVES 55°

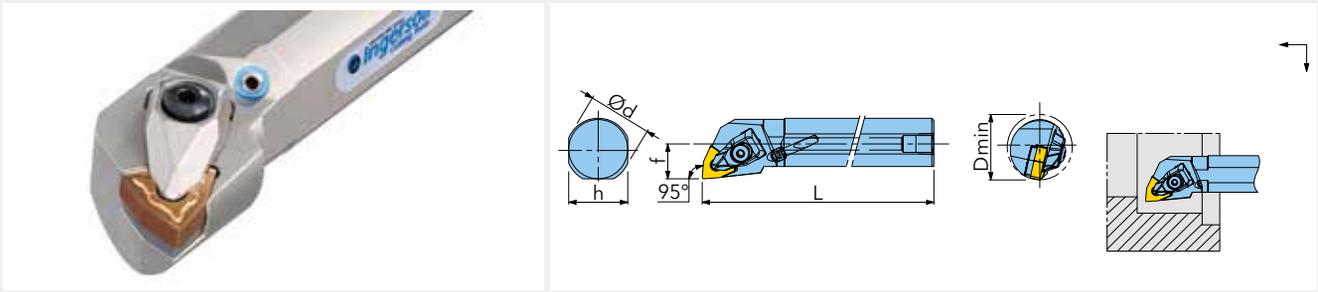


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK |
|----------------------------------|----|----|-----|----|----------|----|-------|----|
| A32TTDUNL 15 | 40 | 32 | 300 | 22 | 93° | 30 | 1,695 | ✓ |
| A40TTDUNL 15 | 50 | 40 | 300 | 27 | 93° | 37 | 2,665 | ✓ |
| A50U TDUNL 15 | 63 | 50 | 350 | 35 | 93° | 47 | 4,960 | ✓ |
| A32TTDUNR 15 | 40 | 32 | 300 | 22 | 93° | 30 | 1,690 | ✓ |
| A40TTDUNR 15 | 50 | 40 | 300 | 27 | 93° | 37 | 2,670 | ✓ |
| A50U TDUNR 15 | 63 | 50 | 350 | 35 | 93° | 47 | 4,960 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|-------|-------|--------|------------|-------|--------|---------|
| A32TTDUNL 15 | DN_1506_ | DLM 4 | DLS 4 | LSD 42 | TS 50A1051 | DSP 4 | NZ 62 | WS-0060 |
| A40TTDUNL 15 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 400851 | DSP 4 | NZ 104 | WS-0060 |
| A50U TDUNL 15 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 400851 | DSP 4 | NZ 104 | WS-0060 |
| A32TTDUNR 15 | DN_1506_ | DLM 4 | DLS 4 | LSD 42 | TS 50A1051 | DSP 4 | NZ 62 | WS-0060 |
| A40TTDUNR 15 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 400851 | DSP 4 | NZ 104 | WS-0060 |
| A50U TDUNR 15 | DN_1506_ | DLM 4 | DLS 4 | TSD 43 | SO 400851 | DSP 4 | NZ 104 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Nozzle / Embout ⑦ = Wrench / Clé de serrage

EXTERNAL TOOL HOLDER WITH T-TYPE CLAMPING SYSTEM AND INTERNAL COOLANT, FOR NEGATIVE 80° TRIGON WN_ INSERTS
BARRE D'ALÉSAGE AVEC ARROSAGE INTÉGRÉ - SERRAGE TYPE "T", POUR PLAQUETTES WN_ NÉGATIVES TRIGONES 80°

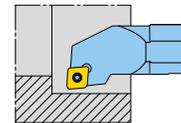
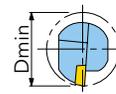
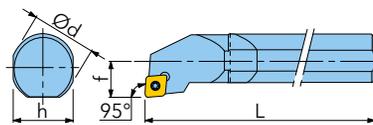


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | IK |
|----------------------------------|----|----|-----|----|-----|----|-------|----|
| A20S TWLNL 06 | 25 | 20 | 250 | 13 | 95° | 18 | 0,515 | ✓ |
| A25T TWLNL 06 | 32 | 25 | 300 | 17 | 95° | 23 | 0,458 | ✓ |
| A25T TWLNL 08 | 32 | 25 | 300 | 17 | 95° | 23 | 1,005 | ✓ |
| A32T TWLNL 08 | 40 | 32 | 300 | 22 | 95° | 30 | 1,685 | ✓ |
| A40T TWLNL 08 | 50 | 40 | 300 | 27 | 95° | 37 | 2,645 | ✓ |
| A20S TWLNR 06 | 25 | 20 | 250 | 13 | 95° | 18 | 0,525 | ✓ |
| A25T TWLNR 06 | 32 | 25 | 300 | 17 | 95° | 23 | 1,000 | ✓ |
| A32T TWLNR 06 | 40 | 32 | 300 | 22 | 95° | 30 | 1,695 | ✓ |
| A25T TWLNR 08 | 32 | 25 | 300 | 17 | 95° | 23 | 1,005 | ✓ |
| A32T TWLNR 08 | 40 | 32 | 300 | 22 | 95° | 30 | 1,685 | ✓ |
| A40T TWLNR 08 | 50 | 40 | 300 | 27 | 95° | 37 | 2,640 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|-------|-------|--------|------------|-------|--------|---------|
| A20S TWLNL 06 | WN_0604_ | DLM 3 | DLS 3 | - | - | DSP 3 | NZ 62 | L-W 2.5 |
| A25T TWLNL 06 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 40090I | DSP 3 | NZ 62 | L-W 2.5 |
| A25T TWLNL 08 | WN_0804_ | DLM 4 | DLS 4 | PSW 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A32T TWLNL 08 | WN_0804_ | DLM 4 | DLS 4 | PSW 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A40T TWLNL 08 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 40050I | DSP 4 | NZ 104 | WS-0060 |
| A20S TWLNR 06 | WN_0604_ | DLM 3 | DLS 3 | - | - | DSP 3 | NZ 62 | L-W 2.5 |
| A25T TWLNR 06 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 40090I | DSP 3 | NZ 62 | L-W 2.5 |
| A32T TWLNR 06 | WN_0604_ | DLM 3 | DLS 3 | PSW 32 | SO 40090I | DSP 3 | NZ 62 | L-W 2.5 |
| A25T TWLNR 08 | WN_0804_ | DLM 4 | DLS 4 | PSW 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A32T TWLNR 08 | WN_0804_ | DLM 4 | DLS 4 | PSW 42 | TS 50A105I | DSP 4 | NZ 62 | WS-0060 |
| A40T TWLNR 08 | WN_0804_ | DLM 4 | DLS 4 | TSW 44 | SO 40050I | DSP 4 | NZ 104 | WS-0060 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Clamp screw / Vis de serrage ⑤ = Spring / Ressort
⑥ = Nozzle / Embout ⑦ = Wrench / Clé de serrage

INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 80° CC_ INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES CC_ POSITIVES 80°

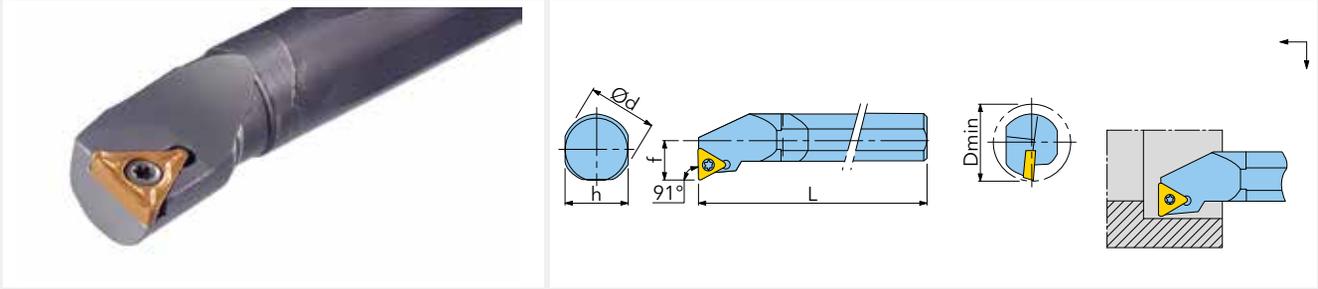


| Designation Réf. de l'article | D | d | L | f | κ | h | kg | | | |
|----------------------------------|----|----|-----|----|-----|----|-------|----------|-----------|-----|
| C08K SCLCL 06 | 11 | 8 | 125 | 6 | 95° | 7 | 0,080 | CC_0602_ | SO 250651 | T7 |
| C10K SCLCL 06 | 13 | 10 | 125 | 7 | 95° | 9 | 0,120 | CC_0602_ | SO 250651 | T7 |
| C12M SCLCL 09 | 16 | 12 | 150 | 9 | 95° | 11 | 0,215 | CC_09T3_ | SO 350801 | T15 |
| C16R SCLCL 09 | 20 | 16 | 200 | 11 | 95° | 15 | 0,510 | CC_09T3_ | SO 350801 | T15 |
| C20S SCLCL 09 | 25 | 20 | 250 | 13 | 95° | 18 | 1,015 | CC_09T3_ | SO 350801 | T15 |
| C08K SCLCR 06 | 11 | 8 | 125 | 6 | 95° | 7 | 0,080 | CC_0602_ | SO 250651 | T7 |
| C10K SCLCR 06 | 13 | 10 | 125 | 7 | 95° | 9 | 0,125 | CC_0602_ | SO 250651 | T7 |
| C12K SCLCR 06 | 16 | 12 | 125 | 9 | 95° | 11 | 0,175 | CC_0602_ | SO 250651 | T7 |
| C12M SCLCR 06 | 16 | 12 | 150 | 9 | 95° | 11 | 0,220 | CC_0602_ | SO 250651 | T7 |
| C12M SCLCR 09 | 16 | 12 | 150 | 9 | 95° | 11 | 0,220 | CC_09T3_ | SO 350801 | T15 |
| C16R SCLCR 09 | 20 | 16 | 200 | 11 | 95° | 15 | 0,525 | CC_09T3_ | SO 350801 | T15 |
| C20S SCLCR 09 | 25 | 20 | 250 | 13 | 95° | 18 | 1,005 | CC_09T3_ | SO 350801 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



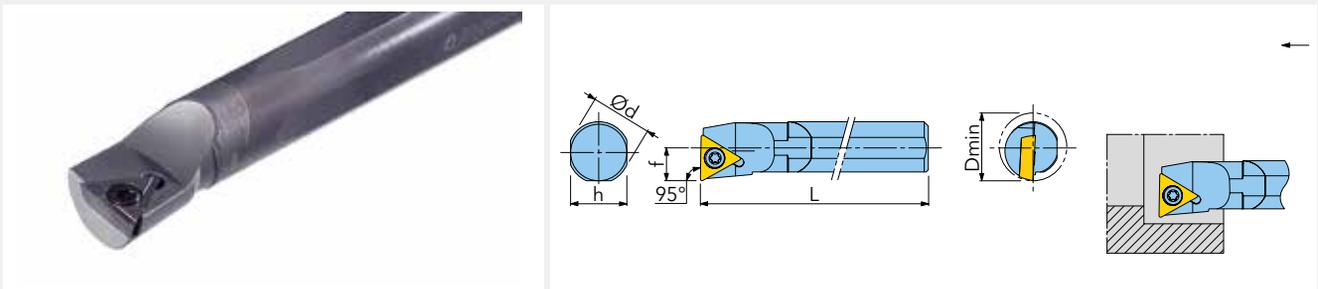
INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TC_ INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES TC_ POSITIVES 60°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg |  |  |  |
|----------------------------------|----|----|-----|----|----------|----|-------|---|---|---|
| C16R STFCL 11 | 20 | 16 | 200 | 11 | 90° | 15 | 0,525 | TC_1102_ | SO 25065I | T7 |
| C10K STFCR 11 | 13 | 10 | 125 | 7 | 90° | 9 | 0,125 | TC_1102_ | SO 22050I | T7 |
| C12M STFCR 11 | 16 | 12 | 150 | 9 | 90° | 11 | 0,220 | TC_1102_ | SO 25065I | T7 |
| C16R STFCR 11 | 20 | 16 | 200 | 11 | 90° | 15 | 0,530 | TC_1102_ | SO 25065I | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

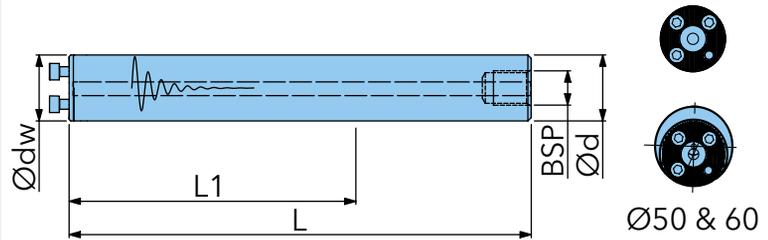
INTERNAL CARBIDE SHANK TOOL HOLDER WITH SCREW CLAMPING, FOR POSITIVE 60° TP_ INSERTS
BARRE D'ALÉSAGE CARBURE SERRAGE PAR VIS, POUR PLAQUETTES TP_ POSITIVES 60°



| Designation Réf. de l'article | D | d | L | f | κ | h | kg |  |  |  |
|----------------------------------|----|----|-----|---|----------|----|-------|---|---|---|
| C10K STFPR 11 | 12 | 10 | 125 | 6 | 90° | 9 | 0,125 | TP_1103_ | SO 30055I | T9 |
| C12M STFPR 11 | 16 | 12 | 150 | 8 | 90° | 11 | 0,215 | TP_1103_ | SO 30100I | T9 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

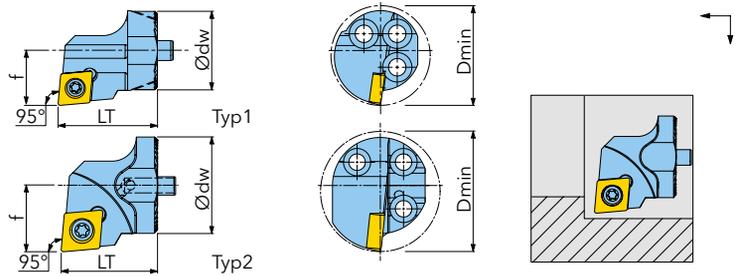
ANTI-VIBRATION BARS WITH THROUGH COLLANT FOR INTERCHANGEABLE TURNING HEADS
BARRES D'ALÉSAGE ANTIVIBRATOIRES AVEC ARROSAGE PAR LE CENTRE POUR TÊTES INTERCHANGEABLES



| Designation Réf. de l'article | d | dw | L | L1 | BSP | IK |
|----------------------------------|----|----|-----|-----|------|----|
| DTA-D16-7D-C | 16 | 16 | 156 | 92 | - | ✓ |
| DTA-D16-10D-E | 16 | 16 | 204 | 140 | G1/8 | ✓ |
| DTA-D20-7D-C | 20 | 20 | 200 | 120 | - | ✓ |
| DTA-D20-10D-E | 20 | 20 | 260 | 180 | G1/4 | ✓ |
| DTA-D25-7D-C | 25 | 25 | 255 | 155 | G1/4 | ✓ |
| DTA-D25-10D-C | 25 | 25 | 330 | 230 | G1/4 | ✓ |
| DTA-D32-7D-C | 32 | 32 | 320 | 192 | G3/8 | ✓ |
| DTA-D32-10D-C | 32 | 32 | 416 | 288 | G3/8 | ✓ |
| DTA-D40-7D-C | 40 | 40 | 408 | 248 | G1/2 | ✓ |
| DTA-D40-10D-C | 40 | 40 | 528 | 368 | G1/2 | ✓ |
| DTA-D50-7D-C | 50 | 40 | 518 | 318 | G1/2 | ✓ |
| DTA-D50-10D-C | 50 | 40 | 668 | 468 | G1/2 | ✓ |
| DTA-D60-7D-C | 60 | 40 | 628 | 388 | G3/4 | ✓ |
| DTA-D60-10D-C | 60 | 40 | 808 | 568 | G3/4 | ✓ |



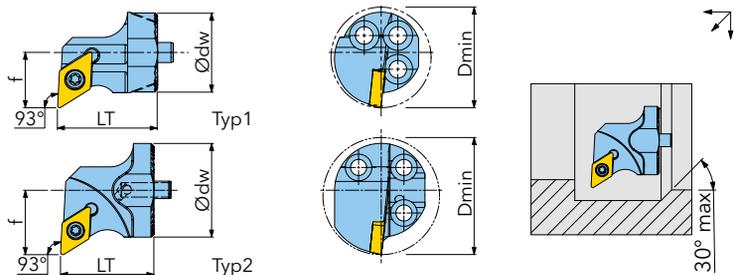
INTERCHANGEABLE BORING HEAD, FOR POSITIVE CC_ INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES CC_ POSITIVES 80°



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | | | | | | |
|----------------------------------|--------|----|----|----|-----|------|----|-----------|-----------|---------|-----------|-----|------|
| DTC-D16-SCLCL-06 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | CC_T0602_ | SO 250651 | - | - | T7 | - |
| DTC-D20-SCLCL-09 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | CC_T09T3_ | SO 350801 | - | - | T15 | - |
| DTC-D25-SCLCL-09 | 32 | 25 | 22 | 17 | 2 | 0,19 | ✓ | CC_T09T3_ | SO 350801 | - | - | T15 | - |
| DTC-D32-SCLCL-12 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | CC_T1204_ | SO 451001 | - | - | T20 | - |
| DTC-D40-SCLCL-12 | 50 | 40 | 38 | 27 | 2 | 0,25 | ✓ | CC_T1204_ | SO 451301 | SSC 43N | SO 601055 | T20 | LW 5 |
| DTC-D16-SCLCR-06 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | CC_T0602_ | SO 250651 | - | - | T7 | - |
| DTC-D20-SCLCR-09 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | CC_T09T3_ | SO 350801 | - | - | T15 | - |
| DTC-D25-SCLCR-09 | 32 | 25 | 22 | 17 | 2 | 0,19 | ✓ | CC_T09T3_ | SO 350801 | - | - | T15 | - |
| DTC-D32-SCLCR-12 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | CC_T1204_ | SO 451001 | - | - | T20 | - |
| DTC-D40-SCLCR-12 | 50 | 40 | 38 | 27 | 2 | 0,29 | ✓ | CC_T1204_ | SO 451301 | SSC 43N | SO 601055 | T20 | LW 5 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Wrench / Clé de serrage

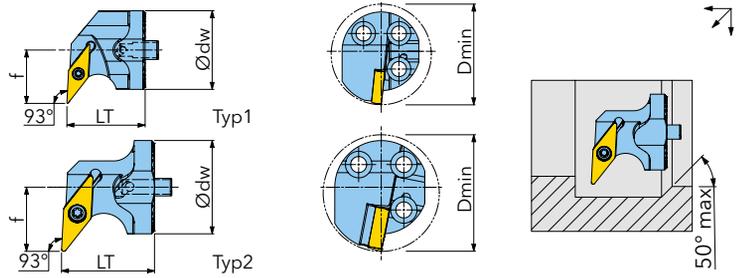
INTERCHANGEABLE BORING HEAD, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | | | | | | |
|----------------------------------|--------|----|----|----|-----|------|----|-----------|-----------|--------|-----------|-----|--------|
| DTC-D16-SDUCL-07 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | DC_T0702_ | SO 250651 | - | - | T7 | - |
| DTC-D20-SDUCL-11 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D25-SDUCL-11 | 32 | 25 | 22 | 17 | 2 | 0,19 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D32-SDUCL-11 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D40-SDUCL-11 | 50 | 40 | 38 | 27 | 2 | 0,25 | ✓ | DC_T11T3_ | SO 351241 | SSD 32 | SO 500905 | T15 | LW 3.5 |
| DTC-D16-SDUCR-07 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | DC_T0702_ | SO 250651 | - | - | T7 | - |
| DTC-D20-SDUCR-11 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D25-SDUCR-11 | 32 | 25 | 22 | 17 | 2 | 0,19 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D32-SDUCR-11 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | DC_T11T3_ | SO 350801 | - | - | T15 | - |
| DTC-D40-SDUCR-11 | 50 | 40 | 38 | 27 | 2 | 0,25 | ✓ | DC_T11T3_ | SO 351241 | SSD 32 | SO 500905 | T15 | LW 3.5 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Wrench / Clé de serrage

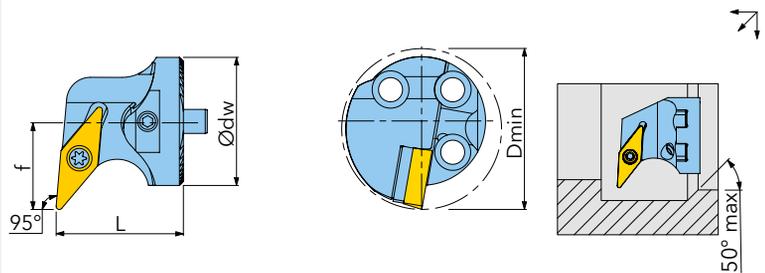
INTERCHANGEABLE BORING HEAD, FOR POSITIVE 35° VB_ INSERTS - 5° CLEARANCE
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | | | | | | |
|----------------------------------|--------|----|----|----|-----|------|----|----------|-----------|--------|-----------|-----|--------|
| DTC-D20-SVUBL-11 | 27 | 20 | 20 | 16 | 1 | 0,15 | ✓ | VB_T1103 | SO 25065I | - | - | T7 | - |
| DTC-D25-SVUBL-11 | 31 | 25 | 25 | 17 | 1 | 0,19 | ✓ | VB_T1103 | SO 25065I | - | - | T7 | - |
| DTC-D32-SVUBL-16 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | VB_T1604 | SO 35124I | SSV 32 | SO 50090S | T15 | LW 3.5 |
| DTC-D40-SVUBL-16 | 50 | 40 | 32 | 27 | 2 | 0,25 | ✓ | VB_T1604 | SO 35124I | SSV 32 | SO 50090S | T15 | LW 3.5 |
| DTC-D20-SVUBR-11 | 27 | 20 | 20 | 16 | 1 | 0,15 | ✓ | VB_T1103 | SO 25065I | - | - | T7 | - |
| DTC-D25-SVUBR-11 | 31 | 25 | 25 | 17 | 1 | 0,19 | ✓ | VB_T1103 | SO 25065I | - | - | T7 | - |
| DTC-D32-SVUBR-16 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | VB_T1604 | SO 35124I | SSV 32 | SO 50090S | T15 | LW 3.5 |
| DTC-D40-SVUBR-16 | 50 | 40 | 32 | 27 | 2 | 0,25 | ✓ | VB_T1604 | SO 35124I | SSV 32 | SO 50090S | T15 | LW 3.5 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Wrench / Clé de serrage

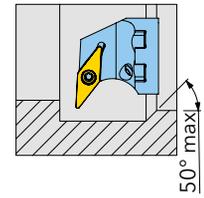
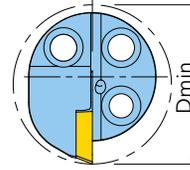
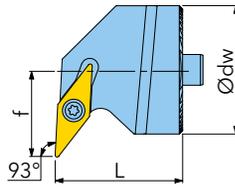
INTERCHANGEABLE BORING HEAD, FOR 35° VC_ RHOMBIC INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES POSITIVES VC_ 16 , 7° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | dw | L | f | IK | | | | | |
|----------------------------------|--------|----|----|----|----|----------|-----------|--------|-----------|-----|
| DTC-D32-SVLCL-16T | 40 | 32 | 32 | 22 | ✓ | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| DTC-D40-SVLCL-16T | 50 | 40 | 32 | 27 | ✓ | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| DTC-D32-SVLCR-16T | 40 | 32 | 32 | 22 | ✓ | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |
| DTC-D40-SVLCR-16T | 50 | 40 | 32 | 27 | ✓ | VC_1604_ | SO 35124I | SSV 32 | SO 50090S | T15 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage

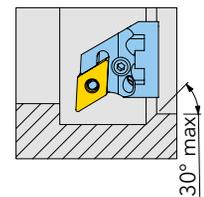
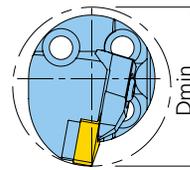
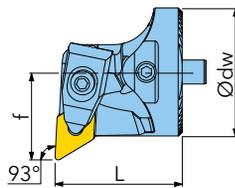
INTERCHANGEABLE BORING HEAD, FOR 35° VC_ RHOMBIC INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES POSITIVES VC_11, 7° DE DÉPOUILLE



| Designation Réf. de l'article | D min. | dw | L | f | IK | | | |
|----------------------------------|--------|----|----|----|----|----------|-----------|----|
| DTC-D20-SVUCL-11 | 27 | 20 | 20 | 16 | ✓ | VC_1103_ | SO 25065I | T7 |
| DTC-D25-SVUCL-11 | 31 | 25 | 25 | 17 | ✓ | VC_1103_ | SO 25065I | T7 |
| DTC-D20-SVUCR-11 | 27 | 20 | 20 | 16 | ✓ | VC_1103_ | SO 25065I | T7 |
| DTC-D25-SVUCR-11 | 31 | 25 | 25 | 17 | ✓ | VC_1103_ | SO 25065I | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

INTERCHANGEABLE BORING HEAD, FOR 55° DN_ RHOMBIC INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES NÉGATIVES À 55° TYPE DN_

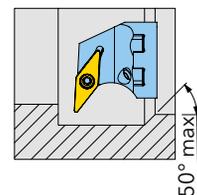
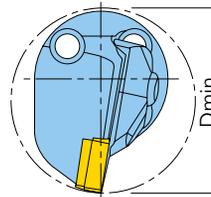
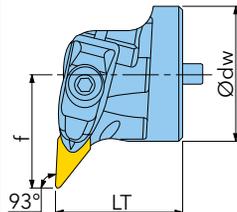


| Designation Réf. de l'article | D min. | dw | L | f | IK |
|----------------------------------|--------|----|----|----|----|
| DTC-D32-DDUNL-11T | 40 | 32 | 32 | 22 | ✓ |
| DTC-D40-DDUNL-15T | 50 | 40 | 32 | 27 | ✓ |
| DTC-D32-DDUNR-11T | 40 | 32 | 32 | 22 | ✓ |
| DTC-D40-DDUNR-15T | 50 | 40 | 32 | 27 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|-------|--------|-----------|-------|-------|------|---------|
| DTC-D32-DDUNL-11T | DN_1104_ | DLS 3 | LSD 32 | SO 40085I | DLM 3 | DSP 3 | T 15 | WS-0060 |
| DTC-D40-DDUNL-15T | DN_15_ | DLS 4 | TSD 43 | SO 40050I | DLM 4 | DSP 4 | T 15 | WS-0060 |
| DTC-D32-DDUNR-11T | DN_1104_ | DLS 3 | LSD 32 | SO 40085I | DLM 3 | DSP 3 | T 15 | WS-0060 |
| DTC-D40-DDUNR-15T | DN_15_ | DLS 4 | TSD 43 | SO 40050I | DLM 4 | DSP 4 | T 15 | WS-0060 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Clamp / Bride ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

INTERCHANGEABLE BORING HEAD, FOR 35° VN_ RHOMBIC INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES NÉGATIVES À 35° TYPE VN_

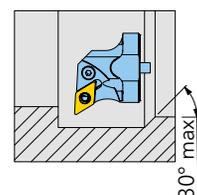
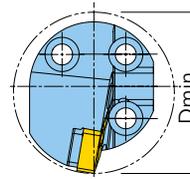
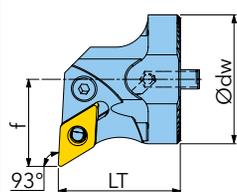


| Designation Réf. de l'article | D min. | dw | LT | f | IK |
|----------------------------------|--------|----|----|----|----|
| DTC-D40-DVUNL-16T | 56 | 40 | 38 | 34 | ✓ |
| DTC-D40-DVUNR-16T | 56 | 40 | 38 | 34 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|----------|-------|--------|-----------|--------|-------|-----|------|
| DTC-D40-DVUNL-16T | VN_1604_ | DLS 5 | TSV 33 | SO 35080I | DLM 3V | DSP 5 | T15 | L-W4 |
| DTC-D40-DVUNR-16T | VN_1604_ | DLS 5 | TSV 33 | SO 35080I | DLM 3V | DSP 5 | T15 | L-W4 |

① = Clamp screw / Vis de serrage ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Clamp / Bride ⑤ = Spring / Ressort
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

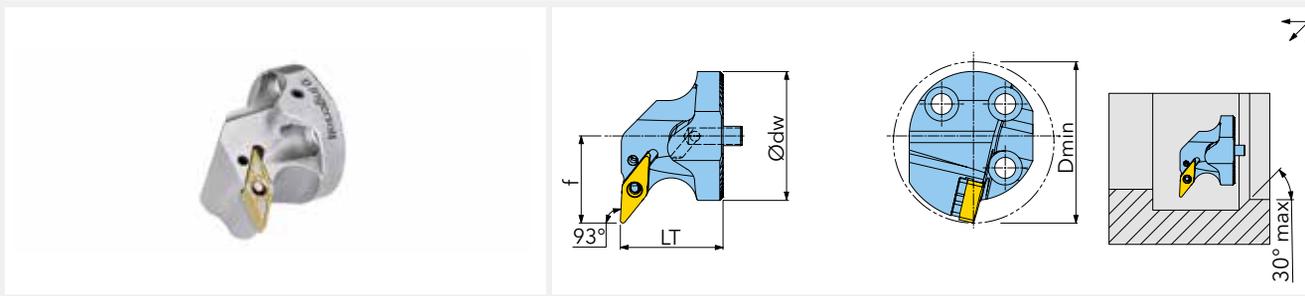
INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 55° DN_ 1305_ INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES DN_ 1305_ NÉGATIVES 55°



| Designation Réf. de l'article | D min. | dw | LT | f | kg | IK | | | | | | |
|----------------------------------|--------|----|----|----|------|----|------------|-----------|--------|-----------|-------|---------|
| DTC-D40-HDUNL-1305 | 50 | 40 | 38 | 27 | 0,25 | ✓ | DN_G 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |
| DTC-D40-HDUNR-1305 | 50 | 40 | 38 | 27 | 0,25 | ✓ | DN_G 1305_ | LCL 11-NX | LCS 4S | LSD 3.52B | LSP 4 | WS-0060 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

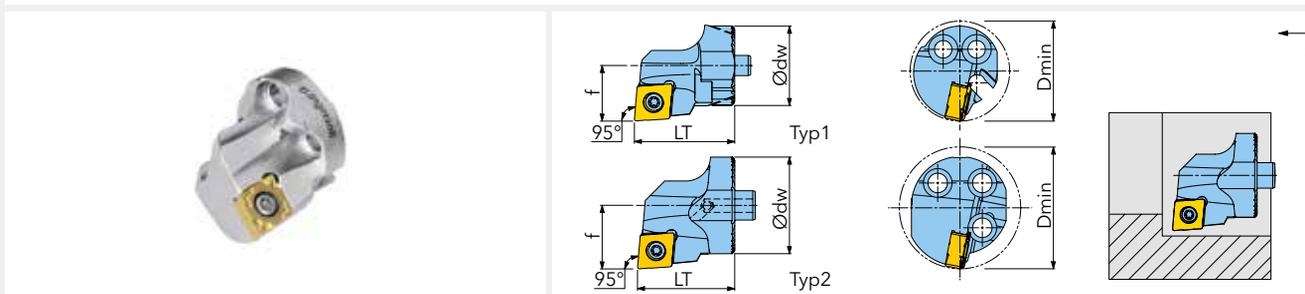
INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 35° VN_X 1304_ INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES VN_X 1304_ NÉGATIVES 35°



| Designation Réf. de l'article | D min. | dw | LT | f | kg | IK | | | | | | |
|----------------------------------|--------|----|----|----|------|----|-----------|-----------|----------|-------------|--------|--------|
| DTC-D40-HVUNL-1304 | 50 | 40 | 32 | 27 | 0,25 | ✓ | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |
| DTC-D40-HVUNR-1304 | 50 | 40 | 32 | 27 | 0,25 | ✓ | VN_X1304_ | LCL 08-NX | LCS 4-DH | LSV 2.51.8H | LSP 3B | LW 2.5 |

① = Lever / Levier ② = Clamp screw / Vis de serrage ③ = Shim / Assise de protection ④ = Shim pin / Goupille d'assise ⑤ = Wrench / Clé de serrage

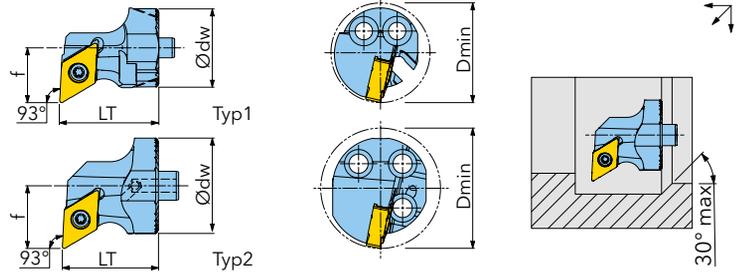
INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 80° CN_X 0703_ INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES CN_X 0703_ NÉGATIVES 80°



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | | | |
|----------------------------------|--------|----|----|----|-----|------|----|------------|----------------|-----|
| DTC-D16-SCLNL-0703 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | CN_X 0703_ | TS 25D060/HG-P | T7P |
| DTC-D20-SCLNL-0703 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | CN_X 0703_ | TS 25D060/HG-P | T7P |
| DTC-D16-SCLNR-0703 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | CN_X 0703_ | TS 25D060/HG-P | T7P |
| DTC-D20-SCLNR-0703 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | CN_X 0703_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

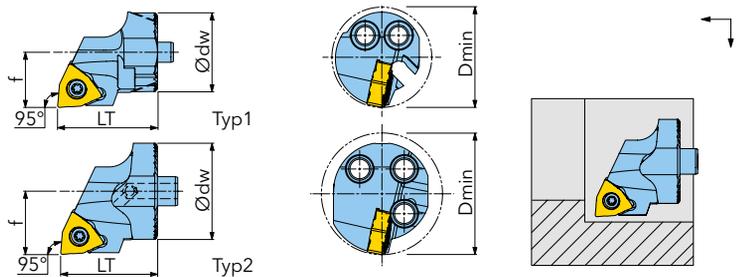
INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 55° DN_X INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES DN_X NÉGATIVES 55°



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | 55° | ① | ② |
|----------------------------------|--------|----|----|----|-----|------|----|------------|----------------|-----|
| DTC-D16-SDUNL-0803 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |
| DTC-D20-SDUNL-0803 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | DN_X 0803_ | TS 40G110I | T15 |
| DTC-D32-SDUNL-1305 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | DN_G 1305_ | TS 40G110I | T15 |
| DTC-D16-SDUNR-0803 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P |
| DTC-D20-SDUNR-0803 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | DN_X 0803_ | TS 40G110I | T15 |
| DTC-D32-SDUNR-1305 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | DN_G 1305_ | TS 40G110I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

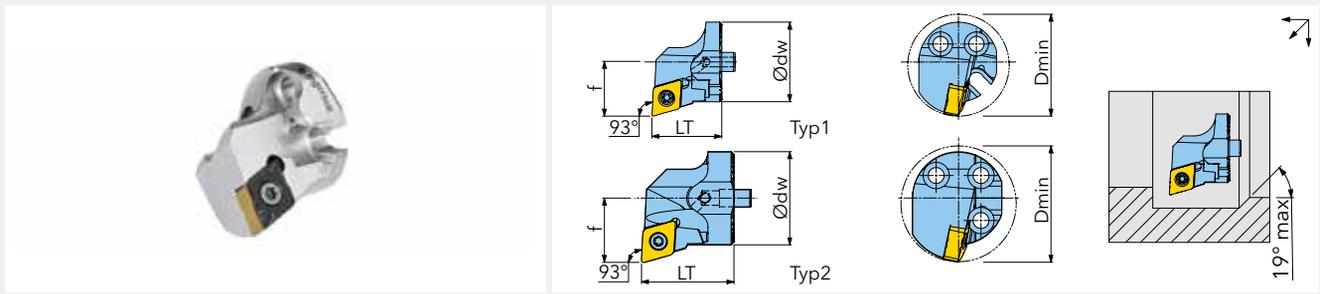
INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 80° TRIGON WN_ INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES WN_ NÉGATIVES TRIGONE 80°



| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | 80° | ① | ② |
|----------------------------------|--------|----|----|----|-----|------|----|------------|----------------|-----|
| DTC-D16-SWLNL-0403 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | WN_X 0403_ | TS 25D060/HG-P | T7P |
| DTC-D20-SWLNL-0403 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | WN_X 0403_ | TS 25D060/HG-P | T7P |
| DTC-D16-SWLNR-0403 | 20 | 16 | 20 | 11 | 1 | 0,10 | ✓ | WN_X 0403_ | TS 25D060/HG-P | T7P |
| DTC-D20-SWLNR-0403 | 25 | 20 | 20 | 13 | 2 | 0,15 | ✓ | WN_X 0403_ | TS 25D060/HG-P | T7P |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

INTERCHANGEABLE BORING HEAD, FOR NEGATIVE 70° XNMG INSERTS
TÊTES D'ALÉSAGE INTERCHANGEABLES, POUR PLAQUETTES XNMG NÉGATIVES 70°

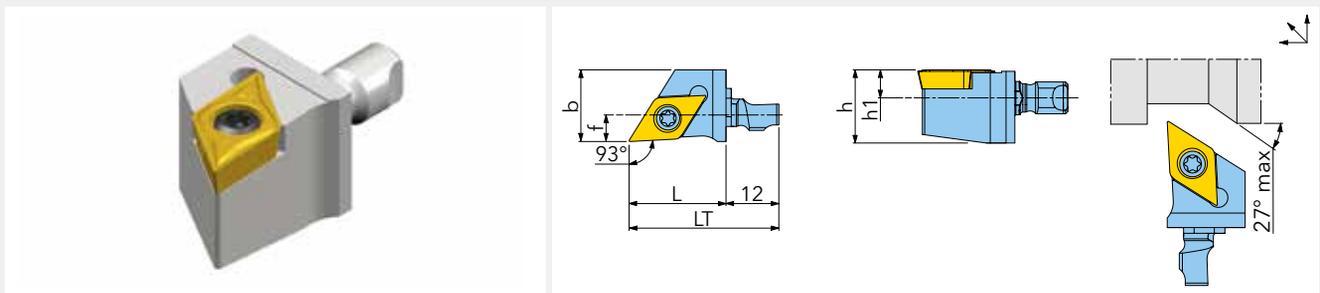


| Designation Réf. de l'article | D min. | dw | LT | f | Typ | kg | IK | | | |
|----------------------------------|--------|----|----|----|-----|------|----|------------|--------------|------|
| DTC-D25-SXUNL-0904 | 32 | 25 | 22 | 17 | 1 | 0,19 | ✓ | XNMG 0904_ | TS 30080I/HG | T 9 |
| DTC-D32-SXUNL-1105 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | XNMG 1105_ | TS 40G110I | T 15 |
| DTC-D25-SXUNR-0904 | 32 | 25 | 22 | 17 | 1 | 0,19 | ✓ | XNMG 0904_ | TS 30080I/HG | T 9 |
| DTC-D32-SXUNR-1105 | 40 | 32 | 32 | 22 | 2 | 0,22 | ✓ | XNMG 1105_ | TS 40G110I | T 15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

FLEXTURN QE1 SDJCR
 QE1 SDJCR

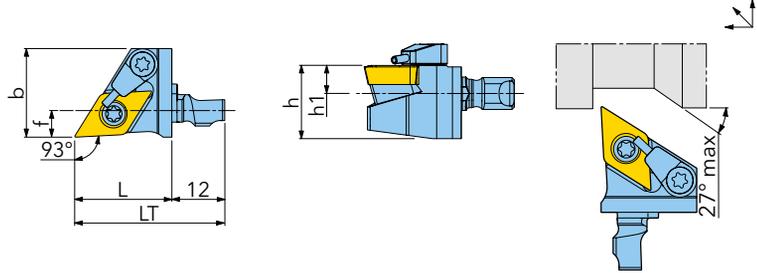
MODULAR HEAD FOR EXTERNAL TURNING ON SWISS MACHINES, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
TÊTE MODULAIRE POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----------|-----------|------|
| QE1 SDJCR 11 | 34,0 | 22,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | DC_11T3_ | SO 35080I | T 15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

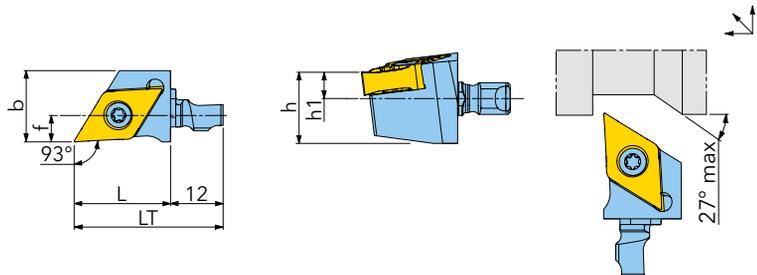
MODULAR HEAD FOR EXTERNAL TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | IK | | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----|----------|-----------|-----|---------|
| QE1 SDJCR 11-TB | 34,0 | 22,0 | 7,0 | 93 | 16,5 | 6,0 | 20,0 | 0,060 | ✓ | DC_11T3_ | SO 35080I | T15 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

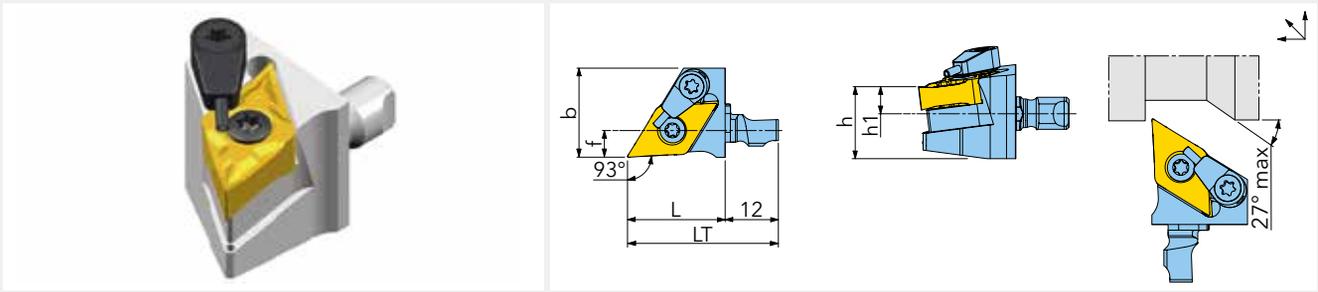
MODULAR HEAD FOR EXTERNAL TURNING ON SWISS MACHINES, FOR NEGATIVE 55° DN_ INSERTS
TÊTE MODULAIRE POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|-----------|----------------|-----|
| QE1 SDJNR 0803 | 34,0 | 22,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | DN_X0803_ | TS 25D060/HG-P | T7P |
| QE1 SDJNR 1305 | 34,0 | 22,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | DN_G1305_ | TS 40G110I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

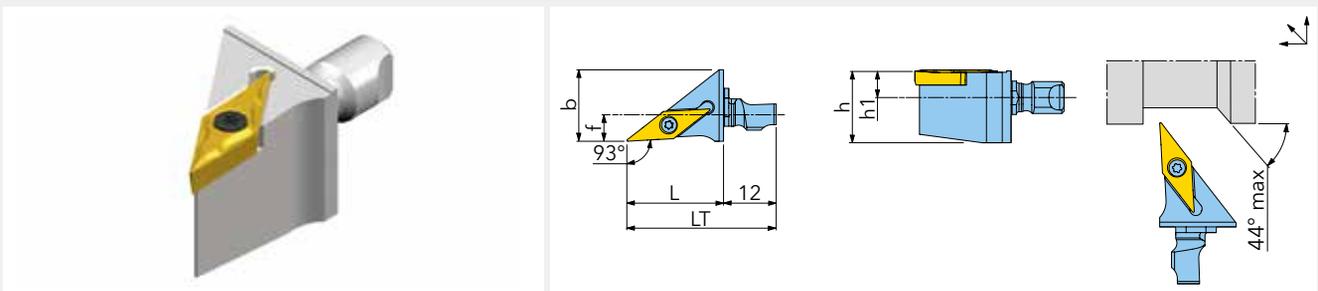
MODULAR HEAD FOR EXTERNAL TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES, FOR NEGATIVE 55° DN_ INSERTS
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES DN_ NÉGATIVES 55°



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | IK | | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----|------------|----------------|-----|---------|
| QE1 SDJNR 0803-TB | 34,0 | 22,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | ✓ | DN_X 0803_ | TS 25D060/HG-P | T7P | S-CU-TB |
| QE1 SDJNR 1305-TB | 34,0 | 22,0 | 7,0 | 93 | 16,2 | 6,0 | 20,0 | 0,055 | ✓ | DN_G 1305_ | TS 40G110I | T15 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

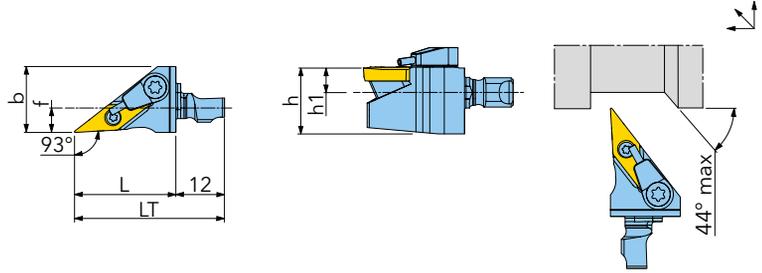
MODULAR HEAD FOR EXTERNAL TURNING ON SWISS MACHINES, FOR POSITIVE VB_ INSERTS
TÊTE MODULAIRE POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|-----------|-----------|----|
| QE1 SVJBR 11 | 37,0 | 25,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | VB_ 11T3_ | SO 25050I | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

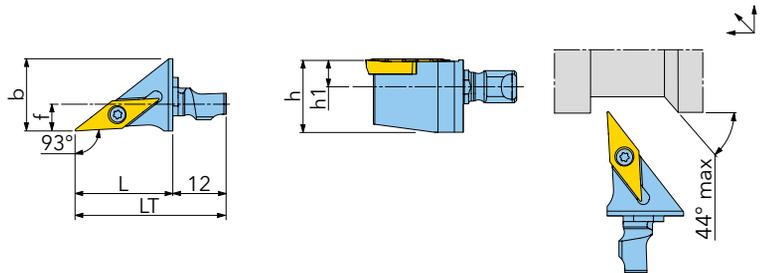
MODULAR HEAD FOR EXTERNAL TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES, FOR POSITIVE VB_ INSERTS
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TOURNAGE SUR TOUR À DÉCOLLETE, POUR PLAQUETTES VB_ POSITIVES 35°, 5° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | IK | | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----|----------|-----------|----|---------|
| QE1 SVJBR 11-TB | 37,0 | 25,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | ✓ | VB_11T3_ | SO 250501 | T7 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

MODULAR HEAD FOR EXTERNAL TURNING ON SWISS MACHINES, FOR POSITIVE VC_ INSERTS
TÊTE MODULAIRE POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE

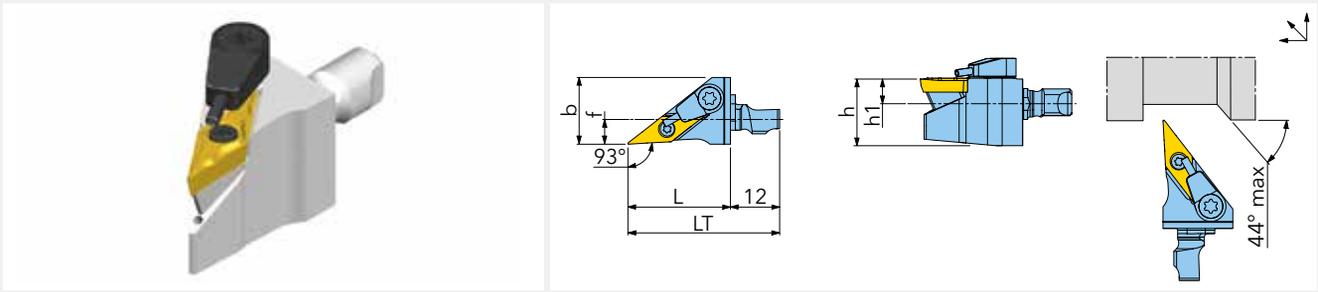


| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----------|-----------|----|
| QE1 SVJCR 11 | 37,0 | 25,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | VC_1103_ | SO 250651 | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

FLEXTURN QE1 SVJCR-TB
QE1 SVJCR-TB

MODULAR HEAD FOR EXTERNAL TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES, FOR POSITIVE VC_ INSERTS
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TOURNAGE SUR TOUR À DÉCOLLETER, POUR PLAQUETTES VC_ POSITIVES 35°, 7° DE DÉPOUILLE

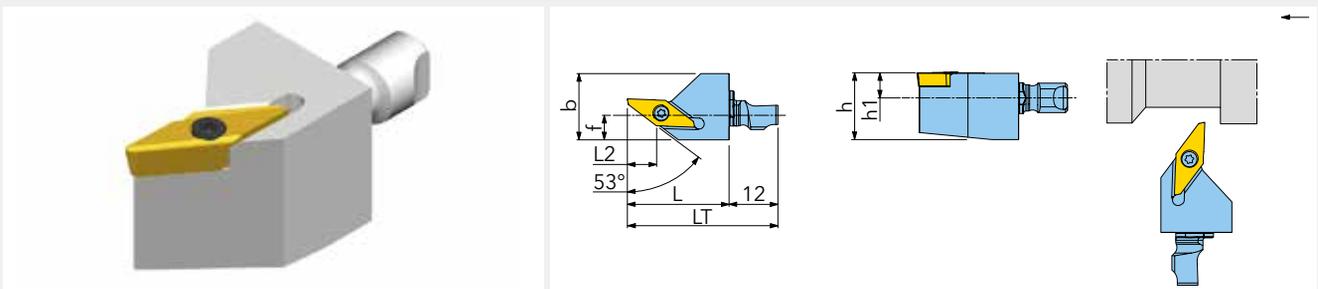


| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | IK | | | | |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----|-----------|-----------|----|---------|
| QE1 SVJCR 11-TB | 37,0 | 25,0 | 7,0 | 93 | 16,2 | 6,0 | 16,2 | 0,055 | ✓ | VC_ 1103_ | SO 250651 | T7 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

FLEXTURN QE1B SVXCR
QE1B SVXCR

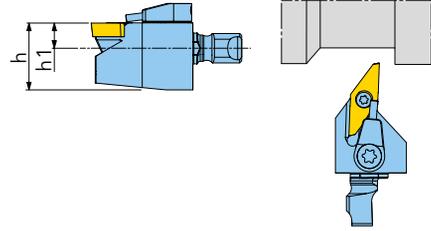
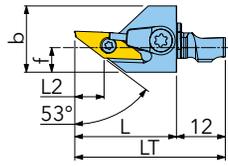
MODULAR HEAD FOR EXTERNAL BACK TURNING ON SWISS MACHINES
TÊTE MODULAIRE POUR LE CHARRIOTAGE EN TIRANT SUR TOUR À DÉCOLLETER



| Designation Réf. de l'article | LT | L | L2 | f | κ | h | h1 | b | kg | | | |
|----------------------------------|------|------|-----|-----|----|------|-----|------|-------|------------|-----------|----|
| QE1B SVXCR 11 | 37,0 | 25,0 | 7,2 | 3,0 | 53 | 16,2 | 6,0 | 16,2 | 0,050 | BTVC 1103_ | SO 250651 | T7 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

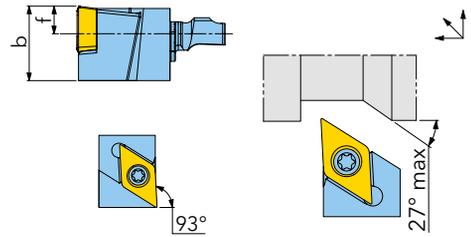
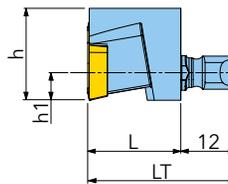
MODULAR HEAD FOR EXTERNAL BACK TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE CHARRIOTAGE EN TIRANT SUR TOUR À DÉCOLLETER



| Designation Réf. de l'article | LT | L | L2 | f | κ | h | h1 | b | kg | IK | BTVC 1103_ | SO 25065I | T7 | S-CU-TB |
|----------------------------------|------|------|-----|-----|----------|------|-----|------|-------|----|------------|-----------|----|---------|
| QE1B SVXCR 11-TB | 37,0 | 25,0 | 7,2 | 3,0 | 53 | 16,2 | 6,0 | 16,2 | 0,050 | ✓ | BTVC 1103_ | SO 25065I | T7 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

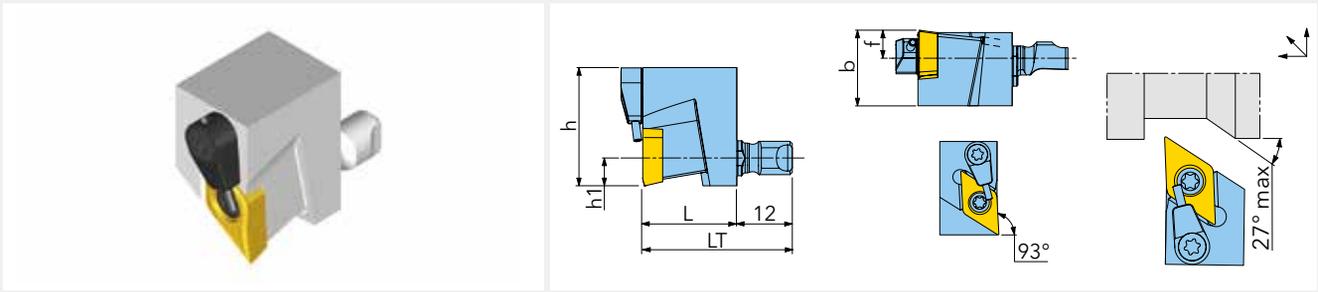
MODULAR HEAD FOR Y-AXIS TURNING ON SWISS MACHINES, FOR POSITIVE 55° DC_ INSERTS - 7° CLEARANCE
TÊTE MODULAIRE POUR LE TOURNAGE AXE-Y SUR TOUR À DÉCOLLETER, POUR PLAQUETTES POSITIVES DC_ 55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | DC_ 11T3_ | SO 35080I | T15 |
|----------------------------------|------|------|-----|----------|------|-----|------|-------|-----------|-----------|-----|
| QE1Y SDJCR 11 | 32,0 | 20,0 | 7,0 | 93 | 20,0 | 6,0 | 16,2 | 0,060 | DC_ 11T3_ | SO 35080I | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

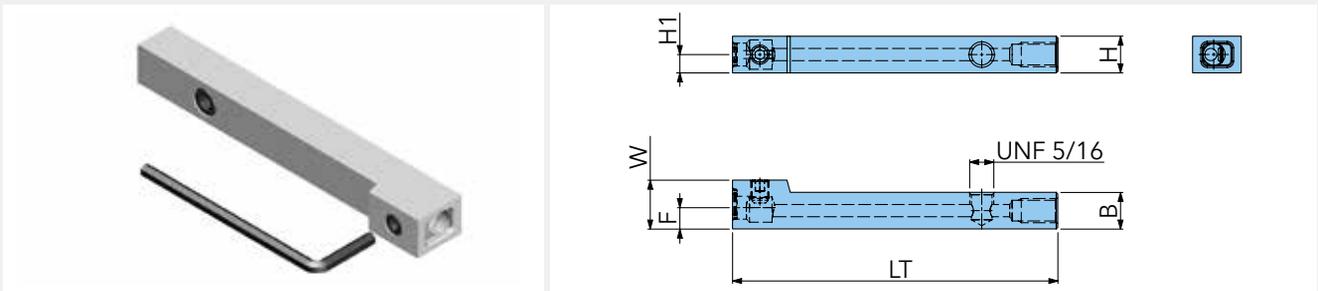
MODULAR HEAD FOR Y-AXIS TURNING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES, FOR POSITIVE 55° DC_INSERTS - 7° CLEARANCE
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TOURNAGE AXE-Y SUR TOUR À DÉCOLLETER, POUR PLAQUETTES POSITIVES DC_55°, 7° DE DÉPOUILLE



| Designation Réf. de l'article | LT | L | f | κ | h | h1 | b | kg | IK | 55° | ① | ② | ③ |
|----------------------------------|------|------|-----|----|------|-----|------|-------|----|----------|-----------|------|---------|
| QE1Y SDJCR 11-TB | 32,0 | 20,0 | 7,0 | 93 | 25,5 | 6,0 | 16,2 | 0,060 | ✓ | DC_11T3_ | SO 350801 | T 15 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Coolant unit / Buse d'arrosage

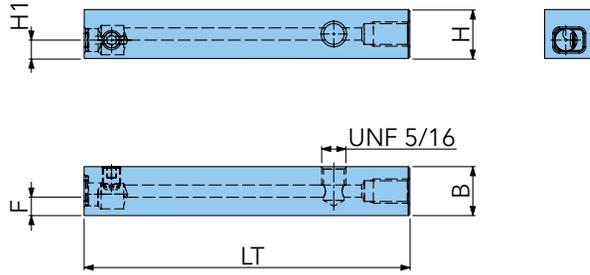
SHANK FOR HIGH-PRESSURE COOLANT TYPE SWISS MACHINES
PORTE-OUTIL AVEC ARROSAGE HAUTE PRESSION POUR LES TOURS À DÉCOLLETER



| Designation Réf. de l'article | LT | H | H1 | B | f | W | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|-------|------|-----|------|-----|------|-------|----|----------|---------|--------------|---------|
| QE1 S12N-TB | 107,0 | 12,0 | 6,0 | 12,0 | 7,0 | 16,0 | 0,170 | ✓ | SS M6F-7 | WS-0060 | PLG 5/16 UNF | LW 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Plug / Tube ④ = Wrench / Clé de serrage

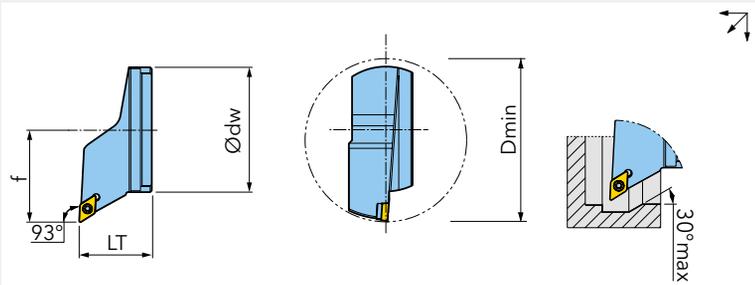
SHANK FOR HIGH-PRESSURE COOLANT TYPE SWISS MACHINES
PORTE-OUTIL AVEC ARROSAGE HAUTE PRESSION POUR LES TOURS À DÉCOLLETER



| Designation Réf. de l'article | LT | H | H1 | B | f | W | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|-------|------|-----|------|-----|------|-------|----|----------|---------|--------------|----------|
| QE1 S16L-TB | 107,0 | 16,0 | 6,0 | 16,0 | 7,0 | 16,0 | 0,170 | ✓ | SS M6F-7 | WS-0060 | PLG 5/16 UNF | L-W 5/32 |
| QE1 S16R-TB | 107,0 | 16,0 | 6,0 | 16,0 | 7,0 | 16,0 | 0,170 | ✓ | SS M6F-7 | WS-0060 | PLG 5/16 UNF | L-W 5/32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Plug / Tube ④ = Wrench / Clé de serrage

MODULAR SCREW TYPE HEAD FOR ANTI-VIBRATION BORING BAR D80
TÊTE MODULAIRE POUR BARRE D'ALÉSAGE ANTI-VIBRATOIRE D80

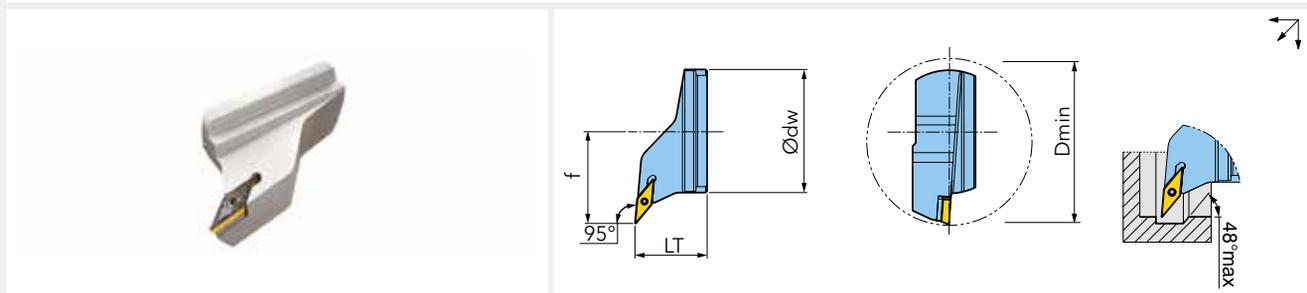


| Designation Réf. de l'article | D min. | dw | LT | f | kg | IK |
|----------------------------------|--------|----|----|----|------|----|
| DTC-D80-SDUCL-11 | 100 | 80 | 45 | 57 | 0,58 | ✓ |
| DTC-D80-SDUCR-11 | 100 | 80 | 45 | 57 | 0,58 | ✓ |

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | |
|----------------------------------|----------|-------------|----------|---------|-------------|--------|------|--------|
| DTC-D80-SDUCL-11 | DC_T11T3 | SR 16-236 P | TDC 3-1P | SRTC-3P | SH M3X0.5X6 | T-15/5 | LW 4 | LW 2.5 |
| DTC-D80-SDUCR-11 | DC_T11T3 | SR 16-236 P | TDC 3-1P | SRTC-3P | SH M3X0.5X6 | T-15/5 | LW 4 | LW 2.5 |

① = Insert screw / Vis de serrage plaquette ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Clamp screw / Vis de serrage
⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

MODULAR SCREW TYPE HEAD FOR ANTI-VIBRATION BORING BAR D80
TÊTE MODULAIRE POUR BARRE D'ALÉSAGE ANTI-VIBRATOIRE D80

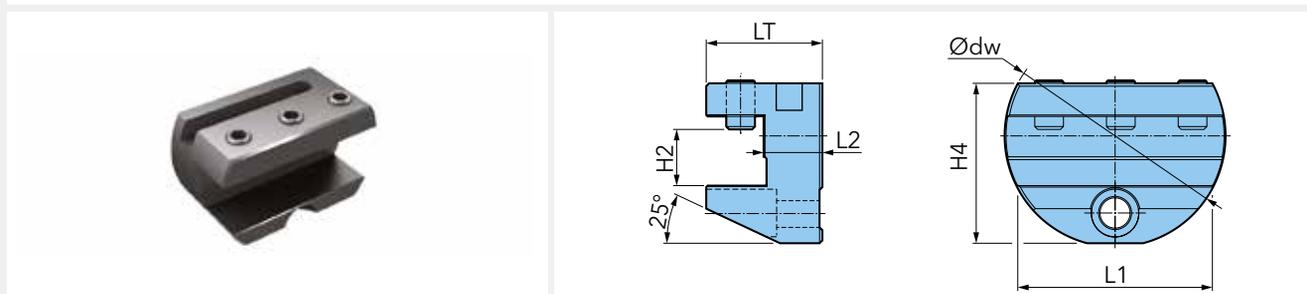


| Designation Réf. de l'article | D min. | dw | LT | f | kg | IK |
|----------------------------------|--------|----|----|----|------|----|
| DTC-D80-SVLCL-16 | 100 | 80 | 45 | 57 | 0,58 | ✓ |
| DTC-D80-SVLCR-16 | 100 | 80 | 45 | 57 | 0,58 | ✓ |

| Designation Réf. de l'article | | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|----------------------------------|----------|-------------|----------|----------|-------------|--------|-------|---------|
| DTC-D80-SVLCL-16 | VC_T1604 | SR 16-236 P | TVC 3-1P | SR TC-3P | SH M3X0.5X6 | T-15/5 | L-W 4 | L-W 2.5 |
| DTC-D80-SVLCR-16 | VC_T1604 | SR 16-236 P | TVC 3-1P | SR TC-3P | SH M3X0.5X6 | T-15/5 | L-W 4 | L-W 2.5 |

① = Insert screw / Vis de serrage plaque ② = Shim / Assise de protection ③ = Clamp screw / Vis de serrage ④ = Clamp screw / Vis de serrage
 ⑤ = Wrench / Clé de serrage ⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

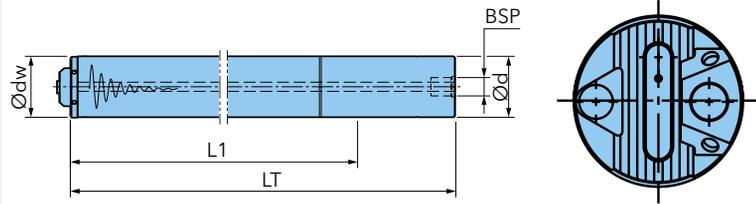
SHANK HOLDER FOR ANTI-VIBRATION BORING BAR D80
PORTE-OUTIL POUR BARRE D'ALÉSAGE ANTI-VIBRATOIRE D80



| Designation Réf. de l'article | dw | LT | L1 | L2 | H2 | H4 | kg | ① | ② |
|----------------------------------|----|------|------|------|------|------|-------|------------------|-------|
| DTC-D80-2020-VH | 80 | 40,5 | 67,8 | 20,5 | 20,0 | 55,5 | 0,835 | SR M10X16 DIN913 | L-W 6 |

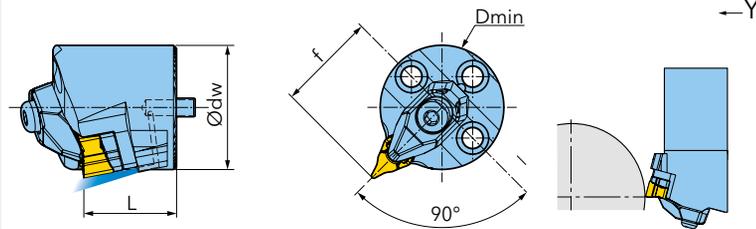
① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

ANTI-VIBRATION BARS WITH THROUGH COLLANT FOR INTERCHANGEABLE TURNING HEADS
BARRES ANTI-VIBRATOIRES AVEC ARROSAGE INTÉGRÉ POUR TÊTES INTERCHANGEABLES



| Designation Réf. de l'article | d | dw | LT | L | BSP | kg | IK |
|----------------------------------|----|----|------|-----|-------|-------|----|
| DTA-D80-7D-C | 80 | 80 | 880 | 515 | G3/4" | 41,52 | ✓ |
| DTA-D80-10D-C | 80 | 80 | 1200 | 755 | G3/4" | 61,97 | ✓ |

INTERCHANGEABLE TURNING HEAD FOR Y-AXIS, FOR NEGATIVE ZNMV INSERTS
TÊTE DE TOURNAGE INTERCHANGEABLE POUR AXE-Y, POUR PLAQUETTES NÉGATIVES ZNMW

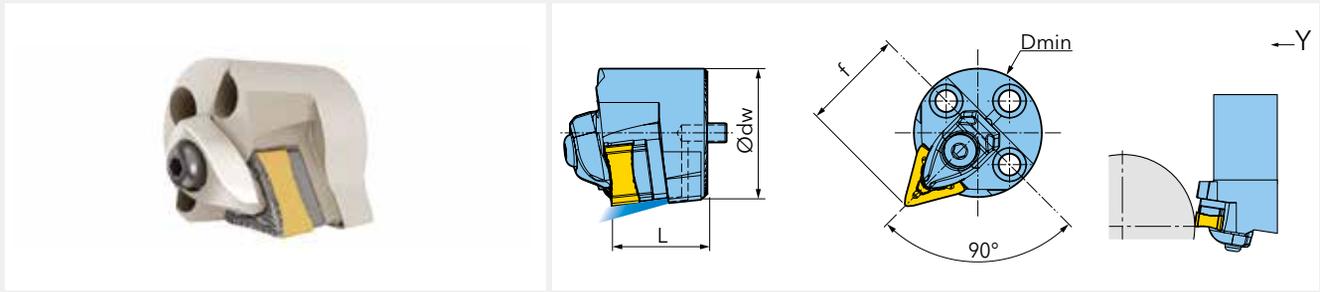


| Designation Réf. de l'article | D min. | dw | L | f | kg | IK |
|----------------------------------|--------|----|----|----|-------|----|
| DTC-D40Y-TZXNN-1410-TB | 40 | 40 | 30 | 32 | 0,335 | ✓ |

| Designation Réf. de l'article | | | | | | | | |
|----------------------------------|------------|-------------|-------|-------|------------|--------------|------|-----|
| DTC-D40Y-TZXNN-1410-TB | ZNMV 1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 350831/HG | LW 4 | T10 |

① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

INTERCHANGEABLE TURNING HEAD FOR Y-AXIS, FOR NEGATIVE 60° TNMV INSERTS
TÊTE DE TOURNAGE INTERCHANGEABLE POUR AXE-Y, POUR PLAQUETTES TNMV NÉGATIVES 60°

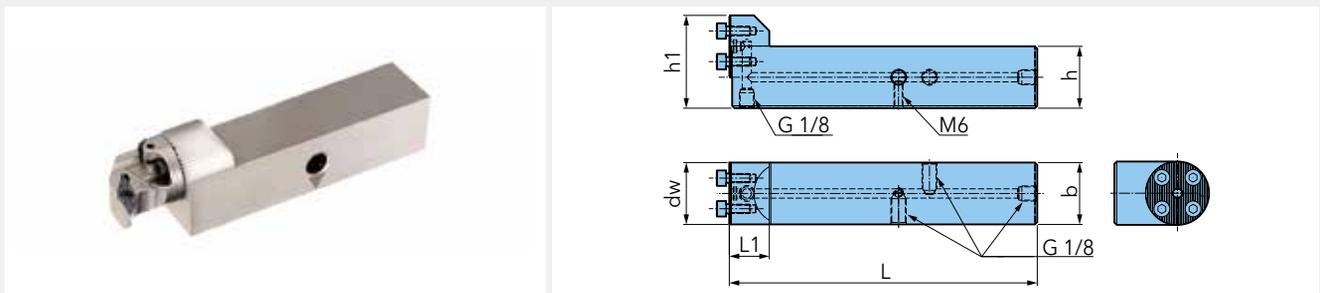


| Designation Réf. de l'article | D min. | dw | L | f | kg | IK |
|----------------------------------|--------|----|----|----|-------|----|
| DTC-D40Y-TTXNN-2109-TB | 40 | 40 | 30 | 32 | 0,335 | ✓ |

| Designation Réf. de l'article | TNMV 2109_ | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|----------------------------------|------------|-------------|-------|-------|-------------|--------------|------|------|
| DTC-D40Y-TTXNN-2109-TB | TNMV 2109_ | DLM 4.4F-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | LW 4 | T 10 |

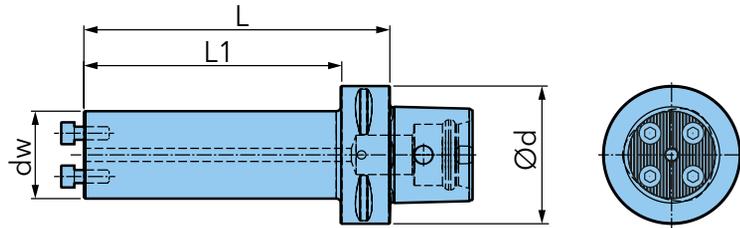
① = Clamp / Bride ② = Clamp screw / Vis de serrage ③ = Spring / Ressort ④ = Shim / Assise de protection ⑤ = Clamp screw / Vis de serrage
⑥ = Wrench / Clé de serrage ⑦ = Wrench / Clé de serrage

SQUARE SHANK FOR INTERCHANGEABLE TURNING HEADS
PORTE-OUTIL CARRÉ POUR TÊTES DE TOURNAGE INTERCHANGEABLES



| Designation Réf. de l'article | dw | L | L1 | h | h1 | b | BSP | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|----|-----|----|----|------|----|------|-------|----|----------------|--------|---------------|---------|
| DTA-2020N-D20-TB | 20 | 92 | 21 | 20 | 30 | 20 | G1/8 | 0,315 | ✓ | SH M3.5X0.6X10 | RSS M6 | PLG G1/8-L6.5 | LW 2.5 |
| DTA-2020N-D25-TB | 25 | 92 | 21 | 20 | 32,5 | 20 | G1/8 | 0,315 | ✓ | SH M4x0.7x12 | RSS M6 | PLG G1/8-L6.5 | WS-0060 |
| DTA-2020N-D32-TB | 32 | 92 | 21 | 20 | 36 | 20 | G1/8 | 0,315 | ✓ | SH M5x0.8x12 | RSS M6 | PLG G1/8-L6.5 | LW 4 |
| DTA-2525N-D25-TB | 25 | 107 | 21 | 25 | 37,5 | 25 | G1/8 | 0,420 | ✓ | SH M4x0.7x12 | RSS M6 | PLG G1/8-L6.5 | WS-0060 |
| DTA-2525N-D32-TB | 32 | 107 | 21 | 25 | 41 | 25 | G1/8 | 0,420 | ✓ | SH M5x0.8x12 | RSS M6 | PLG G1/8-L6.5 | LW 4 |
| DTA-2525N-D40-TB | 40 | 107 | 21 | 25 | 45 | 25 | G1/8 | 0,420 | ✓ | SH M6x1x16 | RSS M6 | PLG G1/8-L6.5 | LW 5 |
| DTA-3232N-D32-TB | 32 | 152 | 21 | 32 | 48 | 32 | G1/8 | 0,550 | ✓ | SH M5x0.8x12 | - | PLG G1/8-L6.5 | LW 4 |
| DTA-3232N-D40-TB | 40 | 152 | 26 | 32 | 52 | 32 | G1/8 | 0,550 | ✓ | SH M6x1x16 | - | PLG G1/8-L6.5 | LW 5 |
| DTA-4040N-D40-TB | 40 | 200 | 26 | 40 | 60 | 40 | G1/8 | 0,610 | ✓ | SH M6x1x16 | - | PLG G1/8-L6.5 | LW 5 |

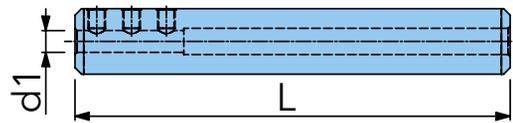
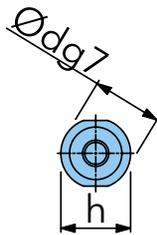
① = Clamp screw / Vis de serrage ② = Set screw / Vis de réglage ③ = Plug / Tube ④ = Wrench / Clé de serrage

C-ADAPTER SHANK FOR INTERCHANGEABLE TURNING HEADS
PORTE-OUTIL C-ADAPTER POUR TÊTES DE TOURNAGE INTERCHANGEABLES


| Designation Réf. de l'article | d | dw | L | L1 | kg | IK | ① | ② |
|----------------------------------|----|----|-----|-----|-------|----|----------------|---------|
| C4-DTA-16A-2.5D | 40 | 16 | 40 | 20 | 0,310 | ✓ | SH M3X0.5X10 | LW 2.5 |
| C4-DTA-20A-2.5D | 40 | 20 | 50 | 30 | 0,345 | ✓ | SH M3.5X0.6X10 | LW 2.5 |
| C4-DTA-25A-2.5D | 40 | 25 | 55 | 35 | 0,405 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C4-DTA-32A-2.5D | 40 | 32 | 75 | 55 | 0,615 | ✓ | SH M5x0.8x12 | LW 4 |
| C4-DTA-40A-3D | 40 | 40 | 80 | 80 | 0,845 | ✓ | SH M6x1x16 | LW 5 |
| C5-DTA-16A-2.5D | 50 | 16 | 40 | 20 | 0,510 | ✓ | SH M3X0.5X10 | LW 2.5 |
| C5-DTA-20A-2.5D | 50 | 20 | 50 | 30 | 0,580 | ✓ | SH M3.5X0.6X10 | LW 2.5 |
| C5-DTA-25A-2.5D | 50 | 25 | 55 | 35 | 0,645 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C5-DTA-32A-2.5D | 50 | 32 | 75 | 55 | 0,825 | ✓ | SH M5x0.8x12 | LW 4 |
| C5-DTA-40A-3D | 50 | 40 | 100 | 80 | 1,265 | ✓ | SH M6x1x16 | LW 5 |
| C6-DTA-16A-2.5D | 63 | 16 | 40 | 18 | 0,865 | ✓ | SH M3X0.5X10 | LW 2.5 |
| C6-DTA-20A-2.5D | 63 | 20 | 50 | 28 | 0,900 | ✓ | SH M3.5X0.6X10 | LW 2.5 |
| C6-DTA-25A-2.5D | 63 | 25 | 65 | 43 | 0,980 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C6-DTA-32A-3D | 63 | 32 | 90 | 68 | 1,235 | ✓ | SH M5x0.8x12 | LW 4 |
| C6-DTA-32A-4D | 63 | 32 | 125 | 103 | 1,445 | ✓ | SH M5x0.8x12 | LW 4 |
| C6-DTA-40A-3D | 63 | 40 | 100 | 78 | 1,580 | ✓ | SH M6x1x16 | LW 5 |
| C6-DTA-40A-4D | 63 | 40 | 140 | 118 | 1,965 | ✓ | SH M6x1x16 | LW 5 |
| C6-DTA-16E-5D | 63 | 16 | 80 | 58 | 0,945 | ✓ | SH M3X0.5X10 | LW 2.5 |
| C6-DTA-20E-5D | 63 | 20 | 100 | 78 | 1,065 | ✓ | SH M3.5X0.6X10 | LW 2.5 |
| C6-DTA-25E-5D | 63 | 25 | 115 | 93 | 1,265 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C6-DTA-32E-5D | 63 | 32 | 150 | 128 | 1,750 | ✓ | SH M5x0.8x12 | LW 4 |
| C6-DTA-40E-5D | 63 | 40 | 185 | 163 | 2,635 | ✓ | SH M6x1x16 | LW 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

ADAPTION FOR CARBIDE SHANK TOOL HOLDER
ADAPTATEUR POUR GRAINS CARBURE

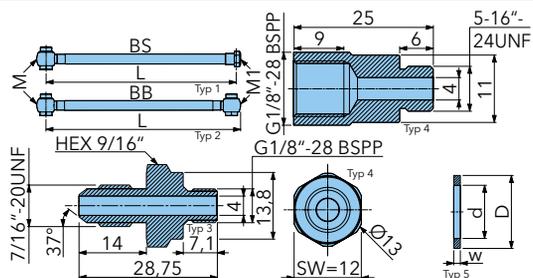


| Designation Réf. de l'article | D | d1 | L | h | kg | ① | ② |
|----------------------------------|----|----|-----|----|-------|-------------|------|
| TSL 16-04 | 16 | 4 | 100 | 15 | 0,135 | SS M4X0.7X4 | LW 2 |
| TSL 16-05 | 16 | 5 | 100 | 15 | 0,135 | SS M4X0.7X4 | LW 2 |
| TSL 16-06 | 16 | 6 | 100 | 15 | 0,125 | SS M4X0.7X4 | LW 2 |
| TSL 16-07 | 16 | 7 | 100 | 15 | 0,115 | SS M4X0.7X4 | LW 2 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

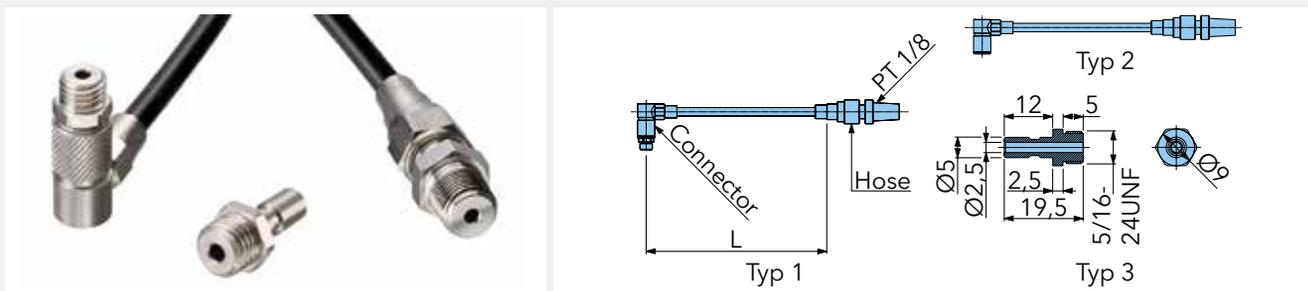
TBURST TB ACCESSORIES
TB ACCESSORIES

COOLANT HOSE / ADAPTER / SEAL WASHER
FLEXIBLE DE REFROIDISSEMENT / ADAPTATEUR / RONDELLE D'ETANCHEITE



| Designation Réf. de l'article | D | d | L | xs | N | W | Y | Typ | n max. |
|----------------------------------|----|----|-----|----|----------------|---|----------------|-----|--------|
| TB HOSE G1/8-G1/8-200BB | - | - | 200 | - | G 1/8"-28 BSPP | - | 7/16'-20 UNF | 1 | 260 |
| TB HOSE G1/8-G1/8-250BB | - | - | 250 | - | G 1/8"-28 BSPP | - | 7/16'-20 UNF | 1 | 260 |
| TB HOSE G1/8-7/16-200BS | - | - | 200 | - | G 1/8"-28 BSPP | - | G 1/8"-28 BSPP | 2 | 260 |
| TB HOSE G1/8-7/16-250BS | - | - | 250 | - | G 1/8"-28 BSPP | - | G 1/8"-28 BSPP | 2 | 260 |
| TB HOSE 5/16-G1/8-200BS | - | - | 200 | - | 5/16"-24 UNF | - | 7/16'-20 UNF | 1 | 200 |
| TB HOSE 5/16-7/16-200BS | - | - | 200 | - | 5/16"-24 UNF | - | G 1/8"-28 BSPP | 1 | 200 |
| TB NIPPLE G1/8-7/16 UNF | - | - | - | - | - | - | - | 3 | - |
| TB CONECTOR 5/16" G1/8" | 13 | - | - | 12 | - | - | - | 4 | - |
| TB COPPER SEAL 1/8" | 15 | 10 | - | - | - | 1 | - | 5 | - |
| TB COPPER SEAL 5/16" | 12 | 8 | - | - | - | 1 | - | 5 | - |

SET / HOSE / CONNECTOR
KITS / FLEXIBLES / RACCORDS



| Designation Réf. de l'article | L | Typ | n max. |
|----------------------------------|-----|-----|--------|
| S-TB Hose R1/8-COUPLE-200 | 200 | 1 | 140 |
| S-TB Hose R1/8-COUPLE-300 | 300 | 1 | 140 |
| Hose R1/8-COUPLE-200 | 200 | 2 | 140 |
| Hose R1/8-COUPLE-300 | 300 | 2 | 140 |
| TB CONNECTOR 5/16-Couple | - | 3 | - |



GROOVING INSERTS / PLAQUETTES A GORGE

| | Designation / Désignation | Description / Description | Page |
|---|--|---|------|
|  | WINCUT SFC | Single ended inserts, with "C" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 368 |
|  | WINCUT SFJ | Single ended inserts, with "J" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "J" | 368 |
|  | RHINOGROOVE RDC | Double ended inserts, with "C" type chipbreaker for Parting and Grooving / Plaquettes double coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 369 |
|  | RHINOGROOVE RSC | Single ended inserts, with "C" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 369 |
|  | RHINOGROOVE RDJ | Double ended inserts, with "J" type chipbreaker for Parting and Grooving / Plaquettes double coupe, Tronçonnage et gorges avec brise-copeaux type "J" | 370 |
|  | RHINOGROOVE RSJ | Single ended inserts, with "J" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 370 |
|  | TCLAMP^{ULTRA+} TSG HF | CBN inserts for high feed turning / Plaquettes CBN pour le tournage grande avance | 371 |
|  | WINGROOVE TMIR/L | Precise inserts for internal shallow grooving on small diameter / Plaquettes de précision pour les gorges internes peu profondes dans des petits diamètres | 372 |
|  | TCLAMP^{ULTRA+} TDJ | Double ended inserts, with "J" type chipbreaker for Parting and Grooving / Plaquettes double coupe, Tronçonnage et gorges avec brise-copeaux type "J" | 373 |
|  | TCLAMP^{ULTRA+} TSJ | Single ended inserts, with "J" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "J" | 374 |
|  | TCLAMP^{ULTRA+} TDC | Double ended inserts, with "C" type chipbreaker for Parting and Grooving / Plaquettes double coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 375 |
|  | TCLAMP^{ULTRA+} TSC | Single ended inserts, with "C" type chipbreaker for Parting and Grooving / Plaquettes simple coupe, Tronçonnage et gorges avec brise-copeaux type "C" | 376 |
|  | TCLAMP^{ULTRA+} TDUF | Double-ended inserts for shallow grooving and parting with "UF" type chip braeker / Plaquette à 2 arêtes avec brise-copeaux type uf pour le tronçonnage et les gorges | 377 |
|  | TCLAMP^{ULTRA+} TDV | Double-ended inserts for shallow grooving and parting with "V" type chip braeker / Plaquette à 2 arêtes avec brise-copeaux type v pour le tronçonnage et les gorges | 377 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING INSERTS / PLAQUETTES A GORGE

| | Designation / Désignation | Description / Description | Page |
|---|--|--|------|
|  | TCLAMP^{ULTRA+} TDXC-E | Double-ended inserts, for grooving, turning, face grooving and parting / Plaquettes à 2 arêtes, pour tronçonnage et gorges, tournage et gorges frontales | 378 |
|  | TCLAMP^{ULTRA+} TDXU-E | Pressed inserts, for External, Internal, Face Turning, Grooving and Parting / Plaquettes brut de frittage économique, Tournage, tronçonnage et gorges externes, internes et fontales | 378 |
|  | TCLAMP^{ULTRA+} TDXT-E | Precision inserts, for multi functional turning and grooving / Plaquettes de précision, multi-fonction tournage et gorges | 379 |
|  | TCLAMP^{ULTRA+} TDXY-E | Double-ended inserts for grooving, turning and face grooving / Plaquettes à 2 arêtes pour le tournage, les gorges externes et gorges frontales | 379 |
|  | TCLAMP^{ULTRA+} TDT,00E | Precision inserts, for External Turning and Grooving / Plaquettes de précision, Tournage et gorges externes | 380 |
|  | TCLAMP^{ULTRA+} TDT-E | Pressed inserts, for External Turning and Grooving / Plaquettes brut de frittage économique, Tournage et gorges externes | 381 |
|  | TCLAMP^{ULTRA+} TDT | Precision inserts, for External Turning and Grooving / Plaquettes de précision, Tournage et gorges externes | 381 |
|  | TCLAMP^{ULTRA+} TDT-E CE | Pressed Ceramic inserts, for External Turning, Grooving and Profiling / Plaquettes céramiques brut de frittage, Tournage et gorges externes | 382 |
|  | TCLAMP^{ULTRA+} TDT-RS (Full-Radius) TDT-RS (HEMISPHERIQUE) | Precision round type for turning, grooving and profiling / Plaquelette de précision hémisphérique pour le tournage, gorge et copiage | 382 |
|  | TCLAMP^{ULTRA+} TDT-RU (Full-Radius) TDT-RU (HEMISPHERIQUE) | Pressed inserts, for External Turning, Grooving and Profiling / Plaquettes brut de frittage économique, Tournage, gorges et copiage externe | 383 |
|  | TCLAMP^{ULTRA+} TDT-E (Full-Radius) TDT-E (HEMISPHERIQUE) | Precision inserts, for External Turning, Grooving and Profiling / Plaquettes de précision, Tournage, gorges et copiage externe | 383 |
|  | TCLAMP^{ULTRA+} TDIT-E (Full-Radius) TDIT-E (hemispherique) | Precision inserts, for Internal Turning, Grooving and Profiling / Plaquettes de précision, Tournage, gorges et copiage interne | 384 |
|  | TCLAMP^{ULTRA+} TST-E (Full-Radius) TST-E (HEMISPHERIQUE) | Precision inserts for External Turning, Grooving and Profiling / Plaquettes de précision Tournage, gorges et copiage externe | 384 |
|  | TCLAMP^{ULTRA+} TDA | Double ended inserts, for Aluminum wheel machining / Plaquettes double coupe, Usinage des jantes en aluminium | 385 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING INSERTS / PLAQUETTES A GORGE

| | Designation / Désignation | Description / Description | Page |
|---|---|--|------|
|  | TCLAMP^{ULTRA+} TSA | Single ended inserts, for Aluminum wheel machining with PCD Type / Plaquettes simple coupe, Usinage des jantes en aluminium avec insert PCD | 385 |
|  | TCLAMP^{ULTRA+} TDIM-E | Pressed Inserts, for Internal Turning and Grooving / Plaquettes brut de frittage économique, Tournage et gorges | 386 |
|  | TCLAMP^{ULTRA+} TDIP-0.0 | Precision Inserts, for Internal Turning and Grooving / Plaquettes de précision, Tournage et gorges | 387 |
|  | TCLAMP^{XT} TDMV-E | Double-ended inserts, for turning and grooving with V-type shape / Plaquette double arête, pour le tournage et gorges avec forme type V | 388 |
|  | FACE FLEX TDFX-E | Double-ended inserts, for face grooving and turning / Plaquettes double-coupe, pour tournage et gorges frontales | 388 |
|  | FACE FLEX TDGX-MT | Double-ended threading inserts, with 60° partial profile / Plaquettes double-coupe, profil filetage partiel 60° | 389 |
|  | GOLD FLEX TQJ 20 R/L | 4-cutting edge insert, for Precision Grooving, Parting and Recessing / 4 arêtes de coupe, tournage, tronçonnage et pour les matières qui se resserrent | 389 |
|  | GOLD FLEX TQS 20 R/L | 4-cutting edge insert, for precision grooving, straight cutting edges with high positive rake angle / 4 arêtes de coupe, pour des gorges précises, arêtes de coupe droites avec angle de coupe positif | 390 |
|  | GOLD FLEX TQS 20-MT | Threading insert with 4 cutting edges partial profile 60° / 4 arêtes de coupe, pour filetage profil partiel 60° | 391 |
|  | GOLD FLEX TQJ 27-0.50xxx - 27-1.96xxx | 4-cutting edge insert, for Precision Grooving, Parting and Recessing / 4 arêtes de coupe, tournage, tronçonnage et gorges de précision | 392 |
|  | GOLD FLEX TQJ 27-2.00xxx - 27-3.18xxx | 4-cutting edge insert, for Precision Grooving, Parting and Recessing / 4 arêtes de coupe, tournage, tronçonnage et gorges de précision | 393 |
|  | GOLD FLEX TQJ 27 R/L | 4-cutting edge insert, for Precision Grooving, Parting and Recessing / 4 arêtes de coupe, gorges de précision et charriotage | 394 |
|  | GOLD FLEX TQJ 27-CG | 4-cutting edge insert, for circlip and shallow grooving / 4 arêtes de coupe, pour gorges de circlips et gorges peu profondes | 394 |
|  | GOLD FLEX TQC 27 | 4-cutting edge insert, for parting and grooving / 4 arêtes de coupe, pour tournage, tronçonnage et gorges | 395 |

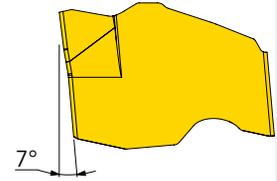
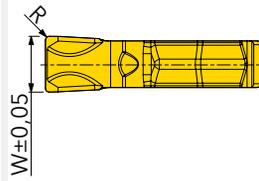
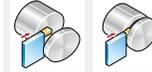
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GROOVING INSERTS / PLAQUETTES A GORGE

| | Designation / Désignation | Description / Description | Page |
|---|--|---|------|
|  | GOLD FLEX TQC 27 R/L | 4-cutting edge insert, for parting / 4 arêtes de coupe, pour tronçonnage | 396 |
|  | GOLD FLEX TQC 27 (full radius) TQC 27 (hémisphérique) | 4-cutting edge insert, for full radius / 4 arêtes de coupe, pour tournage et gorges hemispheriques | 396 |
|  | GOLD FLEX TQS 27 | 4-cutting edge insert, for precision grooving, straight cutting edges with high positive rake angle / 4 arêtes de coupe, pour des gorges précises, arêtes de coupe droites avec angle de coupe positif | 397 |
|  | GOLD FLEX TQS 27-MT | Threading insert with 4 cutting edges partial profile 60° / 4 arêtes de coupe, pour filetage profil partiel 60° | 397 |
|  | GOLD FLEX TQS 27-WT | Threading insert with 4 cutting edges partial profile 55° / 4 arêtes de coupe, pour filetage profil partiel 55° | 398 |
|  | GOLD FLEX TQS 27-ISO | ISO-Threading insert with 4 cutting edges / 4 arêtes de coupe, pour filetage ISO | 398 |
|  | GOLD FLEX TQS 27-W | W-Threading insert with 4 cutting edges / 4 arêtes de coupe, pour filetage type W | 399 |
|  | GOLD FLEX TQC 34 | 4-cutting edge insert, for parting and grooving / 4 arêtes de coupe, pour tournage, tronçonnage et gorges | 400 |
|  | GOLD FLEX TQC 34 R/L | 4-cutting edge insert, for parting / 4 arêtes de coupe, pour tronçonnage | 401 |
|  | GOLD FLEX TQC 34 (full radius) TQC 34 (hémisphérique) | 4-cutting edge insert, for full radius / 4 arêtes de coupe, pour tournage et gorges hemispheriques | 401 |
|  | QUAD FLEX TQIS 14 | 4 cutting edge inserts, for internal shallow grooving / 4 arêtes de coupe, pour gorges interieures | 402 |
| | | | |
| | | | |
| | | | |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

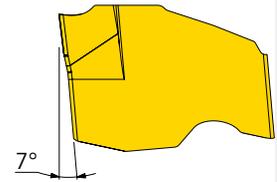
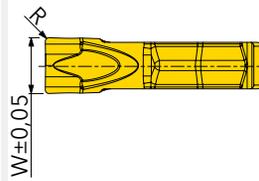
SINGLE ENDED INSERTS, WITH "C" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "C"



| Designation Réf. de l'article | R | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT8020 |
|----------------------------------|-----|----------|----------|-----------------|--------|--------|
| SFC 1.6 | 0,2 | 1,6 | 1 | | | |
| SFC 2 | 0,2 | 2,0 | 2 | | | |
| SFC 3 | 0,2 | 3,0 | 3 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

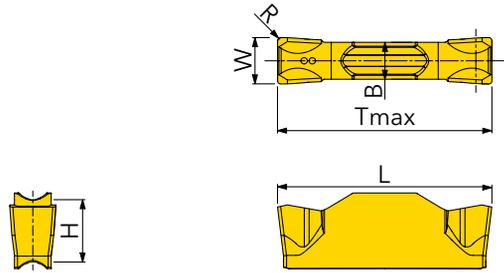
SINGLE ENDED INSERTS, WITH "J" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "J"



| Designation Réf. de l'article | R | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT8020 |
|----------------------------------|-----|----------|----------|-----------------|--------|--------|
| SFJ 2 | 0,2 | 2,0 | 2 | | | |
| SFJ 3 | 0,2 | 3,0 | 3 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

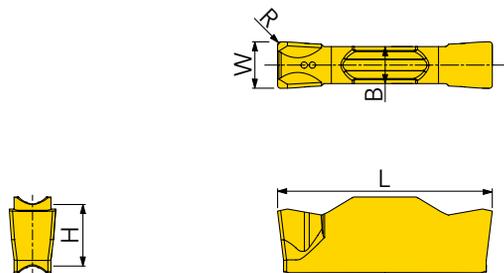
DOUBLE ENDED INSERTS, WITH "C" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES DOUBLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "C"



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 |
|----------------------------------|-----|-----|-----|------|----------|------|----------|-----------------|--------|--------|--------|
| RDC 2 | 0,2 | 1,7 | 4,0 | 14,0 | 2,0 | 13,0 | 2 | | | | |
| RDC 3 | 0,2 | 2,4 | 4,0 | 14,0 | 3,0 | 13,0 | 3 | | | | |
| RDC 4 | 0,3 | 3,0 | 4,0 | 14,0 | 4,0 | 13,0 | 4 | | | | |
| RDC 5 | 0,3 | 4,0 | 5,1 | 17,5 | 5,0 | 17,0 | 5 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

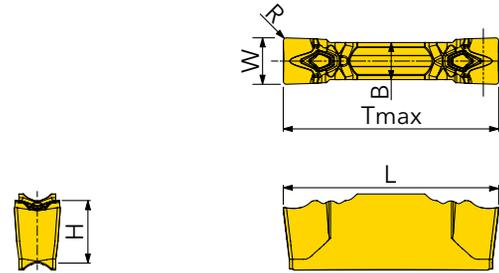
SINGLE ENDED INSERTS, WITH "C" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "C"



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 |
|----------------------------------|-----|-----|-----|------|----------|----------|-----------------|--------|--------|--------|
| RSC 2 | 0,2 | 1,6 | 4,0 | 14,0 | 2,0 | 2 | | | | |
| RSC 3 | 0,2 | 2,4 | 4,0 | 14,0 | 3,0 | 3 | | | | |
| RSC 4 | 0,3 | 3,0 | 4,0 | 14,0 | 4,0 | 4 | | | | |
| RSC 5 | 0,3 | 4,0 | 5,1 | 17,5 | 5,0 | 5 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

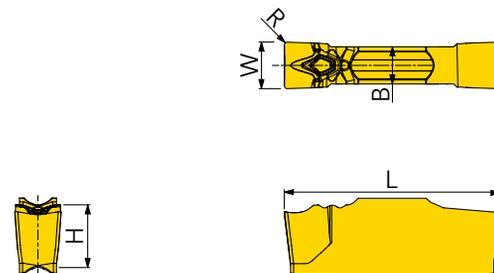
DOUBLE ENDED INSERTS, WITH "J" TYPE CHIPBREAKER FOR PARTING AND GROOVING
 PLAQUETTES DOUBLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "J"



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 |
|----------------------------------|-----|-----|-----|------|----------|------|----------|-----------------|--------|--------|--------|
| RDJ 2 | 0,2 | 1,7 | 4,0 | 14,0 | 2,0 | 13,0 | 2 | | | | |
| RDJ 3 | 0,2 | 2,4 | 4,0 | 14,0 | 3,0 | 13,0 | 3 | | | | |
| RDJ 4 | 0,3 | 3 | 4,0 | 14,0 | 4,0 | 13,0 | 4 | | | | |
| RDJ 5 | 0,3 | 4,0 | 5,2 | 17,5 | 5,0 | 17,0 | 5 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

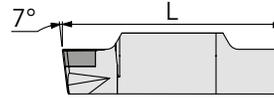
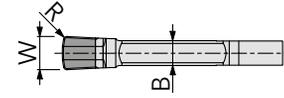
SINGLE ENDED INSERTS, WITH "J" TYPE CHIPBREAKER FOR PARTING AND GROOVING
 PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "J"



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 |
|----------------------------------|-----|-----|-----|------|----------|----------|-----------------|--------|--------|--------|
| RSJ 2 | 0,2 | 1,6 | 4,0 | 14,0 | 2,0 | 2 | | | | |
| RSJ 3 | 0,2 | 2,4 | 4,0 | 14,0 | 3,0 | 3 | | | | |
| RSJ 4 | 0,3 | 3,0 | 4,0 | 14,0 | 4,0 | 4 | | | | |
| RSJ 5 | 0,3 | 4,0 | 5,1 | 17,5 | 5,0 | 5 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

CBN INSERTS FOR HIGH FEED TURNING
PLAQUETTES CBN POUR LE TOURNAGE À GRANDE AVANCE

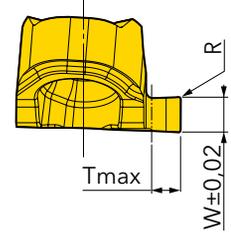
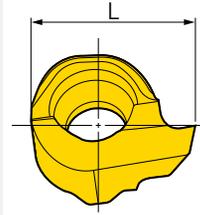
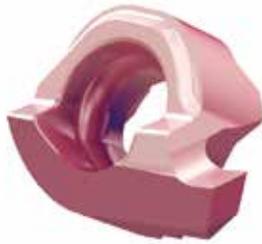


| Designation Réf. de l'article | R | B | H | L | W ± 0,1 | Insert-S | Grade Nuance | TB2015 |
|----------------------------------|-----|-----|-----|----|---------|----------|-----------------|-----------------------|
| TSG 3.0-0.3-HF | 0,3 | 2,2 | 4,0 | 20 | 3,0 | 3 | | <input type="radio"/> |
| TSG 5.0-0.3-HF | 0,3 | 4,0 | 5,1 | 25 | 5,0 | 5 | | <input type="radio"/> |

● = P ● = M ● = K ● = N ● = S ○ = H



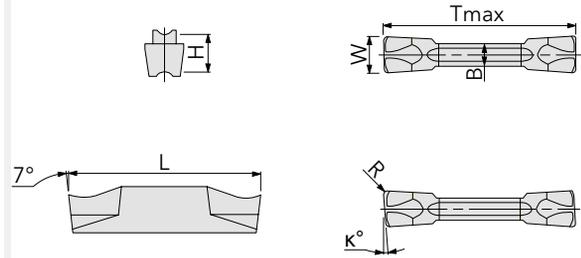
PRECISE INSERTS FOR INTERNAL SHALLOW GROOVING ON SMALL DIAMETER
PLAQUETTES DE PRÉCISION POUR LES GORGES INTERNES PEU PROFONDES DANS DES PETITS DIAMÈTRES



| Designation Réf. de l'article | Z | R | L | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT4430 | TT8020 |
|----------------------------------|---|------|-----|----------|------|----------|-----------------|--------|--------|
| TMIL 6-0.50-0.00 | 1 | 0,00 | 5,7 | 0,50 | 0,5 | 6 | | | |
| TMIL 6-1.00-0.00 | 1 | 0,00 | 5,7 | 1,00 | 1,0 | 6 | | | |
| TMIL 6-1.20-0.05 | 1 | 0,05 | 5,7 | 1,20 | 1,0 | 6 | | | |
| TMIL 8-0.50-0.00 | 1 | 0,00 | 7,4 | 0,50 | 0,7 | 8 | | | |
| TMIL 8-1.00-0.00 | 1 | 0,00 | 7,4 | 1,00 | 1,5 | 8 | | | |
| TMIL 8-1.50-0.05 | 1 | 0,05 | 7,4 | 1,50 | 1,5 | 8 | | | |
| TMIL 8-2.00-0.10 | 1 | 0,10 | 7,4 | 2,00 | 1,5 | 8 | | | |
| TMIR 6-0.50-0.00 | 1 | 0,00 | 5,7 | 0,50 | 0,5 | 6 | | | |
| TMIR 6-1.00-0.00 | 1 | 0,00 | 5,7 | 1,00 | 1,0 | 6 | | | |
| TMIR 6-1.20-0.05 | 1 | 0,05 | 5,7 | 1,20 | 1,0 | 6 | | | |
| TMIR 8-0.50-0.00 | 1 | 0,00 | 7,4 | 0,50 | 0,7 | 8 | | | |
| TMIR 8-1.00-0.00 | 1 | 0,00 | 7,4 | 1,00 | 1,5 | 8 | | | |
| TMIR 8-1.50-0.05 | 1 | 0,05 | 7,4 | 1,5 | 1,5 | 8 | | | |
| TMIR 8-2.00-0.10 | 1 | 0,10 | 7,4 | 2,00 | 1,5 | 8 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

DOUBLE ENDED INSERTS, WITH "J" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES DOUBLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "J"



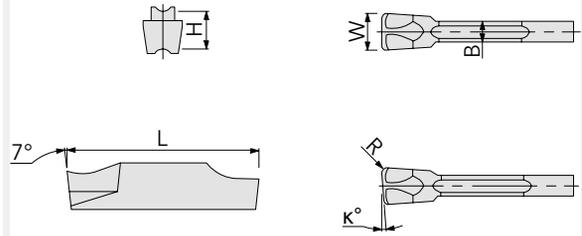
| Designation Réf. de l'article | R | B | H | K | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 | K10 |
|----------------------------------|------|-----|-----|----|------|----------|------|----------|-----------------|--------|--------|--------|-----|
| TDJ 1,4 | 0,16 | 1,0 | 4,0 | - | 16,0 | 1,4 | 15 | 1 | | | | | |
| TDJ 2 | 0,20 | 1,7 | 4,7 | - | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 3 | 0,20 | 2,4 | 4,7 | - | 20,0 | 3,0 | 19 | 3 | | | | | |
| TDJ 4 | 0,30 | 3,0 | 4,7 | - | 20,0 | 4,0 | 19 | 4 | | | | | |
| TDJ 5 | 0,30 | 4,0 | 5,2 | - | 25,0 | 5,0 | 24 | 5 | | | | | |
| TDJ 6 | 0,30 | 5,0 | 5,2 | - | 25,0 | 6,0 | 24 | 6 | | | | | |
| TDJ 2-6L | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-6LS¹⁾ | 0,02 | 1,7 | 4,7 | 6 | 19,6 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-8L | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-15L | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-15LS¹⁾ | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 19 | 2 | | | | | |
| TDJ 3-6L | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 19 | 3 | | | | | |
| TDJ 3-6LS¹⁾ | 0,02 | 2,4 | 4,7 | 6 | 19,6 | 3,0 | 19 | 3 | | | | | |
| TDJ 3-15L | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 19 | 3 | | | | | |
| TDJ 3-15LS¹⁾ | 0,02 | 2,4 | 4,7 | 15 | 19,6 | 3,0 | 19 | 3 | | | | | |
| TDJ 4-4L | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 19 | 4 | | | | | |
| TDJ 4-15L | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 19 | 4 | | | | | |
| TDJ 5-4L | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 24 | 5 | | | | | |
| TDJ 1,4-15RS | 0,02 | 1,0 | 4,0 | - | 15,8 | 1,4 | 15 | 1 | | | | | |
| TDJ 2-6R | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-6RS¹⁾ | 0,02 | 1,7 | 4,7 | 6 | 19,6 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-8R | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-15R | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 19 | 2 | | | | | |
| TDJ 2-15RS¹⁾ | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 19 | 2 | | | | | |
| TDJ 3-6R | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 19 | 3 | | | | | |
| TDJ 3-15R | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 19 | 3 | | | | | |
| TDJ 3-15RS¹⁾ | 0,02 | 2,4 | 4,7 | 15 | 19,6 | 3,0 | 19 | 3 | | | | | |
| TDJ 4-4R | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 19 | 4 | | | | | |
| TDJ 4-15R | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 19 | 4 | | | | | |
| TDJ 5-4R | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 24 | 5 | | | | | |

¹⁾sharp corner radius / Rayon vif

● = P ● = M ● = K ● = N ● = S ○ = H



**SINGLE ENDED INSERTS, WITH "J" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "J"**

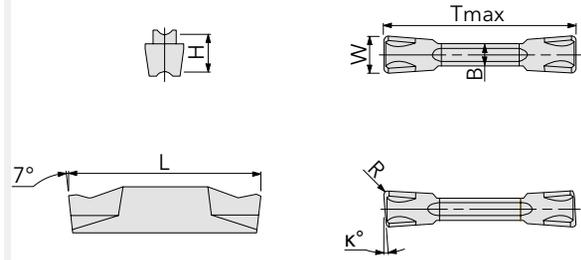


| Designation Réf. de l'article | R | B | H | K | L | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 | K10 |
|----------------------------------|------|-----|-----|----|------|----------|----------|-----------------|--------|--------|--------|-----|
| TSJ 2 | 0,20 | 1,7 | 4,7 | - | 20,0 | 2,0 | 2 | | ● | ● | ● | ● |
| TSJ 3 | 0,20 | 2,4 | 4,7 | - | 20,0 | 3,0 | 3 | | ● | ● | ● | ● |
| TSJ 4 | 0,30 | 3,0 | 4,7 | - | 20,0 | 4,0 | 4 | | ● | ● | ● | ● |
| TSJ 5 | 0,30 | 4,0 | 5,2 | - | 25,0 | 5,0 | 5 | | ● | ● | ● | ● |
| TSJ 6 | 0,30 | 5,0 | 5,2 | - | 25,0 | 6,0 | 6 | | ● | ● | ● | ● |
| TSJ 2-6L | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 2 | | | | ● | ● |
| TSJ 2-8L | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 2 | | | ● | ● | ● |
| TSJ 2-15L | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 2 | | | ● | ● | ● |
| TSJ 2-15LS | 0,02 | 1,7 | 4,7 | 15 | 19,8 | 2,0 | 2 | | | | ● | ● |
| TSJ 3-6L | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 3 | | | ● | ● | ● |
| TSJ 3-6LS ¹⁾ | 0,02 | 2,4 | 4,7 | 6 | 19,8 | 3,0 | 3 | | ● | | | |
| TSJ 3-15L | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 3 | | | ● | ● | ● |
| TSJ 3-15LS ¹⁾ | 0,02 | 2,4 | 4,7 | 15 | 19,8 | 3,0 | 3 | | | ● | ● | ● |
| TSJ 4-4L | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 4 | | | ● | ● | ● |
| TSJ 4-6L | 0,30 | 3,0 | 4,7 | 6 | 20,0 | 4,0 | 4 | | | ● | | |
| TSJ 5-4L | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 5 | | | | ● | ● |
| TSJ 2-6R | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 2 | | | | ● | ● |
| TSJ 2-8R | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 2 | | | | ● | ● |
| TSJ 2-15R | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 2 | | | | ● | ● |
| TSJ 2-15RS | 0,02 | 1,7 | 4,7 | 15 | 19,8 | 2,0 | 2 | | | ● | ● | ● |
| TSJ 3-6R | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 3 | | ● | ● | ● | ● |
| TSJ 3-6RS ¹⁾ | 0,02 | 2,4 | 4,7 | 6 | 19,8 | 3,0 | 3 | | ● | ● | | |
| TSJ 3-15R | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 3 | | | | ● | ● |
| TSJ 3-15RS ¹⁾ | 0,02 | 2,4 | 4,7 | 15 | 19,8 | 3,0 | 3 | | | ● | ● | ● |
| TSJ 4-4R | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 4 | | | ● | ● | ● |
| TSJ 4-6R | 0,30 | 3,0 | 4,7 | 6 | 20,0 | 4,0 | 4 | | | ● | | |
| TSJ 5-4R | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 5 | | | ● | | |

¹⁾sharp corner radius / Rayon vif

● = P ● = M ● = K ● = N ● = S ○ = H

DOUBLE ENDED INSERTS, WITH "C" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES DOUBLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "C"



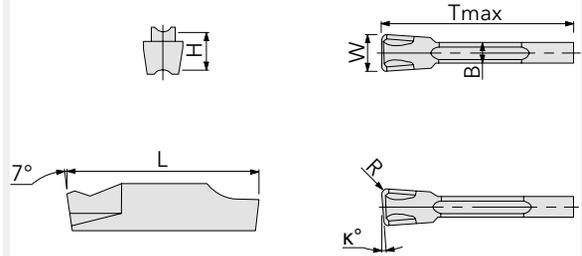
| Designation Réf. de l'article | R | B | H | K | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | CT3000 | TT5100 | TT9080 | TT7220 | TT8020 | K10 |
|----------------------------------|------|-----|-----|----|------|----------|------|----------|-----------------|--------|--------|--------|--------|--------|-----|
| TDC 2 | 0,20 | 1,7 | 4,7 | - | 20,0 | 2,0 | 19 | 2 | | ●●● | | ●●● | ●●● | ●●● | ●●● |
| TDC 3 | 0,20 | 2,4 | 4,7 | - | 20,0 | 3,0 | 19 | 3 | | | ●● | ●●● | ●●● | ●●● | ●●● |
| TDC 4 | 0,30 | 3,0 | 4,7 | - | 20,0 | 4,0 | 19 | 4 | | | | ●●● | ●●● | ●●● | ●●● |
| TDC 5 | 0,30 | 4,0 | 5,2 | - | 25,0 | 5,0 | 24 | 5 | | | | ●●● | ●●● | ●●● | ●●● |
| TDC 6 | 0,30 | 5,0 | 5,2 | - | 25,0 | 6,0 | 24 | 6 | | ●●● | | ●●● | ●●● | ●●● | ●●● |
| TDC 8 | 0,40 | 6,0 | 6,4 | - | 30,0 | 8,0 | 29 | 8 | | | | ●●● | | ●●● | |
| TDC 2-6L | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 19 | 2 | | | | | ●● | ●● | |
| TDC 2-8L | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 19 | 2 | | | | | ●● | | |
| TDC 2-15L | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 19 | 2 | | | | | ●● | ●● | |
| TDC 2-15LS ¹⁾ | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 19 | 2 | | | | | ●● | ●● | |
| TDC 3-6L | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 3-6LS ¹⁾ | 0,02 | 2,4 | 4,7 | 6 | 19,6 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 3-15L | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 4-4L | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 19 | 4 | | | | ●● | ●● | ●● | |
| TDC 4-15L | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 19 | 4 | | | | | | ●● | |
| TDC 2-6R | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 19 | 2 | | | | ●● | ●● | ●● | |
| TDC 2-6RS | 0,02 | 1,7 | 4,7 | 6 | 19,8 | 2,0 | 19 | 2 | | | | ●● | | | |
| TDC 2-8R | 0,20 | 1,7 | 4,7 | 8 | 20,0 | 2,0 | 19 | 2 | | | | | ●● | ●● | |
| TDC 2-15R | 0,20 | 1,7 | 4,7 | 15 | 20,0 | 2,0 | 19 | 2 | | | | ●● | ●● | ●● | |
| TDC 2-15RS ¹⁾ | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 19 | 2 | | | | ●● | ●● | ●● | |
| TDC 3-6R | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 3-6RS ¹⁾ | 0,02 | 2,4 | 4,7 | 6 | 19,6 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 3-15R | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 19 | 3 | | | | ●● | ●● | ●● | |
| TDC 4-4R | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 19 | 4 | | | | ●● | ●● | ●● | |
| TDC 4-15R | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 19 | 4 | | | | | | ●● | |
| TDC 5-4R | 0,30 | 4,0 | 5,2 | 4 | 20,0 | 5,0 | 24 | 5 | | | | ●● | ●● | | |

¹⁾sharp corner radius / Rayon vif

● = P ● = M ● = K ● = N ● = S ○ = H



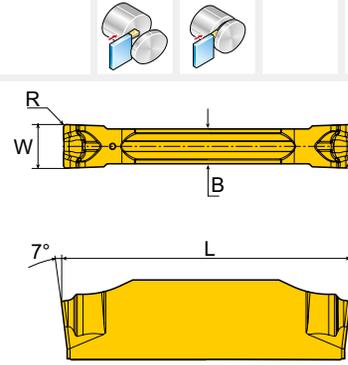
SINGLE ENDED INSERTS, WITH "C" TYPE CHIPBREAKER FOR PARTING AND GROOVING
PLAQUETTES SIMPLE COUPE, TRONÇONNAGE ET GORGES AVEC BRISE-COPEAUX TYPE "C"



| Designation Réf. de l'article | R | B | H | K | L | W ± 0,05 | Insert-S | Grade Nuance | TT9080 | TT7220 | TT8020 | K10 |
|----------------------------------|------|-----|-----|----|------|----------|----------|-----------------|--------|--------|--------|-----|
| TSC 2 | 0,20 | 1,7 | 4,7 | - | 20,0 | 2,0 | 2 | | ● | ● | ● | ● |
| TSC 3 | 0,20 | 2,4 | 4,7 | - | 20,0 | 3,0 | 3 | | ● | ● | ● | ● |
| TSC 4 | 0,30 | 3,0 | 4,7 | - | 20,0 | 4,0 | 4 | | ● | ● | ● | |
| TSC 5 | 0,30 | 4,0 | 5,2 | - | 25,0 | 5,0 | 5 | | ● | ● | ● | |
| TSC 6 | 0,30 | 5,0 | 5,2 | - | 25,0 | 6,0 | 6 | | ● | ● | ● | |
| TSC 8 | 0,40 | 6,0 | 6,4 | - | 30,0 | 8,0 | 8 | | ● | | ● | |
| TSC 2-6L | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 2 | | | ● | ● | ● |
| TSC 2-15LS | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 2 | | | ● | ● | ● |
| TSC 3-6L | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 3 | | | ● | ● | ● |
| TSC 3-15L | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 3 | | | ● | ● | ● |
| TSC 3-15LS | 0,02 | 2,4 | 4,7 | 15 | 19,6 | 3,0 | 3 | | | ● | ● | ● |
| TSC 4-4L | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 4 | | | ● | ● | |
| TSC 4-15L | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 4 | | | ● | ● | |
| TSC 5-4L | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 5 | | | ● | ● | |
| TSC 2-6R | 0,20 | 1,7 | 4,7 | 6 | 20,0 | 2,0 | 2 | | ● | ● | ● | |
| TSC 2-15RS | 0,02 | 1,7 | 4,7 | 15 | 19,6 | 2,0 | 2 | | | ● | ● | ● |
| TSC 3-6R | 0,20 | 2,4 | 4,7 | 6 | 20,0 | 3,0 | 3 | | ● | ● | ● | |
| TSC 3-15R | 0,20 | 2,4 | 4,7 | 15 | 20,0 | 3,0 | 3 | | | ● | ● | ● |
| TSC 3-15RS | 0,02 | 2,4 | 4,7 | 15 | 19,6 | 3,0 | 3 | | | ● | ● | ● |
| TSC 4-4R | 0,30 | 3,0 | 4,7 | 4 | 20,0 | 4,0 | 4 | | ● | ● | ● | |
| TSC 4-6R | 0,30 | 3,0 | 4,7 | 6 | 20,0 | 4,0 | 4 | | | ● | ● | |
| TSC 4-15R | 0,30 | 3,0 | 4,7 | 15 | 20,0 | 4,0 | 4 | | | ● | ● | ● |
| TSC 5-4R | 0,30 | 4,0 | 5,2 | 4 | 25,0 | 5,0 | 5 | | | ● | ● | |

● = P ● = M ● = K ● = N ● = S ○ = H

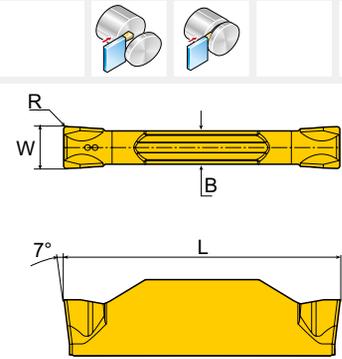
DOUBLE-ENDED INSERTS FOR SHALLOW GROOVING AND PARTING WITH "UF" TYPE CHIP BREAKER
PLAQUETTES À 2 ARÊTES AVEC BRISE-COPEAUX TYPE UF POUR LE TRONÇONNAGE ET LES GORGES



| Designation Réf. de l'article | R | B | L | W | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|-----|-----|------|-----|------|----------|-----------------|--------|
| TDUF 2 | 0,2 | 1,5 | 20,0 | 2,0 | 19,0 | 2 | | |
| TDUF 3 | 0,2 | 2,4 | 20,0 | 3,0 | 19,0 | 3 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

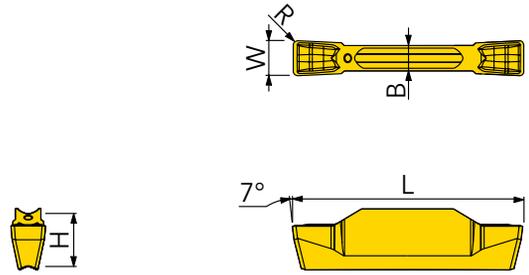
DOUBLE-ENDED INSERTS FOR SHALLOW GROOVING AND PARTING WITH "V" TYPE CHIP BREAKER
PLAQUETTES À 2 ARÊTES AVEC BRISE-COPEAUX TYPE V POUR LE TRONÇONNAGE ET LES GORGES



| Designation Réf. de l'article | R | B | L | W | Tmax | Insert-S | Grade Nuance | TT9080 | TT8020 |
|----------------------------------|-----|-----|------|-----|------|----------|-----------------|--------|--------|
| TDV 2 | 0,2 | 1,7 | 20,0 | 2,0 | 19,0 | 2 | | | |
| TDV 3 | 0,2 | 2,4 | 20,0 | 3,0 | 19,0 | 3 | | | |
| TDV 4 | 0,3 | 3,0 | 20,0 | 4,0 | 19,0 | 4 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

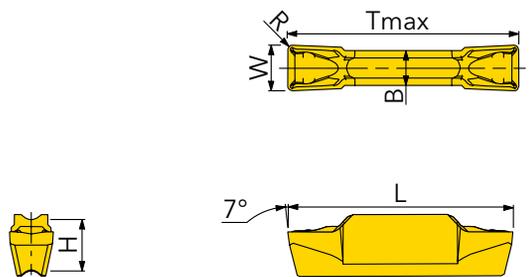
DOUBLE-ENDED INSERTS, FOR GROOVING, TURNING, FACE GROOVING AND PARTING
PLAQUETTES À 2 ARÊTES, POUR TRONÇONNAGE ET GORGES, TOURNAGE ET GORGES FRONTALES



| Designation Réf. de l'article | Z | R | B | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT6080 | TT9080 | TT8020 | K10 |
|----------------------------------|---|-----|-----|------|----------|------|----------|-----------------|--------|--------|--------|-----|
| TDXC 2E-0.3 | 2 | 0,3 | 1,7 | 20,0 | 2,0 | 19 | 2 | | ● | ● | ● | ● |
| TDXC 3E-0.3 | 2 | 0,3 | 2,2 | 20,0 | 3,0 | 19 | 3 | | ● | ● | ● | ● |
| TDXC 4E-0.4 | 2 | 0,4 | 3,0 | 20,0 | 4,0 | 19 | 4 | | ● | ● | ● | ● |
| TDXC 5E-0.4 | 2 | 0,4 | 4,0 | 25,0 | 5,0 | 24 | 5 | | ● | ● | ● | ● |
| TDXC 6E-0.4 | 2 | 0,4 | 5,0 | 25,0 | 6,0 | 24 | 6 | | ● | ● | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

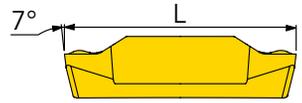
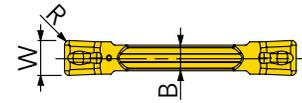
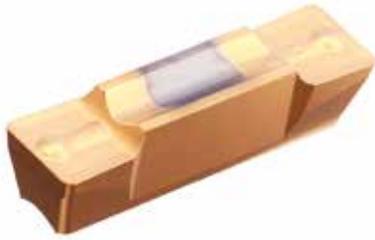
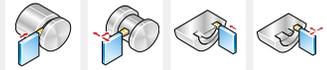
PRESSED INSERTS, FOR EXTERNAL, INTERNAL, FACE TURNING, GROOVING AND PARTING
PLAQUETTES BRUT DE FRITTAGE ÉCONOMIQUE, TOURNAGE, TRONÇONNAGE ET GORGES EXTERNES, INTERNES ET FONTALES



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | CT3000 | TT6080 | TT5100 | TT9080 | TT7220 | TT8020 | K10 |
|----------------------------------|------|-----|-----|------|----------|----------|-----------------|--------|--------|--------|--------|--------|--------|-----|
| TDXU 2E-0,3 | 0,3 | 1,7 | 4,7 | 20,0 | 2,0 | 2 | | | ● | ● | ● | ● | ● | ● |
| TDXU 3E-0,3 | 0,30 | 2,2 | 4,7 | 20,0 | 3,0 | 3 | | ● | ● | ● | ● | ● | ● | ● |
| TDXU 4E-0,4 | 0,40 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | ● | ● | ● | ● | ● | ● | ● |
| TDXU 4E-0,8 | 0,80 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | | ● | ● | ● | ● | ● | ● |
| TDXU 5E-0,4 | 0,40 | 4,0 | 5,2 | 25,0 | 5,0 | 5 | | ● | ● | ● | ● | ● | ● | ● |
| TDXU 5E-0,8 | 0,80 | 4,0 | 5,2 | 25,0 | 5,0 | 5 | | ● | ● | ● | ● | ● | ● | ● |
| TDXU 6E-0,4 | 0,40 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | | ● | ● | ● | ● | ● | ● |
| TDXU 6E-0,8 | 0,6 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | | ● | ● | ● | ● | ● | ● |
| TDXU 8E-0,8 | 0,8 | 6,0 | 6,4 | 30,0 | 8,0 | 8 | | | ● | ● | ● | ● | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

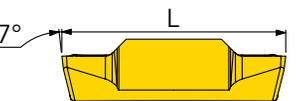
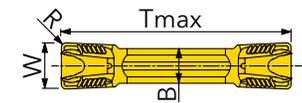
PRECISION INSERTS, FOR MULTI FUNCTIONAL TURNING AND GROOVING
PLAQUETTES DE PRECISION, MULTI-FONCTION TOURNAGE ET GORGES



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | TT6080 | TT5100 | TT9080 | K10 |
|----------------------------------|-----|-----|-----|------|----------|----------|-----------------|--------|--------|--------|-----|
| TDXT 3E-0.4 | 0,4 | 2,2 | 4,7 | 20,0 | 3,0 | 3 | | | | | |
| TDXT 4E-0.4 | 0,4 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | | | | |
| TDXT 5E-0.4 | 0,4 | 4,0 | 5,2 | 25,0 | 5,0 | 5 | | | | | |
| TDXT 6E-0.8 | 0,8 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | | | | |
| TDXT 8E-0.8 | 0,8 | 6,0 | 6,4 | 30,0 | 8,0 | 8 | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

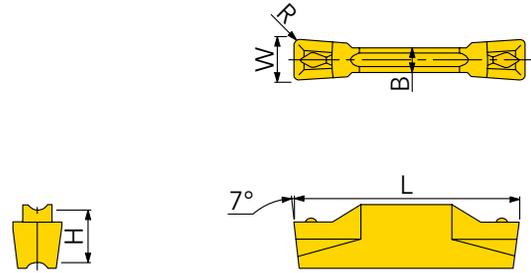
DOUBLE-ENDED INSERTS FOR GROOVING, TURNING AND FACE GROOVING
PLAQUETTES À 2 ARÊTES POUR LE TOURNAGE, LES GORGES EXTERNES ET GORGES FRONTALES



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT6080 | TT3010 | TT9080 |
|----------------------------------|-----|-----|-----|----|----------|------|----------|-----------------|--------|--------|--------|
| TDXY 3E-0.4 | 0,4 | 2,2 | 4,7 | 20 | 3,0 | 18 | 3 | | | | |
| TDXY 4E-0.4 | 0,4 | 3,0 | 4,7 | 20 | 4,0 | 18 | 4 | | | | |
| TDXY 4E-0.8 | 0,8 | 3,0 | 4,7 | 20 | 4,0 | 18 | 4 | | | | |
| TDXY 5E-0.4 | 0,4 | 4,0 | 5,2 | 25 | 5,0 | 23 | 5 | | | | |
| TDXY 5E-0.8 | 0,8 | 4,0 | 5,2 | 25 | 5,0 | 23 | 5 | | | | |
| TDXY 6E-0.4 | 0,4 | 5,0 | 5,2 | 25 | 6,0 | 23 | 6 | | | | |
| TDXY 6E-0.8 | 0,8 | 5,0 | 5,2 | 25 | 6,0 | 23 | 6 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

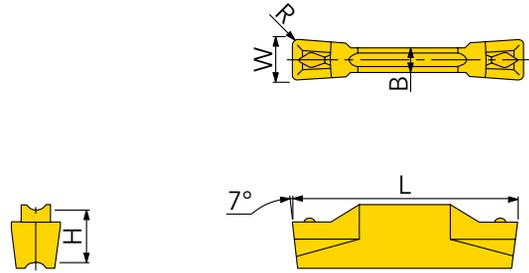
PRECISION INSERTS, FOR EXTERNAL TURNING AND GROOVING
PLAQUETTES DE PRÉCISION, TOURNAGE ET GORGES EXTERNES



| Designation Réf. de l'article | R ± 0,05 | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | TT6080 | TT5100 | TT9080 | TT7220 |
|----------------------------------|----------|-----|-----|------|----------|----------|-----------------|--------|--------|--------|--------|
| TDT 2,65E-0,15 | 0,15 | 2,2 | 4,7 | 20,0 | 2,65 | 3 | | | | | ● |
| TDT 3,00E-0,20 | 0,20 | 2,2 | 4,7 | 20,0 | 3,00 | 3 | ● | ● | ● | ● | ● |
| TDT 3,00E-0,40 | 0,40 | 2,2 | 4,7 | 20,0 | 3,00 | 3 | ● | ● | ● | ● | ● |
| TDT 3,15E-0,15 | 0,15 | 2,2 | 4,7 | 20,0 | 3,15 | 3 | ● | | | ● | |
| TDT 4,00E-0,40 | 0,40 | 3,0 | 4,7 | 20,0 | 4,00 | 4 | ● | ● | ● | ● | ● |
| TDT 4,00E-0,80 | 0,80 | 3,0 | 4,7 | 20,0 | 4,00 | 4 | ● | ● | ● | ● | ● |
| TDT 5,00E-0,40 | 0,40 | 4,0 | 5,2 | 25,0 | 5,00 | 5 | ● | ● | ● | ● | ● |
| TDT 5,00E-0,80 | 0,80 | 4,0 | 5,2 | 25,0 | 5,00 | 5 | ● | ● | ● | ● | ● |
| TDT 5,15E-0,15 | 0,15 | 4,0 | 5,2 | 25,0 | 5,15 | 5 | | | | ● | |
| TDT 6,00E-0,80 | 0,80 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | ● | ● | ● | ● | ● |
| TDT 6,00E-1,20 | 1,20 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | ● | ● | ● | ● | ● |
| TDT 8,00E-0,80 | 0,80 | 6,0 | 6,4 | 30,0 | 8,00 | 8 | ● | ● | ● | ● | ● |
| TDT 8,00E-1,20 | 1,20 | 6,0 | 6,4 | 30,0 | 8,00 | 8 | ● | ● | ● | ● | ● |
| TDT 10,00E-0,80 | 0,8 | 8,0 | 6,4 | 30,0 | 10,00 | 10 | ● | | | ● | |
| TDT 10,00E-1,20 | 1,2 | 8,0 | 6,4 | 30,0 | 10,00 | 10 | ● | | | ● | |
| TDT 10,00E-2,00 | 2,0 | 8,0 | 6,4 | 30,0 | 10,00 | 10 | ● | | | ● | |

● = P ● = M ● = K ● = N ● = S ○ = H

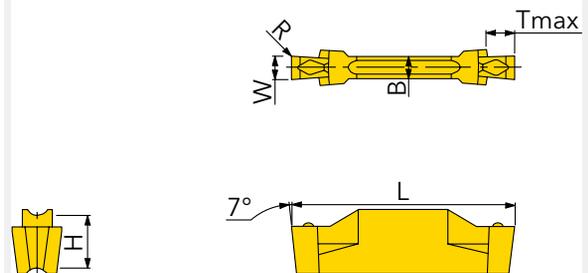
PRESSED INSERTS, FOR EXTERNAL TURNING AND GROOVING
PLAQUETTES BRUT DE FRITAGE ÉCONOMIQUE, TOURNAGE ET GORGES EXTERNES



| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | CT3000 | TT6080 | TT5100 | TT9080 | TT7220 |
|----------------------------------|------|-----|-----|------|----------|----------|-----------------|--------|--------|--------|--------|--------|
| TDT 3E-0,4 | 0,40 | 2,2 | 4,7 | 20,0 | 3,0 | 3 | | | | | | |
| TDT 4E-0,4 | 0,40 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

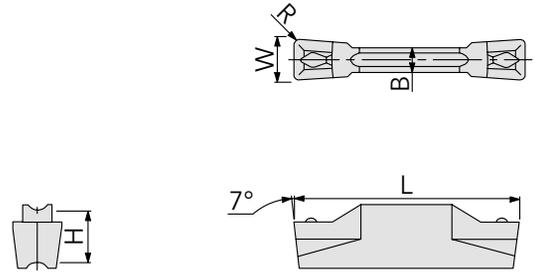
PRECISION INSERTS, FOR EXTERNAL TURNING AND GROOVING
PLAQUETTES DE PRÉCISION, TOURNAGE ET GORGES EXTERNES



| Designation Réf. de l'article | R ± 0,05 | B | H | L | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT5100 | TT9080 | TT7220 |
|----------------------------------|----------|-----|-----|------|----------|------|----------|-----------------|--------|--------|--------|
| TDT 1,00-0,00 | 0,00 | 2,2 | 4,7 | 20,0 | 1,00 | 2,5 | 2 | | | | |
| TDT 1,30-0,00 | 0,00 | 2,2 | 4,7 | 20,0 | 1,30 | 2,5 | 2 | | | | |
| TDT 1,60-0,10 | 0,10 | 2,2 | 4,7 | 20,0 | 1,60 | 2,5 | 2 | | | | |
| TDT 1,85-0,10 | 0,10 | 2,2 | 4,7 | 20,0 | 1,85 | 3,5 | 2 | | | | |
| TDT 2,15-0,15 | 0,15 | 2,2 | 4,7 | 20,0 | 2,15 | 3,5 | 2 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

PRESSED CERAMIC INSERTS, FOR EXTERNAL TURNING, GROOVING AND PROFILING
PLAQUETTES CÉRAMIQUES BRUT DE FRITTAGE, TOURNAGE ET GORGES EXTERNES

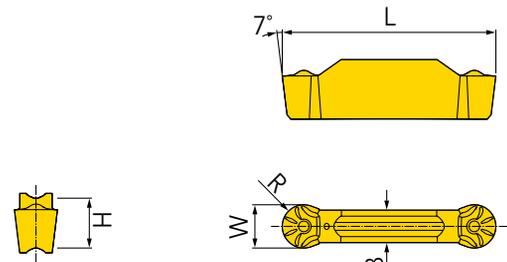


| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | AB30 |
|----------------------------------|------|-----|-----|------|----------|----------|-----------------|------|
| TDT 4E-0,4T CE | 0,40 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | |
| TDT 6E-0,8T CE | 0,80 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

TCLAMP^{ULTRA+} TDT-RS (FULL-RADIUS)
TDT-RS (HÉMISPHERIQUE)

PRECISION ROUND TYPE FOR TURNING, GROOVING AND PROFILING
PLAQUETTES DE PRÉCISION HÉMISPHERIQUE POUR LE TOURNAGE, GORGE ET COPIAGE

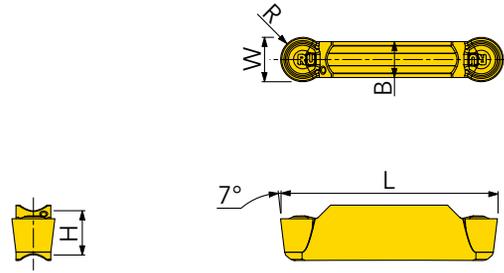


| Designation Réf. de l'article | R | B | H | L | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT3010 | TT9080 | K10 |
|----------------------------------|-----|-----|-----|------|----------|------|----------|-----------------|--------|--------|-----|
| TDT 2.00E-1.00-RS | 1,0 | 1,7 | 4,7 | 20,0 | 2,0 | 19 | 2 | | | | |
| TDT 3.00E-1.50-RS | 1,5 | 2,4 | 4,7 | 20,0 | 3,0 | 19 | 3 | | | | |
| TDT 4.00E-2.00-RS | 2,0 | 3,0 | 4,7 | 20,0 | 4,0 | 19 | 4 | | | | |
| TDT 5.00E-2.50-RS | 2,5 | 4,0 | 5,2 | 25,0 | 5,0 | 19 | 5 | | | | |
| TDT 6.00E-3.00-RS | 3,0 | 5,0 | 5,2 | 25,0 | 6,0 | 19 | 6 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

TCLAMP^{ULTRA+} TDT-RU (FULL-RADIUS)
TDT-RU (HEMISPHERIQUE)

PRESSED INSERTS, FOR EXTERNAL TURNING, GROOVING AND PROFILING
 PLAQUETTES BRUT DE FRITAGE ÉCONOMIQUE, TOURNAGE, GORGES ET COPIAGE EXTERNE

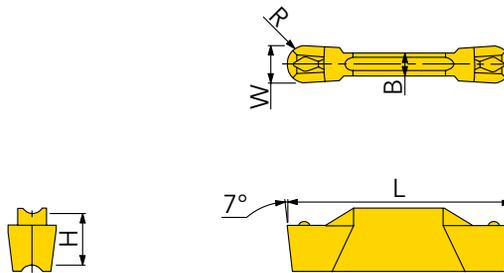


| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | TT6080 | TT5100 | TT9080 | TT7220 | K10 |
|----------------------------------|-----|-----|-----|------|----------|----------|-----------------|--------|--------|--------|--------|-----|
| TDT 2E-1,0-RU | 1,0 | 1,7 | 4,7 | 20,0 | 2,0 | 2 | | ● | | ● | ● | ● |
| TDT 3E-1,5-RU | 1,5 | 2,2 | 4,7 | 20,0 | 3,0 | 3 | | ● | ● | ● | ● | ● |
| TDT 4E-2,0-RU | 2 | 3,0 | 4,7 | 20,0 | 4,0 | 4 | | ● | ● | ● | ● | ● |
| TDT 5E-2,5-RU | 2,5 | 4,0 | 5,2 | 25,0 | 5,0 | 5 | | ● | ● | ● | ● | ● |
| TDT 6E-3,0-RU | 3 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | ● | ● | ● | ● | ● |
| TDT 8E-4,0-RU | 4 | 6,0 | 6,4 | 30,0 | 8,0 | 8 | | ● | ● | ● | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

TCLAMP^{ULTRA+} TDT-E (FULL-RADIUS)
TDT-E (HEMISPHERIQUE)

PRECISION INSERTS, FOR EXTERNAL TURNING, GROOVING AND PROFILING
 PLAQUETTES DE PRÉCISION, TOURNAGE, GORGES ET COPIAGE EXTERNE

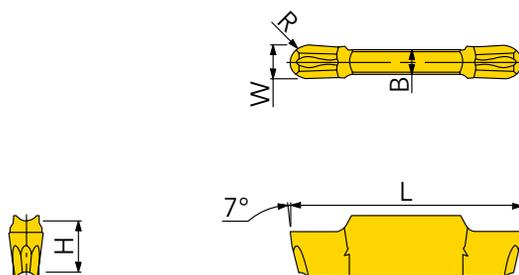


| Designation Réf. de l'article | R ± 0,05 | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | TT5100 | TT9080 | TT7220 | K10 |
|----------------------------------|----------|-----|-----|------|----------|----------|-----------------|--------|--------|--------|-----|
| TDT 3,00E-1,50 | 1,50 | 2,2 | 4,7 | 20,0 | 3,00 | 3 | | ● | ● | ● | ● |
| TDT 4,00E-2,00 | 2,00 | 3,0 | 4,7 | 20,0 | 4,00 | 4 | | ● | ● | ● | ● |
| TDT 5,00E-2,50 | 2,50 | 4,0 | 5,2 | 25,0 | 5,00 | 5 | | ● | ● | ● | ● |
| TDT 6,00E-3,00 | 3,00 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | | ● | ● | ● | ● |
| TDT 8,00E-4,00 | 4,00 | 6,0 | 6,4 | 30,0 | 8,00 | 8 | | ● | ● | ● | ● |
| TDT 10,00E-5,00 | 5,00 | 8,0 | 6,4 | 30,0 | 10,00 | 10 | | | ● | | |

● = P ● = M ● = K ● = N ● = S ○ = H

TCLAMP^{ULTRA+} TDIT-E (FULL-RADIUS)
TDIT-E (HEMISPHERIQUE)

PRECISION INSERTS, FOR INTERNAL TURNING, GROOVING AND PROFILING
 PLAQUETTES DE PRÉCISION, TOURNAGE, GORGES ET COPIAGE INTERNE

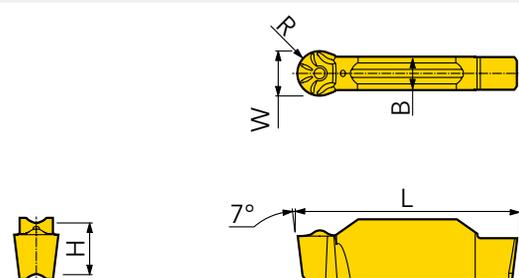


| Designation Réf. de l'article | R ± 0,05 | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | TT5100 | TT7220 | K10 |
|----------------------------------|----------|-----|-----|------|----------|----------|-----------------|--------|--------|-----|
| TDIT 3,00E-1,50 | 1,50 | 2,2 | 4,7 | 20,0 | 3,00 | 3 | | | | |
| TDIT 4,00E-2,00 | 2,00 | 3,0 | 4,7 | 20,0 | 4,00 | 4 | | | | |
| TDIT 5,00E-2,50 | 2,50 | 4,0 | 5,2 | 25,0 | 5,00 | 5 | | | | |
| TDIT 6,00E-3,00 | 3,00 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

TCLAMP^{ULTRA+} TST-E (FULL-RADIUS)
TST-E (HEMISPHERIQUE)

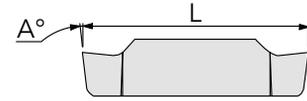
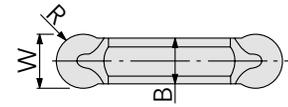
PRECISION INSERTS FOR EXTERNAL TURNING, GROOVING AND PROFILING
 PLAQUETTES DE PRÉCISION TOURNAGE, GORGES ET COPIAGE EXTERNE



| Designation Réf. de l'article | R ± 0,05 | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | TT3010 | TT9080 |
|----------------------------------|----------|-----|-----|------|----------|----------|-----------------|--------|--------|
| TST 3.00E-1.50-RS | 1,5 | 2,4 | 4,7 | 19,8 | 3,0 | 3 | | | |
| TST 4.00E-2.00-RS | 2,0 | 3,0 | 4,7 | 19,8 | 4,0 | 4 | | | |
| TST 5.00E-2.50-RS | 2,5 | 4,0 | 5,2 | 25,0 | 5,0 | 5 | | | |
| TST 6.00E-3.00-RS | 3,0 | 5,0 | 5,2 | 25,0 | 6,0 | 6 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

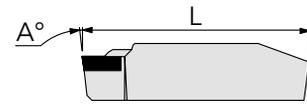
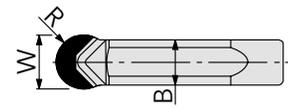
DOUBLE ENDED INSERTS, FOR ALUMINUM WHEEL MACHINING
PLAQUETTES DOUBLE COUPE, USINAGE DES JANTES EN ALUMINIUM



| Designation Réf. de l'article | R ± 0,05 | A | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | K10 |
|----------------------------------|----------|----|-----|-----|------|----------|----------|-----------------|-----|
| TDA 3,00-1,50 | 1,50 | 7 | 2,4 | 4,7 | 19,8 | 3,00 | 3 | | ● |
| TDA 4,00-2,00 | 2,00 | 7 | 3,0 | 4,7 | 19,8 | 4,00 | 4 | | ● |
| TDA 6,00-3,00 | 3,00 | 7 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | | ● |
| TDA 8,00-4,00 | 4,00 | 10 | 6,0 | 6,4 | 30,0 | 8,00 | 8 | | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

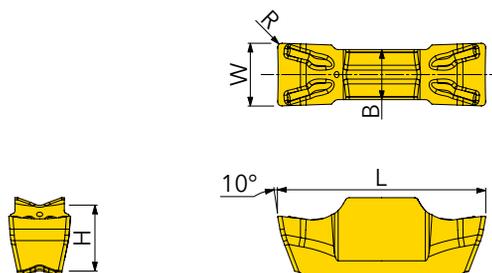
SINGLE ENDED INSERTS, FOR ALUMINUM WHEEL MACHINING WITH PCD TYPE
PLAQUETTES SIMPLE COUPE, USINAGE DES JANTES EN ALUMINIUM AVEC INSERT PCD



| Designation Réf. de l'article | R ± 0,05 | A | B | H | L | W ± 0,02 | Insert-S | Grade Nuance | KP300 |
|----------------------------------|----------|----|-----|-----|------|----------|----------|-----------------|-------|
| TSA 6,00-3,00 | 3,00 | 7 | 5,0 | 5,2 | 25,0 | 6,00 | 6 | | ● |
| TSA 8,00-4,00 | 4,00 | 10 | 6,0 | 6,4 | 30,0 | 8,00 | 8 | | ● |

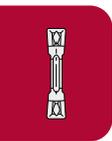
● = P ● = M ● = K ● = N ● = S ○ = H

PRESSED INSERTS, FOR INTERNAL TURNING AND GROOVING
PLAQUETTES BRUT DE FRITTAGE ÉCONOMIQUE, TOURNAGE ET GORGES

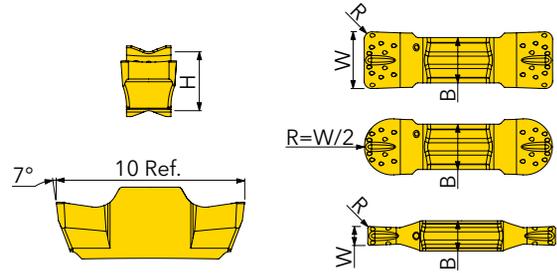


| Designation Réf. de l'article | R | B | H | L | W ± 0,05 | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|-----|-----|------|----------|----------|-----------------|--------|
| TDIM 2E-0.15 | 0,15 | 1,6 | 3,2 | 10,0 | 2,0 | 2 | | |
| TDIM 3E-0.20 | 0,20 | 2,4 | 3,2 | 10,0 | 3,0 | 3 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



PRECISION INSERTS, FOR INTERNAL TURNING AND GROOVING
PLAQUETTES DE PRÉCISION, TOURNAGE ET GORGES

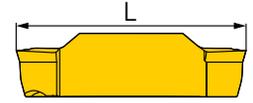
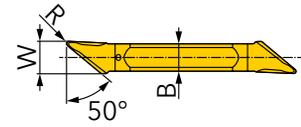


| Designation Réf. de l'article | R | B | Tmax | Insert-S | w | Grade Nuance | TT9080 |
|----------------------------------|------|------|------|----------|------|-----------------|--------|
| TDIP 1.00-0.10 | 0,10 | 1,6 | 1,60 | 2 | 1,00 | | |
| TDIP 1.00-0.50 | 0,50 | 1,6 | 1,60 | 2 | 1,00 | | |
| TDIP 1.20-0.00 | 0,00 | 1,6 | 1,80 | 2 | 1,20 | | |
| TDIP 1.40-0.00 | 0,00 | 1,6 | 2,00 | 2 | 1,40 | | |
| TDIP 1.50-0.10 | 0,10 | 1,6 | 2,00 | 2 | 1,50 | | |
| TDIP 2.00E-0.10 | 0,10 | 1,6 | - | 2 | 2,00 | | |
| TDIP 2.00E-0.20 | 0,20 | 1,6 | - | 2 | 2,00 | | |
| TDIP 2.00E-1.00 | 1,00 | 1,6 | - | 2 | 2,00 | | |
| TDIP 2.15E-0.15 | - | 0,15 | 1,6 | 2 | 2,15 | | |
| TDIP 2.50E-0.20 | 0,20 | 2,4 | - | 3 | 2,50 | | |
| TDIP 3.00E-0.20 | 0,20 | 2,4 | - | 3 | 3,00 | | |
| TDIP 3.00E-1.50 | 1,50 | 2,4 | - | 3 | 3,00 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



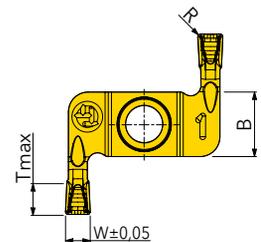
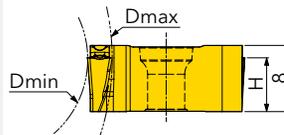
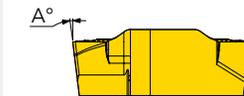
DOUBLE-ENDED INSERTS, FOR TURNING AND GROOVING WITH V-TYPE SHAPE
PLAQUETTES DOUBLE ARÊTE, POUR LE TOURNAGE ET GORGES AVEC FORME TYPE V



| Designation Réf. de l'article | Z | R | B | H | L | W ± 0,05 | ∅ | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|---|-----|-----|-----|------|----------|----|----------|-----------------|--------|
| TDMV 2.8E-0.2-L | 2 | 0,2 | 2,4 | 4,7 | 20,0 | 2,8 | 50 | 3 | | |
| TDMV 2.8E-0.4-L | 2 | 0,4 | 2,4 | 4,7 | 20,0 | 2,8 | 50 | 3 | | |
| TDMV 2.8E-0.2-R | 2 | 0,2 | 2,4 | 4,7 | 20,0 | 2,8 | 50 | 3 | | |
| TDMV 2.8E-0.4-R | 2 | 0,4 | 2,4 | 4,7 | 20,0 | 2,8 | 50 | 3 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

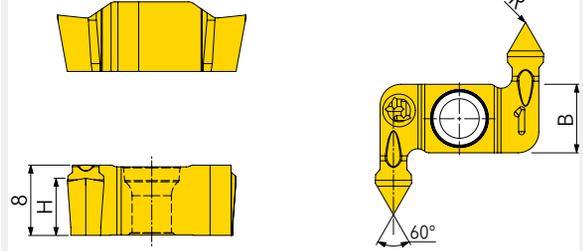
DOUBLE-ENDED INSERTS, FOR FACE GROOVING AND TURNING
PLAQUETTES DOUBLE-COUPÉ, POUR TOURNAGE ET GORGES FRONTALES



| Designation Réf. de l'article | R | A | B | H | W ± 0,05 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|-----|---|-----|-----|----------|------|----------|-----------------|--------|
| TDFX 2E-0.3-D25L | 0,3 | 7 | 7,8 | 6,5 | 2,0 | 6,0 | 2 | | |
| TDFX 3E-0.3-D24L | 0,3 | 7 | 7,8 | 6,5 | 3,00 | 6,0 | 3 | | |
| TDFX 4E-0.4-D32L | 0,4 | 7 | 7,8 | 6,5 | 4,00 | 6,0 | 4 | | |
| TDFX 2E-0.3-D25R | 0,3 | 7 | 7,8 | 6,5 | 2,0 | 6,0 | 2 | | |
| TDFX 3E-0.3-D24R | 0,3 | 7 | 7,8 | 6,5 | 3,00 | 6,0 | 3 | | |
| TDFX 4E-0.4-D32R | 0,4 | 7 | 7,8 | 6,5 | 4,00 | 6,0 | 4 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

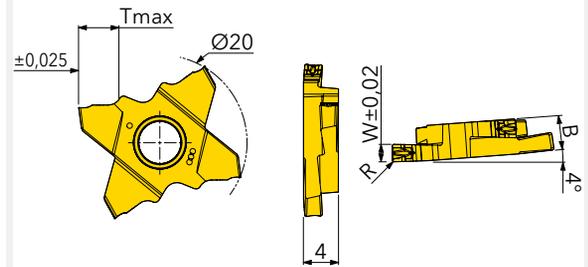
DOUBLE-ENDED THREADING INSERTS, WITH 60° PARTIAL PROFILE
PLAQUETTES DOUBLE-COUPÉ, PROFIL FILETAGE PARTIEL 60°



| Designation Réf. de l'article | R | A | B | H | Insert-S | P min. | P max. | Grade Nuance | TT9080 |
|----------------------------------|------|----|-----|-----|----------|--------|--------|-----------------|--------|
| TDGX 4MT-0.05-L | 0,05 | 60 | 7,8 | 6,5 | 4 | 0,45 | 3,50 | | |
| TDGX 4MT-0.05-R | 0,05 | 60 | 7,8 | 6,5 | 4 | 0,45 | 3,50 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

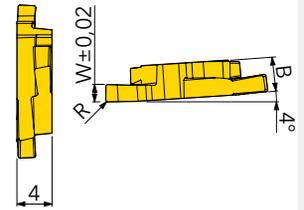
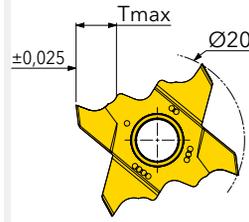
4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, PARTING AND RECESSING
4 ARÊTES DE COUPE, TOURNAGE, TRONÇONNAGE ET POUR LES MATIÈRES QUI SE RESSERRENT



| Designation Réf. de l'article | R | B | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT4430 |
|----------------------------------|------|---|----------|------|----------|-----------------|--------|
| TQJ 20-1.00-0.10-L | 0,10 | 4 | 1,00 | 2,7 | 20 | | |
| TQJ 20-1.50-0.20-L | 0,20 | 4 | 1,50 | 5,0 | 20 | | |
| TQJ 20-2.00-0.20-L | 0,20 | 4 | 2,00 | 5,0 | 20 | | |
| TQJ 20-1.00-0.10-R | 0,10 | 4 | 1,00 | 2,7 | 20 | | |
| TQJ 20-1.50-0.20-R | 0,20 | 4 | 1,50 | 5,0 | 20 | | |
| TQJ 20-2.00-0.20-R | 0,20 | 4 | 2,00 | 5,0 | 20 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

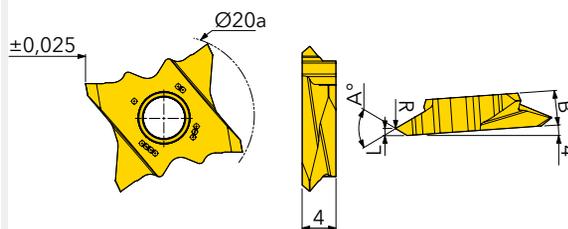
4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, STRAIGHT CUTTING EDGES WITH HIGH POSITIVE RAKE ANGLE
4 ARÊTES DE COUPE, POUR DES GORGES PRÉCISES, ARÊTES DE COUPE DROITES AVEC ANGLE DE COUPE POSITIF



| Designation Réf. de l'article | R | B | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT4430 |
|----------------------------------|------|---|----------|------|----------|-----------------|--------|
| TQS 20-0.50-0.05-L | 0,05 | 4 | 0,50 | 2,2 | 20 | | |
| TQS 20-1.00-0.10-L | 0,10 | 4 | 1,00 | 2,7 | 20 | | |
| TQS 20-1.50-0.10-L | 0,10 | 4 | 1,50 | 5,0 | 20 | | |
| TQS 20-2.00-0.10-L | 0,10 | 4 | 2,00 | 5,0 | 20 | | |
| TQS 20-2.00-1.00-L | 1,00 | 4 | 2,00 | 5,0 | 20 | | |
| TQS 20-2.50-0.10-L | 0,10 | 4 | 2,50 | 5,0 | 20 | | |
| TQS 20-3.00-0.10-L | 0,10 | 4 | 3,00 | 5,0 | 20 | | |
| TQS 20-3.00-1.50-L | 1,50 | 4 | 3,00 | 5,0 | 20 | | |
| TQS 20-0.50-0.05-R | 0,05 | 4 | 0,50 | 2,2 | 20 | | |
| TQS 20-1.00-0.10-R | 0,10 | 4 | 1,00 | 2,7 | 20 | | |
| TQS 20-1.50-0.10-R | 0,10 | 4 | 1,50 | 5,0 | 20 | | |
| TQS 20-2.00-0.10-R | 0,10 | 4 | 2,00 | 5,0 | 20 | | |
| TQS 20-2.00-1.00-R | 1,00 | 4 | 2,00 | 5,0 | 20 | | |
| TQS 20-2.50-0.10-R | 0,10 | 4 | 2,50 | 5,0 | 20 | | |
| TQS 20-3.00-0.10-R | 0,10 | 4 | 3,00 | 5,0 | 20 | | |
| TQS 20-3.00-1.50-R | 1,50 | 4 | 3,00 | 5,0 | 20 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

THREADING INSERT WITH 4 CUTTING EDGES PARTIAL PROFILE 60°
4 ARÊTES DE COUPE, POUR FILETAGE PROFIL PARTIEL 60°

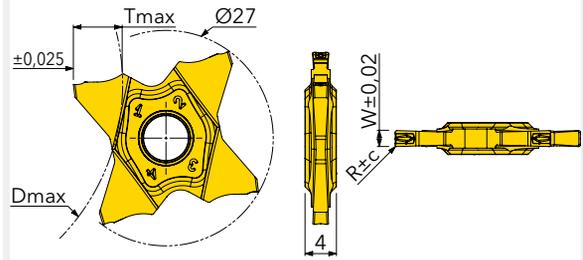


| Designation Réf. de l'article | R | A | B | L | Insert-S | P min. | P max. | TPI min. | TPI max. | Grade Nuance | TT4430 |
|----------------------------------|------|----|---|-----|----------|--------|--------|-------------|-------------|-----------------|--------|
| TQS 20-MT-0.05-L | 0,05 | 60 | 4 | 0,8 | 20 | 0,30 | 1,75 | 14 | 48 | | |
| TQS 20-MT-0.05-R | 0,05 | 60 | 4 | 0,8 | 20 | 0,30 | 1,75 | 14 | 18 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



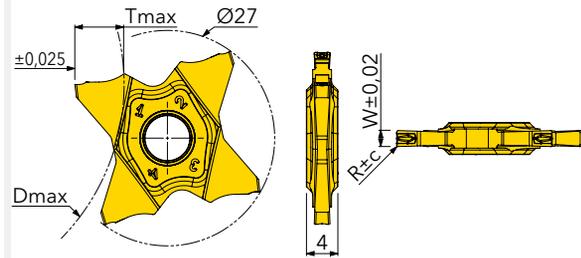
4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, PARTING AND RECESSING
4 ARÊTES DE COUPE, TOURNAGE, TRONCONNAGE ET GORGES DE PRECISION



| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQJ 27-0.50-0.00 | 0,00 | 0,50 | 1,0 | 27 | | |
| TQJ 27-0.50-0.04 | 0,04 | 0,50 | 2,5 | 27 | | |
| TQJ 27-0.75-0.10 | 0,10 | 0,75 | 2,5 | 27 | | |
| TQJ 27-0.80-0.00 | 0,00 | 0,80 | 1,6 | 27 | | |
| TQJ 27-1.00-0.06 | 0,06 | 1,00 | 3,5 | 27 | | |
| TQJ 27-1.00-0.10 | 0,10 | 1,00 | 3,5 | 27 | | |
| TQJ 27-1.04-0.00 | 0,00 | 1,04 | 2,0 | 27 | | |
| TQJ 27-1.20-0.00 | 0,00 | 1,20 | 2,0 | 27 | | |
| TQJ 27-1.25-0.10 | 0,10 | 1,25 | 3,5 | 27 | | |
| TQJ 27-1.25-0.20 | 0,20 | 1,25 | 3,5 | 27 | | |
| TQJ 27-1.40-0.00 | 0,00 | 1,40 | 2,0 | 27 | | |
| TQJ 27-1.47-0.00 | 0,00 | 1,47 | 2,5 | 27 | | |
| TQJ 27-1.50-0.10 | 0,10 | 1,50 | 5,0 | 27 | | |
| TQJ 27-1.50-0.20 | 0,20 | 1,50 | 5,0 | 27 | | |
| TQJ 27-1.57-0.15 | 0,15 | 1,57 | 3,0 | 27 | | |
| TQJ 27-1.57-0.79 | 0,79 | 1,57 | 3,0 | 27 | | |
| TQJ 27-1.70-0.10 | 0,10 | 1,70 | 3,0 | 27 | | |
| TQJ 27-1.75-0.10 | 0,10 | 1,75 | 3,0 | 27 | | |
| TQJ 27-1.75-0.20 | 0,20 | 1,75 | 3,0 | 27 | | |
| TQJ 27-1.78-0.18 | 0,18 | 1,78 | 3,0 | 27 | | |
| TQJ 27-1.85-0.20 | 0,20 | 1,85 | 3,0 | 27 | | |
| TQJ 27-1.96-0.15 | 0,15 | 1,96 | 3,0 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, PARTING AND RECESSING
4 ARÊTES DE COUPE, TOURNAGE, TRONÇONNAGE ET GORGES DE PRECISION

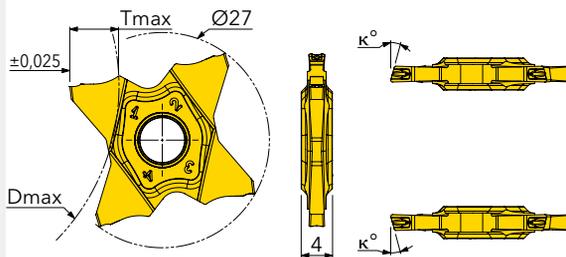


| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQJ 27-2.00-0.10 | 0,10 | 2,00 | 6,4 | 27 | | |
| TQJ 27-2.00-0.20 | 0,20 | 2,00 | 6,4 | 27 | | |
| TQJ 27-2.00-1.00 | 1,00 | 2,00 | 3,5 | 27 | | |
| TQJ 27-2.22-0.15 | 0,15 | 2,22 | 3,5 | 27 | | |
| TQJ 27-2.30-0.20 | 0,20 | 2,30 | 3,5 | 27 | | |
| TQJ 27-2.39-0.15 | 0,15 | 2,39 | 5,0 | 27 | | |
| TQJ 27-2.39-1.20 | 1,20 | 2,39 | 5,0 | 27 | | |
| TQJ 27-2.47-0.20 | 0,20 | 2,47 | 5,0 | 27 | | |
| TQJ 27-2.50-0.10 | 0,10 | 2,50 | 5,0 | 27 | | |
| TQJ 27-2.50-0.30 | 0,30 | 2,50 | 5,0 | 27 | | |
| TQJ 27-2.70-0.10 | 0,10 | 2,70 | 6,2 | 27 | | |
| TQJ 27-2.87-0.20 | 0,20 | 2,87 | 6,2 | 27 | | |
| TQJ 27-3.00-0.00 | 0,00 | 3,00 | 6,4 | 27 | | |
| TQJ 27-3.00-0.20 | 0,20 | 3,00 | 6,4 | 27 | | |
| TQJ 27-3.00-0.30 | 0,30 | 3,00 | 6,4 | 27 | | |
| TQJ 27-3.00-0.40 | 0,40 | 3,00 | 6,4 | 27 | | |
| TQJ 27-3.00-1.50 | 1,50 | 3,00 | 6,4 | 27 | | |
| TQJ 27-3.15-0.15 | 0,15 | 3,15 | 6,4 | 27 | | |
| TQJ 27-3.18-0.20 | 0,20 | 3,18 | 6,4 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



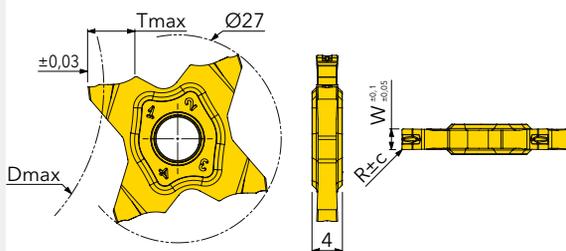
4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, PARTING AND RECESSING
4 ARÊTES DE COUPE, GORGES DE PRÉCISION ET CHARRIOTAGE



| Designation Réf. de l'article | R | K | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----|----------|------|----------|-----------------|--------|
| TQJ 27-1.00-15L | 0,06 | 15 | 1,00 | 3,5 | 27 | | |
| TQJ 27-1.50-6L | 0,06 | 6 | 1,50 | 5,0 | 27 | | |
| TQJ 27-1.50-15L | 0,06 | 15 | 1,50 | 5,0 | 27 | | |
| TQJ 27-2.00-6L | 0,10 | 6 | 2,00 | 6,4 | 27 | | |
| TQJ 27-2.00-15L | 0,10 | 15 | 2,00 | 6,4 | 27 | | |
| TQJ 27-1.00-15R | 0,06 | 15 | 1,00 | 3,5 | 27 | | |
| TQJ 27-1.50-6R | 0,06 | 6 | 1,50 | 5,0 | 27 | | |
| TQJ 27-1.50-15R | 0,06 | 15 | 1,50 | 5,0 | 27 | | |
| TQJ 27-2.00-6R | 0,10 | 6 | 2,00 | 6,4 | 27 | | |
| TQJ 27-2.00-15R | 0,10 | 15 | 2,00 | 6,4 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

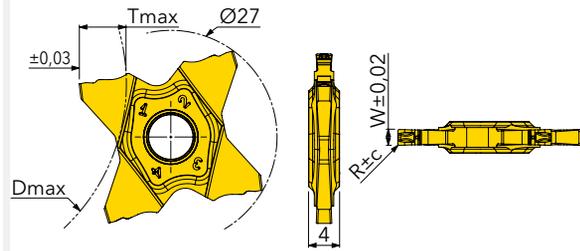
4-CUTTING EDGE INSERT, FOR CIRCLIP AND SHALLOW GROOVING
4 ARÊTES DE COUPE, POUR GORGES DE CIRCLIPS ET GORGES PEU PROFONDES



| Designation Réf. de l'article | R | W ± 0,1 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|---------|------|----------|-----------------|--------|
| TQJ 27-1.10-0.08-CG | 0,08 | 1,10 | 1,50 | 27 | | |
| TQJ 27-1.30-0.08-CG | 0,08 | 1,30 | 1,50 | 27 | | |
| TQJ 27-1.60-0.08-CG | 0,08 | 1,60 | 2,00 | 27 | | |
| TQJ 27-1.85-0.08-CG | 0,08 | 1,85 | 2,00 | 27 | | |
| TQJ 27-2.15-0.08-CG | 0,08 | 2,15 | 2,5 | 27 | | |
| TQJ 27-2.65-0.15-CG | 0,15 | 2,65 | 2,5 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

4-CUTTING EDGE INSERT, FOR PARTING AND GROOVING
4 ARÊTES DE COUPE, POUR TOURNAGE, TRONCONNAGE ET GORGES



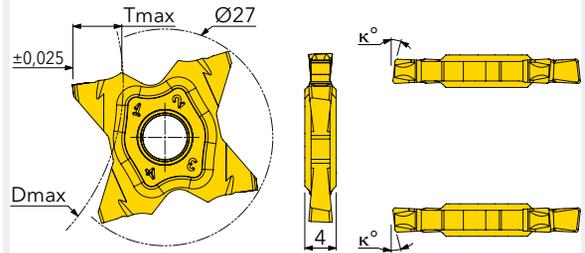
| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQC 27-1.50-0.10 | 0,10 | 1,50 | 5,7 | 27 | | |
| TQC 27-1.50-0.20 | 0,20 | 1,50 | 5,7 | 27 | | |
| TQC 27-1.57-0.15 | 0,15 | 1,57 | 3,0 | 27 | | |
| TQC 27-1.70-0.10 | 0,10 | 1,70 | 3,0 | 27 | | |
| TQC 27-1.75-0.10 | 0,10 | 1,75 | 3,0 | 27 | | |
| TQC 27-1.75-0.20 | 0,20 | 1,75 | 3,0 | 27 | | |
| TQC 27-1.78-0.18 | 0,18 | 1,78 | 3,0 | 27 | | |
| TQC 27-1.85-0.20 | 0,20 | 1,85 | 3,0 | 27 | | |
| TQC 27-1.96-0.15 | 0,15 | 1,96 | 3,0 | 27 | | |
| TQC 27-2.00-0.10 | 0,10 | 2,00 | 6,4 | 27 | | |
| TQC 27-2.00-0.20 | 0,20 | 2,00 | 6,4 | 27 | | |
| TQC 27-2.22-0.15 | 0,15 | 2,22 | 3,5 | 27 | | |
| TQC 27-2.30-0.20 | 0,20 | 2,30 | 3,5 | 27 | | |
| TQC 27-2.39-0.15 | 0,15 | 2,39 | 5,7 | 27 | | |
| TQC 27-2.47-0.20 | 0,20 | 2,47 | 5,7 | 27 | | |
| TQC 27-2.50-0.10 | 0,10 | 2,50 | 5,7 | 27 | | |
| TQC 27-2.50-0.30 | 0,30 | 2,50 | 5,7 | 27 | | |
| TQC 27-2.70-0.10 | 0,10 | 2,70 | 6,2 | 27 | | |
| TQC 27-2.87-0.20 | 0,20 | 2,87 | 6,2 | 27 | | |
| TQC 27-3.00-0.00 | 0,00 | 3,00 | 6,4 | 27 | | |
| TQC 27-3.00-0.20 | 0,20 | 3,00 | 6,4 | 27 | | |
| TQC 27-3.00-0.30 | 0,30 | 3,00 | 6,4 | 27 | | |
| TQC 27-3.00-0.40 | 0,40 | 3,00 | 6,4 | 27 | | |
| TQC 27-3.15-0.15 | 0,15 | 3,15 | 6,4 | 27 | | |
| TQC 27-3.18-0.20 | 0,20 | 3,18 | 6,4 | 27 | | |
| TQC 27-3.30-0.10 | 0,10 | 3,30 | 6,5 | 27 | | |
| TQC 27-3.48-0.20 | 0,20 | 3,48 | 6,5 | 27 | | |
| TQC 27-3.56-0.20 | 0,20 | 3,56 | 6,5 | 27 | | |
| TQC 27-3.74-0.20 | 0,20 | 3,74 | 6,5 | 27 | | |
| TQC 27-3.98-0.20 | 0,20 | 3,98 | 6,5 | 27 | | |
| TQC 27-4.00-0.30 | 0,30 | 4,00 | 6,5 | 27 | | |
| TQC 27-4.00-0.40 | 0,40 | 4,00 | 6,5 | 27 | | |
| TQC 27-4.00-0.80 | 0,80 | 4,00 | 6,5 | 27 | | |
| TQC 27-4.15-0.15 | 0,15 | 4,15 | 6,5 | 27 | | |
| TQC 27-4.23-0.10 | 0,10 | 4,23 | 6,5 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



GOLDFLEX TQC 27 R/L
TQC 27 R/L

4-CUTTING EDGE INSERT, FOR PARTING
4 ARÊTES DE COUPE, POUR TRONCONNAGE

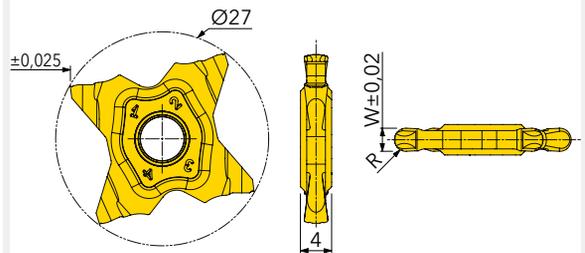


| Designation Réf. de l'article | R | K | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----|----------|------|----------|-----------------|--------|
| TQC 27-1.50-6L | 0,06 | 6 | 1,50 | 5,7 | 27 | | |
| TQC 27-1.50-15L | 0,06 | 15 | 1,50 | 5,7 | 27 | | |
| TQC 27-2.00-6L | 0,10 | 6 | 2,00 | 6,4 | 27 | | |
| TQC 27-2.00-15L | 0,10 | 15 | 2,00 | 6,4 | 27 | | |
| TQC 27-1.50-6R | 0,06 | 6 | 1,50 | 5,7 | 27 | | |
| TQC 27-1.50-15R | 0,06 | 15 | 1,50 | 5,7 | 27 | | |
| TQC 27-2.00-6R | 0,10 | 6 | 2,00 | 6,4 | 27 | | |
| TQC 27-2.00-15R | 0,10 | 15 | 2,00 | 6,4 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

GOLDFLEX TQC 27 (FULL RADIUS)
TQC 27 (HÉMISPHERIQUE)

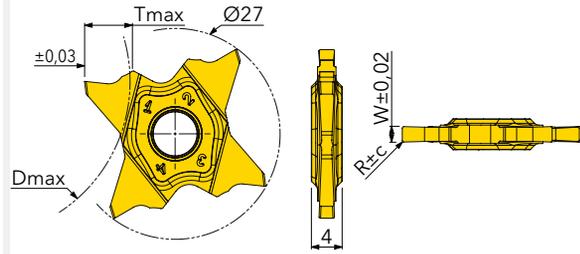
4-CUTTING EDGE INSERT, FOR FULL RADIUS
4 ARÊTES DE COUPE, POUR TOURNAGE ET GORGES HÉMISPHERIQUES



| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQC 27-1.57-0.79 | 0,79 | 1,57 | 3,0 | 27 | | |
| TQC 27-2.00-1.00 | 1,00 | 2,00 | 3,5 | 27 | | |
| TQC 27-2.39-1.20 | 1,20 | 2,39 | 5,7 | 27 | | |
| TQC 27-3.00-1.50 | 1,50 | 3,00 | 6,4 | 27 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

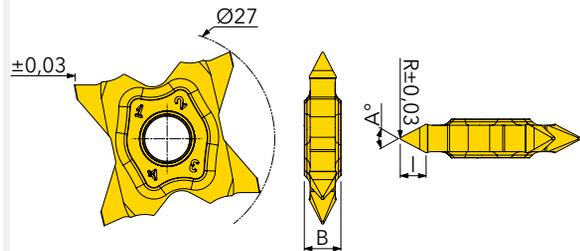
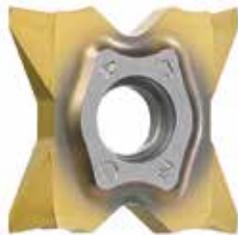
4-CUTTING EDGE INSERT, FOR PRECISION GROOVING, STRAIGHT CUTTING EDGES WITH HIGH POSITIVE RAKE ANGLE
4 ARÊTES DE COUPE, POUR DES GORGES PRÉCISES, ARÊTES DE COUPE DROITES AVEC ANGLE DE COUPE POSITIF



| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | CT3000 | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|--------|
| TQS 27-1.00-0.10 | 0,10 | 1,00 | 3,5 | 27 | | | |
| TQS 27-1.50-0.20 | 0,20 | 1,50 | 5,7 | 27 | | | |
| TQS 27-2.00-0.20 | 0,20 | 2,00 | 6,4 | 27 | | | |
| TQS 27-2.39-0.15 | 0,15 | 2,39 | 5,7 | 27 | | | |
| TQS 27-2.50-0.20 | 0,20 | 2,50 | 5,7 | 27 | | | |
| TQS 27-3.00-0.20 | 0,20 | 3,00 | 6,4 | 27 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

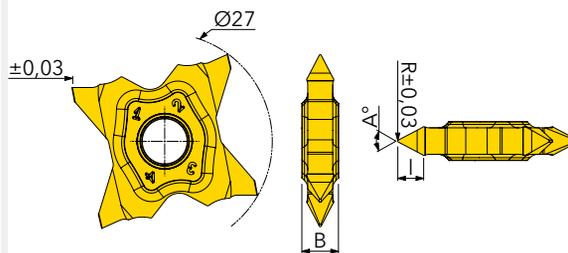
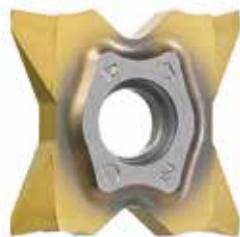
THREADING INSERT WITH 4 CUTTING EDGES PARTIAL PROFILE 60°
4 ARÊTES DE COUPE, POUR FILETAGE PROFIL PARTIEL 60°



| Designation Réf. de l'article | R | A | B | L | Insert-S | P min. | P max. | TPI min. | TPI max. | Grade Nuance | TT9080 |
|----------------------------------|------|----|-----|-----|----------|--------|-----------|-------------|-------------|-----------------|--------|
| TQS 27-4MT-0.05 | 0,05 | 60 | 4,0 | 2,8 | 27 | 0,45 | 0,175 x D | 5.7/D | 56 | | |
| TQS 27-4MT-0.14 | 0,14 | 60 | 4,0 | 2,7 | 27 | 1,11 | 0,175 x D | 5.7/D | 23 | | |
| TQS 27-5MT-0.15 | 0,15 | 60 | 5,0 | 3,1 | 27 | 1,25 | 0,175 x D | 5.7/D | 20 | | |
| TQS 27-5MT-0.20 | 0,20 | 60 | 5,0 | 3,1 | 27 | 1,63 | 0,175 x D | 5.7/D | 16 | | |
| TQS 27-6MT-0.25 | 0,25 | 60 | 6,0 | 3,6 | 27 | 1,94 | 0,175 x D | 5.7/D | 13 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

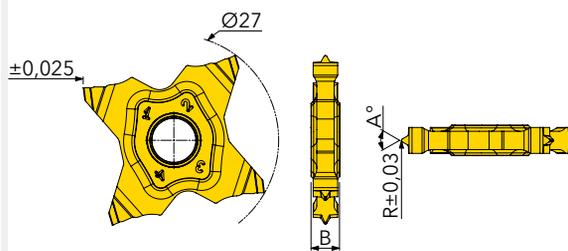
THREADING INSERT WITH 4 CUTTING EDGES PARTIAL PROFILE 55°
4 ARÊTES DE COUPE, POUR FILETAGE PROFIL PARTIEL 55°



| Designation Réf. de l'article | R | A | B | L | Insert-S | TPI min. | TPI max. | Grade Nuance | TT9080 |
|----------------------------------|------|----|-----|-----|----------|----------|----------|-----------------|--------|
| TQS 27-4WT-0.05 | 0,05 | 55 | 4,0 | 2,9 | 27 | 6,4 x D | 54 | | |
| TQS 27-5WT-0.15 | 0,15 | 55 | 5,0 | 3,3 | 27 | 6,4 x D | 19 | | |
| TQS 27-6WT-0.25 | 0,25 | 55 | 6,0 | 3,9 | 27 | 6,4 x D | 12 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

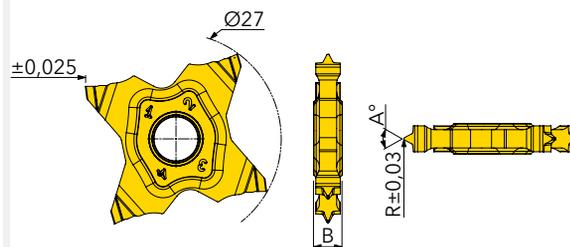
ISO-THREADING INSERT WITH 4 CUTTING EDGES
4 ARÊTES DE COUPE, POUR FILETAGE ISO



| Designation Réf. de l'article | R | A | B | Insert-S | P | Grade Nuance | TT9080 |
|----------------------------------|------|----|-----|----------|------|-----------------|--------|
| TQS 27-0.5-ISO | 0,08 | 60 | 4,0 | 27 | 0,50 | | |
| TQS 27-0.75-ISO | 0,11 | 60 | 4,0 | 27 | 0,75 | | |
| TQS 27-0.8-ISO | 0,12 | 60 | 4,0 | 27 | 0,80 | | |
| TQS 27-1.0-ISO | 0,14 | 60 | 4,0 | 27 | 1,00 | | |
| TQS 27-1.25-ISO | 0,18 | 60 | 4,0 | 27 | 1,25 | | |
| TQS 27-1.5-ISO | 0,22 | 60 | 4,0 | 27 | 1,50 | | |
| TQS 27-1.75-ISO | 0,25 | 60 | 4,0 | 27 | 1,75 | | |
| TQS 27-2.0-ISO | 0,28 | 60 | 4,0 | 27 | 2,00 | | |

● = P ● = M ● = K ● = N ● = S ○ = H

W-THREADING INSERT WITH 4 CUTTING EDGES
4 ARÊTES DE COUPE, POUR FILETAGE TYPE W

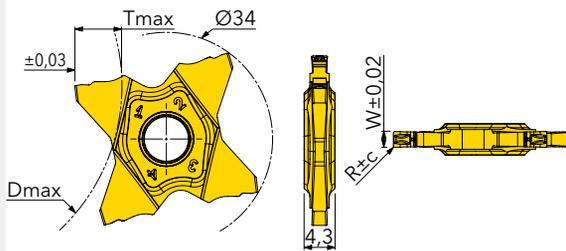


| Designation Réf. de l'article | R | A | B | Insert-S | TPI | Grade Nuance | TT9080 |
|----------------------------------|------|----|-----|----------|-----|-----------------|--------|
| TQS 27-28-W | 0,09 | 55 | 4,0 | 27 | 28 | | |
| TQS 27-19-W | 0,15 | 55 | 4,0 | 27 | 19 | | |
| TQS 27-18-W | 0,16 | 55 | 4,0 | 27 | 18 | | |
| TQS 27-16-W | 0,19 | 55 | 4,0 | 27 | 16 | | |
| TQS 27-14-W | 0,21 | 55 | 4,0 | 27 | 14 | | |
| TQS 27-12-W | 0,25 | 55 | 4,0 | 27 | 12 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



4-CUTTING EDGE INSERT, FOR PARTING AND GROOVING
4 ARÊTES DE COUPE, POUR TOURNAGE, TRONCONNAGE ET GORGES

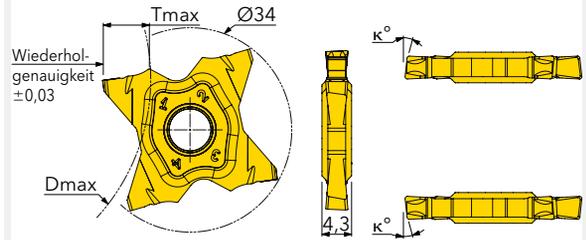


| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQC 34-1.50-0.15 | 0,15 | 1,50 | 9 | 34 | | |
| TQC 34-2.00-0.20 | 0,20 | 2,00 | 9 | 34 | | |
| TQC 34-2.30-0.20 | 0,20 | 2,30 | 9 | 34 | | |
| TQC 34-2.47-0.20 | 0,20 | 2,47 | 10 | 34 | | |
| TQC 34-2.50-0.20 | 0,20 | 2,50 | 10 | 34 | | |
| TQC 34-2.70-0.10 | 0,10 | 2,70 | 10 | 34 | | |
| TQC 34-3.00-0.20 | 0,20 | 3,00 | 10 | 34 | | |
| TQC 34-3.00-0.40 | 0,40 | 3,00 | 10 | 34 | | |
| TQC 34-3.18-0.20 | 0,20 | 3,18 | 10 | 34 | | |
| TQC 34-3.50-0.25 | 0,25 | 3,50 | 10 | 34 | | |
| TQC 34-4.00-0.30 | 0,30 | 4,00 | 10 | 34 | | |

for tool holders TQHR/L 34; TQHPR/L 34
Pour les porte-outils TQHR/L 34; TQHPR/L 34

● = P ● = M ● = K ● = N ● = S ○ = H

4-CUTTING EDGE INSERT, FOR PARTING
4 ARÊTES DE COUPE, POUR TRONÇONNAGE

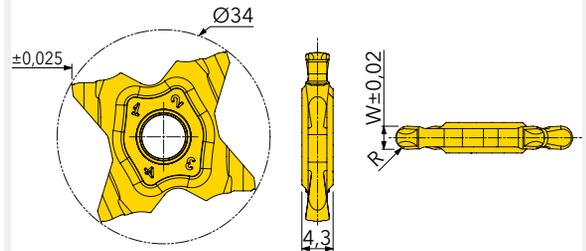


| Designation Réf. de l'article | R | K | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----|----------|------|----------|-----------------|--------|
| TQC 34-1.50-8L | 0,07 | 8 | 1,50 | 9 | 34 | | |
| TQC 34-2.00-6L | 0,10 | 6 | 2,00 | 9 | 34 | | |
| TQC 34-2.00-15L | 0,10 | 15 | 2,00 | 9 | 34 | | |
| TQC 34-3.00-6L | 0,20 | 6 | 3,00 | 10 | 34 | | |
| TQC 34-1.50-8R | 0,07 | 8 | 1,50 | 9 | 34 | | |
| TQC 34-2.00-6R | 0,10 | 6 | 2,00 | 9 | 34 | | |
| TQC 34-2.00-15R | 0,10 | 15 | 2,00 | 9 | 34 | | |
| TQC 34-3.00-6R | 0,20 | 6 | 3,00 | 10 | 34 | | |

for tool holders TQHR/L 34; TQHPR/L 34
Pour les porte-outils TQHR/L 34; TQHPR/L 34

● = P ● = M ● = K ● = N ● = S ○ = H

4-CUTTING EDGE INSERT, FOR FULL RADIUS
4 ARÊTES DE COUPE, POUR TOURNAGE ET GORGES HÉMISPHERIQUES

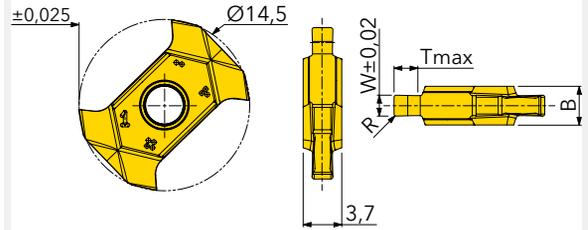


| Designation Réf. de l'article | R | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|------|----------|------|----------|-----------------|--------|
| TQC 34-2.00-1.00 | 1,00 | 2,00 | 9 | 34 | | |
| TQC 34-2.39-1.20 | 1,20 | 2,39 | 10 | 34 | | |
| TQC 34-3.00-1.50 | 1,50 | 3,00 | 10 | 34 | | |

for tool holders TQHR/L 34; TQHPR/L 34
Pour les porte-outils TQHR/L 34; TQHPR/L 34

● = P ● = M ● = K ● = N ● = S ○ = H

4 CUTTING EDGE INSERTS, FOR INTERNAL SHALLOW GROOVING
4 ARÊTES DE COUPE, POUR GORGES INTERIEURES



| Designation Réf. de l'article | R | B | W ± 0,02 | Tmax | Insert-S | Grade Nuance | TT9080 |
|----------------------------------|-----|-----|----------|------|----------|-----------------|--------|
| TQIS 14-1.50-0.10 | 0,1 | 3,7 | 1,50 | 2,00 | 14 | | |
| TQIS 14-2.00-0.10 | 0,1 | 3,7 | 2,00 | 2,50 | 14 | | |
| TQIS 14-2.00-0.20 | 0,2 | 3,7 | 2,00 | 2,50 | 14 | | |
| TQIS 14-2.50-0.20 | 0,2 | 3,7 | 2,50 | 2,50 | 14 | | |
| TQIS 14-3.00-0.20 | 0,2 | 3,7 | 3,00 | 2,50 | 14 | | |

● = P ● = M ● = K ● = N ● = S ○ = H



GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|--|--|------|
|  | WINCUT SFGB |  SFC | 412 |
|  | WINCUT SFGB-TB |  SFC | 412 |
|  | TBURST TTBU-TB |  SFC | 413 |
|  | WINCUT SFER/L |  SFC | 414 |
|  | WINCUT SFER/L-TB |  SFC | 415 |
|  | WINCUT SFTB |  SFC | 416 |
|  | WINCUT SFTB-TB |  SFC | 416 |
|  | WINCUT TGTB |  TDC | 417 |
|  | WINCUT TGTB-TB |  TDC | 417 |
|  | WINCUT THTBR/LTB |  TDC | 418 |
|  | TCLAMP^{ULTRA+} TGB 26 |  TDC | 419 |
|  | TCLAMP^{ULTRA+} TGB 32 |  TDC | 419 |
|  | TBURST TGB IHP |  TDC | 420 |
|  | COOLBURST TGB TB |  TDC | 420 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|--|--|------|
|  | TCLAMP^{ULTRA+} TGB 32_CL |  TDC | 421 |
|  | TCLAMP^{ULTRA+} TGB 52_CL |  TDC | 421 |
|  | TCLAMP^{ULTRA+} TGBR/L |  TDC | 422 |
|  | TCLAMP^{ULTRA+} TGBR/L_D50R/L |  TDXT | 423 |
|  | TCLAMP^{ULTRA+} TGBR/L_TI_D36R/L |  TDXT | 424 |
|  | TCLAMP^{ULTRA+} TGBFR/L |  TDC | 425 |
|  | TCLAMP^{ULTRA} TTBN | | 426 |
|  | TCLAMP^{ULTRA+} TTBU | | 426 |
|  | TBURST TTBHP | | 427 |
|  | TBURST BHP-RR/RL/LL/LR | | 428 |
|  | TBURST VDI_BHP | | 429 |
|  | TBURST VDI_B_ | | 430 |
|  | TBURST VDI_C_ | | 431 |
|  | TBURST VDI-CHP | | 432 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|---|--|------|
|  | TBURST TB Accessories | | 433 |
|  | TBURST TB Coupling system TB kits / flexibles / raccords | | 433 |
|  | RHINO GROOVE RGER/L |  RDC | 434 |
|  | RHINO GROOVE RGER/L-SH |  RDC | 435 |
|  | TCLAMP^{ULTRA+} TCAER/L |  TDC | 436 |
|  | TCLAMP^{ULTRA+} TCAFL |  TDXT | 437 |
|  | TCLAMP^{ULTRA+} TCAFR |  TDXT | 438 |
|  | GOLD FLEX TCAQR/L |  TQJ | 439 |
|  | GOLD FLEX TCAQR/L 20 - TB |  TQJ | 439 |
|  | TCLAMP^{ULTRA+} TCAHR/L | | 440 |
|  | TCLAMP^{ULTRA+} TCAHPR/L | | 441 |
|  | TCLAMP^{ULTRA+} C-TCAHN Parallel Typ C-TCAHN Type parallèle | | 441 |
|  | TCLAMP^{ULTRA+} C-TCAHPN Perpendicular Typ C-TCAHPN Type Perpendiculaire | | 442 |
|  | COOLBURST TCAHR/L-TB | | 443 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|-----------------------------------|--|------|
|  | COOLBURST TCAHPR/L-TB | | 444 |
|  | COOLBURST C-TCAHN-TB | | 445 |
|  | COOLBURST C-TCAHPN-TB | | 446 |
|  | COOLBURST TCAER/L-TB |  TDC | 447 |
|  | COOLBURST TCAQR/L 27-TB |  TQC | 447 |
|  | FACEFLEX TXFR/L |  TDFX | 448 |
|  | FACEFLEX TXFR/L-TB |  TDFX | 448 |
|  | FACEFLEX TXFPR/L |  TDFX | 449 |
|  | FACEFLEX TXFPR/L-TB |  TDFX | 449 |
|  | GOLDFLEX TQHR/L 20 |  TQJ | 450 |
|  | COOLBURST TQHR/L 20-TB |  TQJ | 450 |
|  | GOLDFLEX TQBR/L |  TQJ | 451 |
|  | GOLDFLEX TQHR/L |  TQC | 452 |
|  | TBURST TQHR/L-TB |  TQS | 453 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|--|--|------|
|  | GOLD FLEX TQHR/L 34 |  TQC | 453 |
|  | GOLD FLEX TQHR/L 34 -TB |  TQC | 454 |
|  | GOLD FLEX TQHPR/L 34 |  TQC | 454 |
|  | QUAD FLEX TQHIR/L |  TOIS | 455 |
|  | TCLAMP^{ULTRA+} TTER/L - short |  TDC | 456 |
|  | TCLAMP^{ULTRA+} TTER/L |  TDC | 457 |
|  | TBURST TTER/L -TB |  TSA | 458 |
|  | TCLAMP^{ULTRA+} TTER/L - long |  TDC | 460 |
|  | TBURST TTER/L LONG IHP |  TDXT | 462 |
|  | TCLAMP^{ULTRA+} TTER/L-SH |  TDC | 463 |
|  | TBURST TTER/L _SH-TB |  TDA | 464 |
|  | TCLAMP^{ULTRA+} TTER/L -D |  TDC | 465 |
|  | TCLAMP^{ULTRA+} TGER/L |  TDC | 466 |
|  | TCLAMP^{ULTRA+} TTFR/L |  TDC | 467 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | Code / Série | Page |
|---|--|---|------|
|  | TCLAMP^{ULTRA+} TTFL_RN (Renewed Type) |  TDC | 468 |
|  | TCLAMP^{ULTRA+} TTFR_RN (Renewed Type) |  TDC | 469 |
|  | TCLAMP^{ULTRA+} TTFFPR/L |  TDC | 470 |
|  | TCLAMP^{ULTRA+} TGFR/L |  TDC | 471 |
|  | TCLAMP^{ULTRA+} TGFFPR/L |  TDC | 472 |
|  | TCLAMP^{ULTRA+} TGEUR/L |  TDT | 473 |
|  | TCLAMP^{ULTRA+} TTIR/L |  TDC | 474 |
|  | COOLBURST TTIR/LTB |  TDC | 475 |
|  | TCLAMP^{ULTRA+} TTIR/LC |  TDC | 476 |
|  | TCLAMP^{ULTRA+} TTIR/L-T |  TDC | 477 |
|  | TCLAMP^{ULTRA+} TTFFIR/L |  TDC | 478 |
|  | TCLAMP^{ULTRA+} TGIFR/L |  TDFT | 479 |
|  | TCLAMP^{ULTRA+} TGIUR/L |  TDT | 480 |
|  | TCLAMP^{ULTRA+} TGSIR/L |  TDIP | 481 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

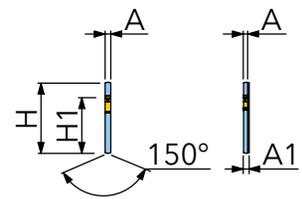
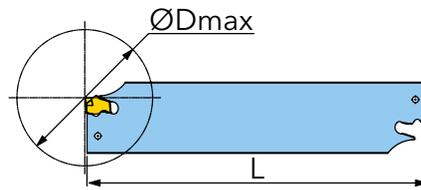


GROOVING HOLDER / PORTE-OUTILS A GORGE

| | Designation / Désignation | | Code / Série | Page |
|---|---|--|--------------|------|
|  | TCLAMP^{ULTRA+} TTSIR/L |  | TDIM | 482 |
|  | WINGROOVE TMIHL/R |  | TMIR/L | 483 |
|  | WINGROOVE TMIHL/R -C |  | TMIR/L | 483 |
|  | FLEXTURN QE1 TQHR |  | TQJ | 484 |
|  | FLEXTURN QE1 TQHR-TB |  | TQJ | 484 |
|  | FLEXTURN QE1 TTER/L |  | TDC | 485 |
|  | FLEXTURN QE1 TTER/L-TB |  | TDC | 486 |
|  | TMODULAR DTC_TTIR/L-TB |  | TDXT | 487 |
|  | TMODULAR C-DTA | | | 488 |
|  | TABSORBER DTA-7D / 10D (Adaption) DTA-7D / 10D (Attachement) | | | 489 |
| | | | | |
| | | | | |
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Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

BLADES FOR PARTING AND DEEP GROOVING
LAMES POUR TRONÇONNAGE ET GORGES PROFONDES



Typ 1

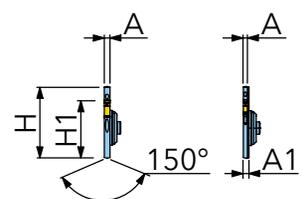
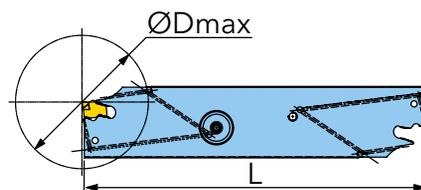
Typ 2

| Designation Réf. de l'article | D max. | L | H | H1 | A | A1 | Typ | Insert-S | kg |  |
|----------------------------------|--------|-----|----|------|-----|-----|-----|----------|------|---|
| SFGB 32-1.6 | 38 | 150 | 32 | 24,8 | 1,3 | 2,5 | 2 | 1 | 0,25 |  |
| SFGB 32-2 | 50 | 150 | 32 | 24,8 | 1,8 | 2,5 | 2 | 2 | 0,25 |  |
| SFGB 32-3 | 100 | 150 | 32 | 24,8 | 2,5 | - | 1 | 3 | 0,25 |  |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur

BLADES FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER - HIGH PRESSURE -
LAMES AVEC ARROSAGE INTÉGRÉ POUR TRONÇONNAGE ET GORGES - HAUTE PRESSION



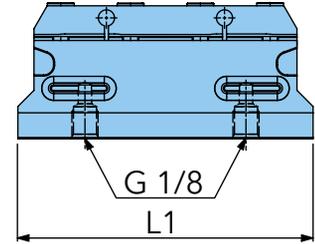
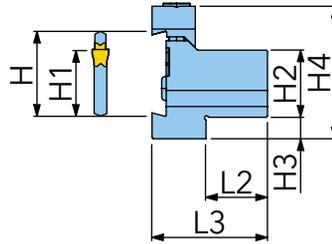
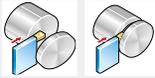
Typ 1

Typ 2

| Designation Réf. de l'article | D max. | L | H | H1 | A | A1 | Typ | Insert-S | kg |  |  |  |
|----------------------------------|--------|-----|----|------|-----|-----|-----|----------|------|---|---|---|
| SFGB 32-2-TB | 50 | 150 | 32 | 24,8 | 1,8 | 2,5 | 2 | 2 | 0,25 | ✓ |  |  |
| SFGB 32-3-TB | 100 | 150 | 32 | 24,8 | 2,5 | - | 1 | 3 | 0,25 | ✓ |  |  |

① = Extractor / Extracteur ② = Sealing screw set / jeu de vis étanche

BLOCKS FOR PARTING AND DEEP GROOVING BLADES WITH INTERNAL COOLANT TRANSFER
BLOCS PORTE-LAMES AVEC ARROSAGE INTÉGRÉ



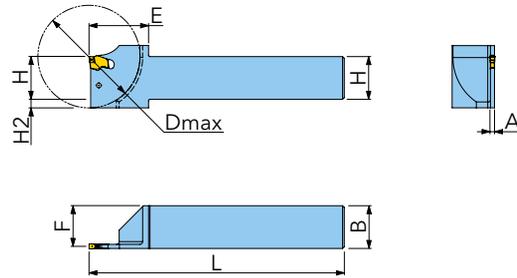
| Designation Réf. de l'article | L1 | L2 | L3 | H | H1 | H2 | H3 | H4 | B | kg | IK |
|----------------------------------|-----|----|------|----|------|----|----|------|-----|------|----|
| TTBU 20-32-TB | 100 | 19 | 39,2 | 32 | 24,8 | 20 | 15 | 36,4 | 5,3 | 0,66 | ✓ |
| TTBU 25-32-TB | 110 | 23 | 43,2 | 32 | 24,8 | 25 | 8 | 41,4 | 5,3 | 0,88 | ✓ |
| TTBU 32-32-TB | 110 | 29 | 49,2 | 32 | 24,8 | 32 | 5 | 48,4 | 5,3 | 1,24 | ✓ |

| Designation Réf. de l'article | ① | ② | ③ | ④ |
|----------------------------------|-----------------|---------|-----------------|------|
| TTBU 20-32-TB | SR M6X16 DIN912 | BKU 100 | O-RING ID14X2.5 | LW 5 |
| TTBU 25-32-TB | SR M6X16 DIN912 | BKU 110 | O-RING ID14X2.5 | LW 5 |
| TTBU 32-32-TB | SR M6X16 DIN912 | BKU 110 | O-RING ID14X2.5 | LW 5 |

① = Clamp screw / Vis de serrage ② = Clamp / Bride ③ = O-Ring / Joint ④ = Wrench / Clé de serrage



EXTERNAL HOLDER FOR PARTING AND DEEP GROOVING
PORTE-OUTIL EXTÉRIEUR POUR TRONÇONNAGE ET GORGES PROFONDES

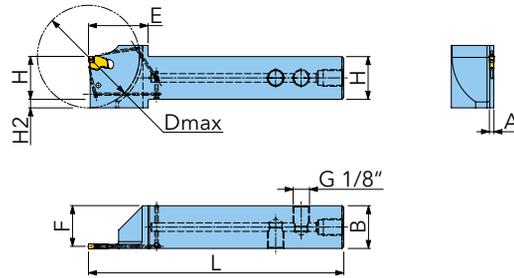
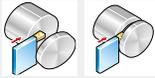


| Designation Réf. de l'article | D max. | L | H | H2 | A | B | E | F | Insert-S | kg |  |
|----------------------------------|--------|-----|----|-----|-----|----|------|------|----------|------|---|
| SFEL 2020-1.6T22-D45 | 45 | 150 | 20 | 2,5 | 1,3 | 20 | 29,5 | 19,4 | 1 | 0,45 | ETG 3-4 |
| SFEL 2525-2T25-D50 | 50 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 2 | 0,85 | ETG 3-4 |
| SFEL 2525-3T30-D60 | 60 | 150 | 25 | 5 | 2,4 | 25 | 35 | 23,8 | 3 | 0,85 | ETG 3-4 |
| SFER 2020-1.6T22-D45 | 45 | 150 | 20 | 2,5 | 1,3 | 20 | 29,5 | 19,4 | 1 | 0,45 | ETG 3-4 |
| SFER 2525-2T25-D50 | 50 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 2 | 0,85 | ETG 3-4 |
| SFER 2525-3T30-D60 | 60 | 150 | 25 | 5 | 2,4 | 25 | 35 | 23,8 | 3 | 0,85 | ETG 3-4 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur

EXTERNAL HOLDER FOR PARTING AND DEEP GROOVING WITH INTERNAL COOLANT
PORTE-OUTIL EXTÉRIEUR POUR TRONÇONNAGE ET GORGES PROFONDES AVEC ARROSAGE INTERNE



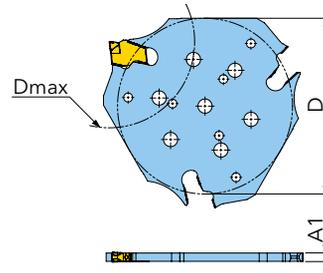
| Designation Réf. de l'article | D max. | L | H | H2 | A | B | E | F | Insert-S | kg | IK |
|----------------------------------|--------|-----|----|----|-----|----|----|------|----------|------|----|
| SFEL 2525-2T25-D50-TB | 50 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 2 | 0,85 | ✓ |
| SFEL 2525-3T30-D60-TB | 60 | 150 | 25 | 5 | 2,4 | 25 | 35 | 23,8 | 3 | 0,85 | ✓ |
| SFER 2525-2T25-D50-TB | 50 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 2 | 0,85 | ✓ |
| SFER 2525-3T30-D60-TB | 60 | 150 | 25 | 5 | 2,4 | 25 | 35 | 23,8 | 3 | 0,85 | ✓ |

Extractor in not included. / Extracteur non inclus

| Designation Réf. de l'article | ①  | ②  | ③  |
|----------------------------------|---|---|---|
| SFEL 2525-2T25-D50-TB | PLG G1/8-L6.5 | LW 5 | ETG 3-4 |
| SFEL 2525-3T30-D60-TB | PLG G1/8-L6.5 | LW 5 | ETG 3-4 |
| SFER 2525-2T25-D50-TB | PLG G1/8-L6.5 | LW 5 | ETG 3-4 |
| SFER 2525-3T30-D60-TB | PLG G1/8-L6.5 | LW 5 | ETG 3-4 |

① = Plug / Tube ② = Wrench / Clé de serrage ③ = Extractor / Extracteur

TRIANGULAR BLADES FOR PARTING AND DEEP GROOVING
LAMES TRIANGULAIRES POUR TRONÇONNAGE ET GORGES PROFONDES

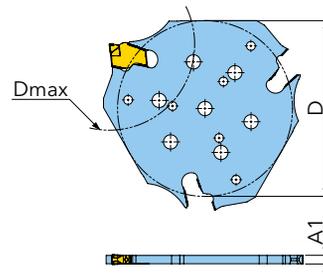
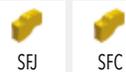


| Designation Réf. de l'article | D | D max. | A1 | Insert-S | kg | |
|----------------------------------|------|--------|-----|----------|------|---|
| SFTB D52-2 | 53,2 | 52 | 1,8 | 2 | 0,20 | ①  |
| SFTB D52-3 | 53,2 | 52 | 2,5 | 3 | 0,20 | ETG 3-4 |
| SFTB D82-2 | 64,3 | 82 | 1,8 | 2 | 0,30 | ETG 3-4 |
| SFTB D82-3 | 64,3 | 82 | 2,5 | 3 | 0,30 | ETG 3-4 |
| SFTB D120-2 | 85,5 | 120 | 1,8 | 2 | 0,40 | ETG 3-4 |
| SFTB D120-3 | 85,5 | 120 | 2,5 | 3 | 0,40 | ETG 3-4 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur

TRIANGULAR BLADES FOR PARTING AND DEEP GROOVING WITH INTERNAL COOLANT
LAMES TRIANGULAIRES POUR TRONÇONNAGE ET GORGES PROFONDES AVEC ARROSAGE INTÉGRÉ

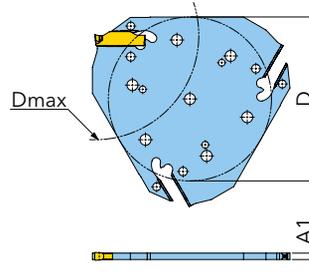
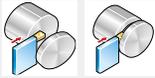


| Designation Réf. de l'article | D | D max. | A1 | Insert-S | kg | IK | |
|----------------------------------|------|--------|-----|----------|-------|----|---|
| SFTB D52-2-TB | 53,2 | 52 | 1,8 | 2 | 0,029 | ✓ | ①  ②  |
| SFTB D52-3-TB | 53,2 | 52 | 2,5 | 3 | 0,039 | ✓ | ETG 3-4 SGC 340-Q |
| SFTB D82-2-TB | 64,3 | 82 | 1,8 | 2 | 0,050 | ✓ | ETG 3-4 SGC 340-Q |
| SFTB D82-3-TB | 64,3 | 82 | 2,5 | 3 | 0,068 | ✓ | ETG 3-4 SGC 340-Q |
| SFTB D120-2-TB | 85,5 | 120 | 1,8 | 2 | 0,103 | ✓ | ETG 3-4 SGC 340-Q |
| SFTB D120-3-TB | 85,5 | 120 | 2,5 | 3 | 0,141 | ✓ | ETG 3-4 SGC 340-Q |

Extractor in not included. / Extracteur non inclus.

① = Extractor / Extracteur ② = Clamp screw / Clamp screw

TRIANGULAR BLADES FOR PARTING AND DEEP GROOVING
LAMES TRIANGULAIRES POUR TRONÇONNAGE ET GORGES PROFONDES

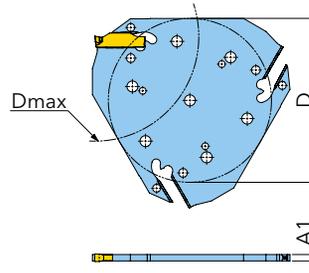


| Designation Réf. de l'article | D | D max. | A1 | Insert-S | kg | | ① |
|----------------------------------|------|--------|-----|----------|------|--|---------|
| TGTB D52-2 | 53,2 | 52 | 1,8 | 2 | 0,20 | | EDG 33B |
| TGTB D52-3 | 53,2 | 52 | 2,5 | 3 | 0,20 | | EDG 33B |
| TGTB D82-2 | 64,3 | 82 | 1,8 | 2 | 0,30 | | EDG 33B |
| TGTB D82-3 | 64,3 | 82 | 2,5 | 3 | 0,30 | | EDG 33B |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur

TRIANGULAR BLADES FOR PARTING AND DEEP GROOVING WITH INTERNAL COOLANT
LAMES TRIANGULAIRES POUR TRONÇONNAGE ET GORGES PROFONDES AVEC ARROSAGE INTÉGRÉ

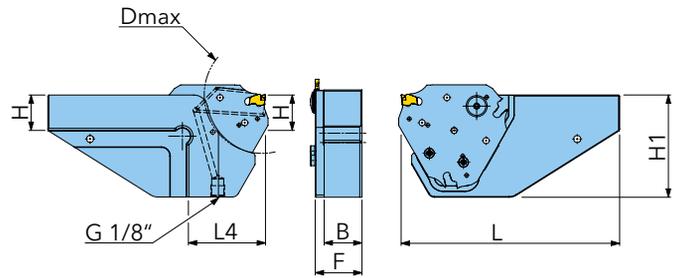


| Designation Réf. de l'article | D | D max. | A1 | Insert-S | kg | IK | ① | ② |
|----------------------------------|------|--------|-----|----------|-------|----|---------|-----------|
| TGTB D52-2-TB | 53,2 | 52 | 1,8 | 2 | 0,028 | ✓ | EDG 33B | SGC 340-Q |
| TGTB D52-3-TB | 53,2 | 52 | 2,5 | 3 | 0,039 | ✓ | EDG 33B | SGC 340-Q |
| TGTB D82-2-TB | 64,3 | 82 | 1,8 | 2 | 0,050 | ✓ | EDG 33B | SGC 340-Q |
| TGTB D82-3-TB | 64,3 | 82 | 2,5 | 3 | 0,065 | ✓ | EDG 33B | SGC 340-Q |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur ② = Clamp screw / Clamp screw

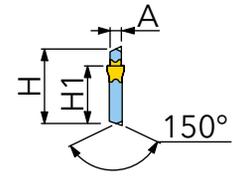
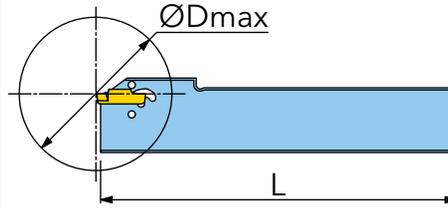
**HOLDER FOR TRIANGULAR BLADE
PORTE-OUTIL POUR LAMES TRIANGULAIRES**



| Designation Réf. de l'article | D max. | L | L4 | H | H1 | B | F | kg | IK | ① | ② | ③ |
|----------------------------------|--------|-----|------|----|----|------|------|------|----|-----------------|---------------|-----|
| THTBL 20-D52-TB | 52 | 125 | 40 | 20 | 52 | 17,5 | 23,5 | 0,66 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBL 25-D52-TB | 52 | 135 | 40 | 25 | 52 | 22,5 | 28,5 | 0,85 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBL 20-D82-TB | 82 | 140 | 51,5 | 20 | 72 | 17,5 | 23,5 | 0,80 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBL 25-D82-TB | 82 | 150 | 51,5 | 25 | 72 | 22,5 | 28,5 | 1,10 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBL 25-D120-TB | 120 | 165 | 67 | 25 | 95 | 22,5 | 28,5 | 1,29 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBL 32-D120-TB | 120 | 165 | 67 | 32 | 95 | 29,0 | 35,0 | 1,79 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 20-D52-TB | 52 | 125 | 40 | 20 | 52 | 17,5 | 23,5 | 0,66 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 25-D52-TB | 52 | 135 | 40 | 25 | 52 | 22,5 | 28,5 | 0,85 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 20-D82-TB | 82 | 140 | 51,5 | 20 | 72 | 17,5 | 23,5 | 0,80 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 25-D82-TB | 82 | 150 | 51,5 | 25 | 72 | 22,5 | 28,5 | 1,10 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 25-D120-TB | 120 | 165 | 67 | 25 | 95 | 22,5 | 28,5 | 1,29 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |
| THTBR 32-D120-TB | 120 | 165 | 67 | 32 | 95 | 29,0 | 35,0 | 1,79 | ✓ | SH M4x0.7X10-TX | O-RING ID10x2 | T20 |

① = Clamp screw / Vis de serrage ② = O-Ring / Joint ③ = Wrench / Clé de serrage

BLADES FOR PARTING AND DEEP GROOVING
LAMES POUR TRONCONNAGE ET GORGES PROFONDES

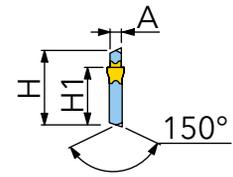
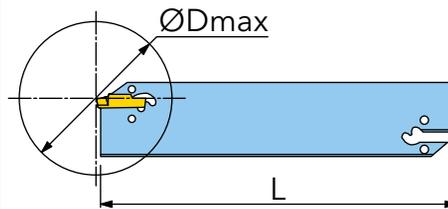


| Designation Réf. de l'article | D max. | L | H | H1 | A | Tmax | Insert-S | kg | | | |
|----------------------------------|--------|-----|----|------|-----|------|----------|-------|---------|---------|---------|
| TGB 26-1,4S | 26 | 150 | 26 | 21,4 | 1,0 | 13 | 1 | 0,066 | EDG 23B | TTBN_26 | TTBU_26 |
| TGB 26-2S | 40 | 150 | 26 | 21,4 | 1,8 | 20 | 2 | 0,066 | EDG 33B | TTBN_26 | TTBU_26 |
| TGB 26-3S | 50 | 150 | 26 | 21,4 | 2,4 | 25 | 3 | 0,069 | EDG 33B | TTBN_26 | TTBU_26 |
| TGB 26-4S | 80 | 150 | 26 | 21,4 | 3,2 | 40 | 4 | 0,090 | EDG 33B | TTBN_26 | TTBU_26 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur ② = Block / Bloc ③ = Block / Bloc

BLADES FOR PARTING AND DEEP GROOVING
LAMES POUR TRONCONNAGE ET GORGES PROFONDES

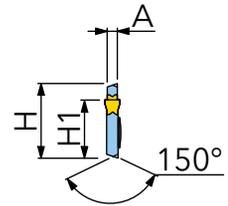
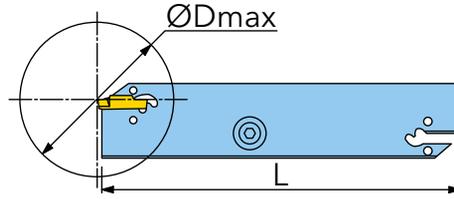


| Designation Réf. de l'article | D max. | L | H | H1 | A | Tmax | Insert-S | kg | | | |
|----------------------------------|--------|-----|----|------|-----|------|----------|-------|---------|---------|---------|
| TGB 32-1,4 | 26 | 150 | 32 | 24,8 | 1,0 | 13 | 1 | 0,077 | EDG 23B | TTBN_32 | TTBU_32 |
| TGB 32-2 | 50 | 150 | 32 | 24,8 | 1,8 | 25 | 2 | 0,076 | EDG 33B | TTBN_32 | TTBU_32 |
| TGB 32-3 | 100 | 150 | 32 | 24,8 | 2,4 | 50 | 3 | 0,081 | EDG 33B | TTBN_32 | TTBU_32 |
| TGB 32-4 | 100 | 150 | 32 | 24,8 | 3,2 | 50 | 4 | 0,107 | EDG 33B | TTBN_32 | TTBU_32 |
| TGB 32-5 | 120 | 150 | 32 | 24,8 | 4,0 | 60 | 5 | 0,128 | EDG 33B | TTBN_32 | TTBU_32 |
| TGB 32-6 | 120 | 150 | 32 | 24,8 | 5,2 | 60 | 6 | 0,164 | EDG 33B | TTBN_32 | TTBU_32 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur ② = Block / Bloc ③ = Block / Bloc

**BLADES FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER - HIGH PRESSURE -
LAMES AVEC ARROSAGE INTÉGRÉ POUR TRONÇONNAGE ET GORGES - HAUTE PRESSION**

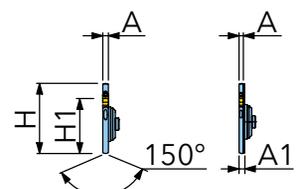
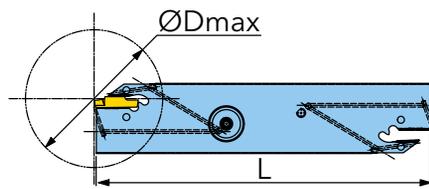


| Designation Réf. de l'article | D max. | L | H | H1 | A | Tmax | Insert-S | kg | IK | ① | ② |
|----------------------------------|--------|-----|----|------|------|------|----------|-------|----|---------|------------|
| TGB 26-2S-IHP | 52 | 150 | 26 | 21,4 | 1,8 | 26 | 2 | - | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 26-3S-IHP | 60 | 150 | 26 | 21,4 | 2,25 | 30 | 3 | 0,082 | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 26-4S-IHP | 80 | 150 | 26 | 21,4 | 3,1 | 40 | 4 | - | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 32-2-IHP | 62 | 150 | 32 | 25 | 1,8 | 31 | 2 | - | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 32-3-IHP | 100 | 150 | 32 | 25 | 2,25 | 50 | 3 | 0,180 | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 32-4-IHP | 100 | 150 | 32 | 25 | 3,1 | 50 | 4 | - | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 32-5-IHP | 120 | 150 | 32 | 25 | 4,1 | 60 | 5 | - | ✓ | EDG 33B | VS-M4X4.75 |
| TGB 32-6-IHP | 120 | 150 | 32 | 25 | 5,1 | 60 | 6 | 0,300 | ✓ | EDG 33B | VS-M4X4.75 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur ② = Setting screw / Vis de réglage

**BLADES FOR PARTING AND GROOVING WITH HIGH-PRESSURE COOLANT
LAMES AVEC ARROSAGE INTÉGRÉ POUR TRONÇONNAGE ET GORGES - HAUTE PRESSION**



Typ 1

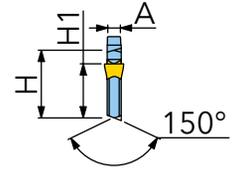
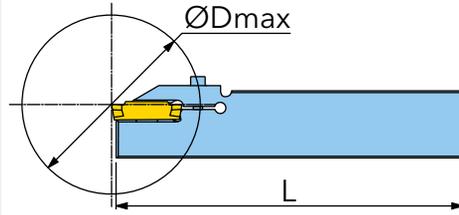
Typ 2

| Designation Réf. de l'article | D max. | L | H | H1 | A | A1 | Typ | Insert-S | kg | IK | ① | ② |
|----------------------------------|--------|-----|----|------|-----|-----|-----|----------|-------|----|---------|---------|
| TGB 32-2-TB | 50 | 150 | 32 | 24,9 | 1,8 | 2,5 | 2 | 2 | 0,050 | ✓ | SGC 340 | EDG 33B |
| TGB 32-3-TB | 100 | 150 | 32 | 24,9 | 2,5 | - | 1 | 3 | 0,075 | ✓ | SGC 340 | EDG 33B |
| TGB 32-4-TB | 100 | 150 | 32 | 24,9 | 3,2 | - | 1 | 4 | 0,100 | ✓ | SGC 340 | EDG 33B |
| TGB 32-5-TB | 120 | 150 | 32 | 24,9 | 4,0 | - | 1 | 5 | 0,125 | ✓ | SGC 340 | EDG 33B |
| TGB 32-6-TB | 120 | 150 | 32 | 24,9 | 5,2 | - | 1 | 6 | 0,150 | ✓ | SGC 340 | EDG 33B |

Extractor in not included. / Extracteur non inclus

① = Sealing screw set / jeu de vis étanche ② = Extractor / Extracteur

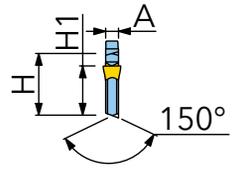
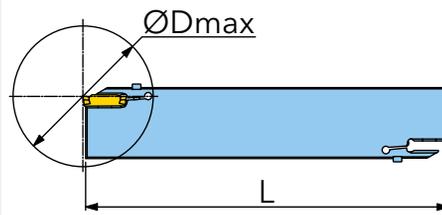
BLADES FOR PARTING AND DEEP GROOVING
LAMES POUR TRONCONNAGE ET GORGES PROFONDES



| Designation Réf. de l'article | D max. | L | H | H1 | A | Tmax | Insert-S | kg | ① | ② | ③ | ④ |
|----------------------------------|--------|-----|----|------|-----|------|----------|-------|---------|-----------------|---------|---------|
| TGB 32-8S-CL | 80 | 150 | 32 | 24,9 | 6,2 | 40 | 8 | 0,201 | WS-0060 | SH M4x0.7x20-MO | TTBN_32 | TTBU_32 |

① = Wrench / Clé de serrage ② = Clamp screw / Vis de serrage ③ = Block / Bloc ④ = Block / Bloc

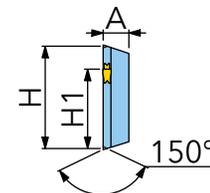
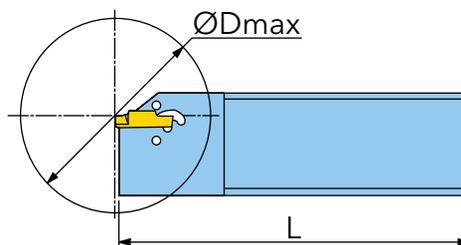
BLADES FOR PARTING AND DEEP GROOVING
LAMES POUR TRONCONNAGE ET GORGES PROFONDES



| Designation Réf. de l'article | D max. | L | H | H1 | A | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|-----|----|------|-----|------|----------|-------|---------|-----------------|
| TGB 52-8-CL | 200 | 250 | 52 | 45,2 | 6,8 | 100 | 8 | 0,685 | WS-0060 | SH M4x0.7x20-MO |

① = Wrench / Clé de serrage ② = Clamp screw / Vis de serrage

REINFORCED BLADES FOR PARTING AND DEEP GROOVING
LAMES DE TRONÇONNAGE ET GORGES PROFONDES RENFORCÉES

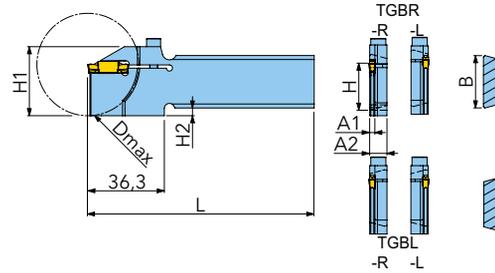


| Designation Réf. de l'article | D max. | L | H | H1 | A | B | Tmax | Insert-S | kg |  |  |  |
|----------------------------------|--------|-----|----|------|-----|------|------|----------|-------|---|---|---|
| TGBL 32T24-2 | 42 | 110 | 32 | 24,9 | 1,8 | 8,0 | 21 | 2 | 0,170 | EDG 33B | TTBN_-32 | TTBU_-32 |
| TGBL 32T33-3 | 60 | 110 | 32 | 24,9 | 2,4 | 8,0 | 30 | 3 | 0,160 | EDG 33B | TTBN_-32 | TTBU_-32 |
| TGBL 32T41-4 | 80 | 110 | 32 | 24,9 | 3,2 | 10,0 | 40 | 4 | 0,186 | EDG 33B | TTBN_-32 | TTBU_-32 |
| TGBR 32T24-2 | 42 | 110 | 32 | 24,9 | 1,8 | 8,0 | 21 | 2 | 0,171 | EDG 33B | TTBN_-32 | TTBU_-32 |
| TGBR 32T33-3 | 60 | 110 | 32 | 24,9 | 2,4 | 8,0 | 30 | 3 | 0,159 | EDG 33B | TTBN_-32 | TTBU_-32 |
| TGBR 32T41-4 | 80 | 110 | 32 | 24,9 | 3,2 | 10,0 | 40 | 4 | 0,186 | EDG 33B | TTBN_-32 | TTBU_-32 |

Extractor in not included. / Extracteur non inclus

① = Extractor / Extracteur ② = Block / Bloc ③ = Block / Bloc

REINFORCED TYPE BLADES WITH SCREW CLAMPING
LAMES RENFORCÉES AVEC SERRAGE PAR VIS

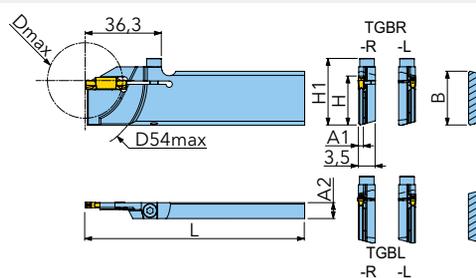


| Designation Réf. de l'article | D max. | L | H | H1 | H2 | A1 | A2 | B | Insert-S | kg |
|----------------------------------|--------|-----|------|------|-----|-----|----|----|----------|-------|
| TGBR 26-2-D50R | 50 | 110 | 21,4 | 33,7 | 3,6 | 1,8 | 8 | 26 | 2 | 0,130 |
| TGBR 26-2-D50L | 50 | 110 | 21,4 | 33,7 | 3,6 | 1,8 | 8 | 26 | 2 | 0,150 |
| TGBL 26-2-D50R | 50 | 110 | 21,4 | 33,7 | 3,6 | 1,8 | 8 | 26 | 2 | 0,140 |
| TGBL 26-2-D50L | 50 | 110 | 21,4 | 33,7 | 3,6 | 1,8 | 8 | 26 | 2 | 0,150 |
| TGBR 26-3-D50R | 50 | 110 | 21,4 | 33,7 | 3,6 | 2,4 | 8 | 26 | 3 | 0,280 |
| TGBR 26-3-D50L | 50 | 110 | 21,4 | 33,7 | 3,6 | 2,4 | 8 | 26 | 3 | 0,160 |
| TGBL 26-3-D50R | 50 | 110 | 21,4 | 33,7 | 3,6 | 2,4 | 8 | 26 | 3 | 0,140 |
| TGBL 26-3-D50L | 50 | 110 | 21,4 | 33,7 | 3,6 | 2,4 | 8 | 26 | 3 | 0,160 |
| TGBR 32-2-D50R | 50 | 120 | 24,9 | 33,7 | - | 1,8 | 8 | 32 | 2 | 0,180 |
| TGBR 32-2-D50L | 50 | 120 | 24,9 | 33,7 | - | 1,8 | 8 | 32 | 2 | 0,180 |
| TGBL 32-2-D50R | 50 | 120 | 24,9 | 33,7 | - | 1,8 | 8 | 32 | 2 | 0,180 |
| TGBL 32-2-D50L | 50 | 120 | 24,9 | 33,7 | - | 1,8 | 8 | 32 | 2 | 0,180 |
| TGBR 32-3-D50R | 50 | 120 | 24,9 | 33,7 | - | 2,4 | 8 | 32 | 3 | 0,160 |
| TGBR 32-3-D50L | 50 | 120 | 24,9 | 33,7 | - | 2,4 | 8 | 32 | 3 | 0,180 |
| TGBL 32-3-D50R | 50 | 120 | 24,9 | 33,7 | - | 2,4 | 8 | 32 | 3 | 0,160 |
| TGBL 32-3-D50L | 50 | 120 | 24,9 | 33,7 | - | 2,4 | 8 | 32 | 3 | 0,180 |

| Designation Réf. de l'article | ① | ② | ③ | ④ |
|----------------------------------|--------------|---------|---------|---------|
| TGBR 26-2-D50R | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBR 26-2-D50L | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBL 26-2-D50R | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBL 26-2-D50L | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBR 26-3-D50R | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBR 26-3-D50L | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBL 26-3-D50R | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBL 26-3-D50L | SH M4X0.7X16 | WS-0060 | TTBN_26 | TTBU_26 |
| TGBR 32-2-D50R | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBR 32-2-D50L | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBL 32-2-D50R | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBL 32-2-D50L | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBR 32-3-D50R | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBR 32-3-D50L | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBL 32-3-D50R | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |
| TGBL 32-3-D50L | SH M4X0.7X16 | WS-0060 | TTBN_32 | TTBU_32 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Block / Bloc ④ = Block / Bloc

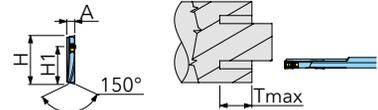
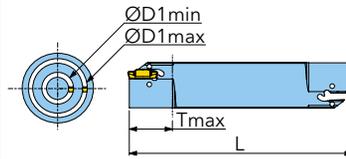
REINFORCED TYPE BLADES WITH SCREW CLAMPING FOR TRAUB AND INDEX MACHINES
LAMES RENFORCÉES AVEC SERRAGE PAR VIS POUR MACHINES TRAUB ET INDEX



| Designation Réf. de l'article | D max. | L | H | H1 | A1 | A2 | B | Insert-S | kg | ① | ② | ③ | ④ |
|----------------------------------|--------|-----|------|------|-----|----|----|----------|-------|--------------|---------|----------|----------|
| TGBR 26-2TI-D36R | 36 | 110 | 21,4 | 27,9 | 1,6 | 8 | 26 | 2 | 0,490 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBL 26-2TI-D36R | 36 | 110 | 21,4 | 27,9 | 1,6 | 8 | 26 | 2 | 0,150 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBR 26-2TI-D36L | 36 | 110 | 21,4 | 27,9 | 1,6 | 8 | 26 | 2 | 0,130 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBL 26-2TI-D36L | 36 | 110 | 21,4 | 27,9 | 1,6 | 8 | 26 | 2 | 0,150 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBR 26-3TI-D36R | 36 | 110 | 21,4 | 27,9 | 2,4 | 8 | 26 | 3 | 0,470 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBL 26-3TI-D36R | 36 | 110 | 21,4 | 27,9 | 2,4 | 8 | 26 | 3 | 0,150 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBR 26-3TI-D36L | 36 | 110 | 21,4 | 27,9 | 2,4 | 8 | 26 | 3 | 0,120 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |
| TGBL 26-3TI-D36L | 36 | 110 | 21,4 | 27,9 | 2,4 | 8 | 26 | 3 | 0,150 | SH M4X0.7X16 | WS-0060 | TTBN_-26 | TTBU_-26 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Block / Bloc ④ = Block / Bloc

FACE GROOVING BLADE
LAME POUR GORGES FRONTALES

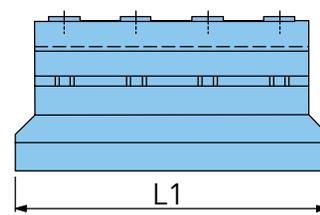
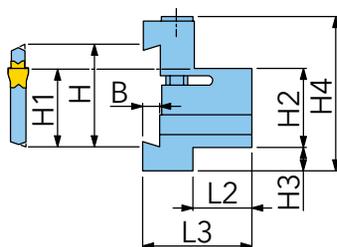


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | H1 | A | Tmax | Insert-S | kg | ① | ② | ③ |
|----------------------------------|---------|---------|-----|----|------|-----|------|----------|-------|---------|---------|---------|
| TGBFL 32T20-40-60-3 | 40 | 60 | 150 | 32 | 24,8 | 5,2 | 20 | 3 | 0,137 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T20-54-80-3 | 54 | 80 | 150 | 32 | 24,8 | 5,2 | 20 | 3 | 0,135 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T25-74-120-3 | 74 | 120 | 150 | 32 | 24,8 | 5,2 | 25 | 3 | 0,135 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T25-114-180-3 | 114 | 180 | 150 | 32 | 24,8 | 5,2 | 25 | 3 | 0,135 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T25-40-60-4 | 40 | 60 | 150 | 32 | 24,8 | 5,2 | 25 | 4 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T25-50-80-4 | 50 | 80 | 150 | 32 | 24,8 | 5,2 | 25 | 4 | 0,135 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T30-70-130-4 | 70 | 130 | 150 | 32 | 24,8 | 5,2 | 30 | 4 | 0,128 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T30-120-200-4 | 120 | 200 | 150 | 32 | 24,8 | 5,2 | 30 | 4 | 0,132 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T30-200-4 | 200 | - | 150 | 32 | 24,9 | 5,2 | 30 | 4 | 0,130 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T32-60-95-5 | 60 | 95 | 150 | 32 | 24,8 | 5,2 | 32 | 5 | 0,130 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T35-85-140-5 | 85 | 140 | 150 | 32 | 24,8 | 5,2 | 35 | 5 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T35-130-250-5 | 130 | 250 | 150 | 32 | 24,8 | 5,2 | 35 | 5 | 0,138 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T35-250-5 | 250 | - | 150 | 32 | 24,9 | 5,2 | 35 | 5 | 0,140 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T32-80-180-6 | 80 | 180 | 150 | 32 | 24,8 | 5,2 | 32 | 6 | 0,140 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T38-168-300-6 | 168 | 300 | 150 | 32 | 24,8 | 5,2 | 38 | 6 | 0,150 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFL 32T38-300-6 | 300 | - | 150 | 32 | 24,9 | 5,2 | 38 | 6 | 0,154 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T20-40-60-3 | 40 | 60 | 150 | 32 | 24,8 | 5,2 | 20 | 3 | 0,136 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T20-54-80-3 | 54 | 80 | 150 | 32 | 24,8 | 5,2 | 20 | 3 | 0,138 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T25-74-120-3 | 74 | 120 | 150 | 32 | 24,8 | 5,2 | 25 | 3 | 0,130 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T25-114-180-3 | 114 | 180 | 150 | 32 | 24,8 | 5,2 | 25 | 3 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T25-40-60-4 | 40 | 60 | 150 | 32 | 24,8 | 5,2 | 25 | 4 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T25-50-80-4 | 50 | 80 | 150 | 32 | 24,8 | 5,2 | 25 | 4 | 0,135 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T30-70-130-4 | 70 | 130 | 150 | 32 | 24,8 | 5,2 | 30 | 4 | 0,128 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T30-120-200-4 | 120 | 200 | 150 | 32 | 24,8 | 5,2 | 30 | 4 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T30-200-4 | 200 | - | 150 | 32 | 24,9 | 5,2 | 30 | 4 | 0,130 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T32-60-95-5 | 60 | 95 | 150 | 32 | 24,8 | 5,2 | 32 | 5 | 0,130 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T35-85-140-5 | 85 | 140 | 150 | 32 | 24,8 | 5,2 | 35 | 5 | 0,132 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T35-130-250-5 | 130 | 250 | 150 | 32 | 24,8 | 5,2 | 35 | 5 | 0,138 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T35-250-5 | 250 | - | 150 | 32 | 24,9 | 5,2 | 35 | 5 | 0,138 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T32-80-180-6 | 80 | 180 | 150 | 32 | 24,8 | 5,2 | 32 | 6 | 0,134 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T38-168-300-6 | 168 | 300 | 150 | 32 | 24,8 | 5,2 | 38 | 6 | 0,142 | EDG 33B | TTBN_32 | TTBU_32 |
| TGBFR 32T38-300-6 | 300 | - | 150 | 32 | 24,9 | 5,2 | 38 | 6 | 0,159 | EDG 33B | TTBN_32 | TTBU_32 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Extractor / Extracteur ② = Block / Bloc ③ = Block / Bloc

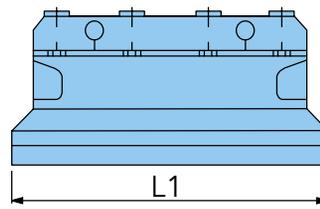
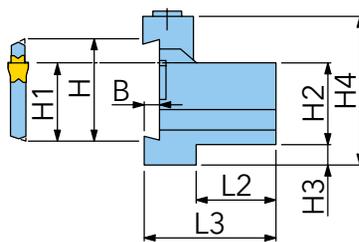
BLOCKS FOR PARTING AND DEEP GROOVING BLADES
BLOCS PORTE-LAMES



| Designation Réf. de l'article | L1 | L2 | L3 | H | H1 | H2 | H3 | H4 | B | kg | ① | ② |
|----------------------------------|-----|----|----|----|------|----|----|----|-----|-------|------------|------|
| TTBN 16-26 | 87 | 15 | 29 | 26 | 21,0 | 16 | 12 | 38 | 4,0 | 0,380 | SH M6x1x25 | LW 5 |
| TTBN 20-26 | 87 | 19 | 33 | 26 | 21,4 | 20 | 8 | 38 | 4,0 | 0,470 | SH M6x1x25 | LW 5 |
| TTBN 25-26 | 110 | 20 | 34 | 26 | 21,4 | 25 | 3 | 38 | 4,0 | 0,705 | SH M6x1x25 | LW 5 |
| TTBN 20-32 | 100 | 19 | 35 | 32 | 24,8 | 20 | 13 | 48 | 5,5 | 0,650 | SH M6x1x40 | LW 5 |
| TTBN 25-32 | 110 | 20 | 36 | 32 | 24,8 | 25 | 8 | 48 | 5,5 | 0,810 | SH M6x1x40 | LW 5 |
| TTBN 32-32 | 120 | 28 | 44 | 32 | 24,8 | 32 | 3 | 48 | 5,5 | 1,270 | SH M6x1x40 | LW 5 |
| TTBN 25-45 | 110 | 22 | 40 | 45 | 38,1 | 25 | 25 | 66 | 5,5 | 0,860 | SH M6x1x40 | LW 5 |
| TTBN 32-45 | 120 | 28 | 45 | 45 | 38,1 | 32 | 18 | 66 | 5,5 | 1,560 | SH M6x1x40 | LW 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

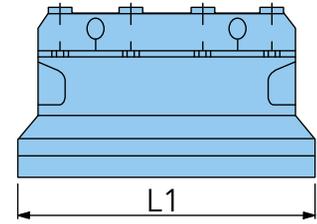
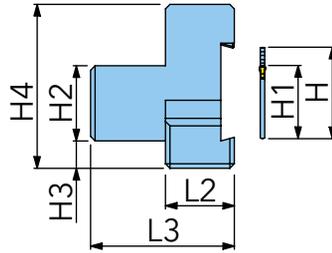
BLOCKS FOR PARTING AND DEEP GROOVING BLADES
BLOCS PORTE-LAMES



| Designation Réf. de l'article | L1 | L2 | L3 | H | H1 | H2 | H3 | H4 | B | kg | ① | ② | ③ |
|----------------------------------|-----|----|----|----|------|----|----|----|-----|-------|----------|---------|------|
| TTBU 20-26 | 86 | 21 | 38 | 26 | 21,4 | 20 | 9 | 43 | 4,0 | 0,504 | SR M6x30 | BKU 86 | LW 5 |
| TTBU 20-32 | 100 | 19 | 38 | 32 | 24,8 | 20 | 13 | 50 | 5,3 | 0,644 | SR M6x30 | BKU 100 | LW 5 |
| TTBU 25-26 | 110 | 23 | 42 | 26 | 21,4 | 25 | 5 | 45 | 4,0 | 0,850 | SR M6x30 | BKU 100 | LW 5 |
| TTBU 25-32 | 110 | 23 | 42 | 32 | 24,8 | 25 | 8 | 50 | 5,3 | 0,866 | SR M6x30 | BKU 100 | LW 5 |
| TTBU 32-32 | 110 | 29 | 48 | 32 | 24,8 | 32 | 5 | 54 | 5,3 | 1,214 | SR M6x30 | BKU 100 | LW 5 |
| TTBU 25-45 | 110 | 23 | 42 | 45 | 38,1 | 25 | 27 | 70 | 5,3 | | SR M6x30 | BKU 100 | LW 5 |

① = Clamp screw / Vis de serrage ② = Clamp / Bride ③ = Wrench / Clé de serrage

BLOCK FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER
BLOC PORTE-LAMES POUR LAMES AVEC ARROSAGE INTÉGRÉ



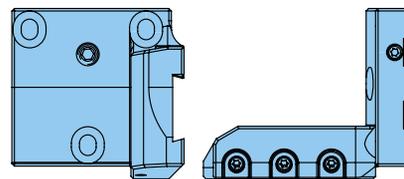
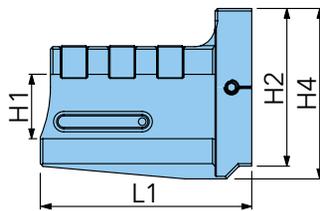
| Designation Réf. de l'article | L1 | L2 | L3 | H | H1 | H2 | H3 | H4 | B | Ⓚ |
|----------------------------------|----|----|----|----|------|----|------|----|-----|---|
| TTBHP 20-26 | 78 | 20 | 43 | 26 | 21,4 | 20 | 11 | 45 | 4,5 | ✓ |
| TTBHP 20-32 | 78 | 20 | 43 | 32 | 24,8 | 20 | 6 | 52 | 4,5 | ✓ |
| TTBHP 25-26 | 90 | 25 | 48 | 26 | 21,4 | 25 | 15,6 | 45 | 4,5 | ✓ |
| TTBHP 25-32 | 90 | 25 | 48 | 32 | 24,8 | 25 | 10,6 | 52 | 4,5 | ✓ |

Extractor in not included. /

| Designation Réf. de l'article | ①  | ②  | ③  | ④  | ⑤  |
|----------------------------------|---|---|---|---|--|
| TTBHP 20-26 | DS-T15S | SP-ASS | SS M6X1.0X28.5 | PT 0.125X8-L5.5 | O-Ring 21.5x1 |
| TTBHP 20-32 | DS-T15S | SP-ASS | SS M6X1.0X28.5 | PT 0.125X8-L5.5 | O-Ring 21.5x1 |
| TTBHP 25-26 | DS-T15S | SP-ASS | SS M6X1.0X28.5 | PT 0.125X8-L5.5 | O-Ring 21.5x1 |
| TTBHP 25-32 | DS-T15S | SP-ASS | SS M6X1.0X28.5 | PT 0.125X8-L5.5 | O-Ring 21.5x1 |

① = Screw driver / Tournevis ② = Clamp / Bride ③ = Set screw / Vis de serrage ④ = Plug / Tube ⑤ = O-Ring / Joint

**MODULAR HOLDER FOR BLADES WITH COOLANT DELIVERY
BLOC MODULAIRE POUR LAMES AVEC ARROSAGE INTÉGRÉ**



Designation
Réf. de l'article

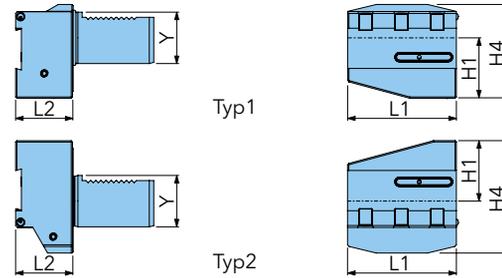
| | L1 | H1 | H2 | H4 | |
|---------------------|------|----|----|----|---|
| CHP-LL-63-26 | 83,5 | 26 | 62 | 67 | ✓ |
| CHP-LL-85-26 | 83,5 | 26 | 83 | - | ✓ |
| CHP-LR-63-26 | 83,5 | 26 | 62 | 67 | ✓ |
| CHP-LR-85-26 | 83,5 | 26 | 83 | - | ✓ |
| CHP-RL-63-26 | 83,5 | 26 | 62 | 67 | ✓ |
| CHP-RL-85-26 | 83,5 | 26 | 83 | - | ✓ |
| CHP-RR-63-26 | 83,5 | 26 | 62 | 67 | ✓ |
| CHP-RR-85-26 | 83,5 | 26 | 83 | - | ✓ |

Designation
Réf. de l'article

| CHP-LL-63-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
|---------------------|----------------|--------|---------------|--------------|--------------|----------------|--------------|
| CHP-LL-85-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-LR-63-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-LR-85-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-RL-63-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-RL-85-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-RR-63-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |
| CHP-RR-85-26 | SS M6X1.0X28.5 | SP-ASS | O-Ring 22X1.3 | O-Ring 7X2.5 | DIN 913 M6X8 | DIN 913 M8X1X6 | DIN 913 M4X4 |

① = Set screw / Vis de serrage ② = Clamp / Bride ③ = O-Ring / Joint ④ = O-Ring / Joint ⑤ = Set screw / Vis de serrage ⑥ = Set screw / Vis de serrage ⑦ = Set screw / Vis de serrage

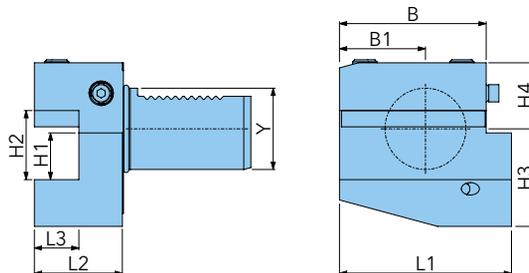
BLOCK FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER
BLOC PORTE-LAMES POUR LAMES AVEC ARROSAGE INTÉGRÉ



| Designation Réf. de l'article | L1 | L2 | H1 | H4 | Y | Typ | IK | ① | ② | ③ | ④ | ⑤ | ⑥ |
|----------------------------------|-----|----|----|------|----|-----|----|---------|--------|----------------|-------------|-------------------|-------|
| VDI20-BHP-26 | 55 | 36 | 29 | 47 | 20 | 1 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 27x1 | O-Ring 18.77x1.78 | KSP 6 |
| VDI25-BHP-26 | 60 | 36 | 29 | 47 | 25 | 1 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 27x1 | O-Ring 25.07x2.62 | KSP 6 |
| VDI30-BHP-32 | 70 | 40 | 37 | 57,4 | 30 | 1 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 28.30x1.78 | KSP 6 |
| VDI40-BHP-32 | 85 | 45 | 47 | 73 | 40 | 1 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 37.77x2.62 | KSP 6 |
| VDI50-BHP-32 | 100 | 62 | 47 | 75,5 | 50 | 1 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 47.29x2.62 | KSP 6 |
| VDI20-BHP-26-B | 55 | 36 | 30 | 55 | 20 | 2 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 27x1 | O-Ring 18.77x1.78 | KSP 6 |
| VDI25-BHP-26-B | 60 | 36 | 30 | 55 | 25 | 2 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 27x1 | O-Ring 25.07x2.62 | KSP 6 |
| VDI30-BHP-32-B | 70 | 40 | 37 | 72 | 30 | 2 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 28.30x1.78 | KSP 6 |
| VDI40-BHP-32-B | 85 | 45 | 47 | 87,4 | 40 | 2 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 37.77x2.62 | KSP 6 |
| VDI50-BHP-32-B | 100 | 62 | 47 | 96,2 | 50 | 2 | ✓ | DS-T15S | SP-ASS | SS M6X1.0X28.5 | O-Ring 29x1 | O-Ring 47.29x2.62 | KSP 6 |

① = Screw driver / Tournevis ② = Clamp / Bride ③ = Set screw / Vis de serrage ④ = O-Ring / Joint ⑤ = O-Ring / Joint ⑥ = Nozzle / Embout

BLOCK FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER RADIAL
BLOC POUR PORTE-OUTILS AVEC ARROSAGE INTÉGRÉ - MONTAGE RADIAL

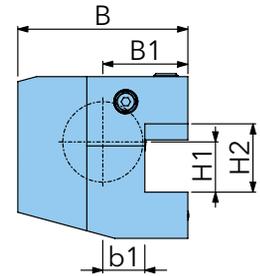
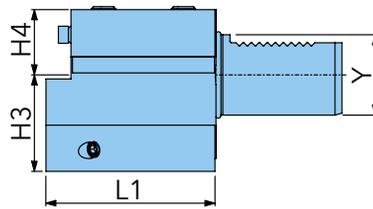


| Designation Réf. de l'article | L1 | L2 | L3 | H1 | H2 | H3 | H4 | B | B1 | Y | Typ |
|----------------------------------|----|----|----|----|----|------|----|----|------|----|-----|
| VDI30-B1-20 | 70 | 40 | 22 | 20 | 29 | 35 | 38 | 70 | 35 | 30 | B1 |
| VDI30-B2-20 | 70 | 40 | 22 | 20 | 29 | 35 | 38 | 70 | 35 | 30 | B2 |
| VDI30-B3-20 | 70 | 40 | 22 | 20 | 29 | 35 | 38 | 70 | 35 | 30 | B3 |
| VDI30-B4-20 | 70 | 40 | 22 | 20 | 29 | 35 | 38 | 70 | 35 | 30 | B4 |
| VDI40-B1-25 | 85 | 44 | 22 | 25 | 34 | 42,5 | 48 | 85 | 42,5 | 40 | B1 |
| VDI40-B2-25 | 85 | 44 | 22 | 25 | 34 | 42,5 | 48 | 85 | 42,5 | 40 | B2 |
| VDI40-B3-25 | 85 | 44 | 22 | 25 | 34 | 42,5 | 48 | 85 | 42,5 | 40 | B3 |
| VDI40-B4-25 | 85 | 44 | 22 | 25 | 34 | 42,5 | 48 | 85 | 42,5 | 40 | B4 |

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|------------|--------------------|-------------------|---------------|-----------------|----------------|--------------------|----------------|
| VDI30-B1-20 | | | | | | | | |
| VDI30-B2-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 59X18X5 M6 | DIN 2098 1X7X13 | DIN 913 M10X20 | DIN 912 M6X18 | DIN 913 M10X16 |
| VDI30-B3-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 59X18X5 M6 | DIN 2098 1X7X13 | DIN 913 M10X20 | DIN 912 M6X18 | DIN 913 M10X16 |
| VDI30-B4-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 59X18X5 M6 | DIN 2098 1X7X13 | DIN 913 M10X20 | DIN 912 M6X25-12.9 | DIN 913 M10X25 |
| VDI40-B1-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 913 M12X25 | DIN 912 M6X25-12.9 | - |
| VDI40-B2-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 913 M12X25 | DIN 912 M6X25-12.9 | - |
| VDI40-B3-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 913 M12X30 | DIN 912 M6X35-12.9 | DIN 913 M12X35 |
| VDI40-B4-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 913 M12X30 | DIN 912 M6X35-12.9 | DIN 913 M12X35 |

① = Nozzle / Embout ② = Clamp screw / Vis de serrage ③ = O-Ring / Joint ④ = Pressure plate / Vis de pression ⑤ = Pressure spring / Ressort
⑥ = Set screw / Vis de réglage ⑦ = Clamp screw / Vis de serrage ⑧ = Set screw / Vis de réglage

BLOCK FOR PARTING AND GROOVING WITH INTERNAL COOLANT TRANSFER AXIAL
BLOC POUR PORTE-OUTILS AVEC ARROSAGE INTÉGRÉ - MONTAGE AXIAL

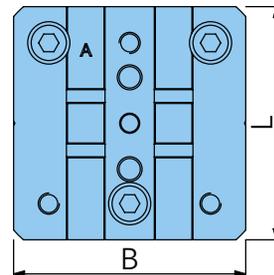
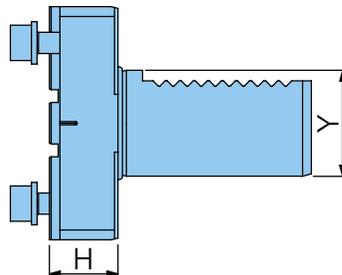


| Designation Réf. de l'article | L1 | H1 | H2 | H3 | H4 | B | B1 | b1 | Y | Typ | IK |
|----------------------------------|----|----|----|----|------|----|------|------|----|-----|----|
| VDI30-C1-20 | 70 | 20 | 29 | 38 | 28 | 70 | 35 | 17 | 30 | C1 | ✓ |
| VDI30-C2-20 | 70 | 20 | 29 | 38 | 28 | 70 | 35 | 17 | 30 | C2 | ✓ |
| VDI30-C3-20 | 70 | 20 | 29 | 38 | 28 | 70 | 35 | 17 | 30 | C3 | ✓ |
| VDI30-C4-20 | 70 | 20 | 29 | 38 | 28 | 70 | 35 | 17 | 30 | C4 | ✓ |
| VDI40-C1-25 | 85 | 25 | 34 | 48 | 32,5 | 85 | 42,5 | 20,5 | 40 | C1 | ✓ |
| VDI40-C2-25 | 85 | 25 | 34 | 48 | 32,5 | 85 | 42,5 | 50,5 | 40 | C2 | ✓ |
| VDI40-C3-25 | 85 | 25 | 34 | 48 | 32,5 | 85 | 42,5 | 20,5 | 40 | C3 | ✓ |
| VDI40-C4-25 | 85 | 25 | 34 | 48 | 32,5 | 85 | 42,5 | 20,5 | 40 | C4 | ✓ |

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|----------------------------------|------------|--------------------|-------------------|---------------|-----------------|--------------------|----------------|
| VDI30-C1-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 60X18X6 M6 | DIN 2098 1X7X13 | DIN 912 M6X18 | DIN 913 M10X20 |
| VDI30-C2-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 60X18X6 M6 | DIN 2098 1X7X13 | DIN 912 M6X18 | DIN 913 M10X20 |
| VDI30-C3-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 60X18X6 M6 | DIN 2098 1X7X13 | DIN 912 M6X25-12.9 | DIN 913 M10X25 |
| VDI30-C4-20 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 28.30x1.78 | DP 60X18X6 M6 | DIN 2098 1X7X13 | DIN 912 M6X25-12.9 | DIN 913 M10X25 |
| VDI40-C1-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 912 M6X25-12.9 | DIN 913 M12X25 |
| VDI40-C2-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 912 M6X25-12.9 | DIN 913 M12X25 |
| VDI40-C3-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 912 M6X35-12.9 | DIN 913 M12X35 |
| VDI40-C4-25 | KSD M12-M5 | DIN 912 M5X10-12.9 | O-Ring 37.77x2.62 | DP 71X22X8 M6 | DIN 2098 1X7X13 | DIN 912 M6X35-12.9 | DIN 913 M12X35 |

① = Nozzle / Embout ② = Clamp screw / Vis de serrage ③ = O-Ring / Joint ④ = Pressure plate / Vis de pression ⑤ = Pressure spring / Ressort
⑥ = Clamp screw / Vis de serrage ⑦ = Set screw / Vis de réglage

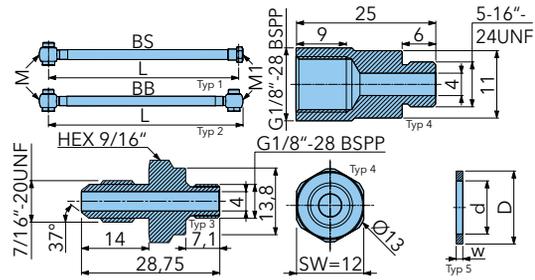
TOOLING SYSTEM FOR MODULAR HOLDER WITH COOLANT DELIVERY
BASE VDI POUR BLOC MODULAIRE AVEC ARROSAGE INTÉGRÉ



| Designation Réf. de l'article | d1 | L | H | B | Y | | | | | |
|----------------------------------|----|------|------|----|----|---|--|---------------|-------------------|--|
| VDI25-CHP-63 | 25 | 61,2 | 18,5 | 60 | 25 | ✓ | DIN 912 M6x16-12.9 SCHEIBE ISO 7091-68 | DIN 6325 6x40 | O-Ring 23.52x1.78 | |
| VDI30-CHP-63 | 30 | 66 | 18,5 | 66 | 30 | ✓ | DIN 912 M6x16-12.9 SCHEIBE ISO 7091-68 | DIN 6325 6x40 | O-Ring 28.30x1.78 | |
| VDI40-CHP-85 | 40 | 85 | 18,5 | 85 | 40 | ✓ | DIN 912 M6x16-12.9 SCHEIBE ISO 7091-88 | DIN 6325 6x40 | O-Ring 37.77x2.62 | |

① = Setting screw / Vis de réglage ② = Shim / Assise de protection ③ = Cylinder pin / Goupille cylindrique ④ = O-Ring / Joint

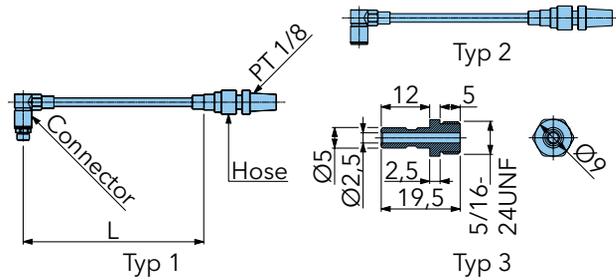
COOLANT HOSE / ADAPTER / SEAL WASHER
FLEXIBLE DE REFROIDISSEMENT / ADAPTATEUR / RONDELLE D'ETANCHEITE



| Designation Réf. de l'article | D | d | L | xs | N | W | Y | Typ | n max. |
|----------------------------------|----|----|-----|----|----------------|---|----------------|-----|--------|
| TB HOSE G1/8-G1/8-200BB | - | - | 200 | - | G 1/8"-28 BSPP | - | 7/16"-20 UNF | 1 | 260 |
| TB HOSE G1/8-G1/8-250BB | - | - | 250 | - | G 1/8"-28 BSPP | - | 7/16"-20 UNF | 1 | 260 |
| TB HOSE G1/8-7/16-200BS | - | - | 200 | - | G 1/8"-28 BSPP | - | G 1/8"-28 BSPP | 2 | 260 |
| TB HOSE G1/8-7/16-250BS | - | - | 250 | - | G 1/8"-28 BSPP | - | G 1/8"-28 BSPP | 2 | 260 |
| TB HOSE 5/16-G1/8-200BS | - | - | 200 | - | 5/16"-24 UNF | - | 7/16"-20 UNF | 1 | 200 |
| TB HOSE 5/16-7/16-200BS | - | - | 200 | - | 5/16"-24 UNF | - | G 1/8"-28 BSPP | 1 | 200 |
| TB NIPPLE G1/8-7/16 UNF | - | - | - | - | - | - | - | 3 | - |
| TB CONECTOR 5/16"-G1/8" | 13 | - | - | 12 | - | - | - | 4 | - |
| TB COPPER SEAL 1/8" | 15 | 10 | - | - | - | 1 | - | 5 | - |
| TB COPPER SEAL 5/16" | 12 | 8 | - | - | - | 1 | - | 5 | - |

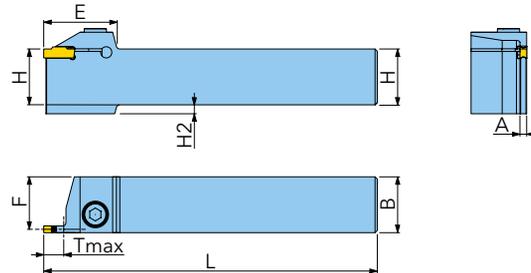
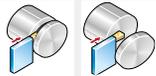
TBURST TB COUPLING SYSTEM
TB KITS / FLEXIBLES / RACCORDS

SET / HOSE / CONNECTOR
KITS / FLEXIBLES / RACCORDS



| Designation Réf. de l'article | L | Typ | n max. |
|----------------------------------|-----|-----|--------|
| S-TB Hose R1/8-COUPLE-200 | 200 | 1 | 140 |
| S-TB Hose R1/8-COUPLE-300 | 300 | 1 | 140 |
| Hose R1/8-COUPLE-200 | 200 | 2 | 140 |
| Hose R1/8-COUPLE-300 | 300 | 2 | 140 |
| TB CONNECTOR 5/16-Couple | - | 3 | - |

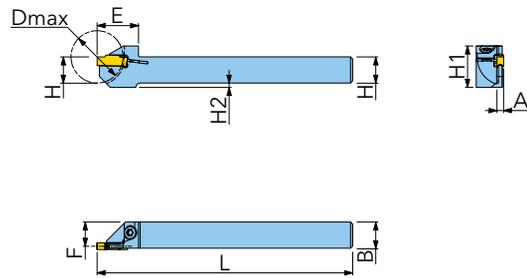
EXTERNAL TURNING AND GROOVING HOLDERS
PORTE-OUTILS EXTERNE POUR TOURNAGE ET GORGES



| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | ① | ② |
|----------------------------------|-----|----|----|------|----|----|------|------|----------|------------|-------|
| RGEL 1616-2T16 | 110 | 16 | 4 | 1,8 | 16 | 35 | 15,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGEL 1616-3T16 | 110 | 16 | 4 | 2,4 | 16 | 35 | 15,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGEL 2020-2T16 | 125 | 20 | - | 1,8 | 20 | 35 | 19,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGEL 2020-3T16 | 125 | 20 | - | 2,4 | 20 | 35 | 19,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGEL 2020-4T16 | 125 | 20 | - | 3,0 | 20 | 35 | 18,5 | 16 | 4 | SH M6X1X20 | L-W 5 |
| RGEL 2020-5T20 | 125 | 20 | - | 3,85 | 20 | 37 | 18,1 | 20 | 5 | SH M6x1x25 | L-W 5 |
| RGEL 2525-2T16 | 150 | 25 | - | 1,8 | 25 | 35 | 24,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGEL 2525-3T16 | 150 | 25 | - | 2,4 | 25 | 35 | 24,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGEL 2525-4T16 | 150 | 25 | - | 3,0 | 25 | 35 | 23,5 | 16 | 4 | SH M6X1X20 | L-W 5 |
| RGEL 2525-5T20 | 150 | 25 | - | 3,85 | 25 | 37 | 23,1 | 20 | 5 | SH M6x1x25 | L-W 5 |
| RGER 1616-2T16 | 110 | 16 | 4 | 1,8 | 16 | 35 | 15,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGER 1616-3T16 | 110 | 16 | 4 | 2,4 | 16 | 35 | 15,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGER 2020-2T16 | 125 | 20 | - | 1,8 | 20 | 35 | 19,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGER 2020-3T16 | 125 | 20 | - | 2,4 | 20 | 35 | 19,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGER 2020-4T16 | 125 | 20 | - | 3,0 | 20 | 35 | 18,5 | 16 | 4 | SH M6X1X20 | L-W 5 |
| RGER 2020-5T20 | 125 | 20 | - | 3,85 | 20 | 37 | 18,1 | 20 | 5 | SH M6x1x25 | L-W 5 |
| RGER 2525-2T16 | 150 | 25 | - | 1,8 | 25 | 35 | 24,1 | 16 | 2 | SH M6X1X20 | L-W 5 |
| RGER 2525-3T16 | 150 | 25 | - | 2,4 | 25 | 35 | 24,1 | 16 | 3 | SH M6X1X20 | L-W 5 |
| RGER 2525-4T16 | 150 | 25 | - | 3,0 | 25 | 35 | 23,5 | 16 | 4 | SH M6X1X20 | L-W 5 |
| RGER 2525-5T20 | 150 | 25 | - | 3,85 | 25 | 37 | 23,1 | 20 | 5 | SH M6x1x25 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL TURNING AND GROOVING HOLDERS FOR SWISS TYPE LATHE
PORTE-OUTIL EXTERNE DE TOURNAGE ET GORGES POUR TOUR À DÉCOLLETER

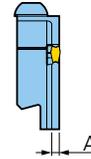
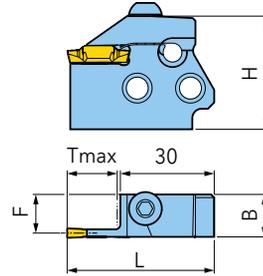


| Designation Réf. de l'article | D max. | L | H | H1 | H2 | A | B | E | F | Insert-S | ① | ② |
|----------------------------------|--------|-----|----|------|----|-----|----|----|------|----------|-------------|-----|
| RGEL 12-24-2SH | 24 | 125 | 12 | 19,0 | 2 | 1,8 | 12 | 19 | 11,1 | 2 | SM40-115-00 | T15 |
| RGEL 12-24-3SH | 24 | 125 | 12 | 19,0 | - | 2,4 | 12 | 19 | 10,8 | 3 | SM40-115-00 | T15 |
| RGEL 14-24-3SH | 24 | 125 | 14 | 19,0 | - | 2,4 | 14 | 19 | 12,8 | 3 | SM40-115-00 | T15 |
| RGEL 16-24-2SH | 24 | 125 | 16 | 21,0 | - | 1,8 | 16 | 24 | 15,1 | 2 | SM40-115-00 | T15 |
| RGEL 16-24-3SH | 24 | 125 | 16 | 21,0 | - | 2,4 | 16 | 19 | 14,8 | 3 | SM40-115-00 | T15 |
| RGER 12-24-2SH | 24 | 125 | 12 | 19,0 | 2 | 1,8 | 12 | 19 | 11,1 | 2 | SM40-115-00 | T15 |
| RGER 12-24-3SH | 24 | 125 | 12 | 19,0 | - | 2,4 | 12 | 19 | 10,8 | 3 | SM40-115-00 | T15 |
| RGER 14-24-3SH | 24 | 125 | 14 | 19,0 | - | 2,4 | 14 | 19 | 12,8 | 3 | SM40-115-00 | T15 |
| RGER 16-24-2SH | 24 | 125 | 16 | 21,0 | - | 1,8 | 16 | 24 | 15,1 | 2 | SM40-115-00 | T15 |
| RGER 16-24-3SH | 24 | 125 | 16 | 21,0 | - | 2,4 | 16 | 19 | 14,8 | 3 | SM40-115-00 | T15 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



ADAPTER FOR EXTERNAL TURNING AND GROOVING
ADAPTATEUR EXTERNE POUR TOURNAGE ET GORGE

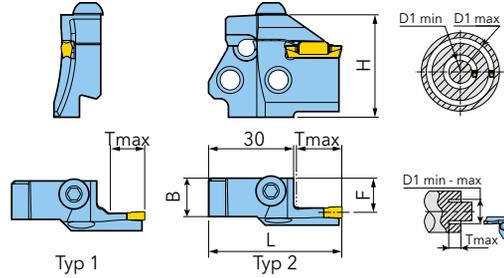


| Designation Réf. de l'article | L | H | A | B | F | Tmax | Insert-S | Holder | kg | ① | ② |
|----------------------------------|------|----|-----|------|------|------|----------|--------|-------|------------|------|
| TCAEL 1.4T12 | 47 | 36 | 1,0 | 13,5 | 13,0 | 12 | 1 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 2T16 | 47 | 36 | 1,8 | 13,5 | 12,6 | 16 | 2 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 2T22 | 53 | 36 | 1,8 | 13,5 | 12,6 | 22 | 2 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 3T16 | 47 | 36 | 2,4 | 13,5 | 12,3 | 16 | 3 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 3T22 | 53 | 36 | 2,4 | 13,5 | 12,3 | 22 | 3 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 4T16 | 47 | 36 | 3,0 | 13,5 | 12,0 | 16 | 4 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 4T22 | 53 | 36 | 3,0 | 13,5 | 12,0 | 22 | 4 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 5T20 | 51,5 | 36 | 3,9 | 13,5 | 11,6 | 20 | 5 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 5T25 | 56 | 36 | 3,9 | 13,5 | 11,6 | 25 | 5 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 6T20 | 51,5 | 36 | 4,9 | 13,5 | 11,1 | 20 | 6 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAEL 6T25 | 56 | 36 | 4,9 | 13,5 | 11,1 | 25 | 6 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 1.4T12 | 47 | 36 | 1,0 | 13,5 | 13,0 | 12 | 1 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 2T16 | 47 | 36 | 1,8 | 13,5 | 12,6 | 16 | 2 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 2T22 | 53 | 36 | 1,8 | 13,5 | 12,6 | 22 | 2 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 3T16 | 47 | 36 | 2,4 | 13,5 | 12,3 | 16 | 3 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 3T22 | 53 | 36 | 2,4 | 13,5 | 12,3 | 22 | 3 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 4T16 | 47 | 36 | 3,0 | 13,5 | 12,0 | 16 | 4 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 4T22 | 53 | 36 | 3,0 | 13,5 | 12,0 | 22 | 4 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 5T20 | 51,5 | 36 | 3,9 | 13,5 | 11,6 | 20 | 5 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 5T25 | 56 | 36 | 3,9 | 13,5 | 11,6 | 25 | 5 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 6T20 | 51,5 | 36 | 4,9 | 13,5 | 11,1 | 20 | 6 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |
| TCAER 6T25 | 56 | 36 | 4,9 | 13,5 | 11,1 | 25 | 6 | TCA_ | 0,105 | BH M6X1X20 | LW 4 |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

ADAPTER FOR EXTERNAL FACE GROOVING AND TURNING
ADAPTATEUR EXTERNE POUR TOURNAGE ET GORGE FRONTALE

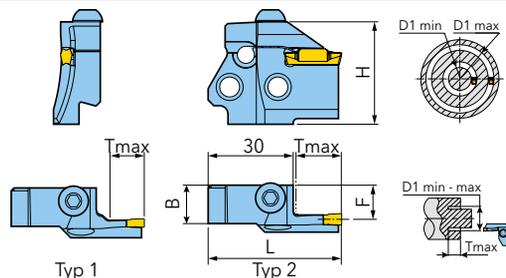


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | F | Tmax | Typ | Insert-S | Holder | kg | ① | ② |
|----------------------------------|---------|---------|------|----|------|------|------|-------|----------|--------|------|------------|------|
| TCAFL 3T10-29-40 RN | 40 | 29 | 40 | 36 | 13,5 | 12,4 | 10 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 3T12-40-55 RN | 55 | 40 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 3T12-55-75 RN | 75 | 55 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 3T12-75-100 RN | 100 | 75 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 3T12-100-140 RN | 140 | 100 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 3T12-140-200 RN | 200 | 140 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-34-50 RN | 50 | 34 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-50-70 RN | 70 | 50 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-70-100 RN | 100 | 70 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-100-150 RN | 150 | 100 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-150-250 RN | 200 | 150 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 4T16-250 RN | - | 250 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 5T20-55-80 RN | 80 | 55 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 5T20-80-120 RN | 120 | 80 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 5T20-120-180 RN | 180 | 120 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 5T20-180-300 RN | 300 | 180 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 5T20-300 RN | - | 300 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 6T25-60-90 RN | 90 | 60 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 6T25-90-150 RN | 150 | 90 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 6T25-150-250 RN | 250 | 150 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 6T25-250-400 RN | 400 | 250 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFL 6T25-400 RN | - | 400 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |

Technical informations regarding Dmin / Modular System etc. have a look at the technical Booklett / Informations techniques concernant Dmin/ le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

ADAPTER FOR EXTERNAL FACE GROOVING AND TURNING
ADAPTATEUR EXTERNE POUR TOURNAGE ET GORGE FRONTALE

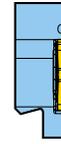
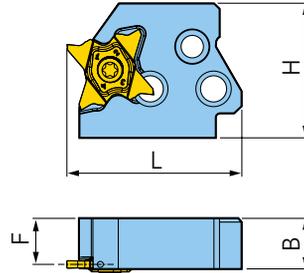


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | F | Tmax | Typ | Insert-S | Holder | kg | ① | ② |
|----------------------------------|---------|---------|------|----|------|------|------|-------|----------|--------|------|------------|------|
| TCAFR 3T10-29-40 RN | 40 | 29 | 40 | 36 | 13,5 | 12,4 | 10 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 3T12-40-55 RN | 55 | 40 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 3T12-55-75 RN | 75 | 55 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 3T12-75-100 RN | 100 | 75 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 3T12-100-140 RN | 140 | 100 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 3T12-140-200 RN | 200 | 140 | 47 | 36 | 13,5 | 12,4 | 12 | Typ 1 | 3 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-34-50 RN | 50 | 34 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-50-70 RN | 70 | 50 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-70-100 RN | 100 | 70 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-100-150 RN | 150 | 100 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-150-250 RN | 200 | 150 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 4T16-250 RN | - | 250 | 47 | 36 | 13,5 | 12 | 16 | Typ 2 | 4 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 5T20-55-80 RN | 80 | 55 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 5T20-80-120 RN | 120 | 80 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 5T20-120-180 RN | 180 | 120 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 5T20-180-300 RN | 300 | 180 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 5T20-300 RN | - | 300 | 51,5 | 36 | 13,5 | 11,5 | 20 | Typ 2 | 5 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 6T25-60-90 RN | 90 | 60 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 6T25-90-150 RN | 150 | 90 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 6T25-150-250 RN | 250 | 150 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 6T25-250-400 RN | 400 | 250 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |
| TCAFR 6T25-400 RN | - | 400 | 56 | 36 | 13,5 | 11 | 25 | Typ 2 | 6 | TCA_ | 0,11 | BH M6X1X20 | LW 4 |

Technical informations regarding Dmin / Modular System etc. have a look at the technical Booklett / Informations techniques concernant Dmin/ le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

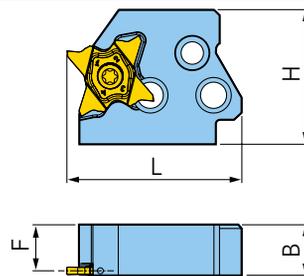
MODULAR TOOL HOLDER FOR 4 CUTTING EDGE INSERTS
ADAPTATEUR POUR PLAQUETTE À 4 ARÊTES DE COUPE



| Designation Réf. de l'article | L | H | B | F | Insert-S | Holder | kg | ① | ② |
|----------------------------------|----|----|------|------|----------|--------|------|------------|----------|
| TCAQL 20 | 43 | 36 | 13,5 | 15,5 | 20 | TCA_ | 0,11 | TS 40A100 | T-1508/5 |
| TCAQL 27 | 47 | 36 | 13,5 | 12,3 | 27 | TCA_ | 0,12 | TS 50125I | T 10/20 |
| TCAQL 34 | 47 | 36 | 13,5 | 11,7 | 34 | TCA_ | 0,12 | TS 50125I | T 10/20 |
| TCAQR 20 | 43 | 36 | 13,5 | 15,5 | 20 | TCA_ | 0,11 | TS 40A100L | T-1508/5 |
| TCAQR 27 | 47 | 36 | 13,5 | 12,3 | 27 | TCA_ | 0,12 | TS 50125IL | T 10/20 |
| TCAQR 34 | 47 | 36 | 13,5 | 11,7 | 34 | TCA_ | 0,12 | TS 50125IL | T 10/20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

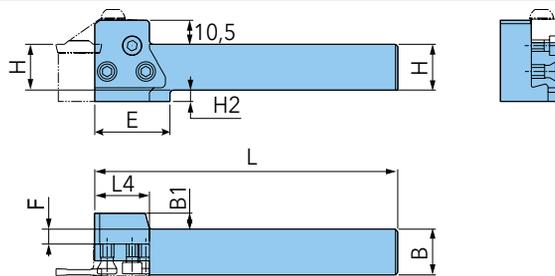
MODULAR TOOL HOLDER FOR 4 CUTTING EDGE INSERTS
ADAPTATEUR POUR PLAQUETTE À 4 ARÊTES DE COUPE



| Designation Réf. de l'article | L | H | B | F | Insert-S | Holder | kg | ① | ② |
|----------------------------------|----|----|------|------|----------|--------|------|------------|----------|
| TCAQL 20-TB | 43 | 36 | 13,5 | 15,5 | 20 | TCA_ | 0,11 | TS 40A100 | T-1508/5 |
| TCAQR 20-TB | 43 | 36 | 13,5 | 15,5 | 20 | TCA_ | 0,11 | TS 40A100L | T-1508/5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

PARALLEL HOLDERS MODULAR TOOL HOLDERS
PORTE-OUTILS MODULAIRE PARALLÈLE



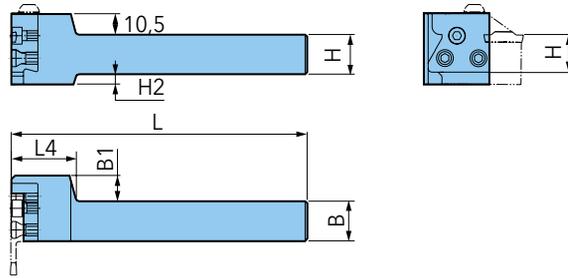
| Designation Réf. de l'article | L | L4 | H | H1 | H2 | B | B1 | E | F | Holder | kg |
|----------------------------------|-----|----|----|------|----|----|----|----|------|--------|-------|
| TCAHL 2020 | 133 | - | 20 | 10,5 | 5 | 20 | 7 | 50 | 6,5 | TCA_ | 0,490 |
| TCAHL 2525 | 133 | 24 | 25 | 10,5 | - | 25 | 2 | - | 11,5 | TCA_ | 0,655 |
| TCAHL 3232 | 153 | 24 | 32 | 10,5 | - | 32 | - | - | 18,5 | TCA_ | 1,235 |
| TCAHR 2020 | 133 | - | 20 | 10,5 | 5 | 20 | 7 | 50 | 6,5 | TCA_ | 0,490 |
| TCAHR 2525 | 133 | 24 | 25 | 10,5 | - | 25 | 2 | - | 11,5 | TCA_ | 0,655 |
| TCAHR 3232 | 153 | 24 | 32 | 10,5 | - | 32 | - | - | 18,5 | TCA_ | 1,235 |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

| Designation Réf. de l'article | ①  | ②  | ③  |
|----------------------------------|---|---|---|
| TCAHL 2020 | TS 60190I | SH M5X0.8X16 | LW 4 |
| TCAHL 2525 | TS 60190I | SH M5X0.8X16 | LW 4 |
| TCAHL 3232 | TS 60190I | SH M5X0.8X16 | LW 4 |
| TCAHR 2020 | TS 60190I | SH M5X0.8X16 | LW 4 |
| TCAHR 2525 | TS 60190I | SH M5X0.8X16 | LW 4 |
| TCAHR 3232 | TS 60190I | SH M5X0.8X16 | LW 4 |

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

PERPENDICULAR HOLDERS FOR MODULAR TOOL HOLDERS
PORTE-OUTILS MODULAIRE PERPENDICULAIRE

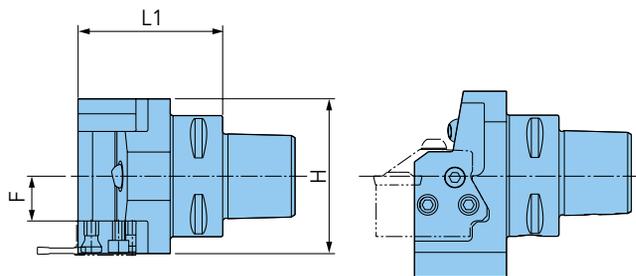
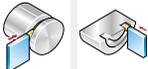


| Designation Réf. de l'article | L | L4 | H | H1 | H2 | B | B1 | Holder | kg | ① | ② | ③ |
|----------------------------------|-----|----|----|------|----|----|----|--------|-------|-----------|--------------|-------|
| TCAHPL 2020 | 150 | 33 | 20 | 10,5 | 5 | 20 | 13 | TCA_ | 0,490 | TS 60190I | SH M5X0.8X16 | L-W 4 |
| TCAHPL 2525 | 150 | 33 | 25 | 10,5 | - | 25 | 8 | TCA_ | 0,655 | TS 60190I | SH M5X0.8X16 | L-W 4 |
| TCAHPL 3232 | 170 | 33 | 32 | 10,5 | - | 32 | 1 | TCA_ | 1,235 | TS 60190I | SH M5X0.8X16 | L-W 4 |
| TCAHPR 2020 | 150 | 33 | 20 | 10,5 | 5 | 20 | 13 | TCA_ | 0,490 | TS 60190I | SH M5X0.8X16 | L-W 4 |
| TCAHPR 2525 | 150 | 33 | 25 | 10,5 | - | 25 | 8 | TCA_ | 0,655 | TS 60190I | SH M5X0.8X16 | L-W 4 |
| TCAHPR 3232 | 170 | 33 | 32 | 10,5 | - | 32 | 1 | TCA_ | 1,235 | TS 60190I | SH M5X0.8X16 | L-W 4 |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

PARALLEL HOLDERS MODULAR TOOL HOLDERS
PORTE-OUTILS MODULAIRE PARALLÈLE

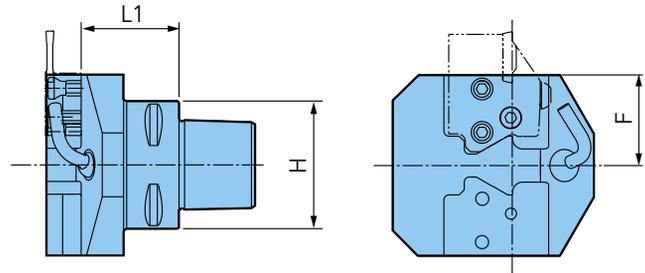


| Designation Réf. de l'article | L | H | F | Holder | kg | ① | ② | ③ | ④ |
|----------------------------------|----|----|------|--------|-----|-----------|--------------|--------|-------|
| C4-TCAHN | 60 | 40 | 18,7 | TCA_ | 0,6 | TS 60190I | SH M5X0.8X16 | NZ 125 | L-W 4 |
| C5-TCAHN | 60 | 50 | 18,5 | TCA_ | 1,1 | TS 60190I | SH M5X0.8X16 | NZ 125 | L-W 4 |
| C6-TCAHN | 60 | 63 | 19 | TCA_ | 1,3 | TS 60190I | SH M5X0.8X16 | NZ 125 | L-W 4 |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique.

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Nozzle / Embout ④ = Wrench / Clé de serrage

PERPENDICULAR HOLDERS MODULAR TOOL HOLDERS
PORTE-OUTILS MODULAIRE PERPENDICULAIRE

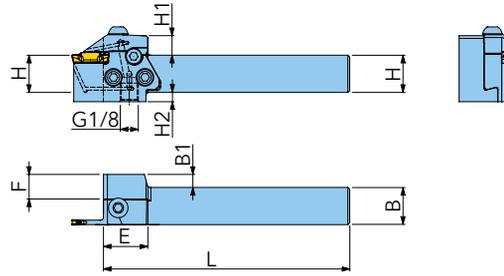


| Designation Réf. de l'article | L1 | H | F | Holder | kg | ① | ② | ③ | ④ | ⑤ |
|----------------------------------|------|----|------|--------|-----|-----------|--------------|--------|-------|-------|
| C4-TCAHPN | 40,5 | 40 | 34 | TCA_ | 0,6 | TS 60190I | SH M5X0.8X16 | NZ 125 | NZP 5 | L-W 4 |
| C5-TCAHPN | 38,5 | 50 | 35,5 | TCA_ | 1,1 | TS 60190I | SH M5X0.8X16 | NZ 125 | NZP 5 | L-W 4 |
| C6-TCAHPN | 38,5 | 63 | 36 | TCA_ | 1,3 | TS 60190I | SH M5X0.8X16 | NZ 125 | NZP 5 | L-W 4 |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Nozzle / Embout ④ = Coolant pipe / Tuyau d'arrosage ⑤ = Wrench / Clé de serrage

**PARALLEL HOLDERS MODULAR TOOL HOLDERS WITH HIGH PRESSURE COOLANT
PORTE-OUTILS MODULAIRE PARALLÈLE AVEC ARROSAGE HAUTE PRESSION**



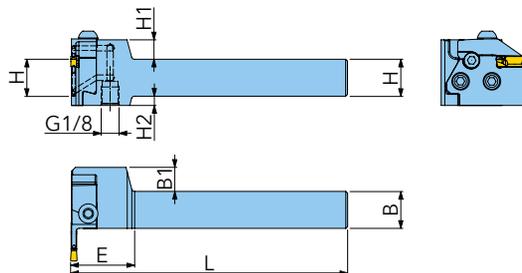
| Designation Réf. de l'article | L | H | H1 | H2 | B | B1 | E | F | kg | IK |
|----------------------------------|-----|----|------|----|----|----|----|------|------|----|
| TCAHL 2020-TB | 133 | 20 | 10,5 | 5 | 20 | 7 | 24 | 6,5 | 0,44 | ✓ |
| TCAHL 2525-TB | 133 | 25 | 10,5 | - | 25 | 2 | 24 | 11,5 | 0,65 | ✓ |
| TCAHR 2020-TB | 133 | 20 | 10,5 | 5 | 20 | 7 | 24 | 6,5 | 0,44 | ✓ |
| TCAHR 2525-TB | 133 | 25 | 10,5 | - | 25 | 2 | 24 | 11,5 | 0,65 | ✓ |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-----------|--------------|----------------|---------------|-------|-------|-------|-------|
| TCAHL 2020-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | TCAEL | - | TCAQR | - |
| TCAHL 2525-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | TCAEL | - | TCAQR | - |
| TCAHR 2020-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | - | TCAER | - | TCAQL |
| TCAHR 2525-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | - | TCAER | - | TCAQL |

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Clamp screw / Vis de serrage ④ = O-Ring / Joint ⑤ = Adapter / Adaptateur
⑥ = Adapter / Adaptateur ⑦ = Adapter / Adaptateur ⑧ = Adapter / Adaptateur

**PERPENDICULAR HOLDERS FOR MODULAR TOOL HOLDERS WITH HIGH PRESSURE COOLANT
PORTE-OUTILS MODULAIRE PERPENDICULAIRE AVEC ARROSAGE HAUTE PRESSION**



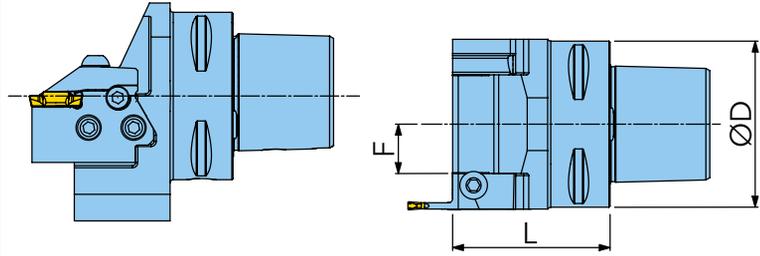
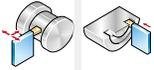
| Designation Réf. de l'article | L | H | H1 | H2 | B | B1 | E | kg | IK |
|----------------------------------|-----|----|------|----|----|----|----|------|----|
| TCAHPL 2020-TB | 150 | 20 | 10,5 | 5 | 20 | 13 | 33 | 0,44 | ✓ |
| TCAHPL 2525-TB | 150 | 25 | 10,5 | - | 25 | 8 | 33 | 0,65 | ✓ |
| TCAHPR 2020-TB | 150 | 20 | 10,5 | 5 | 20 | 13 | 33 | 0,44 | ✓ |
| TCAHPR 2525-TB | 150 | 25 | 10,5 | - | 25 | 8 | 33 | 0,65 | ✓ |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-----------|--------------|----------------|---------------|-------|-------|-------|-------|
| TCAHPL 2020-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | TCAER | - | TCAQR | - |
| TCAHPL 2525-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | TCAER | - | TCAQR | - |
| TCAHPR 2020-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | - | TCAEL | - | TCAQL |
| TCAHPR 2525-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5X1T | - | TCAEL | - | TCAQL |

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Clamp screw / Vis de serrage ④ = O-Ring / Joint ⑤ = Adapter / Adaptateur
⑥ = Adapter / Adaptateur ⑦ = Adapter / Adaptateur ⑧ = Adapter / Adaptateur

MODULAR TOOL HOLDERS 'PARALLEL TYP'
PORTE-OUTILS MODULAIRE, ARROSAGE HAUTE PRESSION 'TYPE PARALLÈLE'



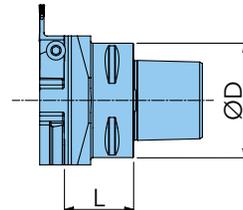
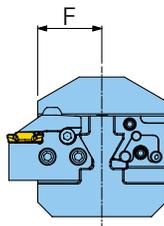
| Designation Réf. de l'article | D | L1 | F | kg | IK |
|----------------------------------|----|----|------|------|----|
| C4-TCAHN-TB | 40 | 55 | 11,5 | 0,58 | ✓ |
| C5-TCAHN-TB | 50 | 58 | 13,7 | 1,10 | ✓ |
| C6-TCAHN-TB | 63 | 60 | 18,7 | 1,71 | ✓ |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-----------|--------------|----------------|--------------------|-------|-------|-------|-------|
| C4-TCAHN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |
| C5-TCAHN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |
| C6-TCAHN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Clamp screw / Vis de serrage ④ = O-Ring / Joint ⑤ = Wrench / Clé de serrage
⑥ = Wrench / Clé de serrage ⑦ = Adapter / Adaptateur ⑧ = Adapter / Adaptateur

**MODULAR TOOL HOLDERS 'PERPENDICULAR TYP'
PORTE-OUTILS MODULAIRE, ARROSAGE HAUTE PRESSION 'TYPE PERPENDICULAIRE'**



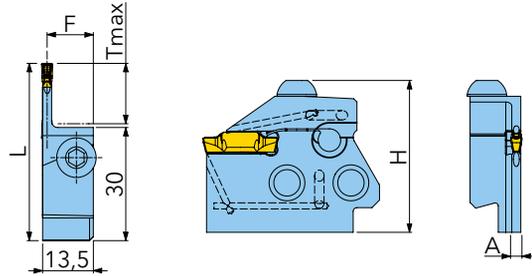
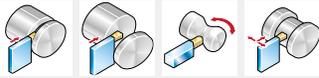
| Designation Réf. de l'article | D | L | F | kg | IK |
|----------------------------------|----|------|------|------|----|
| C4-TCAHPN-TB | 40 | 36,5 | 34 | 0,60 | ✓ |
| C5-TCAHPN-TB | 50 | 36,5 | 35 | 0,10 | ✓ |
| C6-TCAHPN-TB | 63 | 38,5 | 35,5 | 1,80 | ✓ |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|----------------------------------|-----------|--------------|----------------|--------------------|-------|-------|-------|-------|
| C4-TCAHPN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |
| C5-TCAHPN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |
| C6-TCAHPN-TB | TS 60190I | SH M5X0.8X16 | SS M4X0.7X4-NL | O-RING ID5.28X1.78 | L-W 4 | L-W 2 | TCA_L | TCA_R |

① = Clamp screw / Vis de serrage ② = Clamp screw / Vis de serrage ③ = Clamp screw / Vis de serrage ④ = O-Ring / Joint ⑤ = Wrench / Clé de serrage
⑥ = Wrench / Clé de serrage ⑦ = Adapter / Adaptateur ⑧ = Adapter / Adaptateur

**ADAPTER FOR EXTERNAL TURNING WITH HIGH PRESSUR COOLANT
ADAPTATEUR EXTERNE POUR TOURNAGE AVEC ARROSAGE HAUTE PRESSION**

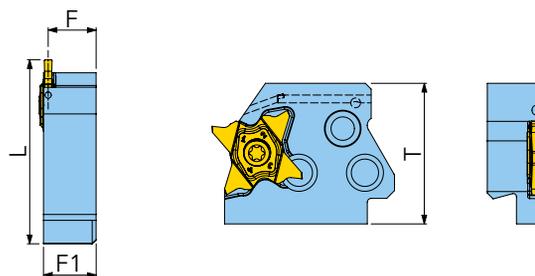


| Designation Réf. de l'article | L | H | A | F | Tmax | Insert-S | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|----|----|-----|------|------|----------|------|----|------------|------|----------|-----------|
| TCAEL 2T16-TB | 47 | 36 | 1,8 | 12,6 | 16 | 2 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHL-TB | TCAHPR-TB |
| TCAEL 3T16-TB | 47 | 36 | 2,4 | 12,3 | 16 | 3 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHL-TB | TCAHPR-TB |
| TCAEL 4T16-TB | 47 | 36 | 3,0 | 12,0 | 16 | 4 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHL-TB | TCAHPR-TB |
| TCAEL 5T20-TB | 51 | 36 | 4,0 | 11,5 | 20 | 5 | 0,07 | ✓ | BH M6X1X16 | LW 4 | TCAHL-TB | TCAHPR-TB |
| TCAER 2T16-TB | 47 | 36 | 1,8 | 12,6 | 16 | 2 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHR-TB | TCAHPL-TB |
| TCAER 3T16-TB | 47 | 36 | 2,4 | 12,3 | 16 | 3 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHR-TB | TCAHPL-TB |
| TCAER 4T16-TB | 47 | 36 | 3,0 | 12,0 | 16 | 4 | 0,06 | ✓ | BH M6X1X16 | LW 4 | TCAHR-TB | TCAHPL-TB |
| TCAER 5T20-TB | 51 | 36 | 4,0 | 11,5 | 20 | 5 | 0,07 | ✓ | BH M6X1X16 | LW 4 | TCAHR-TB | TCAHPL-TB |

Technical informations regarding Modular System etc. have a look at the technical Booklett / Informations techniques concernant le système modulaire, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Holder / Porte-outil ④ = Holder / Porte-outil

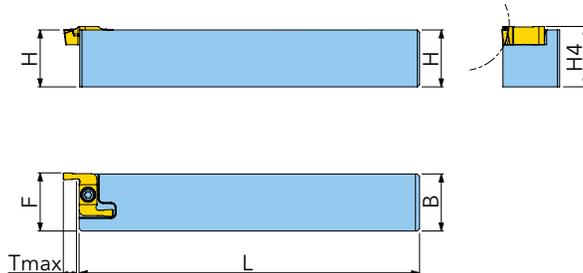
**MODULAR TOOL HOLDER FOR 4 CUTTING EDGE INSERTS WITH HIGH PRESSUR COOLANT
ADAPTATEUR POUR PLAQUETTE À 4 ARÊTES DE COUPE AVEC ARROSAGE HAUTE PRESSION**



| Designation Réf. de l'article | L | F | f1 | T | Insert-S | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|----|------|------|----|----------|------|----|------------|---------|----------|-----------|
| TCAQL 27-TB | 47 | 12,3 | 13,5 | 36 | 27 | 0,12 | ✓ | TS 50125I | T 10/20 | TCAHL-TB | TCAHPR-TB |
| TCAQR 27-TB | 47 | 12,3 | 13,5 | 36 | 27 | 0,12 | ✓ | TS 50125IL | T 10/20 | TCAHR-TB | TCAHPL-TB |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Holder / Porte-outil ④ = Holder / Porte-outil

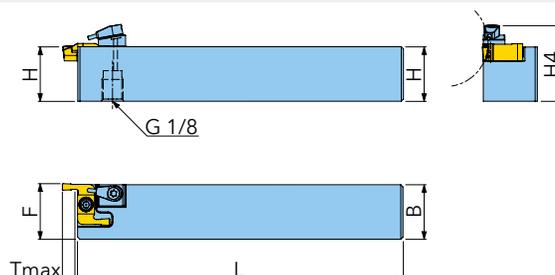
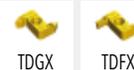
**HOLDERS FOR SHALLOW FACE GROOVING AND TURNING
PORTE-OUTIL POUR TOURNAGE ET GORGES PEU PROFONDES**



| Designation Réf. de l'article | L | H | H4 | B | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|------|----|------|------|----------|------|---------------|------|
| TXFL 2020 | 125 | 20 | 21,5 | 20 | 20,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 |
| TXFL 2525 | 150 | 25 | 26,5 | 25 | 25,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 |
| TXFR 2020 | 125 | 20 | 21,5 | 20 | 20,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 |
| TXFR 2525 | 150 | 25 | 26,5 | 25 | 25,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 |

① = Clamp screw / Vis de serrage ② = Screw driver / Tournevis

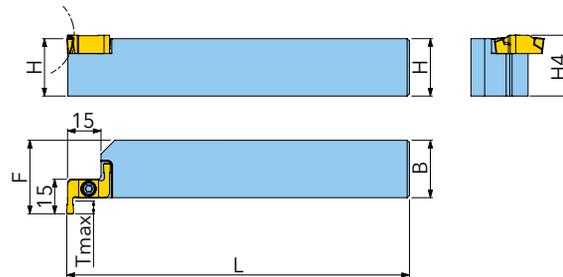
**HOLDERS FOR SHALLOW FACE GROOVING AND TURNING WITH HIGH-PRESSURE COOLANT
PORTE-OUTIL POUR TOURNAGE ET GORGES PEU PROFONDES AVEC ARROSAGE HAUTE PRESSION**



| Designation Réf. de l'article | L | H | H4 | B | F | Tmax | Insert-S | kg | ① | ② | ③ |
|----------------------------------|-----|----|------|----|------|------|----------|------|---------------|------|---------|
| TXFL 2525-TB | 150 | 25 | 35,5 | 25 | 25,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 | S-CU-TB |
| TXFR 2525-TB | 150 | 25 | 35,5 | 25 | 25,5 | 6,0 | 2,3,4 | 0,75 | TS 40E113I/HG | LT15 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Screw driver / Tournevis ③ = Coolant unit / Buse d'arrosage

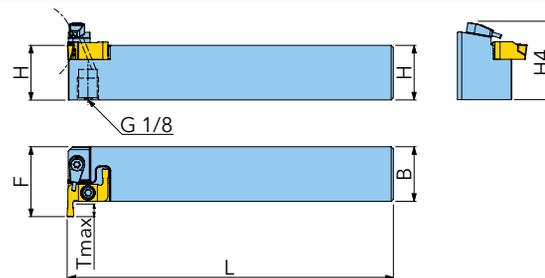
HOLDERS FOR SHALLOW FACE GROOVING AND TURNING
PORTE-OUTIL POUR TOURNAGE ET GORGES PEU PROFONDES



| Designation Réf. de l'article | L | H | H4 | B | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|------|----|----|------|----------|------|---------------|------|
| TXFPL 2020 | 125 | 20 | 21,5 | 20 | 27 | 6,0 | 2,3,4 | 0,70 | TS 40E113L/HG | LT15 |
| TXFPL 2525 | 150 | 25 | 26,5 | 25 | 32 | 6,0 | 2,3,4 | 0,70 | TS 40E113L/HG | LT15 |
| TXFPR 2020 | 125 | 20 | 21,5 | 20 | 27 | 6,0 | 2,3,4 | 0,70 | TS 40E113L/HG | LT15 |
| TXFPR 2525 | 150 | 25 | 26,5 | 25 | 32 | 6,0 | 2,3,4 | 0,70 | TS 40E113L/HG | LT15 |

① = Clamp screw / Vis de serrage ② = Screw driver / Tournevis

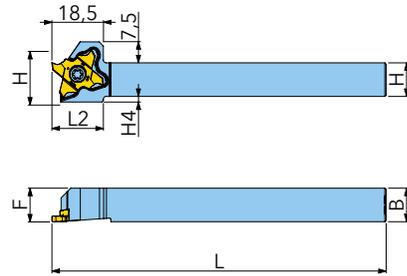
HOLDERS FOR SHALLOW FACE GROOVING AND TURNING WITH HIGH-PRESSURE COOLANT
PORTE-OUTIL POUR TOURNAGE ET GORGES PEU PROFONDES AVEC ARROSAGE HAUTE PRESSION



| Designation Réf. de l'article | L | H | H4 | B | F | Tmax | Insert-S | kg | IK | ① | ② | ③ |
|----------------------------------|-----|----|------|----|----|------|----------|------|----|---------------|------|---------|
| TXFPL 2525-TB | 150 | 25 | 35,5 | 25 | 32 | 6,0 | 2,3,4 | 0,80 | ✓ | TS 40E113L/HG | LT15 | S-CU-TB |
| TXFPR 2525-TB | 150 | 25 | 35,5 | 25 | 32 | 6,0 | 2,3,4 | 0,80 | ✓ | TS 40E113L/HG | LT15 | S-CU-TB |

① = Clamp screw / Vis de serrage ② = Screw driver / Tournevis ③ = Coolant unit / Buse d'arrosage

TOOL HOLDER FOR 4 CUTTING EDGE INSERTS
PORTE-OUTILS POUR PLAQUETTE À 4 ARÊTES DE COUPE

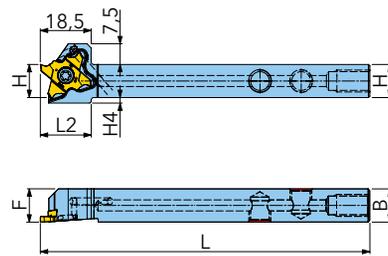


| Designation Réf. de l'article | L | L2 | H | H4 | B | F | Insert-S | kg | ① | ② |
|----------------------------------|-----|------|----|----|----|----|----------|------|------------|----------|
| TQHL 10-20 | 120 | 18,5 | 10 | 4 | 10 | 10 | 20 | 0,13 | TS 40A100 | T-1508/5 |
| TQHL 12-20 | 120 | 18,5 | 12 | 2 | 12 | 12 | 20 | 0,17 | TS 40A100 | T-1508/5 |
| TQHL 16-20 | 120 | - | 16 | - | 16 | 16 | 20 | 0,27 | TS 40A100 | T-1508/5 |
| TQHL 20-20 | 120 | - | 20 | - | 20 | 20 | 20 | 0,41 | TS 40A100 | T-1508/5 |
| TQHR 10-20 | 120 | 18,5 | 10 | 4 | 10 | 10 | 20 | 0,13 | TS 40A100L | T-1508/5 |
| TQHR 12-20 | 120 | 18,5 | 12 | 2 | 12 | 12 | 20 | 0,17 | TS 40A100L | T-1508/5 |
| TQHR 16-20 | 120 | - | 16 | - | 16 | 16 | 20 | 0,27 | TS 40A100L | T-1508/5 |
| TQHR 20-20 | 120 | - | 20 | - | 20 | 20 | 20 | 0,41 | TS 40A100L | T-1508/5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

COOLBURST TQHR/L 20-TB
TQHR/L 20-TB

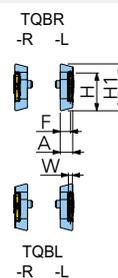
HIGH PRESSURE TOOL FOR 4-CUTTING EDGES INSERTS
PORTE-OUTIL HAUTE PRESSION POUR PLAQUETTES À 4 ARÊTES



| Designation Réf. de l'article | L | L2 | H | H4 | B | F | Insert-S | kg | Ⓜ | ① | ② | ③ | ④ |
|----------------------------------|-----|------|----|----|----|----|----------|------|---|------------|---------------|----------|---------|
| TQHL 12-20-TB | 120 | 18,5 | 12 | 2 | 12 | 12 | 20 | 0,20 | ✓ | TS 40A100 | PLG 5/16 UNF | T-1508/5 | LW 5/32 |
| TQHL 16-20-TB | 120 | - | 16 | - | 16 | 16 | 20 | 0,40 | ✓ | TS 40A100 | PLG 5/16 UNF | T-1508/5 | LW 5/32 |
| TQHL 20-20-TB | 120 | - | 20 | - | 20 | 20 | 20 | 0,40 | ✓ | TS 40A100 | PLG G1/8-L6.5 | T-1508/5 | LW 5 |
| TQHR 12-20-TB | 120 | - | 12 | 2 | 12 | 12 | 20 | 0,20 | ✓ | TS 40A100L | PLG 5/16 UNF | T-1508/5 | LW 5/32 |
| TQHR 16-20-TB | 120 | 18,5 | 16 | - | 16 | 16 | 20 | 0,40 | ✓ | TS 40A100L | PLG 5/16 UNF | T-1508/5 | LW 5/32 |
| TQHR 20-20-TB | 120 | - | 20 | - | 20 | 20 | 20 | 0,40 | ✓ | TS 40A100L | PLG G1/8-L6.5 | T-1508/5 | LW 5 |

① = Clamp screw / Vis de serrage ② = Plug / Tube ③ = Wrench / Clé de serrage ④ = Wrench / Clé de serrage

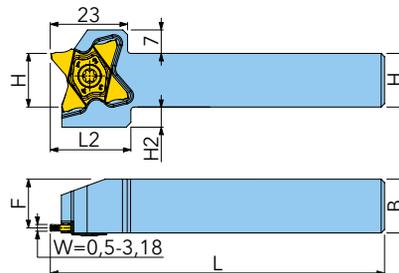
**DOUBLE ENDED TOOL FOR 4-CUTTING EDGES INSERTS
LAMES DOUBLES POUR PLAQUETTES À 4 ARÊTES DE COUPE**



| Designation Réf. de l'article | L | H | H1 | A | F | W min. | W max. | Insert-S | kg |  |  |
|----------------------------------|-----|----|------|-----|---|--------|--------|----------|-------|---|---|
| TQBL 26-27L | 150 | 26 | 21,4 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,470 | TS 50125IL | T 10/20 |
| TQBL 32-27L | 150 | 32 | 24,9 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,270 | TS 50125IL | T 10/20 |
| TQBR 26-27L | 150 | 26 | 21,4 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,740 | TS 50125IL | T 10/20 |
| TQBR 32-27L | 150 | 32 | 24,9 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,100 | TS 50125IL | T 10/20 |
| TQBL 26-27R | 150 | 26 | 21,4 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,470 | TS 50125I | T 10/20 |
| TQBL 32-27R | 150 | 32 | 24,9 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,100 | TS 50125I | T 10/20 |
| TQBR 26-27R | 150 | 26 | 21,4 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,090 | TS 50125I | T 10/20 |
| TQBR 32-27R | 150 | 32 | 24,9 | 8,5 | 7 | 0,5 | 5,3 | 27 | 0,270 | TS 50125I | T 10/20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

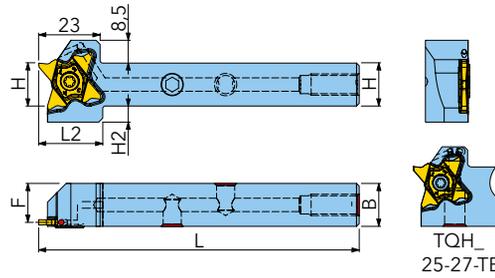
TOOL HOLDER FOR 4 CUTTING EDGE INSERTS
PORTE-OUTILS POUR PLAQUETTE À 4 ARÊTES DE COUPE



| Designation Réf. de l'article | L | L2 | H | H2 | B | F | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|----|----|------|----------|-------|------------|--------|
| TQHL 10-27 | 120 | 24 | 10 | 9 | 10 | 8,5 | 27 | 0,102 | TS 50125I | T10/20 |
| TQHL 12-27 | 120 | 24 | 12 | 8 | 12 | 10,5 | 27 | 0,185 | TS 50125I | T10/20 |
| TQHL 16-27 | 120 | 24 | 16 | 6 | 16 | 14,5 | 27 | 0,153 | TS 50125I | T10/20 |
| TQHL 20-27 | 120 | 24 | 20 | 2 | 20 | 18,5 | 27 | 0,430 | TS 50125I | T10/20 |
| TQHL 25-27 | 135 | - | 25 | - | 25 | 23,5 | 27 | 0,650 | TS 50125I | T10/20 |
| TQHR 10-27 | 120 | 24 | 10 | 9 | 10 | 8,5 | 27 | 0,102 | TS 50125IL | T10/20 |
| TQHR 12-27 | 120 | 24 | 12 | 8 | 12 | 10,5 | 27 | 0,144 | TS 50125IL | T10/20 |
| TQHR 16-27 | 120 | 24 | 16 | 6 | 16 | 14,5 | 27 | 0,330 | TS 50125IL | T10/20 |
| TQHR 20-27 | 120 | 24 | 20 | 2 | 20 | 18,5 | 27 | 0,400 | TS 50125IL | T10/20 |
| TQHR 25-27 | 135 | - | 25 | - | 25 | 23,5 | 27 | 0,820 | TS 50125IL | T10/20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

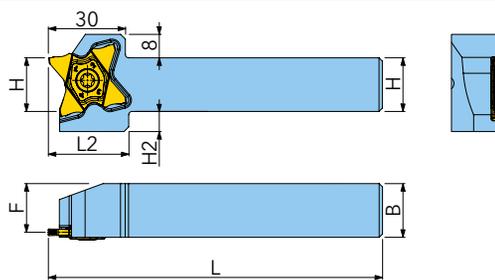
HIGH PRESSURE TOOL FOR 4-CUTTING EDGES INSERTS
PORTE-OUTIL HAUTE PRESSION POUR PLAQUETTES À 4 ARÊTES



| Designation Réf. de l'article | L | L2 | H | H2 | B | F | Insert-S | kg | IK | ① | ② | ③ | ④ |
|----------------------------------|-----|----|----|----|----|------|----------|-------|----|------------|---------|-----------------|-------|
| TQHL 12-27-TB | 120 | 24 | 12 | 8 | 12 | 10,5 | 27 | 0,320 | ✓ | TS 50125I | T 10/20 | PT 5/16 UNF | L-W 4 |
| TQHL 16-27-TB | 120 | 24 | 16 | 6 | 16 | 14,5 | 27 | 0,220 | ✓ | TS 50125I | T 10/20 | PT 5/16 UNF | L-W 4 |
| TQHL 20-27-TB | 120 | 24 | 20 | 2 | 20 | 18,5 | 27 | 0,370 | ✓ | TS 50125I | T 10/20 | PT 0.125X8-L5.5 | L-W 5 |
| TQHL 25-27-TB | 135 | - | 25 | - | 25 | 23,5 | 27 | 0,600 | ✓ | TS 50125I | T 10/20 | PT 0.125X8-L5.5 | L-W 5 |
| TQHR 12-27-TB | 120 | 24 | 12 | 8 | 12 | 10,5 | 27 | 0,130 | ✓ | TS 50125IL | T 10/20 | PT 5/16 UNF | L-W 4 |
| TQHR 16-27-TB | 120 | 24 | 16 | 6 | 16 | 14,5 | 27 | 0,270 | ✓ | TS 50125IL | T 10/20 | PT 5/16 UNF | L-W 4 |
| TQHR 20-27-TB | 120 | 24 | 20 | 2 | 20 | 18,5 | 27 | 0,370 | ✓ | TS 50125IL | T 10/20 | PT 0.125X8-L5.5 | L-W 5 |
| TQHR 25-27-TB | 135 | - | 25 | - | 25 | 23,5 | 27 | 0,850 | ✓ | TS 50125IL | T 10/20 | PT 0.125X8-L5.5 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Plug / Tube ④ = Wrench / Clé de serrage

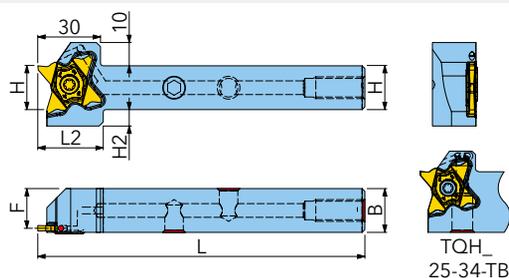
TOOL HOLDER FOR 4 CUTTING EDGE INSERTS
PORTE-OUTILS POUR PLAQUETTE À 4 ARÊTES DE COUPE



| Designation Réf. de l'article | L | L2 | H | H2 | B | F | Insert-S | ① | ② |
|----------------------------------|-----|----|----|----|----|------|----------|------------|---------|
| TQHL 16-34 | 135 | 32 | 16 | 12 | 16 | 14,2 | 34 | TS 50125I | T 10/20 |
| TQHL 20-34 | 135 | 32 | 20 | 8 | 20 | 18,2 | 34 | TS 50125I | T 10/20 |
| TQHL 25-34 | 135 | 32 | 25 | 3 | 25 | 23,2 | 34 | TS 50125I | T 10/20 |
| TQHL 32-34 | 135 | - | 32 | - | 32 | 30,2 | 34 | TS 50125I | T 10/20 |
| TQHR 16-34 | 135 | 32 | 16 | 12 | 16 | 14,2 | 34 | TS 50125IL | T 10/20 |
| TQHR 20-34 | 135 | 32 | 20 | 8 | 20 | 18,2 | 34 | TS 50125IL | T 10/20 |
| TQHR 25-34 | 135 | 32 | 25 | 3 | 25 | 23,2 | 34 | TS 50125IL | T 10/20 |
| TQHR 32-34 | 135 | - | 32 | - | 32 | 30,2 | 34 | TS 50125IL | T 10/20 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

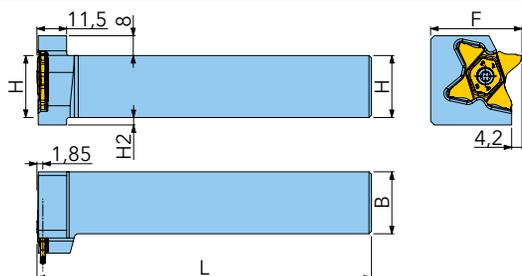
HIGH PRESSURE TOOL FOR 4-CUTTING EDGES INSERTS
PORTE-OUTIL HAUTE PRESSION POUR PLAQUETTES À 4 ARÊTES



| Designation Réf. de l'article | L | L2 | H | H2 | B | F | Insert-S | IK | ① | ② | ③ | ④ |
|----------------------------------|-----|----|----|----|----|------|----------|----|------------|---------|---------------|---------|
| TQHL 16-34-TB | 135 | 32 | 16 | 12 | 16 | 14,2 | 34 | ✓ | TS 50125I | T 10/20 | PLG 5/16 UNF | LW 5/32 |
| TQHL 20-34-TB | 135 | 32 | 20 | 8 | 20 | 18,2 | 34 | ✓ | TS 50125I | T 10/20 | PLG G1/8-L6.5 | LW 5 |
| TQHL 25-34-TB | 135 | 32 | 25 | 3 | 25 | 23,2 | 34 | ✓ | TS 50125I | T 10/20 | - | LW 5 |
| TQHR 16-34-TB | 135 | 32 | 16 | 12 | 16 | 14,2 | 34 | ✓ | TS 50125IL | T 10/20 | PLG 5/16 UNF | LW 5/32 |
| TQHR 20-34-TB | 135 | 32 | 20 | 8 | 20 | 18,2 | 34 | ✓ | TS 50125IL | T 10/20 | PLG G1/8-L6.5 | LW 5 |
| TQHR 25-34-TB | 135 | 32 | 25 | 3 | 25 | 23,2 | 34 | ✓ | TS 50125IL | T 10/20 | - | LW 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Plug / Tube ④ = Wrench / Clé de serrage

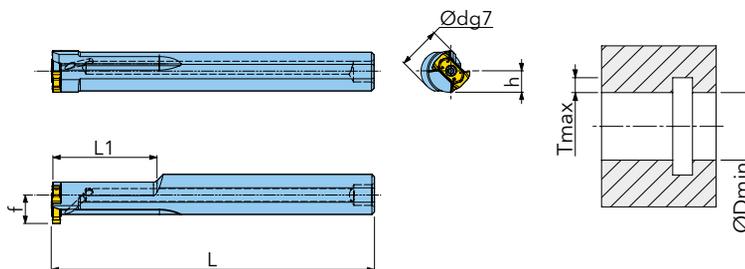
PERPENDICULAR HOLDER FOR 4 CUTTING EDGE INSERTS
PORTE-OUTIL PERPENDICULAIRE POUR PLAQUETTES À 4 ARÊTES



| Designation Réf. de l'article | L | H | H2 | B | F | Insert-S | ① | ② |
|----------------------------------|-----|----|----|----|----|----------|-----------|---------|
| TQHPL 20-34 | 135 | 20 | 8 | 20 | 32 | 34 | TS 50125I | T 10/20 |
| TQHPL 25-34 | 135 | 25 | 3 | 25 | 37 | 34 | TS 50125I | T 10/20 |
| TQHPR 20-34 | 135 | 20 | 8 | 20 | 32 | 34 | TS 50125I | T 10/20 |
| TQHPR 25-34 | 135 | 25 | 3 | 25 | 37 | 34 | TS 50125I | T 10/20 |

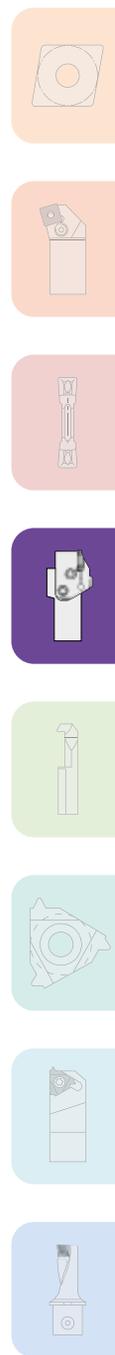
① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

INTERNAL GROOVING HOLDERS WITH INTERNAL COOLANT
PORTE-OUTIL À GORGES INTERNES AVEC ARROSAGE INTÉGRÉ

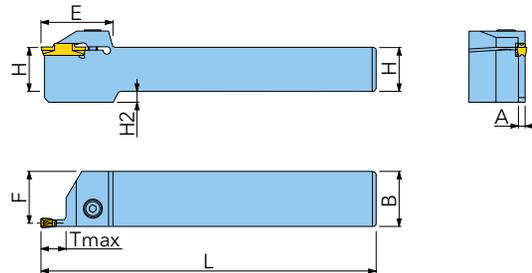


| Designation Réf. de l'article | D min. | d | L | L1 | f | h | Insert-S | kg | IK | ① | ② | ③ |
|----------------------------------|--------|----|-----|----|----|-----|----------|------|----|--------------|-----|-------|
| TQHIL 16-16.5-14 | 16,5 | 16 | 125 | 40 | 11 | 7,5 | 14 | 0,12 | ✓ | TS 25075I/HG | T 8 | PL 16 |
| TQHIL 20-16.5-14 | 16,5 | 20 | 125 | 40 | 13 | 9 | 14 | 0,14 | ✓ | TS 25075I/HG | T 8 | PL 20 |
| TQHIL 16-16.5-14 | 16,5 | 16 | 125 | 40 | 11 | 7,5 | 14 | 0,12 | ✓ | TS 25075I/HG | T 8 | PL 16 |
| TQHIL 20-16.5-14 | 16,5 | 20 | 125 | 40 | 13 | 9 | 14 | 0,14 | ✓ | TS 25075I/HG | T 8 | PL 20 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage ③ = Seal / Joint d'étanchéité



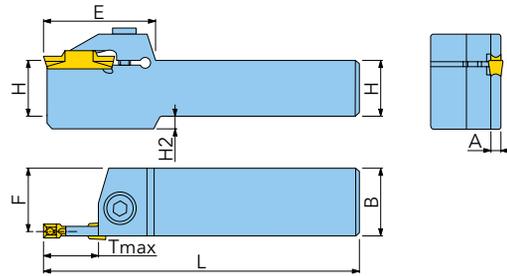
HOLDERS FOR EXTERNAL TURNING AND GROOVING
PORTE-OUTILS POUR TOURNAGE ET GORGES EXTERNES - VERSION COURTE



| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|-----|----|----|------|------|----------|-------|--------------|-------|
| TTEL 1616-2T08 | 110 | 16 | 4 | 1,8 | 16 | 33 | 15,1 | 8,0 | 2 | 0,250 | SH M5X0.8X16 | L-W 4 |
| TTEL 2020-2T08 | 125 | 20 | - | 1,8 | 20 | 33 | 19,1 | 8,0 | 2 | 0,360 | SH M5x0.8x20 | L-W 4 |
| TTEL 2525-2T08 | 150 | 25 | - | 1,8 | 25 | 33 | 24,1 | 8,0 | 2 | 0,720 | SH M5x0.8x25 | L-W 4 |
| TTEL 1616-3T09 | 110 | 16 | 4 | 2,4 | 16 | 32 | 14,8 | 9,0 | 3 | 0,320 | SH M5X0.8X16 | L-W 4 |
| TTEL 2020-3T09 | 125 | 20 | - | 2,4 | 20 | 32 | 18,8 | 9,0 | 3 | 0,370 | SH M5x0.8x20 | L-W 4 |
| TTEL 2525-3T09 | 150 | 25 | - | 2,4 | 25 | 32 | 23,8 | 9,0 | 3 | 0,720 | SH M5x0.8x25 | L-W 4 |
| TTEL 1616-4T10 | 110 | 16 | 4 | 3,0 | 16 | 33 | 14,5 | 10,0 | 4 | 0,410 | SH M6x1x16 | L-W 5 |
| TTEL 2020-4T10 | 125 | 20 | - | 3,0 | 20 | 33 | 18,5 | 10,0 | 4 | 0,370 | SH M6X1X20 | L-W 5 |
| TTEL 2525-4T10 | 150 | 25 | - | 3,0 | 25 | 33 | 23,5 | 10,0 | 4 | 0,690 | SH M6x1x25 | L-W 5 |
| TTEL 2020-5T12 | 125 | 20 | - | 4,0 | 20 | 37 | 18,1 | 12,0 | 5 | 0,370 | SH M6X1X20 | L-W 5 |
| TTEL 2525-5T12 | 150 | 25 | - | 4,0 | 25 | 37 | 23,1 | 12,0 | 5 | 0,690 | SH M6x1x25 | L-W 5 |
| TTEL 2020-6T12 | 125 | 20 | - | 5,0 | 20 | 37 | 17,6 | 12,0 | 6 | 0,370 | SH M6X1X20 | L-W 5 |
| TTEL 2525-6T12 | 150 | 25 | 7 | 5,0 | 25 | 37 | 22,6 | 12,0 | 6 | 0,730 | SH M6x1x25 | L-W 5 |
| TTEL 2525-8T16 | 150 | 25 | 7 | 6,0 | 25 | 48 | 22,1 | 16,0 | 8 | 0,730 | SH M6x1x25 | L-W 5 |
| TTER 1616-2T08 | 110 | 16 | 4 | 1,8 | 16 | 33 | 15,1 | 8,0 | 2 | 0,370 | SH M5X0.8X16 | L-W 4 |
| TTER 2020-2T08 | 125 | 20 | - | 1,8 | 20 | 33 | 19,1 | 8,0 | 2 | 0,380 | SH M5x0.8x20 | L-W 4 |
| TTER 2525-2T08 | 150 | 25 | - | 1,8 | 25 | 33 | 24,1 | 8,0 | 2 | 0,750 | SH M5x0.8x25 | L-W 4 |
| TTER 1616-3T09 | 110 | 16 | 4 | 2,4 | 16 | 32 | 14,8 | 9,0 | 3 | 0,225 | SH M5X0.8X16 | L-W 4 |
| TTER 2020-3T09 | 125 | 20 | - | 2,4 | 20 | 32 | 18,8 | 9,0 | 3 | 0,375 | SH M5x0.8x20 | L-W 4 |
| TTER 2525-3T09 | 150 | 25 | - | 2,4 | 25 | 32 | 23,8 | 9,0 | 3 | 0,700 | SH M5x0.8x25 | L-W 4 |
| TTER 1616-4T10 | 110 | 16 | 4 | 3,0 | 16 | 33 | 14,5 | 10,0 | 4 | 0,190 | SH M6x1x16 | L-W 5 |
| TTER 2020-4T10 | 125 | 20 | - | 3,0 | 20 | 33 | 18,5 | 10,0 | 4 | 0,370 | SH M6X1X20 | L-W 5 |
| TTER 2525-4T10 | 150 | 25 | - | 3,0 | 25 | 33 | 23,5 | 10,0 | 4 | 0,690 | SH M6x1x25 | L-W 5 |
| TTER 2020-5T12 | 125 | 20 | - | 4,0 | 20 | 37 | 18,1 | 12,0 | 5 | 0,410 | SH M6X1X20 | L-W 5 |
| TTER 2525-5T12 | 150 | 25 | - | 4,0 | 25 | 37 | 23,1 | 12,0 | 5 | 0,350 | SH M6x1x25 | L-W 5 |
| TTER 2020-6T12 | 125 | 20 | - | 5,0 | 20 | 37 | 17,6 | 12,0 | 6 | 0,315 | SH M6X1X20 | L-W 5 |
| TTER 2525-6T12 | 150 | 25 | 7 | 5,0 | 25 | 37 | 22,6 | 12,0 | 6 | 0,695 | SH M6x1x25 | L-W 5 |
| TTER 2525-8T16 | 150 | 25 | 7 | 6,0 | 25 | 48 | 22,1 | 16,0 | 8 | 0,730 | SH M6x1x25 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

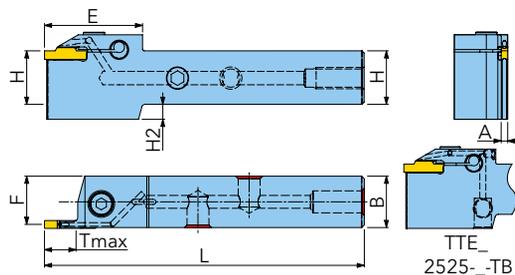
HOLDERS FOR EXTERNAL TURNING AND GROOVING
PORTE-OUTILS POUR TOURNAGE ET GORGES EXTERNES



| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|-----|----|----|------|------|----------|-------|--------------|------|
| TTEL 1616-2 | 110 | 16 | 4 | 1,8 | 16 | 32 | 15,1 | 12,0 | 2 | 0,205 | SH M5X0.8X16 | LW 4 |
| TTEL 2020-2 | 125 | 20 | - | 1,8 | 20 | 32 | 19,1 | 12,0 | 2 | 0,400 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-2 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 12,0 | 2 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTEL 1616-3 | 110 | 16 | 4 | 2,4 | 16 | 32 | 14,8 | 12,0 | 3 | 0,205 | SH M5X0.8X16 | LW 4 |
| TTEL 2020-3 | 125 | 20 | - | 2,4 | 20 | 32 | 18,8 | 12,0 | 3 | 0,360 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-3 | 150 | 25 | - | 2,4 | 25 | 32 | 23,8 | 12,0 | 3 | 0,685 | SH M5x0.8x25 | LW 4 |
| TTEL 1616-4 | 110 | 16 | 4 | 3,0 | 16 | 33 | 14,5 | 15,0 | 4 | 0,120 | SH M6x1x16 | LW 5 |
| TTEL 2020-4 | 125 | 20 | - | 3,0 | 20 | 33 | 18,5 | 15,0 | 4 | 0,590 | SH M6X1X20 | LW 5 |
| TTEL 2525-4 | 150 | 25 | - | 3,0 | 25 | 33 | 23,5 | 15,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTEL 2020-5 | 125 | 20 | - | 4,0 | 20 | 37 | 18,1 | 20,0 | 5 | 0,345 | SH M6X1X20 | LW 5 |
| TTEL 2525-5 | 150 | 25 | - | 4,0 | 25 | 37 | 23,1 | 20,0 | 5 | 0,655 | SH M6x1x25 | LW 5 |
| TTEL 2020-6 | 125 | 20 | - | 5,0 | 20 | 37 | 17,6 | 20,0 | 6 | 0,350 | SH M6X1X20 | LW 5 |
| TTEL 2525-6 | 150 | 25 | 7 | 4,9 | 25 | 41 | 22,6 | 20,0 | 6 | 0,645 | SH M6x1x25 | LW 5 |
| TTEL 2525-8 | 150 | 25 | 7 | 5,9 | 25 | 46 | 22,1 | 25,0 | 8 | 0,645 | SH M6x1x25 | LW 5 |
| TTEL 3232-8 | 170 | 32 | - | 6,0 | 32 | 42 | 29,1 | 25,0 | 8 | 1,185 | SH M6x1x25 | LW 5 |
| TTER 1616-2 | 110 | 16 | 4 | 1,8 | 16 | 32 | 15,1 | 12,0 | 2 | 0,220 | SH M5X0.8X16 | LW 4 |
| TTER 2020-2 | 125 | 20 | - | 1,8 | 20 | 32 | 19,1 | 12,0 | 2 | 0,365 | SH M5x0.8x20 | LW 4 |
| TTER 2525-2 | 150 | 25 | - | 1,8 | 25 | 32 | 24,1 | 12,0 | 2 | 0,680 | SH M5x0.8x25 | LW 4 |
| TTER 1616-3 | 110 | 16 | 4 | 2,4 | 16 | 32 | 14,8 | 12,0 | 3 | 0,215 | SH M5X0.8X16 | LW 4 |
| TTER 2020-3 | 125 | 20 | - | 2,4 | 20 | 32 | 18,8 | 12,0 | 3 | 0,370 | SH M5x0.8x20 | LW 4 |
| TTER 2525-3 | 150 | 25 | - | 2,4 | 25 | 32 | 23,8 | 12,0 | 3 | 0,680 | SH M5x0.8x25 | LW 4 |
| TTER 1616-4 | 110 | 16 | 4 | 3,0 | 16 | 33 | 14,5 | 15,0 | 4 | 0,200 | SH M6x1x16 | LW 5 |
| TTER 2020-4 | 125 | 20 | - | 3,0 | 20 | 33 | 18,5 | 15,0 | 4 | 0,355 | SH M6X1X20 | LW 5 |
| TTER 2525-4 | 150 | 25 | - | 3,0 | 25 | 33 | 23,5 | 15,0 | 4 | 0,678 | SH M6x1x25 | LW 5 |
| TTER 2020-5 | 125 | 20 | - | 4,0 | 20 | 37 | 18,1 | 20,0 | 5 | 0,345 | SH M6X1X20 | LW 5 |
| TTER 2525-5 | 150 | 25 | - | 4,0 | 25 | 37 | 23,1 | 20,0 | 5 | 0,655 | SH M6x1x25 | LW 5 |
| TTER 2020-6 | 125 | 20 | - | 5,0 | 20 | 37 | 17,6 | 20,0 | 6 | 0,350 | SH M6X1X20 | LW 5 |
| TTER 2525-6 | 150 | 25 | 7 | 4,9 | 25 | 41 | 22,6 | 20,0 | 6 | 0,615 | SH M6x1x25 | LW 5 |
| TTER 2525-8 | 150 | 25 | 7 | 5,9 | 25 | 46 | 22,1 | 25,0 | 8 | 0,750 | SH M6x1x25 | LW 5 |
| TTER 3232-8 | 170 | 32 | - | 6,0 | 32 | 42 | 29,1 | 25,0 | 8 | 1,190 | SH M6x1x25 | LW 5 |

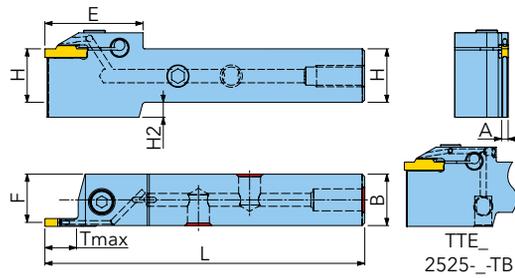
① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

HIGH PRESSURE TOOL FOR PARTING AND GROOVING
PORTE-OUTIL HAUTE PRESSION POUR TRONÇONNAGE ET GORGES



| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg | IK |
|----------------------------------|-----|----|----|-----|----|----|------|------|----------|-------|----|
| TTEL 2020-2T12-TB | 125 | 20 | - | 1,8 | 20 | 43 | 19,1 | 12 | 2 | 0,340 | ✓ |
| TTEL 2525-2T12-TB | 150 | 25 | - | 1,8 | 25 | 43 | 24,1 | 12 | 2 | 0,680 | ✓ |
| TTEL 2020-3-TB | 125 | 20 | - | 2,4 | 20 | 43 | 18,8 | 12 | 3 | 0,355 | ✓ |
| TTEL 2020-4-TB | 125 | 20 | - | 3,0 | 20 | 46 | 18,5 | 15 | 4 | 0,350 | ✓ |
| TTEL 2525-3-TB | 150 | 25 | - | 2,4 | 25 | 43 | 23,8 | 12 | 3 | 0,700 | ✓ |
| TTEL 2525-4-TB | 150 | 25 | - | 3,0 | 25 | 46 | 23,5 | 15 | 4 | 0,670 | ✓ |
| TTEL 2525-5-TB | 150 | 25 | - | 4,0 | 25 | 49 | 23,1 | 20 | 5 | 0,670 | ✓ |
| TTEL 2525-6-TB | 150 | 25 | 7 | 5,0 | 25 | 52 | 22,6 | 20 | 6 | 0,770 | ✓ |
| TTEL 2525-8-TB | 150 | 25 | 7 | 6,0 | 25 | 58 | 22,1 | 25 | 8 | 0,070 | ✓ |
| TTER 2020-2T12-TB | 125 | 20 | - | 1,8 | 20 | 43 | 19,1 | 12 | 2 | 0,340 | ✓ |
| TTER 2525-2T12-TB | 150 | 25 | - | 1,8 | 25 | 43 | 24,1 | 12 | 2 | 0,680 | ✓ |
| TTER 2020-3-TB | 125 | 20 | - | 2,4 | 20 | 43 | 18,8 | 12 | 3 | 0,370 | ✓ |
| TTER 2020-4-TB | 125 | 20 | - | 3,0 | 20 | 46 | 18,5 | 15 | 4 | 0,350 | ✓ |
| TTER 2525-3-TB | 150 | 25 | - | 2,4 | 25 | 43 | 23,8 | 12 | 3 | 0,730 | ✓ |
| TTER 2525-4-TB | 150 | 25 | - | 3,0 | 25 | 46 | 23,5 | 15 | 4 | 0,860 | ✓ |
| TTER 2525-5-TB | 150 | 25 | - | 4,0 | 25 | 49 | 23,1 | 20 | 5 | 0,650 | ✓ |
| TTER 2525-6-TB | 150 | 25 | 7 | 5,0 | 25 | 52 | 22,6 | 20 | 6 | 0,480 | ✓ |
| TTER 2525-8-TB | 150 | 25 | 7 | 6,0 | 25 | 58 | 22,1 | 25 | 8 | 0,700 | ✓ |

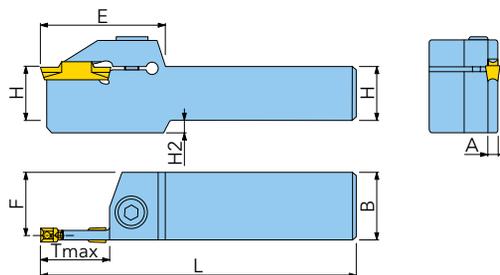
HIGH PRESSURE TOOL FOR PARTING AND GROOVING
PORTE-OUTIL HAUTE PRESSION POUR TRONÇONNAGE ET GORGES



| Designation Réf. de l'article | ① | ② | ③ | ④ |
|----------------------------------|---------------|-------|-------------|---------------------|
| TTEL 2020-2T12-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-L6.5 |
| TTEL 2525-2T12-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTEL 2020-3-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PT 0.125X8-L5.5 |
| TTEL 2020-4-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PT 0.125X8-L5.5 |
| TTEL 2525-3-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTEL 2525-4-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTEL 2525-5-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTEL 2525-6-TB | SH M8x1.25x20 | L-W 6 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTEL 2525-8-TB | SH M8x1.25x20 | L-W 6 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2020-2T12-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-L6.5 |
| TTER 2525-2T12-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2020-3-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PT 0.125X8-L5.5 |
| TTER 2020-4-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PT 0.125X8-L5.5 |
| TTER 2525-3-TB | SH M5x0.8x20 | L-W 4 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2525-4-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2525-5-TB | SH M6x1.0x20 | L-W 5 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2525-6-TB | SH M8x1.25x20 | L-W 6 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |
| TTER 2525-8-TB | SH M8x1.25x20 | L-W 6 | SS M4X0.7X4 | PLG G1/8-T8.0-L12.3 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Clamp screw / Vis de serrage ④ = Plug / Tube

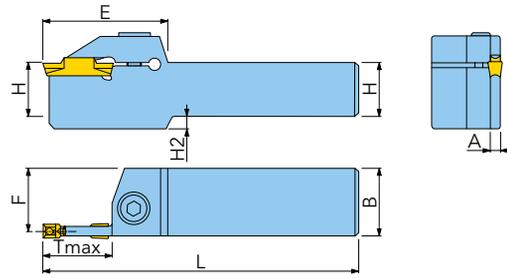
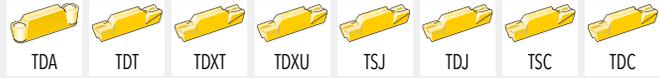
LONG TMAX HOLDERS FOR EXTERNAL TURNING AND GROOVING
PORTE-OUTILS POUR TOURNAGE ET GORGES EXTERNES - VERSION LONGUE



| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|------|----|----|------|------|----------|-------|---------------|------|
| TTEL 1616-2T17 | 110 | 16 | 4 | 1,8 | 16 | 37 | 15,1 | 17,0 | 2 | 0,195 | SH M5X0.8X16 | LW 4 |
| TTEL 2020-2T17 | 125 | 20 | - | 1,8 | 20 | 37 | 19,1 | 17,0 | 2 | 0,370 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-2T17 | 150 | 25 | - | 1,8 | 25 | 37 | 24,1 | 17,0 | 2 | 0,720 | SH M5x0.8x25 | LW 4 |
| TTEL 1616-3T20 | 110 | 16 | - | 2,4 | 16 | 39 | 14,8 | 20,0 | 3 | 0,220 | SH M5X0.8X16 | LW 4 |
| TTEL 2020-3T20 | 125 | 20 | - | 2,4 | 20 | 39 | 18,8 | 20,0 | 3 | 0,340 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-3T20 | 150 | 25 | - | 2,4 | 25 | 39 | 23,8 | 20,0 | 3 | 0,635 | SH M5X0.8X16 | LW 4 |
| TTEL 1616-4T25 | 110 | 16 | - | 3,0 | 16 | 45 | 14,5 | 25,0 | 4 | 0,190 | SH M6x1x16 | LW 5 |
| TTEL 2020-4T25 | 125 | 20 | - | 3,0 | 20 | 45 | 18,5 | 25,0 | 4 | 0,720 | SH M6X1X20 | LW 5 |
| TTEL 2525-4T25 | 150 | 25 | - | 3,0 | 25 | 45 | 23,5 | 25,0 | 4 | 0,625 | SH M6x1x25 | LW 5 |
| TTEL 2525-5T32 | 150 | 25 | - | 4,0 | 25 | 56 | 23,0 | 32,0 | 5 | 0,615 | SH M6x1x25 | LW 5 |
| TTEL 2525-6T32 | 150 | 25 | 7 | 5,0 | 25 | 56 | 22,5 | 32,0 | 6 | 0,620 | SH M6x1x25 | LW 5 |
| TTEL 2525-8T36 | 150 | 25 | 7 | 6,0 | 25 | 42 | 22,1 | 36,0 | 8 | 0,645 | SH M6x1x25 | LW 5 |
| TTEL 3232-5T20 | 170 | 32 | - | 4,0 | 32 | 39 | 30,0 | 20,0 | 5 | 1,300 | SH M6x1x25 | LW 5 |
| TTEL 3232-5T32 | 170 | 32 | - | 4,0 | 32 | 56 | 30,0 | 32,0 | 5 | 1,150 | SH M6x1x25 | LW 5 |
| TTEL 3232-6T20 | 170 | 32 | - | 5,0 | 32 | 39 | 29,5 | 20,0 | 6 | 1,240 | SH M6x1x25 | LW 5 |
| TTEL 3232-6T32 | 170 | 32 | - | 5,0 | 32 | 56 | 29,5 | 32,0 | 6 | 1,160 | SH M6x1x25 | LW 5 |
| TTEL 3232-8T36 | 170 | 32 | - | 6,0 | 32 | 60 | 29,1 | 36,0 | 8 | 1,140 | SH M6x1x25 | LW 5 |
| TTEL 2525-10T25 | 150 | 25 | - | 7,85 | 25 | 50 | 21,1 | 25,0 | 10 | 0,710 | SH M8x1.25x25 | LW 6 |
| TTEL 3232-10T25 | 170 | 32 | - | 7,85 | 32 | 50 | 28,1 | 25,0 | 10 | 1,220 | SH M8x1.25x25 | LW 6 |
| TTEL 4040-10T25 | 200 | 40 | - | 7,85 | 40 | 50 | 36,1 | 25,0 | 10 | 2,250 | SH M8x1.25x25 | LW 6 |
| TTEL 3232-10T40 | 170 | 32 | - | 7,85 | 32 | 65 | 28,1 | 40,0 | 10 | 1,150 | SH M8x1.25x25 | LW 6 |
| TTER 1616-2T17 | 110 | 16 | 4 | 1,8 | 16 | 37 | 15,1 | 17,0 | 2 | 0,195 | SH M5X0.8X16 | LW 4 |
| TTER 2020-2T17 | 125 | 20 | - | 1,8 | 20 | 37 | 19,1 | 17,0 | 2 | 0,315 | SH M5x0.8x20 | LW 4 |
| TTER 2525-2T17 | 150 | 25 | - | 1,8 | 25 | 37 | 24,1 | 17,0 | 2 | 0,720 | SH M5x0.8x25 | LW 4 |
| TTER 1616-3T20 | 110 | 16 | - | 2,4 | 16 | 39 | 14,8 | 20,0 | 3 | 0,190 | SH M5X0.8X16 | LW 4 |
| TTER 2020-3T20 | 125 | 20 | - | 2,4 | 20 | 39 | 18,8 | 20,0 | 3 | 0,400 | SH M5x0.8x20 | LW 4 |
| TTER 2525-3T20 | 150 | 25 | - | 2,4 | 25 | 39 | 23,8 | 20,0 | 3 | 0,650 | SH M5x0.8x25 | LW 4 |
| TTER 2525-3T25 | 150 | 25 | - | 2,4 | 25 | 39 | 23,8 | 25,0 | 3 | 0,615 | SH M5x0.8x25 | LW 4 |
| TTER 1616-4T25 | 110 | 16 | - | 3,0 | 16 | 45 | 14,5 | 25,0 | 4 | 0,190 | SH M6x1x16 | LW 5 |
| TTER 2020-4T25 | 125 | 20 | - | 3,0 | 20 | 45 | 18,5 | 25,0 | 4 | 0,370 | SH M6X1X20 | LW 5 |
| TTER 2525-4T25 | 150 | 25 | - | 3,0 | 25 | 45 | 23,5 | 25,0 | 4 | 0,625 | SH M6x1x25 | LW 5 |
| TTER 2525-5T32 | 150 | 25 | - | 4,0 | 25 | 56 | 23,0 | 32,0 | 5 | 0,615 | SH M6x1x25 | LW 5 |
| TTER 2525-6T32 | 150 | 25 | 7 | 5,0 | 25 | 56 | 22,5 | 32,0 | 6 | 0,620 | SH M6x1x25 | LW 5 |
| TTER 2525-8T36 | 150 | 25 | 7 | 6,0 | 25 | 42 | 22,1 | 36,0 | 8 | 0,650 | SH M8x1.25x25 | LW 5 |
| TTER 3232-5T20 | 170 | 32 | - | 4,0 | 32 | 39 | 30,0 | 20,0 | 5 | 1,230 | SH M6x1x25 | LW 5 |
| TTER 3232-5T32 | 170 | 32 | - | 4,0 | 32 | 56 | 30,0 | 32,0 | 5 | 1,170 | SH M6x1x25 | LW 5 |
| TTER 3232-6T20 | 170 | 32 | - | 5,0 | 32 | 39 | 29,5 | 20,0 | 6 | 1,230 | SH M6x1x25 | LW 5 |
| TTER 3232-6T32 | 170 | 32 | - | 5,0 | 32 | 56 | 29,5 | 32,0 | 6 | 1,170 | SH M6x1x25 | LW 5 |
| TTER 3232-8T36 | 170 | 32 | - | 6,0 | 32 | 60 | 29,1 | 36,0 | 8 | 1,130 | SH M8x1.25x25 | LW 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

LONG TMAX HOLDERS FOR EXTERNAL TURNING AND GROOVING
PORTE-OUTILS POUR TOURNAGE ET GORGES EXTERNES - VERSION LONGUE

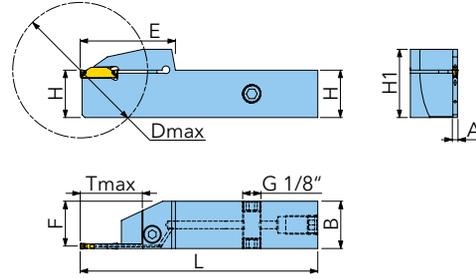


| Designation Réf. de l'article | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|------|----|----|------|------|----------|-------|---------------|-------|
| TTER 2525-10T25 | 150 | 25 | - | 7,85 | 25 | 50 | 21,1 | 25,0 | 10 | 0,710 | SH M8x1.25x25 | L-W 6 |
| TTER 3232-10T25 | 170 | 32 | - | 7,85 | 32 | 50 | 28,1 | 25,0 | 10 | 1,220 | SH M8x1.25x25 | L-W 6 |
| TTER 4040-10T25 | 200 | 40 | - | 7,85 | 40 | 50 | 36,1 | 25,0 | 10 | 2,250 | SH M8x1.25x25 | L-W 6 |
| TTER 3232-10T40 | 170 | 32 | - | 7,85 | 32 | 65 | 28,1 | 40,0 | 10 | 1,130 | SH M8x1.25x25 | L-W 6 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



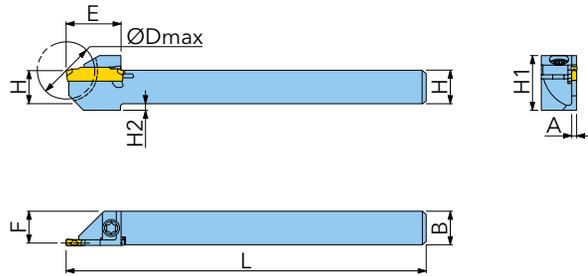
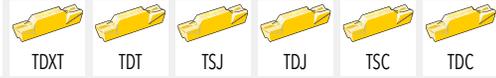
**GROOVING AND PARTING HOLDERS WITH CHANNELS FOR HIGH PRESSURE IN THE SHANK
PORTE-OUTILS DE TRONÇONNAGE ET GORGES PROFONDES AVEC ARROSAGE HAUTE PRESSION**



| Designation Réf. de l'article | D max. | L | H | H1 | A | B | Tmax | Insert-S | IK | ① | ② | ③ |
|----------------------------------|--------|-------|----|------|------|----|------|----------|----|-----------------|---------------------|--------|
| TTEL 2020-2-IHP | - | 95.5 | 20 | 27 | 1,76 | 20 | 12 | 2 | ✓ | PT 0.125X8-L5.5 | T25 MSX18 6NM | LTX 25 |
| TTEL 2020-2T17-IHP | - | 97.5 | 20 | 28 | 1,76 | 20 | 17 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2020-2T27-IHP | 54 | 107.5 | 20 | 30 | 1,55 | 20 | 27 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2020-3T20-IHP | - | 102 | 20 | 29 | 2,46 | 20 | 20 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2020-3T30-IHP | 60 | 110 | 20 | 31 | 2,46 | 20 | 30 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2020-4T25-IHP | - | 107 | 20 | 31 | 3,00 | 20 | 25 | 4 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-2-IHP | - | 107.5 | 25 | 32 | 1,76 | 25 | 12 | 2 | ✓ | PT 0.125X8-L5.5 | T25 MSX18 6NM | LTX 25 |
| TTEL 2525-2T17-IHP | - | 110.5 | 25 | 33 | 1,76 | 25 | 17 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-3T20-IHP | - | 114 | 25 | 34 | 2,46 | 25 | 20 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-3T32-IHP | 64 | 126 | 25 | 36 | 2,46 | 25 | 32 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-4T25-IHP | - | 119 | 25 | 36 | 3,00 | 25 | 25 | 4 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-5T32-IHP | - | 128 | 25 | 36.5 | 4,00 | 25 | 32 | 5 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTEL 2525-6T35-IHP | - | 131 | 25 | 37.5 | 5,00 | 25 | 35 | 6 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2020-2-IHP | - | 95.5 | 20 | 27 | 1,76 | 20 | 12 | 2 | ✓ | PT 0.125X8-L5.5 | T25 MSX18 6NM | LTX 25 |
| TTER 2020-2T17-IHP | - | 97.5 | 20 | 28 | 1,76 | 20 | 17 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2020-2T27-IHP | 54 | 107.5 | 20 | 30 | 1,55 | 20 | 27 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2020-3T20-IHP | - | 102 | 20 | 29 | 2,46 | 20 | 20 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2020-3T30-IHP | 60 | 110 | 20 | 31 | 2,46 | 20 | 30 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2020-4T25-IHP | - | 107 | 20 | 31 | 3,00 | 20 | 25 | 4 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-2-IHP | - | 107.5 | 25 | 32 | 1,76 | 25 | 12 | 2 | ✓ | PT 0.125X8-L5.5 | T25 MSX18 6NM | LTX 25 |
| TTER 2525-2T17-IHP | - | 110.5 | 25 | 33 | 1,76 | 25 | 17 | 2 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-3T20-IHP | - | 114 | 25 | 34 | 2,46 | 25 | 20 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-3T32-IHP | 64 | 126 | 25 | 36 | 2,46 | 25 | 32 | 3 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-4T25-IHP | - | 119 | 25 | 36 | 3,00 | 25 | 25 | 4 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-5T32-IHP | - | 128 | 25 | 36.5 | 4,00 | 25 | 32 | 5 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |
| TTER 2525-6T35-IHP | - | 131 | 25 | 37.5 | 5,00 | 25 | 35 | 6 | ✓ | PT 0.125X8-L5.5 | ISO 4762 MSX20-12.9 | L-W 4 |

① = Plug / Tube ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

EXTERNAL TURNING AND GROOVING HOLDERS FOR SWISS AUTOMATICS
PORTE-OUTILS DE TOURNAGE ET GORGES EXTERNES POUR TOURS À DÉCOLLETER



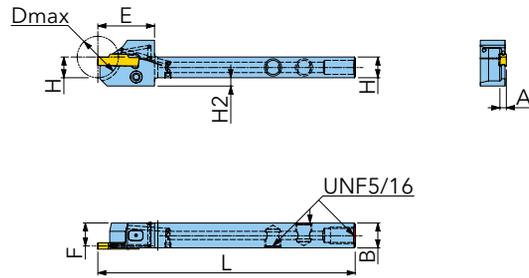
| Designation Réf. de l'article | D max. | L | H | H1 | H2 | A | B | E | F | Insert-S | kg | ① | ② |
|----------------------------------|--------|-----|----|------|----|-----|----|------|------|----------|-------|-------------|-----|
| TTEL 10-20-1,4SH | 20 | 125 | 10 | 13,7 | - | 1,0 | 10 | 18 | 9,5 | 1 | 0,090 | SM40-115-00 | T15 |
| TTEL 12-24-1,4SH | 24 | 125 | 12 | 15,7 | - | 1,0 | 12 | 19,5 | 11,5 | 1 | 0,130 | SM40-115-00 | T15 |
| TTEL 14-24-1,4SH | 24 | 125 | 14 | 17,7 | - | 1,0 | 14 | 19,5 | 13,5 | 1 | 0,120 | SM40-115-00 | T15 |
| TTEL 16-32-1,4SH | 32 | 125 | 16 | 19,7 | - | 1,0 | 16 | 24 | 15,5 | 1 | 0,250 | SM40-115-00 | T15 |
| TTEL 10-20-2SH | 20 | 125 | 10 | 17,5 | 2 | 1,8 | 10 | 19 | 9,1 | 2 | 0,085 | SM40-115-00 | T15 |
| TTEL 12-24-2SH | 24 | 125 | 12 | 19,0 | 2 | 1,8 | 12 | 19 | 11,1 | 2 | 0,110 | SM40-115-00 | T15 |
| TTEL 14-24-2SH | 24 | 125 | 14 | 19,0 | - | 1,8 | 14 | 19 | 13,1 | 2 | 0,175 | SM40-115-00 | T15 |
| TTEL 16-32-2SH | 32 | 125 | 16 | 21,0 | - | 1,8 | 16 | 24 | 15,1 | 2 | 0,230 | SM40-115-00 | T15 |
| TTEL 12-24-3SH | 24 | 125 | 12 | 19,0 | 2 | 2,4 | 12 | 11,1 | 9,0 | 3 | 0,130 | SM40-115-00 | T15 |
| TTEL 16-32-3SH | 32 | 125 | 16 | 21,0 | - | 2,4 | 16 | 15,1 | 14,8 | 3 | 0,230 | SM40-115-00 | T15 |
| TTER 10-20-1,4SH | 20 | 125 | 10 | 13,7 | - | 1,0 | 10 | 18 | 9,5 | 1 | 0,090 | SM40-115-00 | T15 |
| TTER 12-24-1,4SH | 24 | 125 | 12 | 15,7 | - | 1,0 | 12 | 19,5 | 11,5 | 1 | 0,130 | SM40-115-00 | T15 |
| TTER 14-24-1,4SH | 24 | 125 | 14 | 17,7 | - | 1,0 | 14 | 19,5 | 13,5 | 1 | 0,170 | SM40-115-00 | T15 |
| TTER 16-32-1,4SH | 32 | 125 | 16 | 19,7 | - | 1,0 | 16 | 24 | 15,5 | 1 | 0,250 | SM40-115-00 | T15 |
| TTER 10-20-2SH | 20 | 125 | 10 | 17,5 | 2 | 1,8 | 10 | 19 | 9,1 | 2 | 0,095 | SM40-115-00 | T15 |
| TTER 12-24-2SH | 24 | 125 | 12 | 19,0 | 2 | 1,8 | 12 | 19 | 11,1 | 2 | 0,130 | SM40-115-00 | T15 |
| TTER 14-24-2SH | 24 | 125 | 14 | 19,0 | - | 1,8 | 14 | 19 | 13,1 | 2 | 0,175 | SM40-115-00 | T15 |
| TTER 16-32-2SH | 32 | 125 | 16 | 21,0 | - | 1,8 | 16 | 24 | 15,1 | 2 | 0,225 | SM40-115-00 | T15 |
| TTER 12-24-3SH | 24 | 125 | 12 | 19,0 | 2 | 2,4 | 12 | 11,1 | 9,0 | 3 | 0,130 | SM40-115-00 | T15 |
| TTER 16-32-3SH | 32 | 125 | 16 | 21,0 | - | 2,4 | 16 | 15,1 | 14,8 | 3 | 0,220 | SM40-115-00 | T15 |

Technical informations regarding Dmax etc. have a look at the technical Booklett / Informations techniques concernant Dmax, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



SIDE LOCK HOLDERS WITH CHANNELS FOR HIGH PRESSURE COOLANT ON SWISS-TYPE MACHINES
PORTE-OUTILS DE DÉCOLLETAGE AVEC ARROSAGE HAUTE PRESSION - SERRAGE LATÉRAL

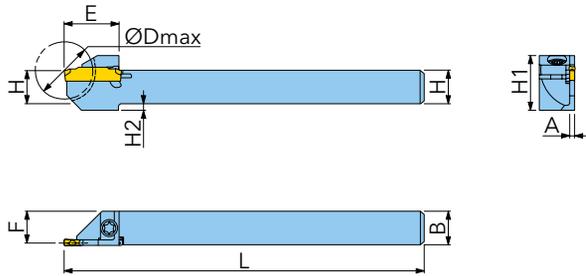


| Designation Réf. de l'article | D max. | L | H | H2 | A | B | E | F | Insert-S | kg | IK |
|----------------------------------|--------|-----|----|----|-----|----|------|------|----------|------|----|
| TTEL 12-24-2SH-TB | 24 | 125 | 12 | 2 | 1,8 | 12 | 27,5 | 11,1 | 2 | 0,34 | ✓ |
| TTEL 16-32-2SH-TB | 32 | 125 | 16 | - | 1,8 | 16 | 31,5 | 15,1 | 2 | 0,68 | ✓ |
| TTEL 12-24-3SH-TB | 24 | 125 | 12 | 2 | 2,4 | 12 | 27,5 | 10,8 | 3 | 0,34 | ✓ |
| TTEL 16-32-3SH-TB | 32 | 125 | 16 | - | 2,4 | 16 | 31,5 | 14,8 | 3 | 0,68 | ✓ |
| TTER 12-24-2SH-TB | 24 | 125 | 12 | 2 | 1,8 | 12 | 27,5 | 11,1 | 2 | 0,34 | ✓ |
| TTER 16-32-2SH-TB | 32 | 125 | 16 | - | 1,8 | 16 | 31,5 | 15,1 | 2 | 0,68 | ✓ |
| TTER 12-24-3SH-TB | 24 | 125 | 12 | 2 | 2,4 | 12 | 27,5 | 10,8 | 3 | 0,34 | ✓ |
| TTER 16-32-3SH-TB | 32 | 125 | 16 | - | 2,4 | 16 | 31,5 | 14,8 | 3 | 0,68 | ✓ |

| Designation Réf. de l'article | ① | ② | ③ | ④ | ⑤ | ⑥ |
|----------------------------------|---------------|-------------|----------------------|----------|--------------|----------|
| TTEL 12-24-2SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTEL 16-32-2SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTEL 12-24-3SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTEL 16-32-3SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTER 12-24-2SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTER 16-32-2SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTER 12-24-3SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |
| TTER 16-32-3SH-TB | PIN-SH-TB-L21 | SS M5-24145 | SS MSX3.5 ULTEM 2300 | L-W 2.5F | PLG 5/16 UNF | L-W 5/32 |

① = Clamping Pin / - ② = Set screw / Vis de réglage ③ = Clamp screw / Vis de serrage ④ = Wrench / Clé de serrage ⑤ = Plug / Tube ⑥ = Wrench / Clé de serrage

STRONG TMAX HOLDERS FOR EXTERNAL TURNING AND GROOVING
PORTE-OUTILS POUR TOURNAGE ET GORGES EXTERNES - GRAND T MAX



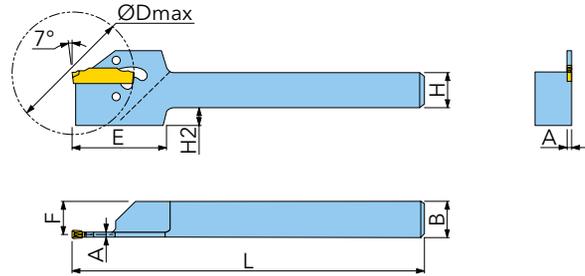
| Designation Réf. de l'article | D max. | L | H | H1 | A | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|-----|----|----|-----|----|----|------|------|----------|-------|--------------|------|
| TTEL 1010-1,4T15-D40 | 40 | 125 | 10 | 6 | 1,0 | 10 | 32 | 9,5 | 15 | 1 | 0,100 | SH M5X0.8X16 | LW 4 |
| TTEL 1212-1,4T15-D40 | 40 | 125 | 12 | 4 | 1,0 | 12 | 32 | 11,5 | 15 | 1 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTEL 1616-1,4T20-D45 | 45 | 125 | 16 | 4 | 1,0 | 16 | 38 | 15,5 | 20 | 1 | 0,230 | SH M5x0.8x20 | LW 4 |
| TTEL 2020-1,4T20-D45 | 45 | 125 | 20 | - | 1,0 | 20 | 38 | 19,5 | 20 | 1 | 0,330 | SH M5x0.8x20 | LW 4 |
| TTEL 1010-2T15-D40 | 40 | 125 | 10 | 6 | 1,8 | 10 | 32 | 9,1 | 15 | 2 | 0,100 | SH M5X0.8X16 | LW 4 |
| TTEL 1212-2T15-D40 | 40 | 125 | 12 | 4 | 1,8 | 12 | 32 | 11,1 | 15 | 2 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTEL 1616-2T20-D45 | 45 | 125 | 16 | 4 | 1,8 | 16 | 38 | 15,1 | 20 | 2 | 0,255 | SH M5x0.8x20 | LW 4 |
| TTEL 2020-2T20-D45 | 45 | 125 | 20 | - | 1,8 | 20 | 38 | 19,1 | 20 | 2 | 0,340 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-2T20-D45 | 45 | 150 | 25 | - | 1,8 | 25 | 38 | 24,1 | 20 | 2 | 0,630 | SH M5x0.8x25 | LW 4 |
| TTEL 1212-3T15-D40 | 40 | 125 | 12 | 4 | 2,4 | 12 | 32 | 10,8 | 15 | 3 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTEL 1616-3T20-D45 | 45 | 125 | 16 | 4 | 2,4 | 16 | 38 | 14,8 | 20 | 3 | 0,230 | SH M5x0.8x20 | LW 4 |
| TTEL 2020-3T20-D45 | 45 | 125 | 20 | - | 2,4 | 20 | 38 | 18,8 | 20 | 3 | 0,340 | SH M5x0.8x20 | LW 4 |
| TTEL 2525-3T20-D45 | 45 | 150 | 25 | - | 2,4 | 25 | 38 | 23,8 | 20 | 3 | 0,640 | SH M5x0.8x25 | LW 4 |
| TTEL 2525-3T25-D60 | 60 | 150 | 25 | - | 2,4 | 25 | 43 | 23,8 | 25 | 3 | 0,600 | SH M5x0.8x25 | LW 4 |
| TTER 1010-1,4T15-D40 | 40 | 125 | 10 | 6 | 1,0 | 10 | 32 | 9,5 | 15 | 1 | 0,100 | SH M5X0.8X16 | LW 4 |
| TTER 1212-1,4T15-D40 | 40 | 125 | 12 | 4 | 1,0 | 12 | 32 | 11,5 | 15 | 1 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTER 1616-1,4T20-D45 | 45 | 125 | 16 | 4 | 1,0 | 16 | 38 | 15,5 | 20 | 1 | 0,230 | SH M5x0.8x20 | LW 4 |
| TTER 2020-1,4T20-D45 | 45 | 125 | 20 | - | 1,0 | 20 | 38 | 19,5 | 20 | 1 | 0,340 | SH M5x0.8x20 | LW 4 |
| TTER 1010-2T15-D40 | 40 | 125 | 10 | 6 | 1,8 | 10 | 32 | 9,1 | 15 | 2 | 0,100 | SH M5X0.8X16 | LW 4 |
| TTER 1212-2T15-D40 | 40 | 125 | 12 | 4 | 1,8 | 12 | 32 | 11,1 | 15 | 2 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTER 1616-2T20-D45 | 45 | 125 | 16 | 4 | 1,8 | 16 | 38 | 15,1 | 20 | 2 | 0,230 | SH M5x0.8x20 | LW 4 |
| TTER 2020-2T20-D45 | 45 | 125 | 20 | - | 1,8 | 20 | 38 | 19,1 | 20 | 2 | 0,330 | SH M5x0.8x20 | LW 4 |
| TTER 2525-2T20-D45 | 45 | 150 | 25 | - | 1,8 | 25 | 38 | 24,1 | 20 | 2 | 0,630 | SH M5x0.8x25 | LW 4 |
| TTER 1212-3T15-D40 | 40 | 125 | 12 | 4 | 2,4 | 12 | 32 | 10,8 | 15 | 3 | 0,140 | SH M5X0.8X16 | LW 4 |
| TTER 1616-3T20-D45 | 45 | 125 | 16 | 4 | 2,4 | 16 | 38 | 14,8 | 20 | 3 | 0,230 | SH M5x0.8x20 | LW 4 |
| TTER 2020-3T20-D45 | 45 | 125 | 20 | - | 2,4 | 20 | 38 | 18,8 | 20 | 3 | 0,340 | SH M5x0.8x20 | LW 4 |
| TTER 2525-3T20-D45 | 45 | 150 | 25 | - | 2,4 | 25 | 38 | 23,8 | 20 | 3 | 0,640 | SH M5x0.8x25 | LW 4 |
| TTER 2525-3T25-D60 | 60 | 150 | 25 | - | 2,4 | 25 | 43 | 23,8 | 25 | 3 | 0,620 | SH M5x0.8x25 | LW 4 |

Technical informations regarding Dmax etc. have a look at the technical Booklett / Informations techniques concernant Dmax, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



HOLDERS FOR PARTING AND DEEP GROOVING
PORTE-OUTILS POUR TRONÇONNAGE ET GORGES PROFONDES

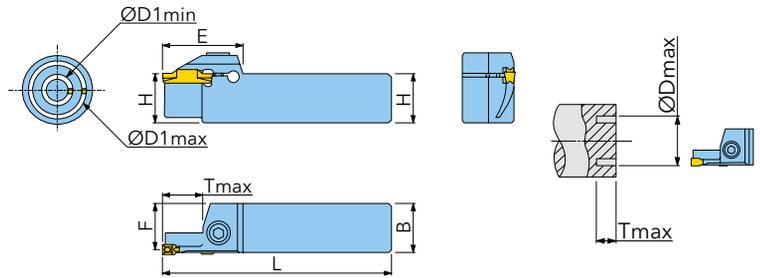


| Designation Réf. de l'article | D max. | L | H | H2 | A | B | E | F | Tmax | Insert-S | kg |  |
|----------------------------------|--------|-----|-----|----|-----|----|----|------|------|----------|-------|---|
| TGEL 2020-1,4T10 | 30 | 125 | 20 | - | 1,0 | 20 | 31 | 19,5 | 10 | 1 | 0,329 | EDG 23B |
| TGEL 1010-2 | 34 | 150 | 10 | 8 | 1,8 | 10 | 31 | 9,1 | 17 | 2 | 0,113 | EDG 33B |
| TGEL 1212-2 | 36 | 150 | 12 | 6 | 1,8 | 12 | 31 | 11,1 | 18 | 2 | 0,154 | EDG 33B |
| TGEL 1616-2 | 36 | 150 | 16 | 2 | 1,8 | 16 | 31 | 15,1 | 18 | 2 | 0,263 | EDG 33B |
| TGEL 2012-2 | 36 | 125 | 20 | - | 1,8 | 12 | 31 | 11,1 | 18 | 2 | 0,248 | EDG 33B |
| TGEL 2020-2 | 36 | 125 | 20 | - | 1,8 | 20 | 31 | 19,1 | 18 | 2 | 0,329 | EDG 33B |
| TGEL 1212-3 | 40 | 150 | 12 | 6 | 2,4 | 12 | 31 | 10,8 | 20 | 3 | 0,155 | EDG 33B |
| TGEL 1616-3 | 46 | 150 | 16 | 2 | 2,4 | 16 | 31 | 14,8 | 23 | 3 | 0,263 | EDG 33B |
| TGEL 2020-3 | 46 | 125 | 20 | - | 2,4 | 20 | 31 | 18,8 | 23 | 3 | 0,326 | EDG 33B |
| TGEL 2525-3 | 46 | 25 | 150 | - | 2,4 | 25 | 31 | 23,8 | 23 | 3 | 0,639 | EDG 33B |
| TGEL 2020-4 | 56 | 125 | 20 | - | 3,2 | 20 | 33 | 18,4 | 28 | 4 | 0,600 | EDG 33B |
| TGEL 2525-4 | 56 | 150 | 25 | - | 3,2 | 25 | 33 | 23,4 | 28 | 4 | 0,618 | EDG 33B |
| TGER 2020-1,4T10 | 30 | 125 | 20 | - | 1,0 | 20 | 31 | 19,5 | 10 | 1 | 0,330 | EDG 23B |
| TGER 1010-2 | 34 | 150 | 10 | 8 | 1,8 | 10 | 31 | 9,1 | 17 | 2 | 0,112 | EDG 33B |
| TGER 1212-2 | 36 | 150 | 12 | 6 | 1,8 | 12 | 31 | 11,1 | 18 | 2 | 0,153 | EDG 33B |
| TGER 1616-2 | 36 | 150 | 16 | 2 | 1,8 | 16 | 31 | 15,1 | 18 | 2 | 0,275 | EDG 33B |
| TGER 2012-2 | 36 | 125 | 20 | - | 1,8 | 12 | 31 | 11,1 | 18 | 2 | 0,248 | EDG 33B |
| TGER 2020-2 | 36 | 125 | 20 | - | 1,8 | 20 | 31 | 19,1 | 18 | 2 | 0,330 | EDG 33B |
| TGER 1212-3 | 40 | 150 | 12 | 6 | 2,4 | 12 | 31 | 10,8 | 20 | 3 | 0,155 | EDG 33B |
| TGER 1616-3 | 46 | 150 | 16 | 2 | 2,4 | 16 | 31 | 14,8 | 23 | 3 | 0,262 | EDG 33B |
| TGER 2020-3 | 46 | 125 | 20 | - | 2,4 | 20 | 31 | 18,8 | 23 | 3 | 0,325 | EDG 33B |
| TGER 2525-3 | 46 | 25 | 150 | - | 2,4 | 25 | 31 | 23,8 | 23 | 3 | 0,640 | EDG 33B |
| TGER 2020-4 | 56 | 125 | 20 | - | 3,2 | 20 | 33 | 18,4 | 28 | 4 | 0,316 | EDG 33B |
| TGER 2525-4 | 56 | 150 | 25 | - | 3,2 | 25 | 33 | 23,4 | 28 | 4 | 0,619 | EDG 33B |

Technical informations regarding Dmax etc. have a look at the technical Booklett / Informations techniques concernant Dmax, reportez-vous à la brochure technique

① = Extractor / Extracteur

DEEP FACE GROOVING AND TURNING HOLDERS
PORTE-OUTILS DE TOURNAGE ET GORGES FRONTALES

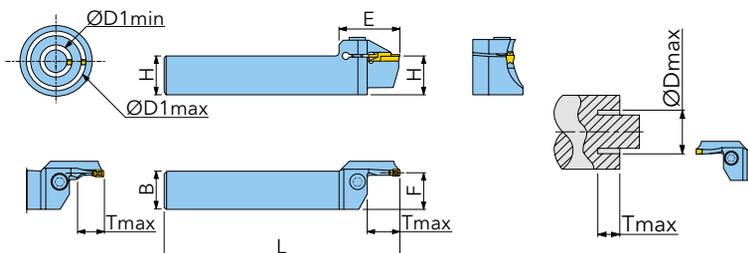


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|---------|---------|-----|----|----|----|------|------|----------|-------|---------------|------|
| TTFL 25-30-3 | 24 | 35 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTFL 25-35-3 | 29 | 40 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTFL 25-40-3 | 34 | 50 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTFL 25-50-3 | 44 | 60 | 150 | 25 | 25 | 32 | 24,0 | 15,0 | 3 | 0,660 | SH M5x0.8x25 | LW 4 |
| TTFL 25-60-3 | 54 | 85 | 150 | 25 | 25 | 32 | 24,0 | 15,0 | 3 | 0,665 | SH M5x0.8x25 | LW 4 |
| TTFL 25-30-4 | 22 | 40 | 150 | 25 | 25 | 33 | 23,6 | 12,0 | 4 | 0,680 | SH M6x1x25 | LW 5 |
| TTFL 25-40-4 | 32 | 50 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,660 | SH M6x1x25 | LW 5 |
| TTFL 25-50-4 | 42 | 60 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,660 | SH M6x1x25 | LW 5 |
| TTFL 25-60-4 | 52 | 85 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,650 | SH M6x1x25 | LW 5 |
| TTFL 25-60-5 | 50 | 80 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFL 25-80-5 | 70 | 110 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFL 25-110-5 | 110 | 150 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFL 25-150-5 | 140 | 200 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFL 25-60-6 | 48 | 85 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,900 | SH M8x1.25x25 | LW 6 |
| TTFL 25-85-6 | 73 | 150 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFL 25-150-6 | 138 | 250 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,730 | SH M8x1.25x25 | LW 6 |
| TTFL 25-250-6 | 250 | - | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFR 25-30-3 | 24 | 35 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,695 | SH M5x0.8x25 | LW 4 |
| TTFR 25-35-3 | 29 | 40 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTFR 25-40-3 | 34 | 50 | 150 | 25 | 25 | 32 | 24,0 | 10,0 | 3 | 0,690 | SH M5x0.8x25 | LW 4 |
| TTFR 25-50-3 | 44 | 60 | 150 | 25 | 25 | 32 | 24,0 | 15,0 | 3 | 0,665 | SH M5x0.8x25 | LW 4 |
| TTFR 25-60-3 | 54 | 85 | 150 | 25 | 25 | 32 | 24,0 | 15,0 | 3 | 0,665 | SH M5x0.8x25 | LW 4 |
| TTFR 25-30-4 | 22 | 40 | 150 | 25 | 25 | 33 | 23,6 | 12,0 | 4 | 0,680 | SH M6x1x25 | LW 5 |
| TTFR 25-40-4 | 32 | 50 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFR 25-50-4 | 42 | 60 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFR 25-60-4 | 52 | 85 | 150 | 25 | 25 | 33 | 23,6 | 15,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFR 25-60-5 | 50 | 80 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,640 | SH M8x1.25x25 | LW 6 |
| TTFR 25-80-5 | 70 | 110 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFR 25-110-5 | 110 | 150 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | | SH M8x1.25x25 | LW 6 |
| TTFR 25-150-5 | 138 | 250 | 150 | 25 | 25 | 41 | 23,5 | 20,0 | 5 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFR 25-60-6 | 48 | 85 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFR 25-85-6 | 73 | 150 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,675 | SH M8x1.25x25 | LW 6 |
| TTFR 25-150-6 | 138 | 250 | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,655 | SH M8x1.25x25 | LW 6 |
| TTFR 25-250-6 | 250 | - | 150 | 25 | 25 | 41 | 22,6 | 20,0 | 6 | 0,660 | SH M6x1x25 | LW 5 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

DEEP FACE GROOVING AND TURNING HOLDERS
PORTE-OUTILS DE TOURNAGE ET GORGES FRONTALES

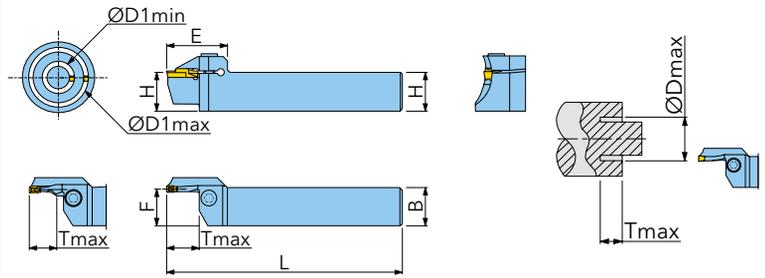


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|---------|---------|-----|----|----|----|------|------|----------|-------|---------------|------|
| TTFL 25-30-3 RN | 24 | 35 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,700 | SH M6x1x25 | LW 5 |
| TTFL 25-35-3 RN | 29 | 40 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,700 | SH M6x1x25 | LW 5 |
| TTFL 25-40-3 RN | 34 | 50 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,660 | SH M6x1x25 | LW 5 |
| TTFL 25-50-3 RN | 44 | 70 | 150 | 25 | 25 | 38 | 24,0 | 15,0 | 3 | 0,690 | SH M6x1x25 | LW 5 |
| TTFL 25-70-3 RN | 64 | 100 | 150 | 25 | 25 | 38 | 24,0 | 15,0 | 3 | 0,690 | SH M6x1x25 | LW 5 |
| TTFL 25-30-4 RN | 22 | 36 | 150 | 25 | 25 | 39 | 23,6 | 10,0 | 4 | 0,680 | SH M6x1x25 | LW 5 |
| TTFL 25-36-4 RN | 28 | 42 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTFL 25-42-4 RN | 34 | 50 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTFL 25-50-4 RN | 42 | 70 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTFL 25-70-4 RN | 62 | 120 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFL 25-120-4 RN | 112 | 200 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFL 25-200-4 RN | 200 | - | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,650 | SH M6x1x25 | LW 5 |
| TTFL 25-60-5 RN | 50 | 80 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,720 | SH M8x1.25x25 | LW 6 |
| TTFL 25-80-5 RN | 70 | 110 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFL 25-110-5 RN | 100 | 150 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,980 | SH M8x1.25x25 | LW 6 |
| TTFL 25-150-5 RN | 140 | 200 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,980 | SH M8x1.25x25 | LW 6 |
| TTFL 25-200-5 RN | 200 | - | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFL 25-60-6 RN | 48 | 70 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,660 | SH M8x1.25x25 | LW 6 |
| TTFL 25-70-6 RN | 58 | 100 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,680 | SH M8x1.25x25 | LW 6 |
| TTFL 25-100-6 RN | 88 | 180 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,720 | SH M8x1.25x25 | LW 6 |
| TTFL 25-180-6 RN | 168 | 400 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,730 | SH M8x1.25x25 | LW 6 |
| TTFL 25-400-6 RN | 400 | - | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFL 20-21-30-3T10 RN | 21 | 30 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,410 | SH M6x1x25 | LW 5 |
| TTFL 20-24-35-3T10 RN | 24 | 35 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,410 | SH M6x1x25 | LW 5 |
| TTFL 20-29-40-3T10 RN | 29 | 40 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,420 | SH M6x1x25 | LW 5 |
| TTFL 20-34-50-3T10 RN | 34 | 50 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,420 | SH M6x1x25 | LW 5 |
| TTFL 20-44-70-3T15 RN | 44 | 70 | 140 | 20 | 20 | 35 | 19,0 | 15,0 | 3 | 0,410 | SH M6x1x25 | LW 5 |
| TTFL 20-64-100-3T15 RN | 64 | 100 | 140 | 20 | 20 | 35 | 19,0 | 15,0 | 3 | 0,400 | SH M6x1x25 | LW 5 |
| TTFL 20-19-30-4T10 RN | 19 | 30 | 140 | 20 | 20 | 31 | 18,6 | 10,0 | 4 | 0,420 | SH M6x1x25 | LW 5 |
| TTFL 20-22-36-4T10 RN | 22 | 36 | 140 | 20 | 20 | 31 | 18,6 | 10,0 | 4 | 0,420 | SH M6x1x25 | LW 5 |
| TTFL 20-28-42-4T16 RN | 28 | 42 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |
| TTFL 20-34-50-4T16 RN | 34 | 50 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,410 | SH M6x1x25 | LW 5 |
| TTFL 20-42-70-4T16 RN | 42 | 70 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,390 | SH M6x1x25 | LW 5 |
| TTFL 20-62-120-4T16 RN | 62 | 120 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |
| TTFL 20-112-200-4T16 RN | 112 | 200 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

DEEP FACE GROOVING AND TURNING HOLDERS
PORTE-OUTILS DE TOURNAGE ET GORGES FRONTALES

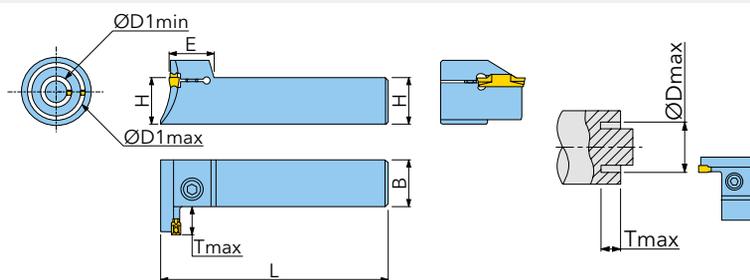


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|---------|---------|-----|----|----|----|------|------|----------|-------|---------------|------|
| TTFR 25-30-3 RN | 24 | 35 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,950 | SH M6x1x25 | LW 5 |
| TTFR 25-35-3 RN | 29 | 40 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,650 | SH M6x1x25 | LW 5 |
| TTFR 25-40-3 RN | 34 | 50 | 150 | 25 | 25 | 38 | 24,0 | 10,0 | 3 | 0,660 | SH M6x1x25 | LW 5 |
| TTFR 25-50-3 RN | 44 | 70 | 150 | 25 | 25 | 38 | 24,0 | 15,0 | 3 | 0,690 | SH M6x1x25 | LW 5 |
| TTFR 25-70-3 RN | 64 | 100 | 150 | 25 | 25 | 38 | 24,0 | 15,0 | 3 | 0,690 | SH M6x1x25 | LW 5 |
| TTFR 25-30-4 RN | 22 | 36 | 150 | 25 | 25 | 39 | 23,6 | 10,0 | 4 | 0,720 | SH M6x1x25 | LW 5 |
| TTFR 25-36-4 RN | 28 | 42 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTFR 25-42-4 RN | 34 | 50 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,670 | SH M6x1x25 | LW 5 |
| TTFR 25-50-4 RN | 42 | 70 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,724 | SH M6x1x25 | LW 5 |
| TTFR 25-70-4 RN | 62 | 120 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,660 | SH M6x1x25 | LW 5 |
| TTFR 25-120-4 RN | 112 | 200 | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,665 | SH M6x1x25 | LW 5 |
| TTFR 25-200-4 RN | 200 | - | 150 | 25 | 25 | 39 | 23,6 | 20,0 | 4 | 0,660 | SH M6x1x25 | LW 5 |
| TTFR 25-60-5 RN | 50 | 80 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFR 25-80-5 RN | 70 | 110 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,710 | SH M8x1.25x25 | LW 6 |
| TTFR 25-110-5 RN | 100 | 150 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,950 | SH M8x1.25x25 | LW 6 |
| TTFR 25-150-5 RN | 140 | 200 | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFR 25-200-5 RN | 200 | - | 150 | 25 | 25 | 49 | 23,1 | 25,0 | 5 | 0,650 | SH M8x1.25x25 | LW 6 |
| TTFR 25-60-6 RN | 48 | 70 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,675 | SH M8x1.25x25 | LW 6 |
| TTFR 25-70-6 RN | 58 | 100 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFR 25-100-6 RN | 88 | 180 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFR 25-180-6 RN | 168 | 400 | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFR 25-400-6 RN | 400 | - | 150 | 25 | 25 | 49 | 22,6 | 25,0 | 6 | 0,670 | SH M8x1.25x25 | LW 6 |
| TTFR 20-21-30-3T10 RN | 21 | 30 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,420 | SH M6x1x25 | LW 5 |
| TTFR 20-24-35-3T10 RN | 24 | 35 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,420 | SH M6x1x25 | LW 5 |
| TTFR 20-29-40-3T10 RN | 29 | 40 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,420 | SH M6x1x25 | LW 5 |
| TTFR 20-34-50-3T10 RN | 34 | 50 | 140 | 20 | 20 | 31 | 19,0 | 10,0 | 3 | 0,400 | SH M6x1x25 | LW 5 |
| TTFR 20-44-70-3T15 RN | 44 | 70 | 140 | 20 | 20 | 35 | 19,0 | 15,0 | 3 | 0,410 | SH M6x1x25 | LW 5 |
| TTFR 20-64-100-3T15 RN | 64 | 100 | 140 | 20 | 20 | 35 | 19,0 | 15,0 | 3 | 0,400 | SH M6x1x25 | LW 5 |
| TTFR 20-19-30-4T10 RN | 19 | 30 | 140 | 20 | 20 | 31 | 18,6 | 10,0 | 4 | 0,410 | SH M6x1x25 | LW 5 |
| TTFR 20-22-36-4T10 RN | 22 | 36 | 140 | 20 | 20 | 31 | 18,6 | 10,0 | 4 | 0,420 | SH M6x1x25 | LW 5 |
| TTFR 20-28-42-4T16 RN | 28 | 42 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |
| TTFR 20-34-50-4T16 RN | 34 | 50 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,420 | SH M6x1x25 | LW 5 |
| TTFR 20-42-70-4T16 RN | 42 | 70 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |
| TTFR 20-62-120-4T16 RN | 62 | 120 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |
| TTFR 20-112-200-4T16 RN | 112 | 200 | 140 | 20 | 20 | 36 | 18,6 | 16,0 | 4 | 0,400 | SH M6x1x25 | LW 5 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

DEEP FACE GROOVING AND TURNING PERPENDICULAR HOLDERS AGAINST CENTER
PORTE-OUTILS PERPENDICULAIRE POUR TOURNAGE ET GORGES FRONTALES

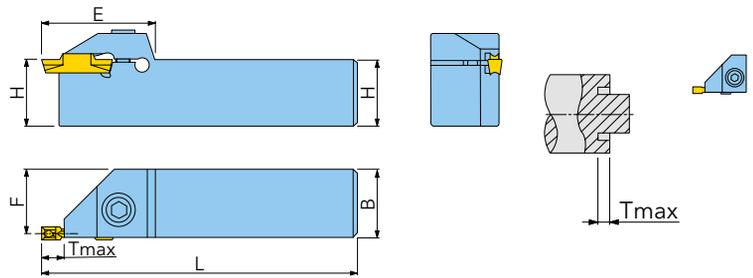


| Designation Réf. de l'article | D1 min. | D1 max. | L | H | B | E | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|---------|---------|-----|----|----|------|------|----------|-------|---------------|------|
| TTFPL 25-30-3 | 24 | 35 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,760 | SH M5x0.8x25 | LW 4 |
| TTFPL 25-35-3 | 29 | 40 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,765 | SH M5x0.8x25 | LW 4 |
| TTFPL 25-40-3 | 34 | 50 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,760 | SH M5x0.8x25 | LW 4 |
| TTFPL 25-50-3 | 44 | 60 | 150 | 25 | 25 | 18 | 15,0 | 3 | 0,765 | SH M5x0.8x25 | LW 4 |
| TTFPL 25-60-3 | 54 | 85 | 150 | 25 | 25 | 18 | 15,0 | 3 | 0,760 | SH M5x0.8x25 | LW 4 |
| TTFPL 25-30-4 | 22 | 40 | 150 | 25 | 25 | 18,5 | 12,0 | 4 | 0,770 | SH M6x1x25 | LW 5 |
| TTFPL 25-40-4 | 32 | 50 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,760 | SH M6x1x25 | LW 5 |
| TTFPL 25-50-4 | 42 | 60 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,690 | SH M6x1x25 | LW 5 |
| TTFPL 25-60-4 | 52 | 85 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,690 | SH M6x1x25 | LW 5 |
| TTFPL 25-60-5 | 50 | 80 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-80-5 | 70 | 110 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-110-5 | 100 | 150 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,765 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-150-5 | 140 | 200 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-200-5 | 200 | - | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,760 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-60-6 | 48 | 85 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,790 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-85-6 | 73 | 150 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,600 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-150-6 | 138 | 250 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,900 | SH M8x1.25x25 | LW 6 |
| TTFPL 25-250-6 | 250 | - | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,770 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-30-3 | 24 | 35 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,765 | SH M5x0.8x25 | LW 4 |
| TTFPR 25-35-3 | 29 | 40 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,760 | SH M5x0.8x25 | LW 4 |
| TTFPR 25-40-3 | 34 | 50 | 150 | 25 | 25 | 18 | 10,0 | 3 | 0,760 | SH M5x0.8x25 | LW 4 |
| TTFPR 25-50-3 | 44 | 60 | 150 | 25 | 25 | 18 | 15,0 | 3 | 0,730 | SH M5x0.8x25 | LW 4 |
| TTFPR 25-60-3 | 54 | 85 | 150 | 25 | 25 | 18 | 15,0 | 3 | 0,390 | SH M5x0.8x25 | LW 4 |
| TTFPR 25-30-4 | 22 | 40 | 150 | 25 | 25 | 18,5 | 12,0 | 4 | 0,765 | SH M6x1x25 | LW 5 |
| TTFPR 25-40-4 | 32 | 50 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,775 | SH M6x1x25 | LW 5 |
| TTFPR 25-50-4 | 42 | 60 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,800 | SH M6x1x25 | LW 5 |
| TTFPR 25-60-4 | 52 | 85 | 150 | 25 | 25 | 18,5 | 15,0 | 4 | 0,765 | SH M6x1x25 | LW 5 |
| TTFPR 25-60-5 | 50 | 80 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,710 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-80-5 | 70 | 110 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-110-5 | 100 | 150 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,860 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-150-5 | 140 | 200 | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,750 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-200-5 | 200 | - | 150 | 25 | 25 | 22 | 20,0 | 5 | 0,760 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-60-6 | 48 | 85 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,850 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-85-6 | 73 | 150 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,780 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-150-6 | 138 | 250 | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,775 | SH M8x1.25x25 | LW 6 |
| TTFPR 25-250-6 | 250 | - | 150 | 25 | 25 | 22 | 20,0 | 6 | 0,770 | SH M8x1.25x25 | LW 6 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL HOLDERS FOR SHALLOW FACE PRECISION GROOVING AND FACE TURNING
PORTE-OUTILS POUR TOURNAGE ET GORGES DE PRECISION DE FAIBLE PROFONDEUR

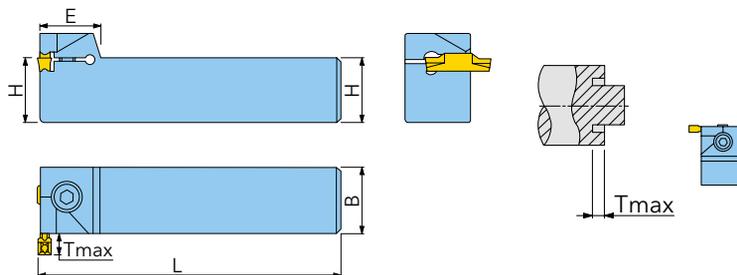


| Designation Réf. de l'article | L | H | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|----|------|------|----------|-------|------------|------|
| TGFL 1616-4 | 110 | 16 | 16 | 33 | 14,6 | 4,8 | 2, 3, 4 | 0,210 | SH M6x1x16 | LW 5 |
| TGFL 2020-4 | 125 | 20 | 20 | 33 | 18,6 | 4,8 | 2, 3, 4 | 0,365 | SH M6x1x20 | LW 5 |
| TGFL 2525-4 | 150 | 25 | 25 | 33 | 23,6 | 4,8 | 2, 3, 4 | 0,675 | SH M6x1x25 | LW 5 |
| TGFL 2020-6 | 125 | 20 | 20 | 37 | 17,6 | 4,8 | 5, 6 | 0,370 | SH M6x1x20 | LW 5 |
| TGFL 2525-6 | 150 | 25 | 25 | 37 | 22,6 | 4,8 | 5, 6 | 0,700 | SH M6x1x25 | LW 5 |
| TGFR 1616-4 | 110 | 16 | 16 | 33 | 14,6 | 4,8 | 2, 3, 4 | 0,260 | SH M6x1x16 | LW 5 |
| TGFR 2020-4 | 125 | 20 | 20 | 33 | 18,6 | 4,8 | 2, 3, 4 | 0,370 | SH M6x1x20 | LW 5 |
| TGFR 2525-4 | 150 | 25 | 25 | 33 | 23,6 | 4,8 | 2, 3, 4 | 0,675 | SH M6x1x25 | LW 5 |
| TGFR 2020-6 | 125 | 20 | 20 | 37 | 17,6 | 4,8 | 5, 6 | 0,375 | SH M6x1x20 | LW 5 |
| TGFR 2525-6 | 150 | 25 | 25 | 37 | 22,6 | 4,8 | 5, 6 | 0,690 | SH M6x1x25 | LW 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



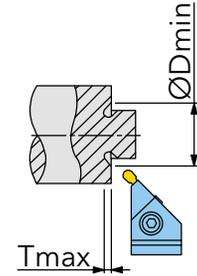
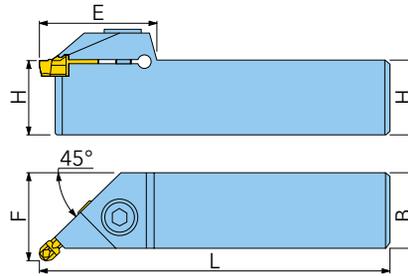
EXTERNAL HOLDERS FOR SHALLOW FACE PERPENDICULAR GROOVING AND FACE TURNING
PORTE-OUTILS PERPENDICULAIRE POUR TOURNAGE ET GORGES DE PRECISION DE FAIBLE PROFONDEUR



| Designation Réf. de l'article | L | H | B | E | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|-----|----|----|----|------|----------|-------|------------|-------|
| TGFPL 2020-4 | 125 | 20 | 20 | 18 | 4,8 | 2, 3, 4 | 0,400 | SH M6X1X20 | L-W 5 |
| TGFPL 2525-4 | 150 | 25 | 25 | 18 | 4,8 | 2, 3, 4 | 0,745 | SH M6x1x25 | L-W 5 |
| TGFPL 2525-6 | 150 | 25 | 25 | 22 | 4,8 | 5, 6 | 0,685 | SH M6x1x25 | L-W 5 |
| TGFPR 2020-4 | 125 | 20 | 20 | 18 | 4,8 | 2, 3, 4 | 0,390 | SH M6X1X20 | L-W 5 |
| TGFPR 2525-4 | 150 | 25 | 25 | 18 | 4,8 | 2, 3, 4 | 0,745 | SH M6x1x25 | L-W 5 |
| TGFPR 2525-6 | 150 | 25 | 25 | 22 | 4,8 | 5, 6 | 0,740 | SH M6x1x25 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

EXTERNAL UNDERCUTTING HOLDERS
PORTE-OUTILS POUR DÉGAGEMENTS D'ANGLE

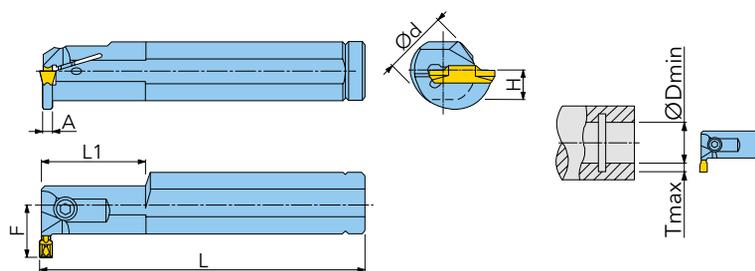
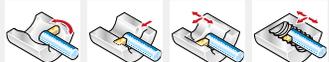


| Designation Réf. de l'article | D min. | L | H | B | E | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|-----|----|----|----|------|------|----------|-------|--------------|-------|
| TGEUL 1616-3 | 32 | 110 | 16 | 16 | 30 | 19,3 | 2,8 | 2,3 | 0,210 | SH M5X0.8X16 | L-W 4 |
| TGEUL 2020-3 | 32 | 125 | 20 | 20 | 30 | 23,3 | 2,8 | 2,3 | 0,365 | SH M5x0.8x20 | L-W 4 |
| TGEUL 2525-3 | 32 | 150 | 25 | 25 | 30 | 28,3 | 2,8 | 2,3 | 0,675 | SH M5X0.8X16 | L-W 4 |
| TGEUL 1616-4 | 32 | 110 | 16 | 16 | 31 | 19,5 | 2,8 | 4 | 0,213 | SH M6x1x16 | L-W 5 |
| TGEUL 2020-4 | 32 | 125 | 20 | 20 | 31 | 23,5 | 2,8 | 4 | 0,650 | SH M6X1X20 | L-W 5 |
| TGEUL 2525-4 | 32 | 150 | 25 | 25 | 31 | 28,5 | 2,8 | 4 | 0,675 | SH M6x1x25 | L-W 5 |
| TGEUL 2525-6 | 34 | 150 | 25 | 25 | 35 | 28,9 | 3,4 | 5,6 | 0,680 | SH M6x1x25 | L-W 5 |
| TGEUR 1616-3 | 32 | 110 | 16 | 16 | 30 | 19,3 | 2,8 | 2,3 | 0,210 | SH M5X0.8X16 | L-W 4 |
| TGEUR 2020-3 | 32 | 125 | 20 | 20 | 30 | 23,3 | 2,8 | 2,3 | 0,370 | SH M5x0.8x20 | L-W 4 |
| TGEUR 2525-3 | 32 | 150 | 25 | 25 | 30 | 28,3 | 2,8 | 2,3 | 0,680 | SH M5x0.8x25 | L-W 4 |
| TGEUR 1616-4 | 32 | 110 | 16 | 16 | 31 | 19,5 | 2,8 | 4 | 0,210 | SH M6x1x16 | L-W 5 |
| TGEUR 2020-4 | 32 | 125 | 20 | 20 | 31 | 23,5 | 2,8 | 4 | 0,735 | SH M6X1X20 | L-W 5 |
| TGEUR 2525-4 | 32 | 150 | 25 | 25 | 31 | 28,5 | 2,8 | 4 | 0,750 | SH M6x1x25 | L-W 5 |
| TGEUR 2525-6 | 34 | 150 | 25 | 25 | 35 | 28,9 | 3,4 | 5,6 | 0,680 | SH M6x1x25 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



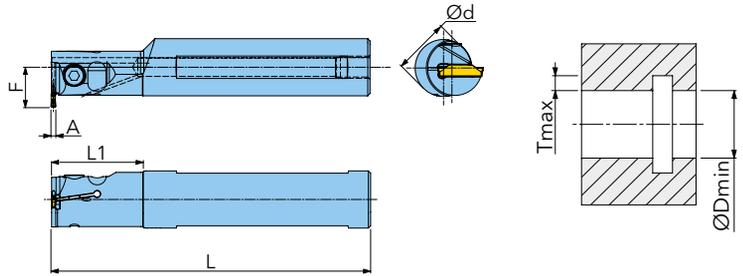
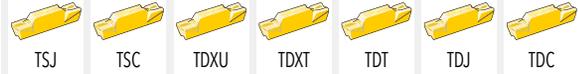
INTERNAL TURNING, GROOVING AND PROFILING HOLDERS
PORTE-OUTILS DE TOURNAGE, GORGES ET PROFILAGE INTERNE



| Designation Réf. de l'article | D min. | d | L | L1 | H | A | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|----|-----|----|------|-----|------|------|----------|-------|--------------|-------|
| TTIL 16-2 | 25 | 16 | 125 | - | 7,5 | 1,8 | 16,5 | 8,5 | 2 | 0,190 | SH M5x0.8x10 | L-W 4 |
| TTIL 20-2 | 25 | 20 | 160 | 40 | 9,0 | 1,6 | 15,8 | 6,0 | 2 | 0,350 | SH M5x0.8x12 | L-W 4 |
| TTIL 25-2 | 25 | 25 | 200 | 40 | 11,5 | 1,6 | 17,5 | 5,0 | 2 | 0,690 | SH M5X0.8X16 | L-W 4 |
| TTIL 20-3 | 25 | 20 | 160 | 40 | 9,5 | 2,1 | 15,8 | 6,0 | 3 | 0,387 | SH M5x0.8x12 | L-W 4 |
| TTIL 25-3 | 25 | 25 | 200 | 40 | 11,5 | 2,1 | 17,5 | 5,1 | 3 | | SH M5X0.8X16 | L-W 4 |
| TTIL 32-3 | 31 | 32 | 250 | 60 | 14,0 | 2,1 | 19,8 | 4,7 | 3 | 1,392 | SH M5X0.8X16 | L-W 4 |
| TTIL 20-4 | 25 | 20 | 160 | 40 | 9,0 | 2,9 | 15,8 | 6,0 | 4 | 0,360 | SH M5x0.8x12 | L-W 4 |
| TTIL 25-4 | 25 | 25 | 200 | 40 | 11,5 | 2,9 | 17,5 | 5,2 | 4 | 0,680 | SH M5X0.8X16 | L-W 4 |
| TTIL 32-4 | 31 | 32 | 250 | 60 | 14,0 | 2,9 | 20,8 | 4,7 | 4 | 0,370 | SH M5X0.8X16 | L-W 4 |
| TTIR 16-2 | 25 | 16 | 125 | - | 7,5 | 1,8 | 16,5 | 8,5 | 2 | 0,270 | SH M5x0.8x10 | L-W 4 |
| TTIR 20-2 | 25 | 20 | 160 | 40 | 9,0 | 1,6 | 15,8 | 6,0 | 2 | 0,360 | SH M5x0.8x12 | L-W 4 |
| TTIR 25-2 | 25 | 25 | 200 | 40 | 11,5 | 1,6 | 17,5 | 5,0 | 2 | 0,680 | SH M5X0.8X16 | L-W 4 |
| TTIR 20-3 | 25 | 20 | 160 | 40 | 9,5 | 2,1 | 15,8 | 6,0 | 3 | 0,360 | SH M5x0.8x12 | L-W 4 |
| TTIR 25-3 | 25 | 25 | 200 | 40 | 11,5 | 2,1 | 17,5 | 5,1 | 3 | 0,690 | SH M5X0.8X16 | L-W 4 |
| TTIR 32-3 | 31 | 32 | 250 | 60 | 14,0 | 2,1 | 19,8 | 4,7 | 3 | 1,320 | SH M5X0.8X16 | L-W 4 |
| TTIR 20-4 | 25 | 20 | 160 | 40 | 9,0 | 2,9 | 15,8 | 6,0 | 4 | 0,360 | SH M5x0.8x12 | L-W 4 |
| TTIR 25-4 | 25 | 25 | 200 | 40 | 11,5 | 2,9 | 17,5 | 5,2 | 4 | 0,690 | SH M5X0.8X16 | L-W 4 |
| TTIR 32-4 | 31 | 32 | 250 | 60 | 14,0 | 2,9 | 20,8 | 4,7 | 4 | 1,320 | SH M5X0.8X16 | L-W 4 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

**INTERNAL TURNING, GROOVING AND PROFILING HOLDERS WITH HIGH-PRESSURE COOLANT
PORTE-OUTILS DE TOURNAGE, GORGES ET PROFILAGE INTERNE AVEC ARROSAGE HAUTE PRESSION**



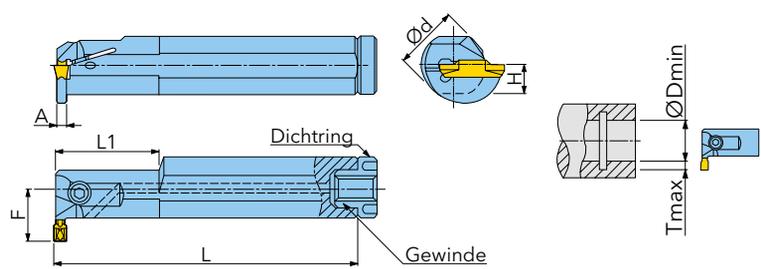
| Designation Réf. de l'article | D min. | d | L | L1 | A | F | Insert-S | kg | IK | ① | ② |
|----------------------------------|--------|----|-----|----|-----|------|----------|------|----|--------------|-------|
| TTIL 20-2T06-TB | 27 | 20 | 120 | 40 | 1,8 | 17,0 | 2 | 0,36 | ✓ | SH M5x0.8x12 | L-W 4 |
| TTIL 25-2T06-TB | 29 | 25 | 150 | 40 | 1,8 | 19,5 | 2 | 0,70 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIL 20-3T06-TB | 27 | 20 | 120 | 40 | 2,4 | 17,0 | 3 | 0,36 | ✓ | SH M5x0.8x12 | L-W 4 |
| TTIL 25-3T06-TB | 29 | 25 | 150 | 40 | 2,4 | 19,5 | 3 | 0,70 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIL 32-3T10-TB | 40 | 32 | 150 | 60 | 2,4 | 27,0 | 3 | 1,20 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIR 20-2T06-TB | 27 | 20 | 120 | 40 | 1,8 | 17,0 | 2 | 0,36 | ✓ | SH M5x0.8x12 | L-W 4 |
| TTIR 25-2T06-TB | 29 | 25 | 150 | 40 | 1,8 | 19,5 | 2 | 0,70 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIR 20-3T06-TB | 27 | 20 | 120 | 40 | 2,4 | 17,0 | 3 | 0,36 | ✓ | SH M5x0.8x12 | L-W 4 |
| TTIR 25-3T06-TB | 29 | 25 | 150 | 40 | 2,4 | 19,5 | 3 | 0,70 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIR 32-3T10-TB | 40 | 32 | 150 | 60 | 2,4 | 27,0 | 3 | 1,20 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIR 20-4T06-TB | 27 | 20 | 120 | 40 | 3,0 | 17,0 | 4 | 0,36 | ✓ | SH M5x0.8x12 | L-W 4 |
| TTIR 25-4T06-TB | 29 | 25 | 150 | 40 | 3,0 | 19,5 | 4 | 0,70 | ✓ | SH M5X0.8X16 | L-W 4 |
| TTIR 32-4T10-TB | 40 | 32 | 150 | 60 | 3,0 | 27,0 | 4 | 1,20 | ✓ | SH M5X0.8X16 | L-W 4 |

Technical informations regarding Dmin etc. have a look at the technical Booklett. / Informations techniques concernant Dmin, reportez-vous à la brochure technique.

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



INTERNAL TURNING, GROOVING AND PROFILING HOLDERS
PORTE-OUTILS DE TOURNAGE, GORGES ET PROFILAGE INTERNE

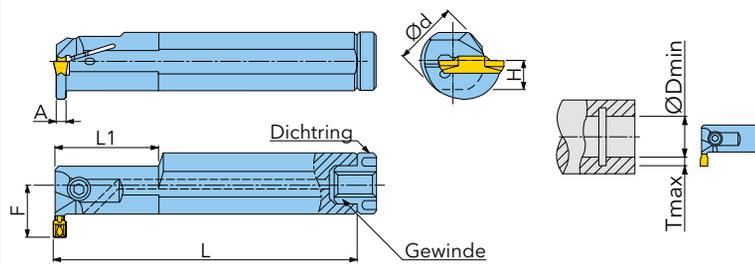


| Designation Réf. de l'article | D min. | d | L | L1 | H | A | F | Tmax | Insert-S | kg | ① | ② | ③ |
|----------------------------------|--------|----|-----|----|------|-----|------|------|----------|-------|--------------|-------|-------|
| TTIL 16-2C | 25 | 16 | 125 | - | 7,5 | 1,8 | 16,5 | 8,5 | 2 | 0,170 | SH M5x0.8x10 | L-W 4 | PL 16 |
| TTIL 20-2C | 25 | 20 | 160 | 40 | 9,0 | 1,6 | 15,8 | 6,0 | 2 | 0,310 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIL 25-2C | 25 | 25 | 200 | 40 | 11,5 | 1,6 | 17,5 | 5,0 | 2 | 0,650 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIL 20-3C | 25 | 20 | 160 | 40 | 9,0 | 2,1 | 15,8 | 6,0 | 3 | 0,315 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIL 25-3C | 25 | 25 | 200 | 40 | 11,5 | 2,1 | 17,5 | 5,1 | 3 | 0,570 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIL 32-3C | 31 | 32 | 250 | 60 | 14,0 | 2,1 | 19,8 | 4,7 | 3 | 1,170 | SH M5X0.8X16 | L-W 4 | PL 32 |
| TTIL 20-4C | 25 | 20 | 160 | 40 | 9,0 | 2,9 | 15,8 | 6,0 | 4 | 0,310 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIL 25-4C | 25 | 25 | 200 | 40 | 11,5 | 2,9 | 17,5 | 5,2 | 4 | 0,570 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIL 32-4C | 31 | 32 | 250 | 60 | 14,0 | 2,9 | 20,8 | 4,7 | 4 | 1,170 | SH M5X0.8X16 | L-W 4 | PL 32 |
| TTIL 25-5C | 31 | 25 | 200 | 40 | 11,5 | 3,9 | 17,3 | 5,2 | 5 | 0,460 | SH M6x1x16 | L-W 5 | PL 25 |
| TTIL 32-5C | 31 | 32 | 250 | 60 | 14,0 | 3,9 | 20,8 | 4,7 | 5 | 1,185 | SH M6X1X20 | L-W 5 | PL 32 |
| TTIL 32-6C | 31 | 32 | 250 | 60 | 14,0 | 4,9 | 20,8 | 4,7 | 6 | 1,315 | SH M6X1X20 | L-W 5 | PL 32 |
| TTIL 32-8C | 37 | 32 | 250 | 60 | 14,5 | 5,9 | 21,3 | 5,5 | 8 | 1,430 | SH M6x1x25 | L-W 5 | PL 32 |
| TTIL 40-8C | 42 | 40 | 300 | 65 | 19,0 | 5,9 | 25,8 | 5,8 | 8 | 2,690 | SH M6x1x25 | L-W 5 | PL 40 |
| TTIR 16-2C | 25 | 16 | 125 | - | 7,5 | 1,8 | 16,5 | 8,5 | 2 | 0,170 | SH M5x0.8x10 | L-W 4 | PL 16 |
| TTIR 20-2C | 25 | 20 | 160 | 40 | 9,0 | 1,6 | 15,8 | 6,0 | 2 | 0,220 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIR 25-2C | 25 | 25 | 200 | 40 | 11,5 | 1,6 | 17,5 | 5,0 | 2 | 0,695 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIR 20-3C | 25 | 20 | 160 | 40 | 9,0 | 2,1 | 15,8 | 6,0 | 3 | 0,310 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIR 25-3C | 25 | 25 | 200 | 40 | 11,5 | 2,1 | 17,5 | 5,1 | 3 | 0,610 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIR 32-3C | 31 | 32 | 250 | 60 | 14,0 | 2,1 | 19,8 | 4,7 | 3 | 1,170 | SH M5X0.8X16 | L-W 4 | PL 32 |
| TTIR 20-4C | 25 | 20 | 160 | 40 | 9,0 | 2,9 | 15,8 | 6,0 | 4 | 0,310 | SH M5x0.8x12 | L-W 4 | PL 20 |
| TTIR 25-4C | 25 | 25 | 200 | 40 | 11,5 | 2,9 | 17,5 | 5,2 | 4 | 0,640 | SH M5X0.8X16 | L-W 4 | PL 25 |
| TTIR 32-4C | 31 | 32 | 250 | 60 | 14,0 | 2,9 | 20,8 | 4,7 | 4 | 0,510 | SH M5X0.8X16 | L-W 4 | PL 32 |
| TTIR 25-5C | 31 | 25 | 200 | 40 | 11,5 | 3,9 | 17,3 | 5,2 | 5 | 0,660 | SH M6x1x16 | L-W 5 | PL 25 |
| TTIR 32-5C | 31 | 32 | 250 | 60 | 14,0 | 3,9 | 20,8 | 4,7 | 5 | 1,185 | SH M6X1X20 | L-W 5 | PL 32 |
| TTIR 32-6C | 31 | 32 | 250 | 60 | 14,0 | 4,9 | 20,8 | 4,7 | 6 | 1,315 | SH M6X1X20 | L-W 5 | PL 32 |
| TTIR 32-8C | 37 | 32 | 250 | 60 | 14,5 | 5,9 | 21,3 | 5,5 | 8 | 1,430 | SH M6x1x25 | L-W 5 | PL 32 |
| TTIR 40-8C | 42 | 40 | 300 | 65 | 19,0 | 5,9 | 25,8 | 5,8 | 8 | 2,690 | SH M6x1x25 | L-W 5 | PL 40 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Seal / Joint d'étanchéité

INTERNAL TURNING, GROOVING AND PROFILING HOLDERS
PORTE-OUTILS DE TOURNAGE, GORGES ET PROFILAGE INTERNE



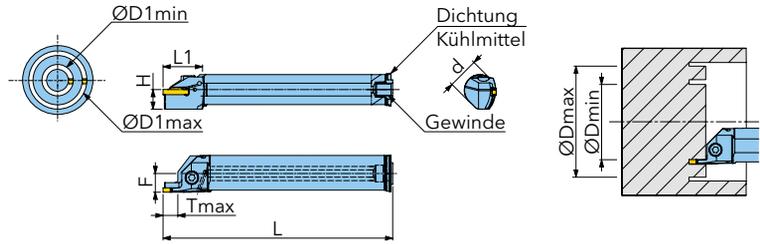
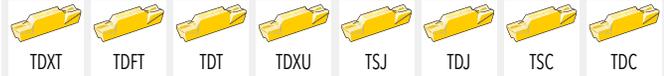
| Designation Réf. de l'article | D min. | d | L | L1 | H | A | F | Tmax | Insert-S | kg | ① | ② | ③ |
|----------------------------------|--------|----|-----|----|------|------|------|------|----------|-------|--------------|------|-------|
| TTIL 25-3C-T8 | 32 | 25 | 200 | 40 | 11,5 | 2,4 | 21,5 | 8,0 | 3 | 0,670 | SH M5X0.8X16 | LW 4 | PL 25 |
| TTIL 32-3C-T10 | 40 | 32 | 250 | 60 | 15,0 | 2,4 | 27,0 | 10,0 | 3 | 1,380 | SH M5x0.8x20 | LW 4 | PL 32 |
| TTIL 40-3C-T12 | 50 | 40 | 300 | 65 | 19,0 | 2,4 | 33,0 | 12,0 | 3 | 2,620 | SH M5x0.8x25 | LW 4 | PL 40 |
| TTIL 25-4C-T8 | 32 | 25 | 200 | 40 | 11,5 | 3,0 | 21,5 | 8,0 | 4 | 0,670 | SH M5X0.8X16 | LW 4 | PL 25 |
| TTIL 32-4C-T10 | 40 | 32 | 250 | 60 | 15,0 | 3,0 | 27,0 | 10,0 | 4 | 1,400 | SH M5x0.8x20 | LW 4 | PL 32 |
| TTIL 40-4C-T12 | 50 | 40 | 300 | 65 | 19,0 | 3,0 | 33,0 | 12,0 | 4 | 2,630 | SH M5x0.8x25 | LW 4 | PL 40 |
| TTIL 50-4C-T14 | 60 | 50 | 350 | 70 | 23,5 | 3,0 | 40,0 | 14,0 | 4 | 4,760 | SH M5x0.8x25 | LW 4 | - |
| TTIL 32-5C-T10 | 40 | 32 | 250 | 60 | 15,0 | 3,85 | 27,0 | 10,0 | 5 | 1,390 | SH M6X1X20 | LW 5 | PL 32 |
| TTIL 40-5C-T12 | 50 | 40 | 300 | 65 | 19,0 | 3,85 | 33,0 | 12,0 | 5 | 2,650 | SH M6x1x25 | LW 5 | PL 40 |
| TTIL 50-5C-T14 | 60 | 50 | 350 | 70 | 23,5 | 3,85 | 40,0 | 14,0 | 5 | 4,770 | SH M6x1x25 | LW 5 | - |
| TTIL 32-6C-T10 | 40 | 32 | 250 | 60 | 15,0 | 4,85 | 27,0 | 10,0 | 6 | 1,380 | SH M6X1X20 | LW 5 | PL 32 |
| TTIL 40-6C-T12 | 50 | 40 | 300 | 65 | 19,0 | 4,85 | 33,0 | 12,0 | 6 | 2,650 | SH M6x1x25 | LW 5 | PL 40 |
| TTIL 50-6C-T14 | 60 | 50 | 350 | 70 | 23,5 | 4,85 | 40,0 | 14,0 | 6 | 4,770 | SH M6x1x25 | LW 5 | - |
| TTIR 25-3C-T8 | 32 | 25 | 200 | 40 | 11,5 | 2,4 | 21,5 | 8,0 | 3 | 0,660 | SH M5X0.8X16 | LW 4 | PL 25 |
| TTIR 32-3C-T10 | 40 | 32 | 250 | 60 | 15,0 | 2,4 | 27,0 | 10,0 | 3 | 1,400 | SH M5x0.8x20 | LW 4 | PL 32 |
| TTIR 40-3C-T12 | 50 | 40 | 300 | 65 | 19,0 | 2,4 | 33,0 | 12,0 | 3 | 2,630 | SH M5x0.8x25 | LW 4 | PL 40 |
| TTIR 25-4C-T8 | 32 | 25 | 200 | 40 | 11,5 | 3,0 | 21,5 | 8,0 | 4 | 0,680 | SH M5X0.8X16 | LW 4 | PL 25 |
| TTIR 32-4C-T10 | 40 | 32 | 250 | 60 | 15,0 | 3,0 | 27,0 | 10,0 | 4 | 1,400 | SH M5x0.8x20 | LW 4 | PL 32 |
| TTIR 40-4C-T12 | 50 | 40 | 300 | 65 | 19,0 | 3,0 | 33,0 | 12,0 | 4 | 2,630 | SH M5x0.8x25 | LW 4 | PL 40 |
| TTIR 50-4C-T14 | 60 | 50 | 350 | 70 | 23,5 | 3,0 | 40,0 | 14,0 | 4 | 4,780 | SH M5x0.8x25 | LW 4 | - |
| TTIR 32-5C-T10 | 40 | 32 | 250 | 60 | 15,0 | 3,85 | 27,0 | 10,0 | 5 | 1,390 | SH M6X1X20 | LW 5 | PL 32 |
| TTIR 40-5C-T12 | 50 | 40 | 300 | 65 | 19,0 | 3,85 | 33,0 | 12,0 | 5 | 2,650 | SH M6x1x25 | LW 5 | PL 40 |
| TTIR 50-5C-T14 | 60 | 50 | 350 | 70 | 23,5 | 3,85 | 40,0 | 14,0 | 5 | 4,770 | SH M6x1x25 | LW 5 | - |
| TTIR 32-6C-T10 | 40 | 32 | 250 | 60 | 15,0 | 4,85 | 27,0 | 10,0 | 6 | 1,380 | SH M6X1X20 | LW 5 | PL 32 |
| TTIR 40-6C-T12 | 50 | 40 | 300 | 65 | 19,0 | 4,85 | 33,0 | 12,0 | 6 | 2,650 | SH M6x1x25 | LW 5 | PL 40 |
| TTIR 50-6C-T14 | 60 | 50 | 350 | 70 | 23,5 | 4,85 | 40,0 | 14,0 | 6 | 4,780 | SH M6x1x25 | LW 5 | - |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage ③ = Seal / Joint d'étanchéité



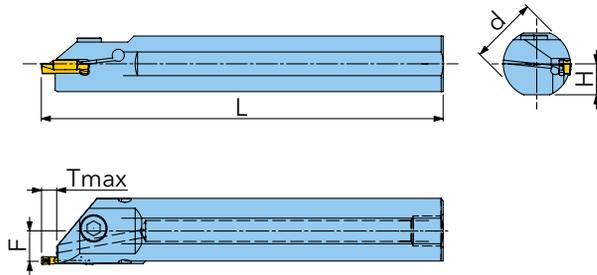
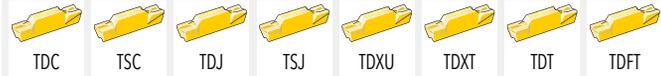
INTERNAL FACE GROOVING AND FACE TURNING
BARRES POUR TOURNAGE ET GORGES FRONTALES INTERIEURES



| Designation Réf. de l'article | D1 min. | D1 max. | d | L | L1 | H | F | Tmax | Insert-S | kg |  |  |  |
|----------------------------------|---------|---------|----|-----|----|------|------|------|----------|-------|---|---|---|
| TTFIL 25-3T12 20-33 | 20 | 33 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-3T12 26-39 | 26 | 39 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-3T12 33-48 | 33 | 48 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-3T12 42-60 | 42 | 60 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,650 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-3T12 54-85 | 54 | 85 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,670 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-3T12 79-150 | 79 | 150 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,660 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-4T12 18-34 | 18 | 34 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 0,430 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-4T12 26-42 | 26 | 42 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 0,650 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 25-4T12 34-55 | 34 | 55 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 0,680 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIL 32-4T12 47-70 | 47 | 70 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,380 | PL 32 | SH MSX0.8X16 | LW 4 |
| TTFIL 32-4T12 62-100 | 62 | 100 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,430 | PL 32 | SH MSX0.8X16 | LW 4 |
| TTFIL 32-4T12 92-180 | 92 | 180 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,430 | PL 32 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 20-33 | 20 | 33 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 26-39 | 26 | 39 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 33-48 | 33 | 48 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,650 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 42-60 | 42 | 60 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,650 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 54-85 | 54 | 85 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,450 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-3T12 79-150 | 79 | 150 | 25 | 200 | 31 | 11,5 | 12,9 | 12 | 3 | 0,430 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-4T12 18-34 | 18 | 34 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 0,640 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-4T12 26-42 | 26 | 42 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 1,230 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 25-4T12 34-55 | 34 | 55 | 25 | 200 | 31 | 11,5 | 13,0 | 12 | 4 | 0,660 | PL 25 | SH MSX0.8X16 | LW 4 |
| TTFIR 32-4T12 47-70 | 47 | 70 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,300 | PL 32 | SH MSX0.8X16 | LW 4 |
| TTFIR 32-4T12 62-100 | 62 | 100 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,380 | PL 32 | SH MSX0.8X16 | LW 4 |
| TTFIR 32-4T12 92-180 | 92 | 180 | 32 | 250 | 31 | 15,0 | 16,5 | 12 | 4 | 1,380 | PL 32 | SH MSX0.8X16 | LW 4 |

① = Seal / Joint d'étanchéité ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

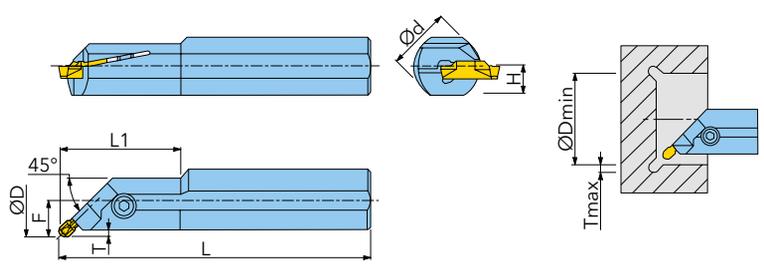
SHALLOW INTERNAL FACE GROOVING AND FACE TURNING
BARRES POUR TOURNAGE ET GORGES FRONTALES PEU PROFONDES



| Designation Réf. de l'article | D min. | d | L | H | F | Tmax | Insert-S | kg | IK | ① | ② | ③ |
|----------------------------------|--------|----|-----|------|------|------|-----------|-------|----|-------|------------|-------|
| TGIFL 25-4C-T5.5 | 26,8 | 25 | 200 | 11,5 | 11,3 | 5,5 | 2 & 3 & 4 | 0,600 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFL 25-6C-T5.5 | 33,8 | 25 | 250 | 15 | 14,8 | 5,5 | 5 & 6 | | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFL 32-4C-T5.5 | 26,8 | 35 | 200 | 11,5 | 10,3 | 5,5 | 2 & 3 & 4 | 1,300 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFL 32-6C-T5.5 | 33,8 | 32 | 250 | 15 | 13,8 | 5,5 | 5 & 6 | 1,300 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFR 25-4C-T5.5 | 26,8 | 25 | 200 | 11,5 | 11,3 | 5,5 | 2 & 3 & 4 | 0,600 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFR 25-6C-T5.5 | 33,8 | 25 | 250 | 15 | 14,8 | 5,5 | 5 & 6 | 0,600 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFR 32-4C-T5.5 | 26,8 | 32 | 200 | 11,5 | 10,3 | 5,5 | 2 & 3 & 4 | 1,310 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |
| TGIFR 32-6C-T5.5 | 33,8 | 32 | 250 | 15 | 13,8 | 5,5 | 5 & 6 | 1,300 | ✓ | PL 25 | SH M6X1X20 | L-W 5 |

① = Seal / Joint d'étanchéité ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

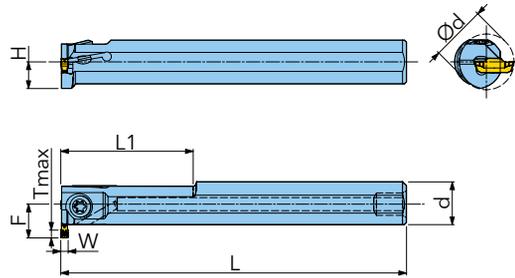
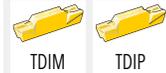
INTERNAL UNDERCUTTING HOLDERS
PORTE-OUTILS DE DÉGAGEMENT INTERNE



| Designation Réf. de l'article | D min. | d | L | L1 | H | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|----|-----|----|------|------|------|----------|-------|--------------|-------|
| TGIUL 20-3 | 38 | 20 | 160 | - | 9,5 | 12,8 | 2,8 | 2,3 | 0,345 | SH M5x0.8x12 | L-W 4 |
| TGIUL 25-3 | 38 | 25 | 200 | 40 | 11,5 | 14,8 | 2,8 | 2,3 | 0,655 | SH M5X0.8X16 | L-W 4 |
| TGIUL 20-4 | 38 | 20 | 160 | - | 8,5 | 12,9 | 2,8 | 4 | 0,345 | SH M5X0.8X16 | L-W 4 |
| TGIUL 25-4 | 46 | 25 | 200 | 40 | 11,5 | 14,9 | 2,8 | 4 | 0,655 | SH M5X0.8X16 | L-W 4 |
| TGIUL 25-6 | 46 | 25 | 200 | - | 11,5 | 15,2 | 2,8 | 5,6 | 0,675 | SH M6x1x16 | L-W 5 |
| TGIUR 20-3 | 38 | 20 | 160 | - | 9,5 | 12,8 | 2,8 | 2,3 | 0,345 | SH M5x0.8x12 | L-W 4 |
| TGIUR 25-3 | 38 | 25 | 200 | 40 | 11,5 | 14,8 | 2,8 | 2,3 | 0,710 | SH M5X0.8X16 | L-W 4 |
| TGIUR 20-4 | 38 | 20 | 160 | - | 9,5 | 12,9 | 2,8 | 4 | 0,345 | SH M5X0.8X16 | L-W 4 |
| TGIUR 25-4 | 46 | 25 | 200 | 40 | 11,5 | 14,9 | 2,8 | 4 | 0,670 | SH M5X0.8X16 | L-W 4 |
| TGIUR 25-6 | 46 | 25 | 200 | - | 11,5 | 15,2 | 2,8 | 5,6 | 0,675 | SH M6x1x16 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

INTERNAL SHALLOW GROOVING AND TURNING ON SMALL DIAMETER
OUTIL POUR TOURNAGE ET GORGES DE FAIBLES PROFONDEURS DANS DE PETITS DIAMÈTRES

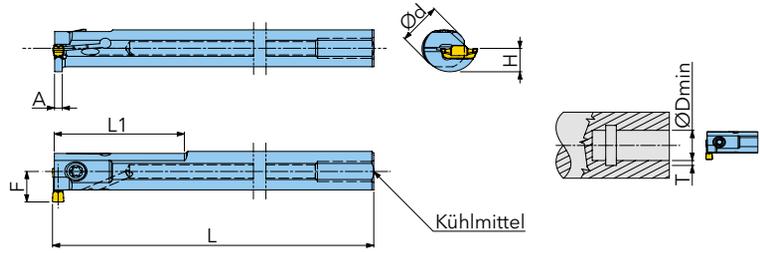


| Designation Réf. de l'article | D min. | d | L | L1 | H | F | W | Tmax | Insert-S | kg | IK |
|----------------------------------|--------|----|-----|----|---|------|----|------|----------|-------|----|
| TGSIL 10-13-2 | 12,5 | 10 | 125 | 25 | 5 | 7,6 | <2 | 2,5 | 2 & 3 | 0,088 | ✓ |
| TGSIL 12-14-2 | 14,0 | 12 | 125 | 35 | 6 | 9,0 | <2 | 2,5 | 2 & 3 | 0,117 | ✓ |
| TGSIL 16-13-2 | 13,0 | 16 | 150 | 20 | 8 | 10,6 | <2 | 2,5 | 2 & 3 | 0,172 | ✓ |
| TGSIL 16-14-2 | 14,0 | 16 | 150 | 25 | 8 | 10,9 | <2 | 2,5 | 2 & 3 | 0,173 | ✓ |
| TGSIL 16-16-2 | 16,0 | 16 | 150 | 40 | 8 | 10,5 | <2 | 2,5 | 2 & 3 | 0,183 | ✓ |
| TGSIR 10-13-2 | 12,5 | 10 | 125 | 25 | 5 | 7,6 | <2 | 2,5 | 2 & 3 | 0,088 | ✓ |
| TGSIR 12-14-2 | 14,0 | 12 | 125 | 35 | 6 | 9,0 | <2 | 2,5 | 2 & 3 | 0,117 | ✓ |
| TGSIR 16-13-2 | 13,0 | 16 | 150 | 20 | 8 | 10,6 | <2 | 2,5 | 2 & 3 | 0,172 | ✓ |
| TGSIR 16-14-2 | 14,0 | 16 | 150 | 25 | 8 | 10,9 | <2 | 2,5 | 2 & 3 | 0,173 | ✓ |
| TGSIR 16-16-2 | 16,0 | 16 | 150 | 40 | 8 | 10,5 | <2 | 2,5 | 2 & 3 | 0,183 | ✓ |

| Designation Réf. de l'article | ① | ② | ③ |
|----------------------------------|-------|-----------|-----|
| TGSIL 10-13-2 | - | TS 400931 | T15 |
| TGSIL 12-14-2 | - | TS 400931 | T15 |
| TGSIL 16-13-2 | PL 16 | TS 400931 | T15 |
| TGSIL 16-14-2 | PL 16 | TS 400931 | T15 |
| TGSIL 16-16-2 | PL 16 | TS 400931 | T15 |
| TGSIR 10-13-2 | - | TS 400931 | T15 |
| TGSIR 12-14-2 | - | TS 400931 | T15 |
| TGSIR 16-13-2 | PL 16 | TS 400931 | T15 |
| TGSIR 16-14-2 | PL 16 | TS 400931 | T15 |
| TGSIR 16-16-2 | PL 16 | TS 400931 | T15 |

① = Seal / Joint d'étanchéité ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

INTERNAL TOOL HOLDER FOR SMALL DIAMETER
PORTE-OUTILS A GORGE INTERNE POUR PETITS DIAMÈTRES

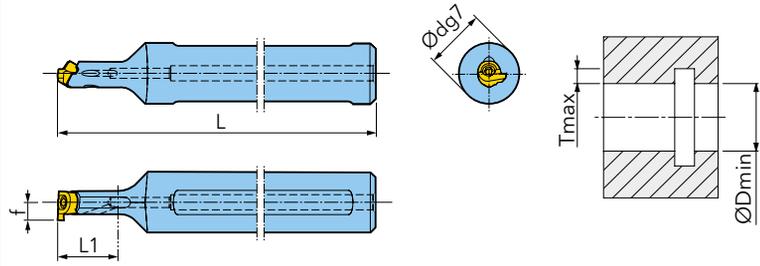


| Designation Réf. de l'article | D min. | d | L | L1 | H | A | F | Tmax | Insert-S | kg |  |  |  |
|----------------------------------|--------|----|-----|----|-----|-----|------|------|----------|-------|---|---|---|
| TTSIL 10-12.5-2 | 12,5 | 10 | 125 | 25 | 4,5 | 1,6 | 7,5 | 2,4 | 2 | 0,060 | - | TS 400931 | T 15 |
| TTSIL 12-14-2 | 14 | 12 | 125 | 35 | 5,5 | 1,6 | 9,1 | 2,6 | 2 | 0,090 | - | TS 400931 | T 15 |
| TTSIL 16-12.5-2 | 12,5 | 16 | 150 | 20 | 7,5 | 1,6 | 10,5 | 2,4 | 2 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIL 16-14-2 | 14 | 16 | 150 | 25 | 7,5 | 1,6 | 11 | 2,6 | 2 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIL 16-16-2 | 16 | 16 | 150 | 40 | 7,5 | 1,6 | 11 | 3,0 | 2 | 0,210 | PL 16 | TS 501251 | T 20 |
| TTSIL 12-14-3 | 14 | 12 | 125 | 35 | 5,5 | 2,0 | 9,1 | 2,6 | 3 | 0,090 | - | TS 400931 | T 15 |
| TTSIL 16-12.5-3 | 12,5 | 16 | 150 | 20 | 7,5 | 2,0 | 10,5 | 2,4 | 3 | 0,200 | PL 16 | TS 400931 | T 15 |
| TTSIL 16-14-3 | 14 | 16 | 150 | 25 | 7,5 | 2,0 | 11 | 2,6 | 3 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIL 16-16-3 | 16 | 16 | 150 | 40 | 7,5 | 2,0 | 11 | 3,0 | 3 | 0,190 | PL 16 | TS 501251 | T 20 |
| TTSIL 20-20-3 | 20 | 20 | 150 | 40 | 7,5 | 2,0 | 14 | 4,0 | 3 | 0,290 | PL 16 | TS 501251 | T 20 |
| TTSIR 10-12.5-2 | 12,5 | 10 | 125 | 25 | 4,5 | 1,6 | 7,5 | 2,4 | 2 | 0,060 | - | TS 400931 | T 15 |
| TTSIR 12-14-2 | 14 | 12 | 125 | 35 | 5,5 | 1,6 | 9,1 | 2,6 | 2 | 0,090 | - | TS 400931 | T 15 |
| TTSIR 16-12.5-2 | 12,5 | 16 | 150 | 20 | 7,5 | 1,6 | 10,5 | 2,4 | 2 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIR 16-14-2 | 14 | 16 | 150 | 25 | 7,5 | 1,6 | 11 | 2,6 | 2 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIR 16-16-2 | 16 | 16 | 150 | 40 | 7,5 | 1,6 | 11 | 3,0 | 2 | 0,205 | PL 16 | TS 501251 | T 20 |
| TTSIR 12-14-3 | 14 | 12 | 125 | 35 | 5,5 | 2,0 | 9,1 | 2,6 | 3 | 0,090 | - | TS 400931 | T 15 |
| TTSIR 16-12.5-3 | 12,5 | 16 | 150 | 20 | 7,5 | 2,0 | 10,5 | 2,4 | 3 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIR 16-14-3 | 14 | 16 | 150 | 25 | 7,5 | 2,0 | 11 | 2,6 | 3 | 0,190 | PL 16 | TS 400931 | T 15 |
| TTSIR 16-16-3 | 16 | 16 | 150 | 40 | 7,5 | 2,0 | 11 | 3,0 | 3 | 0,190 | PL 16 | TS 501251 | T 20 |
| TTSIR 20-20-3 | 20 | 20 | 150 | 40 | 7,5 | 2,0 | 14 | 4,0 | 3 | 0,290 | PL 16 | TS 501251 | T 20 |

Technical informations regarding Dmin etc. have a look at the technical Booklett / Informations techniques concernant Dmin, reportez-vous à la brochure technique

① = Seal / Joint d'étanchéité ② = Clamp screw / Vis de serrage ③ = Wrench / Clé de serrage

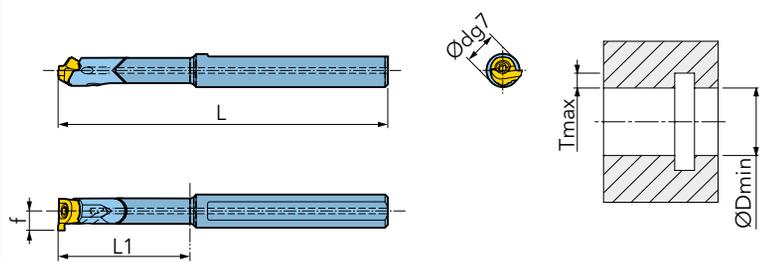
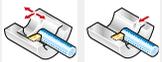
INTERNAL BORING BARS FOR SHALLOW GROOVING WITH COOLANT HOLE ON SMALL DIAMETER
BARRE D'ALÉSAGE POUR GORGES PEU PROFONDES AVEC ARROSAGE INTERNE POUR TROU À PETITS DIAMÈTRES



| Designation Réf. de l'article | D min. | d | L | L1 | f | Insert-S | kg | IK | ① | ② |
|----------------------------------|--------|----|----|----|-----|----------|------|----|---------------|------|
| TMIHL 12-12-6 | 6 | 12 | 80 | 12 | 3,5 | 6 | 0,07 | ✓ | TS 18049/HG-P | T 6P |
| TMIHL 12-16-8 | 8 | 12 | 80 | 16 | 4,7 | 8 | 0,07 | ✓ | TS 20055I | T 6 |
| TMIHR 12-12-6 | 6 | 12 | 80 | 12 | 3,5 | 6 | 0,07 | ✓ | TS 18049/HG-P | T 6P |
| TMIHR 12-16-8 | 8 | 12 | 80 | 16 | 4,7 | 8 | 0,07 | ✓ | TS 20055I | T 6 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

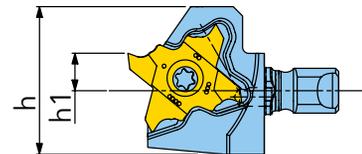
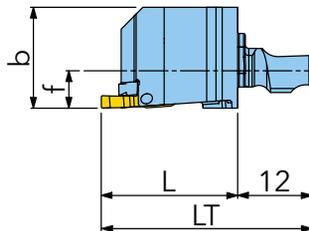
INTERNAL CARBIDE BORING BARS FOR SHALLOW GROOVING WITH COOLANT HOLE ON SMALL DIAMETER
BARRE D'ALÉSAGE CARBURE POUR GORGES PEU PROFONDES AVEC ARROSAGE INTERNE POUR TROU À PETITS DIAMÈTRES



| Designation Réf. de l'article | D min. | d | L | L1 | f | Insert-S | kg | IK | ① | ② |
|----------------------------------|--------|----|-----|----|-----|----------|------|----|---------------|------|
| TMIHL 06C-18-6 | 6 | 6 | 54 | 18 | 3,5 | 6 | 0,13 | ✓ | TS 18049/HG-P | T 6P |
| TMIHL 06C-24-6 | 6 | 6 | 60 | 24 | 3,5 | 6 | 0,13 | ✓ | TS 18049/HG-P | T 6P |
| TMIHL 12C-24-8 | 8 | 12 | 92 | 24 | 4,7 | 8 | 0,13 | ✓ | TS 20055I | T 6 |
| TMIHL 12C-32-8 | 8 | 12 | 100 | 32 | 4,7 | 8 | 0,13 | ✓ | TS 20055I | T 6 |
| TMIHR 06C-18-6 | 6 | 6 | 54 | 18 | 3,5 | 6 | 0,13 | ✓ | TS 18049/HG-P | T 6P |
| TMIHR 06C-24-6 | 6 | 6 | 60 | 24 | 3,5 | 6 | 0,13 | ✓ | TS 18049/HG-P | T 6P |
| TMIHR 12C-24-8 | 8 | 12 | 92 | 24 | 4,7 | 8 | 0,13 | ✓ | TS 20055I | T 6 |
| TMIHR 12C-32-8 | 8 | 12 | 100 | 32 | 4,7 | 8 | 0,13 | ✓ | TS 20055I | T 6 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

MODULAR HEAD FOR PARTING AND GROOVING ON SWISS MACHINES
TÊTE MODULAIRE POUR LE TRONÇONNAGE ET GORGES SUR TOUR À DÉCOLLETER



Designation
Réf. de l'article

LT

L

f

h

h1

b

Insert-S

kg



QE1 TQHR 20

34,0

22,0

7,0

23,7

6,0

16,2

20

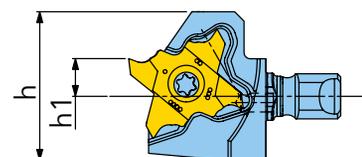
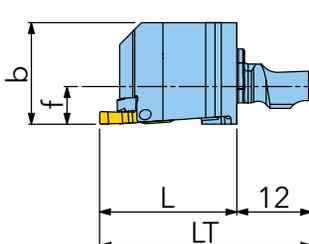
0,055

TS 40A100L

T-1508/5

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

MODULAR HEAD FOR PARTING AND GROOVING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TRONÇONNAGE ET GORGES SUR TOUR À DÉCOLLETER



Designation
Réf. de l'article

LT

L

f

h

h1

b

Insert-S

kg

Ⓜ



QE1 TQHR 20-TB

34,0

22,0

7,0

23,7

6,0

16,2

20

0,055

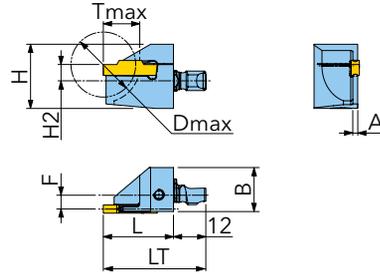
✓

TS 40A100L

T-1508/5

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

**MODULAR HEAD FOR PARTING AND GROOVING ON SWISS MACHINES
TÊTE MODULAIRE POUR LE TRONÇONNAGE ET GORGES SUR TOUR À DÉCOLLETER**

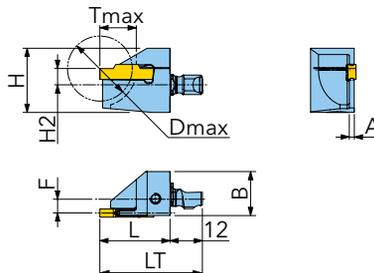
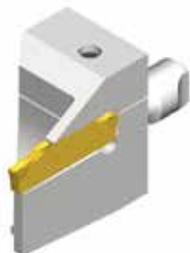


| Designation Réf. de l'article | D max. | LT | L | H | H2 | A | B | F | Tmax | Insert-S | kg | ① | ② |
|----------------------------------|--------|------|------|------|-----|-----|------|-----|------|----------|-------|--------------|---------|
| QE1 TTEL 2-12-24 | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 12,0 | 2 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 2-16-32 | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 16,0 | 2 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 3-12-24 | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 12,0 | 3 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 3-16-32 | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 16,0 | 3 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 2-12-24 | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 12,0 | 2 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 2-16-32 | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 16,0 | 2 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 3-12-24 | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 12,0 | 3 | 0,060 | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 3-16-32 | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 16,0 | 3 | 0,060 | SH M4X0.7X16 | WS-0060 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage



MODULAR HEAD FOR PARTING AND GROOVING WITH HIGH-PRESSURE COOLANT ON SWISS MACHINES
TÊTE MODULAIRE AVEC ARROSAGE HP POUR LE TRONÇONNAGE ET GORGES SUR TOUR À DÉCOLLETER

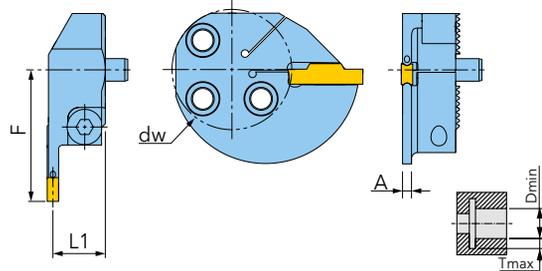


| Designation Réf. de l'article | D max. | LT | L | H | H2 | A | B | F | Tmax | Insert-S | kg |
|----------------------------------|--------|------|------|------|-----|-----|------|-----|------|----------|----|
| QE1 TTEL 2-12-24-TB | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 12,0 | 2 | |
| QE1 TTEL 2-16-32-TB | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 16,0 | 2 | |
| QE1 TTEL 3-12-24-TB | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 12,0 | 3 | |
| QE1 TTEL 3-16-32-TB | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 16,0 | 3 | |
| QE1 TTER 2-12-24-TB | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 12,0 | 2 | |
| QE1 TTER 2-16-32-TB | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 1,8 | 16,0 | 8,1 | 16,0 | 2 | |
| QE1 TTER 3-12-24-TB | 24,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 12,0 | 3 | |
| QE1 TTER 3-16-32-TB | 32,0 | 38,0 | 26,0 | 23,7 | 6,0 | 2,4 | 16,0 | 7,8 | 16,0 | 3 | |

| Designation Réf. de l'article | ① | ② |
|----------------------------------|--------------|---------|
| QE1 TTEL 2-12-24-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 2-16-32-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 3-12-24-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTEL 3-16-32-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 2-12-24-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 2-16-32-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 3-12-24-TB | SH M4X0.7X16 | WS-0060 |
| QE1 TTER 3-16-32-TB | SH M4X0.7X16 | WS-0060 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

MODULAR HEAD FOR PARTING AND GROOVING
TÊTES MODULAIRES POUR LES GORGES INTERNES COMPATIBLE AVEC LES BARRES ANTIVIBRATOIRES

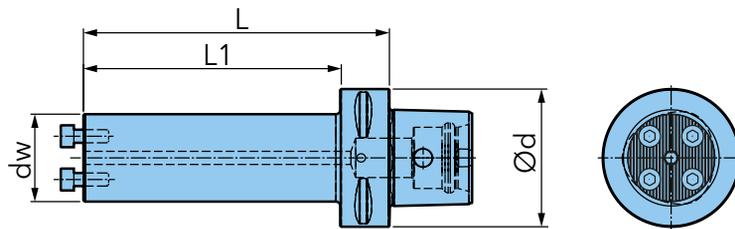


| Designation Réf. de l'article | D min. | dw | L1 | A | F | Tmax | Insert-S | kg | IK | ① | ② |
|--|--------|----|------|-----|------|------|----------|------|----|--------------|------|
| DTC-D25-TTIL-2T12-TB | 58 | 25 | 14,3 | 1,8 | 32 | 12 | 2 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D25-TTIL-3T12-TB | 58 | 25 | 14,0 | 2,4 | 32 | 12 | 3 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIL-2T12-TB | 58 | 32 | 14,3 | 1,8 | 35 | 12 | 2 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIL-3T12-TB | 58 | 32 | 14,0 | 2,4 | 35 | 12 | 3 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIL-4T12-TB | 58 | 32 | 13,7 | 3,0 | 35 | 12 | 4 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIL-5T17-TB | 58 | 32 | 15,1 | 3,9 | 40 | 17 | 5 | 0,30 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIL-3T12-TB ¹⁾²⁾³⁾ | 60 | 40 | 14,0 | 2,4 | 38,5 | 12 | 3 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIL-4T12-TB ¹⁾²⁾³⁾ | 60 | 40 | 13,7 | 3,0 | 38,5 | 12 | 4 | 0,19 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIL-5T17-TB ¹⁾²⁾³⁾ | 64 | 40 | 15,1 | 3,9 | 43 | 17 | 5 | 0,23 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIL-6T17-TB ¹⁾²⁾³⁾ | 64 | 40 | 14,6 | 4,9 | 43 | 17 | 6 | 0,30 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D25-TTIR-2T12-TB | 58 | 25 | 14,3 | 1,8 | 32 | 12 | 2 | 0,13 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D25-TTIR-3T12-TB | 58 | 25 | 14,0 | 2,4 | 32 | 12 | 3 | 0,13 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIR-2T12-TB | 58 | 32 | 14,3 | 1,8 | 35 | 12 | 2 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIR-3T12-TB | 58 | 32 | 14,0 | 2,4 | 35 | 12 | 3 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIR-4T12-TB | 58 | 32 | 13,7 | 3,0 | 35 | 12 | 4 | 0,16 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D32-TTIR-5T17-TB | 58 | 32 | 15,1 | 3,9 | 40 | 17 | 5 | 0,30 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIR-3T12-TB ¹⁾²⁾³⁾ | 60 | 40 | 14,0 | 2,4 | 38,5 | 12 | 3 | 0,19 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIR-4T12-TB ¹⁾²⁾³⁾ | 60 | 40 | 13,7 | 3,0 | 38,5 | 12 | 4 | 0,19 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIR-5T17-TB ¹⁾²⁾³⁾ | 64 | 40 | 15,1 | 3,9 | 43 | 17 | 5 | 0,23 | ✓ | SH M5X0.8X16 | LW 4 |
| DTC-D40-TTIR-6T17-TB ¹⁾²⁾³⁾ | 64 | 40 | 14,6 | 4,9 | 43 | 17 | 6 | 0,30 | ✓ | SH M5X0.8X16 | LW 4 |

¹⁾When applying Ø50 mm shanks, add +10 mm to the DMIN. When applying Ø60 mm shanks, add +20 mm to the DMIN. / Lors de l'application de barres de Ø50 mm, ajouter +10 mm au DMIN. Lors de l'application de barres de Ø60 mm, ajouter +20 mm au DMIN. ²⁾ / ³⁾ /

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

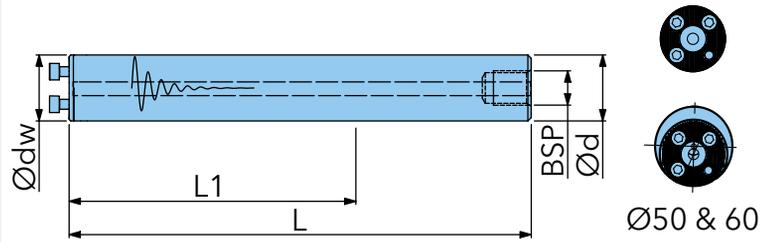


C-ADAPTER SHANK FOR INTERCHANGEABLE TURNING HEADS
PORTE-OUTIL C-ADAPTER POUR TÊTES DE TOURNAGE INTERCHANGEABLES


| Designation Réf. de l'article | d | dw | L | L1 | kg | IK | ① | ② |
|----------------------------------|----|----|-----|-----|-------|----|----------------|---------|
| C4-DTA-16A-2.5D | 40 | 16 | 40 | 20 | 0,310 | ✓ | SH M3X0.5X10 | L-W 2.5 |
| C4-DTA-20A-2.5D | 40 | 20 | 50 | 30 | 0,345 | ✓ | SH M3.5X0.6X10 | L-W 2.5 |
| C4-DTA-25A-2.5D | 40 | 25 | 55 | 35 | 0,405 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C4-DTA-32A-2.5D | 40 | 32 | 75 | 55 | 0,615 | ✓ | SH M5x0.8x12 | L-W 4 |
| C4-DTA-40A-3D | 40 | 40 | 80 | 80 | 0,845 | ✓ | SH M6x1x16 | L-W 5 |
| C5-DTA-16A-2.5D | 50 | 16 | 40 | 20 | 0,510 | ✓ | SH M3X0.5X10 | L-W 2.5 |
| C5-DTA-20A-2.5D | 50 | 20 | 50 | 30 | 0,580 | ✓ | SH M3.5X0.6X10 | L-W 2.5 |
| C5-DTA-25A-2.5D | 50 | 25 | 55 | 35 | 0,645 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C5-DTA-32A-2.5D | 50 | 32 | 75 | 55 | 0,825 | ✓ | SH M5x0.8x12 | L-W 4 |
| C5-DTA-40A-3D | 50 | 40 | 100 | 80 | 1,265 | ✓ | SH M6x1x16 | L-W 5 |
| C6-DTA-16A-2.5D | 63 | 16 | 40 | 18 | 0,865 | ✓ | SH M3X0.5X10 | L-W 2.5 |
| C6-DTA-20A-2.5D | 63 | 20 | 50 | 28 | 0,900 | ✓ | SH M3.5X0.6X10 | L-W 2.5 |
| C6-DTA-25A-2.5D | 63 | 25 | 65 | 43 | 0,980 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C6-DTA-32A-3D | 63 | 32 | 90 | 68 | 1,235 | ✓ | SH M5x0.8x12 | L-W 4 |
| C6-DTA-32A-4D | 63 | 32 | 125 | 103 | 1,445 | ✓ | SH M5x0.8x12 | L-W 4 |
| C6-DTA-40A-3D | 63 | 40 | 100 | 78 | 1,580 | ✓ | SH M6x1x16 | L-W 5 |
| C6-DTA-40A-4D | 63 | 40 | 140 | 118 | 1,965 | ✓ | SH M6x1x16 | L-W 5 |
| C6-DTA-16E-5D | 63 | 16 | 80 | 58 | 0,945 | ✓ | SH M3X0.5X10 | L-W 2.5 |
| C6-DTA-20E-5D | 63 | 20 | 100 | 78 | 1,065 | ✓ | SH M3.5X0.6X10 | L-W 2.5 |
| C6-DTA-25E-5D | 63 | 25 | 115 | 93 | 1,265 | ✓ | SH M3.5X0.6X10 | WS-0060 |
| C6-DTA-32E-5D | 63 | 32 | 150 | 128 | 1,750 | ✓ | SH M5x0.8x12 | L-W 4 |
| C6-DTA-40E-5D | 63 | 40 | 185 | 163 | 2,635 | ✓ | SH M6x1x16 | L-W 5 |

① = Clamp screw / Vis de serrage ② = Wrench / Clé de serrage

ANTI-VIBRATION BARS WITH THROUGH COLLANT FOR INTERCHANGEABLE TURNING HEADS
BARRES D'ALÉSAGE ANTIVIBRATOIRES AVEC ARROSAGE PAR LE CENTRE POUR TÊTES INTERCHANGEABLES



| Designation Réf. de l'article | d | dw | L | L1 | BSP | IK |
|----------------------------------|----|----|-----|-----|------|----|
| DTA-D16-7D-C | 16 | 16 | 156 | 92 | - | ✓ |
| DTA-D16-10D-E | 16 | 16 | 204 | 140 | G1/8 | ✓ |
| DTA-D20-7D-C | 20 | 20 | 200 | 120 | - | ✓ |
| DTA-D20-10D-E | 20 | 20 | 260 | 180 | G1/4 | ✓ |
| DTA-D25-7D-C | 25 | 25 | 255 | 155 | G1/4 | ✓ |
| DTA-D25-10D-C | 25 | 25 | 330 | 230 | G1/4 | ✓ |
| DTA-D32-7D-C | 32 | 32 | 320 | 192 | G3/8 | ✓ |
| DTA-D32-10D-C | 32 | 32 | 416 | 288 | G3/8 | ✓ |
| DTA-D40-7D-C | 40 | 40 | 408 | 248 | G1/2 | ✓ |
| DTA-D40-10D-C | 40 | 40 | 528 | 368 | G1/2 | ✓ |
| DTA-D50-7D-C | 50 | 40 | 518 | 318 | G1/2 | ✓ |
| DTA-D50-10D-C | 50 | 40 | 668 | 468 | G1/2 | ✓ |
| DTA-D60-7D-C | 60 | 40 | 628 | 388 | G3/4 | ✓ |
| DTA-D60-10D-C | 60 | 40 | 808 | 568 | G3/4 | ✓ |

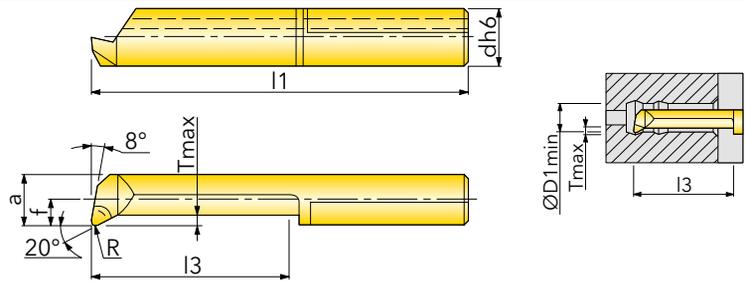


T-MICRO

| | Designation / Désignation | Description / Description | Page |
|---|--------------------------------|--|------|
|  | T-MICRO MINT04__ | MINT-Type for internal turning and chamfering, MINT-Type pour alésage, copiage et chanfreinage | 492 |
|  | T-MICRO MINT07__ | MINT-Type for internal turning and chamfering, MINT-Type pour alésage, copiage et chanfreinage | 493 |
|  | T-MICRO MINP | MINP-Type for internal turning and profiling, MINP-Type pour alésage et copiage | 494 |
|  | T-MICRO MINC | MINC-Type for internal turning and 45° chamfering, MINC-Type pour alésage et chanfreinage à 45° | 494 |
|  | T-MICRO MING | MING-Type for grooving, MING-Type pour usinage de gorges | 495 |
|  | T-MICRO MINF | MINF-Type for face grooving, MINF-Type pour gorges frontales | 496 |
|  | T-MICRO MINF___-D150 | MINF-Type for deep face grooving, MINF-Type pour gorges frontales profondes | 497 |
|  | T-MICRO MINA | MINA-Type for grooving along shaft, MINA-Type pour gorges frontales le long d'un arbre | 497 |
|  | T-MICRO MINR | MINR-Type full radius for internal boring and profiling, MINR-Type hémisphérique pour alésage et copiage | 498 |
|  | T-MICRO MINN | MINN-Type for ISO internal threading, MINN-Type pour filetage iso intérieur | 498 |
|  | T-MICRO MINB | MINB-Type for internal back turning, MINB-Type pour alésage en tirant | 499 |
|  | T-MICRO MINS | MINS basic adaption, MINS - Attachement | 499 |
| | | | |
| | | | |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

MINT-TYPE FOR INTERNAL TURNING AND CHAMFERING
MINT-TYPE POUR ALÉSAGE, COPIAGE ET CHANFREINAGE

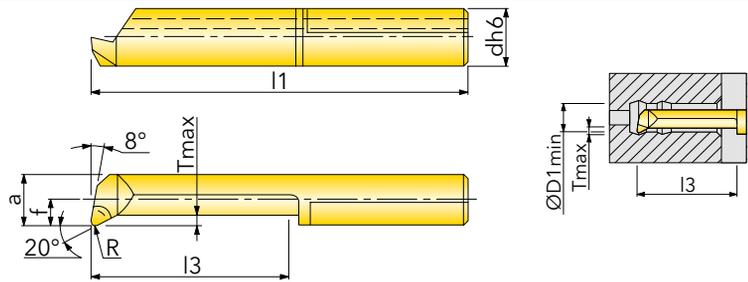


| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R±0,05 | Tmax | kg | IK | Qualität | TT9030 |
|--------------------------------------|---------|-----|------|------|-----|-----|--------|------|-------|----|----------|--------|
| MINTR04-020004D006 ¹⁾²⁾³⁾ | 0,6 | 4 | 18,5 | 3,5 | - | 0,5 | 0,04 | 0,08 | 0,002 | ✓ | ●●●● | |
| MINTR04-030004D006 ¹⁾²⁾³⁾ | 0,6 | 4 | 19,5 | 4,5 | - | 0,5 | 0,04 | 0,08 | 0,001 | ✓ | ●●●● | |
| MINTR04-045005D010 | 1,0 | 4 | 21,0 | 6,0 | - | 0,9 | 0,05 | 0,10 | 0,001 | ✓ | ●●●● | |
| MINTR04-065005D010 | 1,0 | 4 | 23,0 | 8,0 | - | 0,9 | 0,05 | 0,10 | 0,001 | ✓ | ●●●● | |
| MINTR04-040005D020 | 2,0 | 4 | 20,5 | 5,5 | - | 1,7 | 0,05 | 0,10 | 0,003 | ✓ | ●●●● | |
| MINTR04-090005D020 | 2,0 | 4 | 25,5 | 10,5 | - | 1,7 | 0,05 | 0,10 | 0,003 | ✓ | ●●●● | |
| MINTR04-140005D020 | 2,0 | 4 | 30,5 | 15,5 | - | 1,7 | 0,05 | 0,10 | 0,003 | ✓ | ●●●● | |
| MINTL04-090010D028 | 2,8 | 4 | 25,5 | 10,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,005 | ✓ | ●●●● | |
| MINTR04-090010D028 | 2,8 | 4 | 25,5 | 10,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,005 | ✓ | ●●●● | |
| MINTL04-150010D028 | 2,8 | 4 | 31,5 | 16,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,003 | ✓ | ●●●● | |
| MINTR04-150010D028 | 2,8 | 4 | 31,5 | 16,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,006 | ✓ | ●●●● | |
| MINTL04-190010D028 | 2,8 | 4 | 35,5 | 20,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,003 | ✓ | ●●●● | |
| MINTR04-190010D028 | 2,8 | 4 | 35,5 | 20,5 | 0,6 | 2,6 | 0,10 | 0,20 | 0,003 | ✓ | ●●●● | |
| MINTL04-090010D040 | 4,0 | 4 | 25,5 | 10,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,003 | ✓ | ●●●● | |
| MINTR04-090010D040 | 4,0 | 4 | 25,5 | 10,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,009 | ✓ | ●●●● | |
| MINTL04-150010D040 | 4,0 | 4 | 31,5 | 16,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,004 | ✓ | ●●●● | |
| MINTR04-150010D040 | 4,0 | 4 | 31,5 | 16,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,005 | ✓ | ●●●● | |
| MINTL04-190010D040 | 4,0 | 4 | 35,5 | 20,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,003 | ✓ | ●●●● | |
| MINTR04-190010D040 | 4,0 | 4 | 35,5 | 20,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,004 | ✓ | ●●●● | |
| MINTR04-230010D040 | 4,0 | 4 | 39,5 | 24,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,006 | ✓ | ●●●● | |
| MINTR04-270010D040 | 4,0 | 4 | 43,5 | 28,5 | 1,5 | 3,5 | 0,10 | 0,30 | 0,005 | ✓ | ●●●● | |

¹⁾ Max ap = 0,01 - 0,03, max fu = 0,01 mm/U / ap max = 0,01-0,03 ; f max = 0,01mm/tr²⁾ / ³⁾ /

● = P ● = M ● = K ● = N ● = S ○ = H

MINT-TYPE FOR INTERNAL TURNING AND CHAMFERING
MINT-TYPE POUR ALÉSAGE, COPIAGE ET CHANFREINAGE

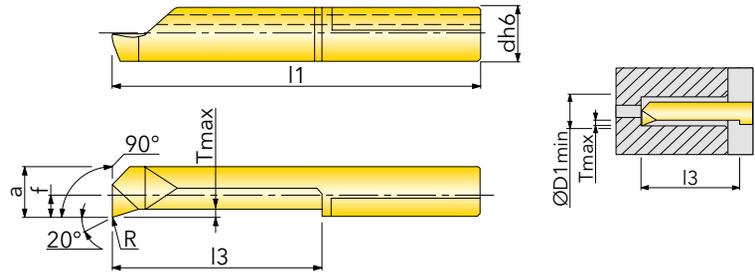


| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R±0,05 | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|--------|------|-------|----|----------|--------|
| MINTL07-090015D050 | 5,0 | 7 | 25 | 10 | 0,9 | 4,4 | 0,15 | 0,5 | 0,010 | ✓ | | |
| MINTR07-090015D050 | 5,0 | 7 | 25 | 10 | 0,9 | 4,4 | 0,15 | 0,5 | 0,017 | ✓ | | |
| MINTL07-140015D050 | 5,0 | 7 | 30 | 15 | 0,9 | 4,4 | 0,15 | 0,5 | 0,010 | ✓ | | |
| MINTR07-140015D050 | 5,0 | 7 | 30 | 15 | 0,9 | 4,4 | 0,15 | 0,5 | 0,007 | ✓ | | |
| MINTL07-190015D050 | 5,0 | 7 | 35 | 20 | 0,9 | 4,4 | 0,15 | 0,5 | 0,016 | ✓ | | |
| MINTR07-190015D050 | 5,0 | 7 | 35 | 20 | 0,9 | 4,4 | 0,15 | 0,5 | 0,009 | ✓ | | |
| MINTL07-240015D050 | 5,0 | 7 | 40 | 25 | 0,9 | 4,4 | 0,15 | 0,5 | 0,010 | ✓ | | |
| MINTR07-240015D050 | 5,0 | 7 | 40 | 25 | 0,9 | 4,4 | 0,15 | 0,5 | 0,010 | ✓ | | |
| MINTL07-290015D050 | 5,0 | 7 | 45 | 30 | 0,9 | 4,4 | 0,15 | 0,5 | 0,013 | ✓ | | |
| MINTR07-290015D050 | 5,0 | 7 | 45 | 30 | 0,9 | 4,4 | 0,15 | 0,5 | 0,008 | ✓ | | |
| MINTR07-340015D050 | 5,0 | 7 | 50 | 35 | 0,9 | 4,4 | 0,15 | 0,5 | 0,017 | ✓ | | |
| MINTL07-140015D060 | 6,0 | 7 | 30 | 15 | 1,8 | 5,3 | 0,15 | 0,5 | 0,015 | ✓ | | |
| MINTR07-140015D060 | 6,0 | 7 | 30 | 15 | 1,8 | 5,3 | 0,15 | 0,5 | 0,011 | ✓ | | |
| MINTL07-210015D060 | 6,0 | 7 | 37 | 22 | 1,8 | 5,3 | 0,15 | 0,5 | 0,001 | ✓ | | |
| MINTR07-210015D060 | 6,0 | 7 | 37 | 22 | 1,8 | 5,3 | 0,15 | 0,5 | 0,013 | ✓ | | |
| MINTL07-240015D060 | 6,0 | 7 | 40 | 25 | 1,8 | 5,3 | 0,15 | 0,5 | 0,013 | ✓ | | |
| MINTR07-240015D060 | 6,0 | 7 | 40 | 25 | 1,8 | 5,3 | 0,15 | 0,5 | 0,008 | ✓ | | |
| MINTL07-290015D060 | 6,0 | 7 | 45 | 30 | 1,8 | 5,3 | 0,15 | 0,5 | 0,005 | ✓ | | |
| MINTR07-290015D060 | 6,0 | 7 | 45 | 30 | 1,8 | 5,3 | 0,15 | 0,5 | 0,015 | ✓ | | |
| MINTR07-340015D060 | 6,0 | 7 | 50 | 35 | 1,8 | 5,3 | 0,15 | 0,5 | 0,015 | ✓ | | |
| MINTR07-410015D060 | 6,0 | 7 | 57 | 42 | 1,8 | 5,3 | 0,15 | 0,5 | 0,017 | ✓ | | |
| MINTL07-190015D068 | 6,8 | 7 | 35 | 20 | 2,8 | 6,3 | 0,15 | 0,6 | 0,012 | ✓ | | |
| MINTR07-190015D068 | 6,8 | 7 | 35 | 20 | 2,8 | 6,3 | 0,15 | 0,6 | 0,014 | ✓ | | |
| MINTR07-240015D068 | 6,8 | 7 | 40 | 25 | 2,8 | 6,3 | 0,15 | 0,6 | 0,012 | ✓ | | |
| MINTL07-290015D068 | 6,8 | 7 | 45 | 30 | 2,8 | 6,3 | 0,15 | 0,6 | 0,018 | ✓ | | |
| MINTR07-290015D068 | 6,8 | 7 | 45 | 30 | 2,8 | 6,3 | 0,15 | 0,6 | 0,024 | ✓ | | |
| MINTL07-340015D070 | 7,0 | 7 | 50 | 35 | 2,8 | 6,3 | 0,15 | 0,6 | 0,011 | ✓ | | |
| MINTR07-340015D070 | 7,0 | 7 | 50 | 35 | 2,8 | 6,3 | 0,15 | 0,6 | 0,029 | ✓ | | |
| MINTR07-390015D070 | 7,0 | 7 | 55 | 40 | 2,8 | 6,3 | 0,15 | 0,6 | 0,015 | ✓ | | |
| MINTR07-440015D070 | 7,0 | 7 | 60 | 45 | 2,8 | 6,3 | 0,15 | 0,6 | 0,014 | ✓ | | |
| MINTR07-490015D070 | 7,0 | 7 | 65 | 50 | 2,8 | 6,3 | 0,15 | 0,6 | 0,005 | ✓ | | |

● = P ● = M ● = K ● = N ● = S ○ = H



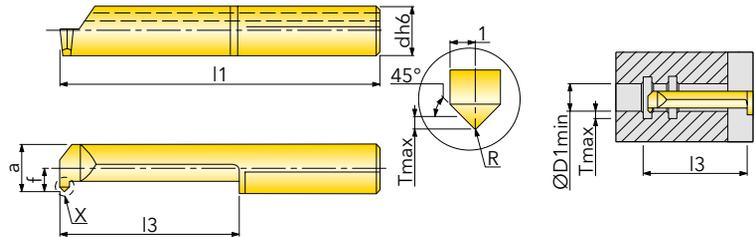
MINP-TYPE FOR INTERNAL TURNING AND PROFILING
MINP-TYPE POUR ALÉSAGE ET COPIAGE



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R±0,05 | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|------|------|-----|-----|--------|------|-------|----|----------|--------|
| MINPR04-090010D028 | 2,8 | 4 | 25,5 | 10,5 | 0,6 | 2,6 | 0,10 | 0,2 | 0,003 | ✓ | ●●●● | ●●●● |
| MINPR04-150010D028 | 2,8 | 4 | 31,5 | 16,5 | 0,6 | 2,6 | 0,10 | 0,2 | 0,003 | ✓ | ●●●● | ●●●● |
| MINPR04-090010D040 | 4,0 | 4 | 25,5 | 10,5 | 1,5 | 3,5 | 0,10 | 0,3 | 0,002 | ✓ | ●●●● | ●●●● |
| MINPR04-150010D040 | 4,0 | 4 | 31,5 | 16,5 | 1,5 | 3,5 | 0,10 | 0,3 | 0,006 | ✓ | ●●●● | ●●●● |
| MINPR07-140015D050 | 5,0 | 7 | 30,0 | 15,0 | 0,9 | 4,4 | 0,15 | 0,5 | 0,013 | ✓ | ●●●● | ●●●● |
| MINPR07-190015D050 | 5,0 | 7 | 35,0 | 20,0 | 0,9 | 4,4 | 0,15 | 0,5 | 0,012 | ✓ | ●●●● | ●●●● |

● = P ● = M ● = K ● = N ● = S ○ = H

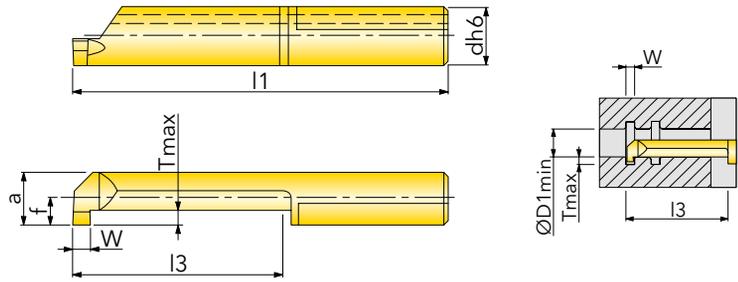
MINC-TYPE FOR INTERNAL TURNING AND 45° CHAMFERING
MINC-TYPE POUR ALÉSAGE ET CHANFREINAGE À 45°



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R±0,04 | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|--------|------|-------|----|----------|--------|
| MINCR07-140020D050 | 5,0 | 7 | 30 | 15 | 0,9 | 4,4 | 0,2 | 0,7 | 0,009 | ✓ | ●●●● | ●●●● |
| MINCR07-190020D050 | 5,0 | 7 | 35 | 20 | 0,9 | 4,4 | 0,2 | 0,7 | 0,010 | ✓ | ●●●● | ●●●● |
| MINCR07-190020D068 | 6,8 | 7 | 35 | 20 | 2,8 | 6,3 | 0,2 | 0,7 | 0,012 | ✓ | ●●●● | ●●●● |

● = P ● = M ● = K ● = N ● = S ○ = H

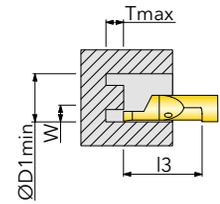
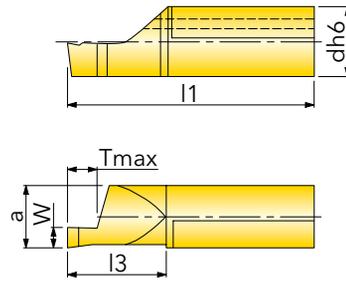
MING-TYPE FOR GROOVING
MING-TYPE POUR USINAGE DE GORGES



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | W±0,05 | a | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|------|------|-----|--------|-----|------|-------|----|----------|--------|
| MINGR04-050050D020 | 2,0 | 4 | 21,0 | 6,0 | 0,2 | 0,5 | 1,8 | 0,4 | 0,006 | ✓ | | |
| MINGR04-100050D020 | 2,0 | 4 | 26,0 | 11,0 | 0,2 | 0,5 | 1,8 | 0,4 | 0,004 | ✓ | | |
| MINGR04-050070D030 | 3,0 | 4 | 21,0 | 6,0 | 0,7 | 0,7 | 2,7 | 0,6 | 0,010 | ✓ | | |
| MINGR04-100070D030 | 3,0 | 4 | 26,0 | 11,0 | 0,7 | 0,7 | 2,7 | 0,6 | 0,005 | ✓ | | |
| MINGR04-090100D040 | 4,0 | 4 | 25,5 | 10,5 | 1,5 | 1,0 | 3,5 | 0,8 | 0,003 | ✓ | | |
| MINGR04-150100D040 | 4,0 | 4 | 31,5 | 16,5 | 1,5 | 1,0 | 3,5 | 0,8 | 0,004 | ✓ | | |
| MINGR07-090100D050 | 5,0 | 7 | 25,0 | 10,0 | 0,9 | 1,0 | 4,4 | 1,0 | 0,009 | ✓ | | |
| MINGR07-140100D050 | 5,0 | 7 | 30,0 | 15,0 | 0,9 | 1,0 | 4,4 | 1,0 | 0,005 | ✓ | | |
| MINGR07-090150D050 | 5,0 | 7 | 25,0 | 10,0 | 0,9 | 1,5 | 4,4 | 1,0 | 0,009 | ✓ | | |
| MINGR07-140150D050 | 5,0 | 7 | 30,0 | 15,0 | 0,9 | 1,5 | 4,4 | 1,0 | 0,009 | ✓ | | |
| MINGR07-090200D050 | 5,0 | 7 | 25,0 | 10,0 | 0,9 | 2,0 | 4,4 | 1,0 | 0,009 | ✓ | | |
| MINGR07-190200D050 | 5,0 | 7 | 35,0 | 20,0 | 0,9 | 2,0 | 4,4 | 1,0 | 0,010 | ✓ | | |
| MINGR07-090100D060 | 6,0 | 7 | 25,0 | 10,0 | 1,8 | 1,0 | 5,3 | 1,8 | 0,009 | ✓ | | |
| MINGL07-090100D060 | 6,0 | 7 | 25,0 | 10,0 | 1,8 | 1,0 | 5,3 | 1,8 | 0,011 | ✓ | | |
| MINGR07-140100D060 | 6,0 | 7 | 30,0 | 15,0 | 1,8 | 1,0 | 5,3 | 1,8 | 0,010 | ✓ | | |
| MINGR07-210100D060 | 6,0 | 7 | 37,0 | 22,0 | 1,8 | 1,0 | 5,3 | 1,8 | 0,011 | ✓ | | |
| MINGR07-290100D060 | 6,0 | 7 | 45,0 | 30,0 | 1,8 | 1,0 | 5,3 | 1,8 | 0,013 | ✓ | | |
| MINGR07-090150D060 | 6,0 | 7 | 25,0 | 10,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,009 | ✓ | | |
| MINGL07-090150D060 | 6,0 | 7 | 20,0 | 10,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,004 | ✓ | | |
| MINGR07-140150D060 | 6,0 | 7 | 30,0 | 15,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,005 | ✓ | | |
| MINGR07-210150D060 | 6,0 | 7 | 37,0 | 22,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,005 | ✓ | | |
| MINGR07-240150D060 | 6,0 | 7 | 40,0 | 25,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,013 | ✓ | | |
| MINGR07-290150D060 | 6,0 | 7 | 45,0 | 30,0 | 1,8 | 1,5 | 5,3 | 1,8 | 0,012 | ✓ | | |
| MINGR07-090200D060 | 6,0 | 7 | 25,0 | 10,0 | 1,8 | 2,0 | 5,3 | 1,8 | 0,009 | ✓ | | |
| MINGR07-140200D060 | 6,0 | 7 | 30,0 | 15,0 | 1,8 | 2,0 | 5,3 | 1,8 | 0,005 | ✓ | | |
| MINGR07-210200D060 | 6,0 | 7 | 37,0 | 22,0 | 1,8 | 2,0 | 5,3 | 1,8 | 0,011 | ✓ | | |
| MINGR07-240200D060 | 6,0 | 7 | 40,0 | 25,0 | 1,8 | 2,0 | 5,3 | 1,8 | 0,020 | ✓ | | |
| MINGR07-290200D060 | 6,0 | 7 | 45,0 | 30,0 | 1,8 | 2,0 | 5,3 | 1,8 | 0,012 | ✓ | | |
| MINGR07-090100D068 | 6,8 | 7 | 25,0 | 10,0 | 2,7 | 1,0 | 6,2 | 2,5 | 0,009 | ✓ | | |
| MINGR07-140100D068 | 6,8 | 7 | 30,0 | 15,0 | 2,7 | 1,0 | 6,2 | 2,5 | 0,010 | ✓ | | |
| MINGR07-210100D068 | 6,8 | 7 | 37,0 | 22,0 | 2,7 | 1,0 | 6,2 | 2,5 | 0,013 | ✓ | | |
| MINGR07-090150D068 | 6,8 | 7 | 25,0 | 10,0 | 2,7 | 1,5 | 6,2 | 2,5 | 0,009 | ✓ | | |
| MINGR07-140150D068 | 6,8 | 7 | 30,0 | 15,0 | 2,7 | 1,5 | 6,2 | 2,5 | 0,005 | ✓ | | |
| MINGR07-210150D068 | 6,8 | 7 | 37,0 | 22,0 | 2,7 | 1,5 | 6,2 | 2,5 | 0,010 | ✓ | | |
| MINGR07-290150D068 | 6,8 | 7 | 45,0 | 30,0 | 2,7 | 1,5 | 6,2 | 2,5 | 0,012 | ✓ | | |
| MINGR07-090200D068 | 6,8 | 7 | 25,0 | 10,0 | 2,7 | 2,0 | 6,2 | 2,5 | 0,010 | ✓ | | |
| MINGR07-140200D068 | 6,8 | 7 | 30,0 | 15,0 | 2,7 | 2,0 | 6,2 | 2,5 | 0,009 | ✓ | | |
| MINGL07-140200D068 | 6,8 | 7 | 30,0 | 15,0 | 2,7 | 2,0 | 6,2 | 2,5 | 0,010 | ✓ | | |
| MINGR07-210200D068 | 6,8 | 7 | 37,0 | 22,0 | 2,7 | 2,0 | 6,2 | 2,5 | 0,011 | ✓ | | |
| MINGR07-290200D068 | 6,8 | 7 | 45,0 | 29,0 | 2,7 | 2,0 | 6,2 | 2,5 | 0,012 | ✓ | | |

● = P ● = M ● = K ● = N ● = S ○ = H

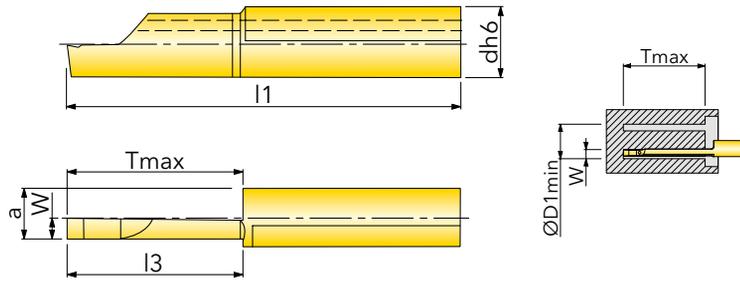
MINF-TYPE FOR FACE GROOVING
MINF-TYPE POUR GORGES FRONTALES



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | W | a | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|------|-------|----|----------|--------|
| MINFR07-110100D060 | 6 | 7 | 26 | 11 | 1,0 | 5,2 | 1,5 | 0,002 | ✓ | ●●●●● | |
| MINFR07-110100D080 | 8 | 7 | 27 | 12 | 1,0 | 5,9 | 1,5 | 0,001 | ✓ | ●●●●● | |
| MINFR07-110150D060 | 6 | 7 | 26 | 11 | 1,5 | 5,2 | 2,0 | 0,010 | ✓ | ●●●●● | |
| MINFR07-110200D060 | 8 | 7 | 27 | 12 | 2,0 | 5,9 | 3,0 | 0,010 | ✓ | ●●●●● | |
| MINFR07-200200D080 | 8 | 7 | 26 | 11 | 2,0 | 5,2 | 3,0 | 0,014 | ✓ | ●●●●● | |
| MINFLO7-210150D080 | 8 | 7 | 36 | 21 | 1,5 | 5,9 | 2,5 | 0,011 | ✓ | ●●●●● | |
| MINFR07-110150D080 | 8 | 7 | 26 | 11 | 1,5 | 5,9 | 2,5 | 0,011 | ✓ | ●●●●● | |
| MINFR07-210150D080 | 8 | 7 | 36 | 22 | 1,5 | 5,9 | 2,5 | 0,005 | ✓ | ●●●●● | |
| MINFLO7-300200D080 | 8 | 7 | 46 | 31 | 2,0 | 5,9 | 3,0 | 0,011 | ✓ | ●●●●● | |
| MINFR07-110200D080 | 8 | 7 | 27 | 12 | 2,0 | 5,9 | 3,0 | 0,010 | ✓ | ●●●●● | |
| MINFR07-210200D080 | 8 | 7 | 36 | 22 | 2,0 | 5,9 | 3,0 | 0,001 | ✓ | ●●●●● | |
| MINFR07-110250D080 | 8 | 7 | 27 | 12 | 2,5 | 5,9 | 3,5 | 0,010 | ✓ | ●●●●● | |
| MINFR07-210250D080 | 8 | 7 | 36 | 22 | 2,5 | 5,9 | 3,5 | 0,015 | ✓ | ●●●●● | |
| MINFR07-110300D080 | 8 | 7 | 27 | 12 | 3,0 | 5,9 | 3,5 | 0,008 | ✓ | ●●●●● | |
| MINFR07-210300D080 | 8 | 7 | 36 | 22 | 3,0 | 5,9 | 3,5 | 0,001 | ✓ | ●●●●● | |
| MINFR07-300300D080 | 8 | 7 | 46 | 31 | 3,0 | 5,9 | 3,5 | 0,011 | ✓ | ●●●●● | |

● = P ● = M ● = K ● = N ● = S ○ = H

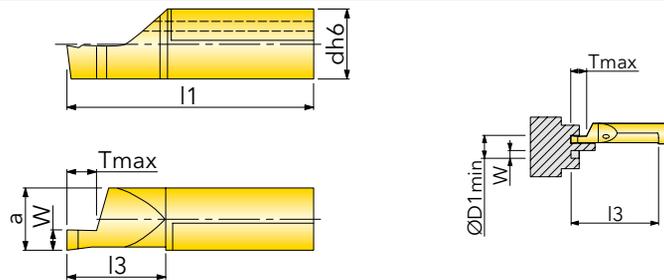
MINF-TYPE FOR DEEP FACE GROOVING
MINF-TYPE POUR GORGES FRONTALES PROFONDES



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | W | a | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|------|-------|----|----------|--------|
| MINFR07-200250D150 | 15 | 7 | 36 | 21 | 2,5 | 5,9 | 20 | 0,005 | ✓ | | |
| MINFR07-200300D150 | 15 | 7 | 36 | 21 | 3,0 | 5,9 | 20 | 0,001 | ✓ | | |
| MINFR07-300300D150 | 15 | 7 | 46 | 31 | 3,0 | 5,9 | 30 | 0,011 | ✓ | | |

● = P ● = M ● = K ● = N ● = S ○ = H

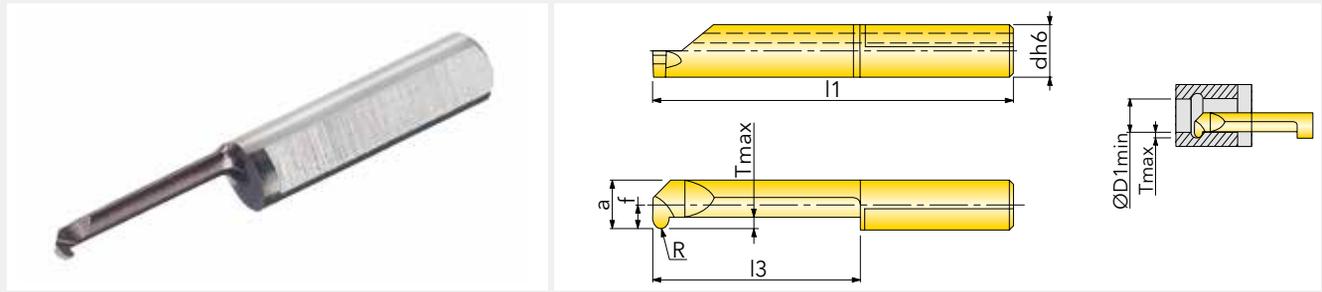
MINA-TYPE FOR GROOVING ALONG SHAFT
MINA-TYPE POUR GORGES FRONTALES LE LONG D'UN ARBRE



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | W | a | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|------|-------|----|----------|--------|
| MINSR07-200200D060 | 6 | 7 | 36 | 32 | 2,0 | 5,2 | 5 | 0,005 | ✓ | | |

● = P ● = M ● = K ● = N ● = S ○ = H

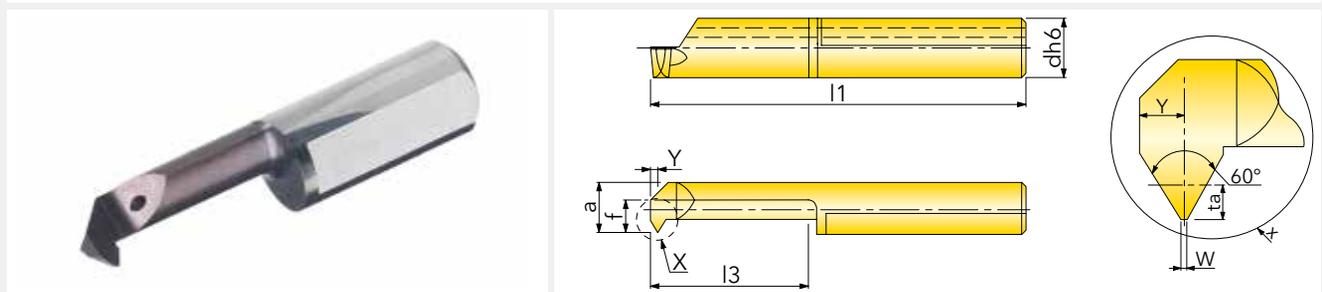
MINR-TYPE FULL RADIUS FOR INTERNAL BORING AND PROFILING
MINR-TYPE HÉMISPHERIQUE POUR ALÉSAGE ET COPIAGE



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R | Tmax | kg | IK | Qualität |
|----------------------------------|---------|-----|----|----|-----|-----|-----|------|-------|----|----------|
| MINRR07-190050D050 | 5,0 | 7 | 35 | 20 | 0,9 | 4,4 | 0,5 | 1,0 | 0,011 | ✓ | ☉ |
| MINRR07-240050D060 | 6,0 | 7 | 40 | 25 | 1,8 | 5,3 | 0,5 | 1,8 | 0,011 | ✓ | ☉ |
| MINRR07-290050D068 | 6,8 | 7 | 45 | 30 | 2,8 | 6,3 | 0,5 | 2,5 | 0,010 | ✓ | ☉ |

● = P ● = M ● = K ● = N ● = S ○ = H

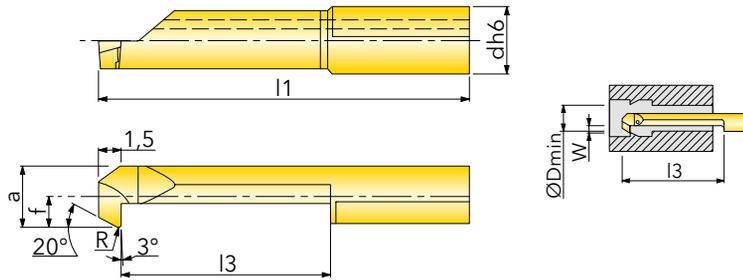
MINN-TYPE FOR ISO INTERNAL THREADING
MINN-TYPE POUR FILETAGE ISO INTÉRIEUR



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | W | a | Y | P | kg | IK | Qualität |
|----------------------------------|---------|-----|----|----|-----|------|-----|------|------|-------|----|----------|
| MINIR04-140050D040 | 4,0 | 4 | 30 | 15 | 1,5 | 0,06 | 3,5 | 0,35 | 0,50 | 0,004 | ✓ | ☉ |
| MINIR07-140050D050 | 5,0 | 7 | 30 | 15 | 0,9 | 0,06 | 4,4 | 0,35 | 0,50 | 0,006 | ✓ | ☉ |
| MINIR07-140075D050 | 5,0 | 7 | 30 | 15 | 0,9 | 0,90 | 4,4 | 0,45 | 0,75 | 0,010 | ✓ | ☉ |
| MINIR07-140100D048 | 4,8 | 7 | 30 | 15 | 0,9 | 0,12 | 4,4 | 0,55 | 1,00 | 0,006 | ✓ | ☉ |
| MINIR07-140100D060 | 6,0 | 7 | 30 | 15 | 1,8 | 0,12 | 5,3 | 0,55 | 1,00 | 0,009 | ✓ | ☉ |
| MINIR07-140125D060 | 6,0 | 7 | 30 | 15 | 1,8 | 0,15 | 5,3 | 0,65 | 1,25 | 0,011 | ✓ | ☉ |
| MINIR07-140150D060 | 6,0 | 7 | 30 | 15 | 1,8 | 0,18 | 5,3 | 0,75 | 1,50 | 0,005 | ✓ | ☉ |
| MINIR07-140150D070 | 7,0 | 7 | 30 | 15 | 2,8 | 0,18 | 6,3 | 0,75 | 1,50 | 0,011 | ✓ | ☉ |

● = P ● = M ● = K ● = N ● = S ○ = H

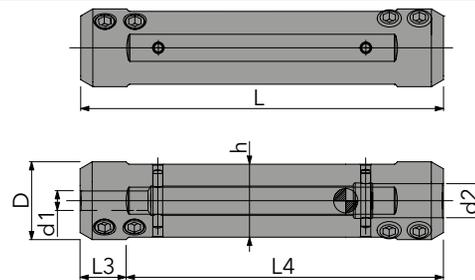
MINB-TYPE FOR INTERNAL BACK TURNING
MINB-TYPE POUR ALESAGE EN TIRANT



| Designation Réf. de l'article | D1 min. | dh6 | l1 | l3 | f | a | R±0,05 | Tmax | kg | IK | Qualität | TT9030 |
|----------------------------------|---------|-----|----|----|-----|-----|--------|------|-------|----|----------|--------|
| MINBR04-140020D030 | 3 | 4 | 30 | 15 | 0,6 | 2,6 | 0,20 | 0,5 | 0,001 | ✓ | | |
| MINBR04-190020D030 | 3 | 4 | 35 | 20 | 0,6 | 2,6 | 0,20 | 0,5 | 0,003 | ✓ | | |
| MINBR04-140015D040 | 4 | 4 | 30 | 15 | 1,5 | 3,5 | 0,15 | 0,8 | 0,003 | ✓ | | |
| MINBR04-240015D040 | 4 | 4 | 40 | 25 | 1,5 | 3,5 | 0,15 | 0,8 | 0,001 | ✓ | | |
| MINBR07-190020D050 | 5 | 7 | 35 | 20 | 0,9 | 4,4 | 0,20 | 1,0 | 0,010 | ✓ | | |
| MINBR07-290020D050 | 5 | 7 | 45 | 30 | 0,9 | 4,4 | 0,20 | 1,0 | 0,018 | ✓ | | |
| MINBR07-190020D060 | 6 | 7 | 35 | 20 | 1,8 | 5,3 | 0,20 | 1,8 | 0,011 | ✓ | | |
| MINBR07-290020D060 | 6 | 7 | 45 | 30 | 1,8 | 5,3 | 0,20 | 1,8 | 0,016 | ✓ | | |
| MINBR07-190020D070 | 7 | 7 | 35 | 20 | 2,8 | 6,3 | 0,20 | 2,5 | 0,015 | ✓ | | |
| MINBR07-290020D070 | 7 | 7 | 45 | 30 | 2,8 | 6,3 | 0,20 | 2,5 | 0,014 | ✓ | | |

● = P ● = M ● = K ● = N ● = S ○ = H

MINS BASIC ADAPTION
MINS - ATTACHEMENT



| Designation Réf. de l'article | D | d1 | d2 | L | L3 | L4 | h | kg | ① | ② |
|----------------------------------|-------|----|----|-------|----|------|------|-------|----------------|--------|
| MINSL 12-4-4 | 12 | 4 | 4 | 75,0 | 10 | 55,0 | 10,3 | 0,052 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 14-4-4 | 14 | 4 | 4 | 75,0 | 10 | 55,0 | 12,0 | 0,074 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 16-4-7 | 16 | 4 | 7 | 75,0 | 10 | 55,0 | 15,0 | 0,096 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 19-4-7 | 19,05 | 4 | 7 | 89,0 | 10 | 69,0 | 17,2 | 0,168 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 20-4-7 | 20 | 4 | 7 | 90,0 | 10 | 70,0 | 18,0 | 0,200 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 22-4-7 | 22 | 4 | 7 | 90,0 | 10 | 70,0 | 20,0 | 0,232 | SS M5X0.8X4-MG | LW 2.5 |
| MINSL 25-4-7 | 25 | 4 | 7 | 100,0 | 10 | 80,0 | 23,0 | 0,308 | SS M5X0.8X4-MG | LW 2.5 |

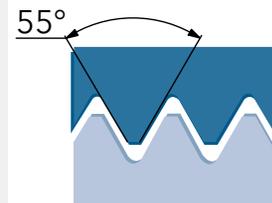
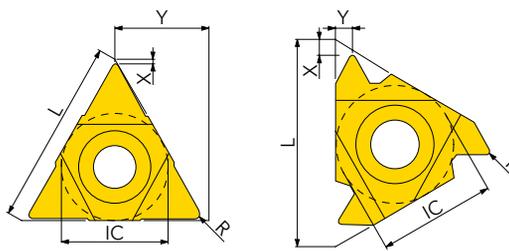
① = Set screw / Vis de réglage ② = Wrench / Clé de serrage

THREADING INSERTS / PLAQUETTES DE FILETAGE

| | Designation / Désignation | | Page |
|---|--|--|------|
|  | T_TTHREAD Partial profile 55° Profil partiel 55° | | 502 |
|  | T_TTHREAD Partial profile 60° Profil partiel 60° | | 503 |
|  | T_TTHREAD ISO metric full profile ISO metrique profil complet | | 504 |
|  | T_TTHREAD ISO metric full profile ISO metrique profil complet | | 506 |
|  | T_TTHREAD American UN full profile Americain UN-profil complet | | 508 |
|  | T_TTHREAD Whitworth full profile (BSW, BSF, BSP) Whitworth profil complet (BSW, BSF, BSP) | | 509 |
|  | T_TTHREAD Whitworth full profile (BSW, BSF, BSP) Whitworth profil complet (BSW, BSF, BSP) | | 510 |
|  | T_TTHREAD NPT (national pipe threads) full profile NPT (pas au gaz) profil complet | | 511 |
|  | T_TTHREAD UNJ UNJ profil complet | | 512 |
|  | T_TTHREAD Trapeze DIN 103 Trapezoidal DIN 103 | | 513 |
|  | T_TTHREAD Round DIN 405 Profil rond DIN405 | | 514 |
| | | | |
| | | | |
| | | | |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

**PARTIAL PROFIL 55°
PROFIL PARTIEL 55°**



| Designation Réf. de l'article | R | L | X | Y | P min. | P max. | TPI min. | TPI max. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|--------|--------|----------|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|--------|--------|----------|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | | | | |
|-------------|------|----|-----|-----|------|-----|----|----|------|--|--|--|
| 16 EL G 55 | 0,20 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 EL AG 55 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 11 ER A 55 | 0,05 | 11 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 6,35 | | | |
| 16 ER A 55 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 ER G 55 | 0,20 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 ER AG 55 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |

External M-type / Extérieur M-Type

| | | | | | | | | | | | | |
|--------------|------|----|-----|-----|------|-----|---|----|------|--|--|--|
| 16 ERM AG 55 | 0,06 | 16 | 1,2 | 1,7 | 0,50 | 3,0 | 8 | 48 | 9,53 | | | |
|--------------|------|----|-----|-----|------|-----|---|----|------|--|--|--|

Internal regular type / Type rectifié - intérieur

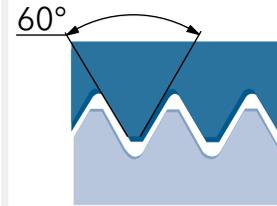
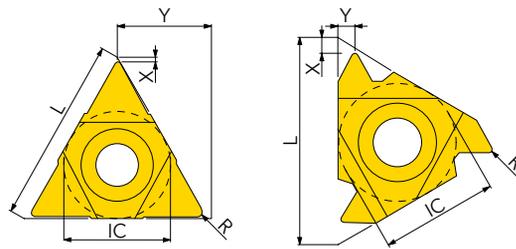
| | | | | | | | | | | | | |
|-------------|------|----|-----|-----|------|-----|----|----|-------|--|--|--|
| 16 IL G 55 | 0,20 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 IL AG 55 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 08 IR A 55 | 0,05 | 8 | 0,6 | 0,7 | 0,5 | 1,5 | 16 | 48 | 4,76 | | | |
| 11 IR A 55 | 0,05 | 11 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 6,35 | | | |
| 16 IR A 55 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 IR G 55 | 0,20 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 IR AG 55 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 IR N 55 | 0,42 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |

Internal M-type / Intérieur M-Type

| | | | | | | | | | | | | |
|--------------|------|----|-----|-----|------|-----|---|----|------|--|--|--|
| 16 IRM AG 55 | 0,07 | 16 | 1,2 | 1,7 | 0,50 | 3,0 | 8 | 48 | 9,53 | | | |
|--------------|------|----|-----|-----|------|-----|---|----|------|--|--|--|

● = P ● = M ● = K ● = N ● = S ○ = H

PARTIAL PROFIL 60°
PROFIL PARTIEL 60°



| Designation Réf. de l'article | R | L | X | Y | P min. | P max. | TPI min. | TPI max. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|--------|--------|----------|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|--------|--------|----------|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | | | | |
|-------------|------|----|-----|-----|------|-----|----|----|-------|--|--|--|
| 16 ELA 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 EL G 60 | 0,17 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 EL AG 60 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 EL N 60 | 0,32 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |
| 16 ER A 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 ER G 60 | 0,17 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 ER AG 60 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 ER N 60 | 0,32 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |

External M-type / Extérieur M-Type Eco

| | | | | | | | | | | | | |
|--------------|------|----|-----|-----|------|-----|----|----|-------|--|--|--|
| 16 ERM A 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 ERM G 60 | 0,17 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 ERM AG 60 | 0,06 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 ERM N 60 | 0,32 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |

Internal regular type / Type rectifié - intérieur

| | | | | | | | | | | | | |
|-------------|------|----|-----|-----|------|-----|----|-----|-------|--|--|--|
| 11 ILA 60 | 0,05 | 11 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 6,35 | | | |
| 16 ILA 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 IL G 60 | 0,12 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 IL AG 60 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 IL N 60 | 0,22 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |
| 11 IRA 60 | 0,05 | 11 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 6,35 | | | |
| 16 IRA 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 22 IR N 60 | 0,22 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |
| 27 IR Q 60 | 0,31 | 27 | 1,8 | 2,7 | 5,5 | 6,0 | 4 | 4,5 | 15,88 | | | |

Internal M-type / Intérieur M-Type Eco

| | | | | | | | | | | | | |
|--------------|------|----|-----|-----|------|-----|----|----|-------|--|--|--|
| 08 IRM A 60 | 0,05 | 8 | 0,6 | 0,7 | 0,5 | 1,5 | 16 | 48 | 4,76 | | | |
| 11 IRM A 60 | 0,05 | 11 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 6,35 | | | |
| 16 IRM A 60 | 0,05 | 16 | 0,8 | 0,9 | 0,5 | 1,5 | 16 | 48 | 9,53 | | | |
| 16 IRM G 60 | 0,10 | 16 | 1,2 | 1,7 | 1,75 | 3,0 | 8 | 14 | 9,53 | | | |
| 16 IRM AG 60 | 0,05 | 16 | 1,2 | 1,7 | 0,5 | 3,0 | 8 | 48 | 9,53 | | | |
| 22 IRM N 60 | 0,19 | 22 | 1,7 | 2,5 | 3,5 | 5,0 | 5 | 7 | 12,70 | | | |

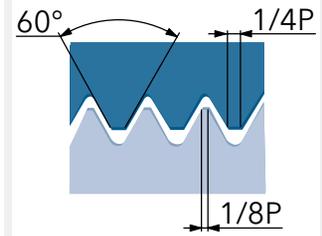
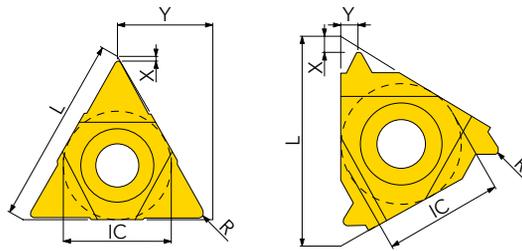
U-type / U-Type

| | | | | | | | | | | | | |
|----------------|------|----|-----|------|-----|-----|------|-----|-------|--|--|--|
| 22 U EIRL U 60 | 0,28 | 22 | 0,6 | 11,0 | 5,5 | 8,0 | 3,25 | 4,5 | 12,70 | | | |
| 27 U EIRL U 60 | 0,28 | 27 | 1,0 | 13,7 | 6,5 | 9,0 | 2,75 | 4 | 15,88 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



**ISO METRIC FULL PROFIL FOR EXTERNAL
ISO METRIQUE PROFIL COMPLET - FILETAGE EXTER**



| Designation Réf. de l'article | R | L | X | Y | IC | P | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----|---|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----|---|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | |
|----------------|------|----|-----|-----|-------|------|----|--|------|
| 16 EL 0,50 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,50 | | | ●●●● |
| 16 EL 0,70 ISO | 0,07 | 16 | 0,6 | 0,6 | 9,53 | 0,70 | | | ●●●● |
| 16 EL 0,75 ISO | 0,08 | 16 | 0,6 | 0,6 | 9,53 | 0,75 | ●● | | ●●●● |
| 16 EL 0,80 ISO | 0,09 | 16 | 0,6 | 0,6 | 9,53 | 0,80 | ●● | | ●●●● |
| 16 EL 1,00 ISO | 0,09 | 16 | 0,7 | 0,7 | 9,53 | 1,00 | ●● | | ●●●● |
| 16 EL 1,25 ISO | 0,11 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | ●● | | ●●●● |
| 16 EL 1,50 ISO | 0,14 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | ●● | | ●●●● |
| 16 EL 1,75 ISO | 0,19 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | ●● | | ●●●● |
| 16 EL 2,00 ISO | 0,20 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | | | ●●●● |
| 16 EL 2,50 ISO | 0,31 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | ●● | | ●●●● |
| 16 EL 3,00 ISO | 0,38 | 16 | 1,2 | 1,6 | 9,53 | 3,00 | | | ●●●● |
| 27 EL 6,00 ISO | 0,78 | 27 | 2,0 | 2,9 | 15,88 | 6,00 | | | ●●●● |
| 11 ER 0,35 ISO | 0,04 | 11 | 0,8 | 0,4 | 6,35 | 0,35 | | | ●●●● |
| 11 ER 0,70 ISO | 0,07 | 11 | 0,6 | 0,6 | 6,35 | 0,70 | | | ●●●● |
| 11 ER 1,00 ISO | 0,12 | 11 | 0,7 | 0,7 | 6,35 | 1,00 | ●● | | ●●●● |
| 16 ER 0,35 ISO | 0,04 | 16 | 0,8 | 0,4 | 9,53 | 0,35 | ●● | | ●●●● |
| 16 ER 0,40 ISO | 0,04 | 16 | 0,7 | 0,4 | 9,53 | 0,40 | | | ●●●● |
| 16 ER 0,45 ISO | 0,05 | 16 | 0,7 | 0,4 | 9,53 | 0,45 | ●● | | ●●●● |
| 16 ER 0,50 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,50 | ●● | | ●●●● |
| 16 ER 0,60 ISO | 0,07 | 16 | 0,6 | 0,6 | 9,53 | 0,60 | | | ●●●● |
| 16 ER 0,70 ISO | 0,07 | 16 | 0,6 | 0,6 | 9,53 | 0,70 | ●● | | ●●●● |
| 16 ER 0,75 ISO | 0,08 | 16 | 0,6 | 0,6 | 9,53 | 0,75 | ●● | | ●●●● |
| 16 ER 0,80 ISO | 0,09 | 16 | 0,6 | 0,6 | 9,53 | 0,80 | ●● | | ●●●● |
| 16 ER 1,00 ISO | 0,09 | 16 | 0,7 | 0,7 | 9,53 | 1,00 | ●● | | ●●●● |
| 16 ER 1,25 ISO | 0,11 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | ●● | | ●●●● |
| 16 ER 1,50 ISO | 0,14 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | ●● | | ●●●● |
| 16 ER 1,75 ISO | 0,19 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | ●● | | ●●●● |
| 16 ER 2,00 ISO | 0,20 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | ●● | | ●●●● |
| 16 ER 2,50 ISO | 0,31 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | ●● | | ●●●● |
| 16 ER 3,00 ISO | 0,38 | 16 | 1,2 | 1,6 | 9,53 | 3,00 | ●● | | ●●●● |
| 22 ER 3,50 ISO | 0,44 | 22 | 1,6 | 2,3 | 12,70 | 3,50 | ●● | | ●●●● |
| 22 ER 4,00 ISO | 0,52 | 22 | 1,6 | 2,3 | 12,70 | 4,00 | ●● | | ●●●● |
| 22 ER 4,50 ISO | 0,58 | 22 | 1,7 | 2,4 | 12,70 | 4,50 | ●● | | ●●●● |
| 22 ER 5,00 ISO | 0,64 | 22 | 1,7 | 2,5 | 12,70 | 5,00 | ●● | | ●●●● |
| 27 ER 5,50 ISO | 0,70 | 27 | 1,9 | 2,7 | 15,88 | 5,50 | | | ●●●● |
| 27 ER 6,00 ISO | 0,78 | 27 | 2,0 | 2,9 | 15,88 | 6,00 | ●● | | ●●●● |

External M-type / Extérieur M-Type Eco

| | | | | | | | | | |
|-----------------|------|----|-----|-----|------|------|----|--|------|
| 16 ERM 1,00 ISO | 0,12 | 16 | 0,7 | 0,7 | 9,53 | 1,00 | ●● | | ●●●● |
| 16 ERM 1,25 ISO | 0,15 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | ●● | | ●●●● |
| 16 ERM 1,50 ISO | 0,18 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | ●● | | ●●●● |

● = P ● = M ● = K ● = N ● = S ○ = H

ISO METRIC FULL PROFIL FOR EXTERNAL
ISO METRIQUE PROFIL COMPLET - FILETAGE EXTER



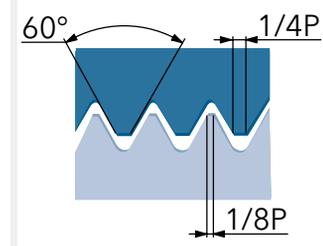
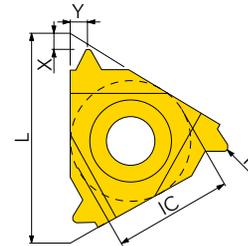
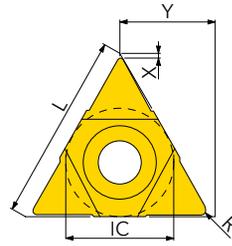
External regular type
Type rectifié - extérieur



External M-type
Exterieur M-Type Eco



External U-type
Exterieur U-type

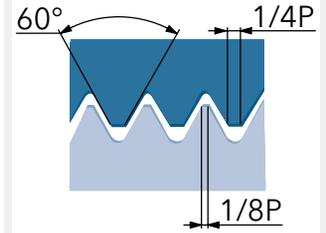
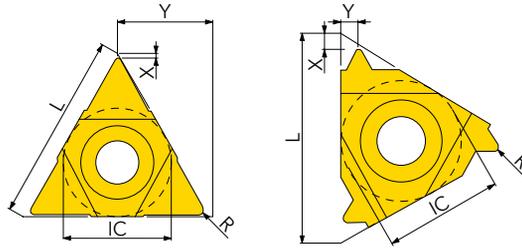


| Designation Réf. de l'article | R | L | X | Y | IC | P | Grade Nuance | TT7010 | TT9030 |
|---|------|----|-----|------|-------|------|-----------------|--------|--------|
| 16 ERM 1,75 ISO | 0,21 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | | | |
| 16 ERM 2,00 ISO | 0,25 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | | | |
| 16 ERM 2,50 ISO | 0,30 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | | | |
| 16 ERM 3,00 ISO | 0,38 | 16 | 1,2 | 1,6 | 9,53 | 3,00 | | | |
| External U-type / Exterieur U-Type | | | | | | | | | |
| 22 U ERL 5,50 ISO | 0,70 | 22 | 2,3 | 11,0 | 12,70 | 5,50 | | | |
| 22 U ERL 6,00 ISO | 0,78 | 22 | 2,6 | 11,0 | 12,70 | 6,00 | | | |
| 27 U ERL 8,00 ISO | 1,08 | 27 | 2,4 | 13,7 | 15,88 | 8,00 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



**ISO METRIC FULL PROFIL FOR INTERNAL
ISO METRIQUE PROFIL COMPLET - FILETAGE INTER**



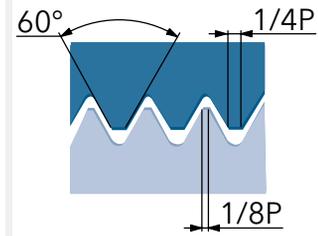
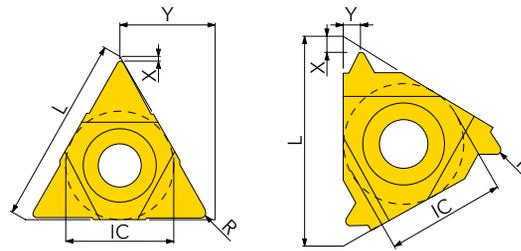
| Designation Réf. de l'article | R | L | X | Y | IC | P | Grade Nuance | TT7010 | TT9030 | TT8010 |
|----------------------------------|---|---|---|---|----|---|-----------------|--------|--------|--------|
|----------------------------------|---|---|---|---|----|---|-----------------|--------|--------|--------|

Internal regular type / Type rectifié - intérieur

| | | | | | | | | | | |
|----------------|------|----|-----|-----|-------|------|---|---|---|---|
| 08 IL 1,50 ISO | 0,08 | 8 | 0,6 | 0,7 | 4,76 | 1,50 | | | | ● |
| 11 IL 1,50 ISO | 0,08 | 11 | 0,8 | 1,0 | 6,35 | 1,50 | ● | ● | | |
| 11 IL 2,00 ISO | 0,12 | 11 | 0,8 | 0,9 | 6,35 | 2,00 | ● | ● | | |
| 16 IL 0,50 ISO | 0,03 | 16 | 0,6 | 0,6 | 9,53 | 0,50 | | ● | | |
| 16 IL 0,75 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,75 | | ● | | |
| 16 IL 1,00 ISO | 0,05 | 16 | 0,6 | 0,7 | 9,53 | 1,00 | ● | ● | | |
| 16 IL 1,25 ISO | 0,07 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | ● | ● | | |
| 16 IL 1,50 ISO | 0,08 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | ● | ● | | |
| 16 IL 1,75 ISO | 0,10 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | | ● | | |
| 16 IL 2,00 ISO | 0,12 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | ● | ● | | |
| 16 IL 2,50 ISO | 0,15 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | ● | ● | | |
| 16 IL 3,00 ISO | 0,18 | 16 | 1,1 | 1,5 | 9,53 | 3,00 | ● | ● | | |
| 22 IL 4,00 ISO | 0,25 | 22 | 1,6 | 2,3 | 12,70 | 4,00 | ● | | | |
| 22 IL 5,00 ISO | 0,32 | 22 | 1,6 | 2,3 | 12,70 | 5,00 | | | ● | |
| 06 IR 0,50 ISO | 0,03 | 6 | 0,5 | 0,5 | 3,97 | 0,50 | | | | ● |
| 06 IR 0,75 ISO | 0,04 | 6 | 0,5 | 0,5 | 3,97 | 0,75 | | | | ● |
| 06 IR 1,00 ISO | 0,05 | 6 | 0,5 | 0,6 | 3,97 | 1,00 | | | | ● |
| 06 IR 1,25 ISO | 0,07 | 6 | 0,6 | 0,6 | 3,97 | 1,25 | | | | ● |
| 08 IR 0,50 ISO | 0,05 | 8 | 0,6 | 0,5 | 4,76 | 0,50 | | | | ● |
| 08 IR 0,75 ISO | 0,04 | 8 | 0,6 | 0,5 | 4,76 | 0,75 | | | | ● |
| 08 IR 1,00 ISO | 0,05 | 8 | 0,6 | 0,6 | 4,76 | 1,00 | | ● | | ● |
| 08 IR 1,25 ISO | 0,07 | 8 | 0,6 | 0,7 | 4,76 | 1,25 | | | | ● |
| 08 IR 1,50 ISO | 0,08 | 8 | 0,6 | 0,7 | 4,76 | 1,50 | | | | ● |
| 08 IR 1,75 ISO | 0,10 | 8 | 0,6 | 0,8 | 4,76 | 1,75 | | | | ● |
| 11 IR 0,35 ISO | 0,02 | 11 | 0,8 | 0,3 | 6,35 | 0,35 | | | ● | |
| 11 IR 0,50 ISO | 0,03 | 11 | 0,6 | 0,6 | 6,35 | 0,50 | ● | ● | | |
| 11 IR 0,75 ISO | 0,04 | 11 | 0,6 | 0,6 | 6,35 | 0,75 | | ● | | |
| 11 IR 1,00 ISO | 0,05 | 11 | 0,6 | 0,7 | 6,35 | 1,00 | ● | ● | | |
| 11 IR 1,25 ISO | 0,07 | 11 | 0,8 | 0,9 | 6,35 | 1,25 | ● | ● | | |
| 11 IR 1,50 ISO | 0,08 | 11 | 0,8 | 1,0 | 6,35 | 1,50 | ● | ● | | ● |
| 11 IR 1,75 ISO | 0,10 | 11 | 0,9 | 1,1 | 6,35 | 1,75 | ● | ● | | |
| 11 IR 2,00 ISO | 0,12 | 11 | 0,8 | 0,9 | 6,35 | 2,00 | ● | ● | | |
| 16 IR 0,35 ISO | 0,02 | 16 | 0,8 | 0,3 | 9,53 | 0,35 | | | ● | |
| 16 IR 0,50 ISO | 0,03 | 16 | 0,6 | 0,6 | 9,53 | 0,50 | ● | ● | | |
| 16 IR 0,70 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,70 | ● | ● | | |
| 16 IR 0,75 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,75 | | ● | | |
| 16 IR 0,80 ISO | 0,04 | 16 | 0,6 | 0,6 | 9,53 | 0,80 | ● | | | |
| 16 IR 1,00 ISO | 0,05 | 16 | 0,6 | 0,7 | 9,53 | 1,00 | ● | ● | | |
| 16 IR 1,25 ISO | 0,07 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | ● | ● | | |
| 16 IR 1,50 ISO | 0,08 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | ● | ● | | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

ISO METRIC FULL PROFIL FOR INTERNAL
ISO METRIQUE PROFIL COMPLET - FILETAGE INTER

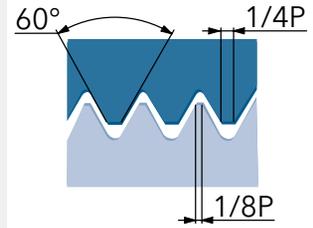
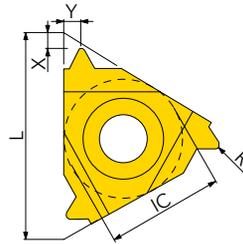
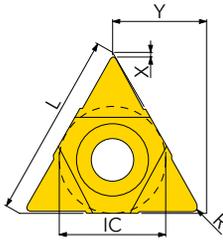


| Designation Réf. de l'article | R | L | X | Y | IC | P | Grade Nuance | TT7010 | TT9030 | TT8010 |
|---|------|----|-----|------|-------|------|-----------------|--------|--------|--------|
| 16 IR 1,75 ISO | 0,10 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | | ● | ● | |
| 16 IR 2,00 ISO | 0,12 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | | ● | ● | ● |
| 16 IR 2,50 ISO | 0,15 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | | ● | ● | ● |
| 16 IR 3,00 ISO | 0,18 | 16 | 1,1 | 1,5 | 9,53 | 3,00 | | ● | ● | ● |
| 22 IR 3,50 ISO | 0,22 | 22 | 1,6 | 2,3 | 12,70 | 3,50 | | ● | ● | |
| 22 IR 4,00 ISO | 0,25 | 22 | 1,6 | 2,3 | 12,70 | 4,00 | | ● | ● | |
| 22 IR 4,50 ISO | 0,29 | 22 | 1,6 | 2,4 | 12,70 | 4,50 | | ● | ● | |
| 22 IR 5,00 ISO | 0,32 | 22 | 1,6 | 2,3 | 12,70 | 5,00 | | ● | ● | |
| 27 IR 5,50 ISO | 0,35 | 27 | 1,6 | 2,3 | 15,88 | 5,50 | | ● | ● | |
| 27 IR 6,00 ISO | 0,39 | 27 | 1,8 | 2,5 | 15,88 | 6,00 | | ● | ● | |
| Internal M-type / Interieur M-Type Eco | | | | | | | | | | |
| 11 IRM 1,50 ISO | 0,08 | 11 | 0,8 | 1,0 | 6,35 | 1,50 | | ● | ● | |
| 16 IRM 1,00 ISO | 0,05 | 16 | 0,6 | 0,7 | 9,53 | 1,00 | | ● | ● | |
| 16 IRM 1,25 ISO | 0,06 | 16 | 0,8 | 0,9 | 9,53 | 1,25 | | ● | ● | |
| 16 IRM 1,50 ISO | 0,08 | 16 | 0,8 | 1,0 | 9,53 | 1,50 | | ● | ● | |
| 16 IRM 1,75 ISO | 0,10 | 16 | 0,9 | 1,2 | 9,53 | 1,75 | | ● | ● | |
| 16 IRM 2,00 ISO | 0,11 | 16 | 1,0 | 1,3 | 9,53 | 2,00 | | ● | ● | |
| 16 IRM 2,50 ISO | 0,14 | 16 | 1,1 | 1,5 | 9,53 | 2,50 | | ● | ● | |
| 16 IRM 3,00 ISO | 0,17 | 16 | 1,1 | 1,5 | 9,53 | 3,00 | | ● | ● | |
| Internal U-type / Interieur U-Type | | | | | | | | | | |
| 08 U IRL 2,00 ISO | 0,12 | 8 | 1,0 | 4,0 | 4,76 | 2,00 | | | | ● |
| 27 U IRL 8,00 ISO | 0,53 | 27 | 2,4 | 13,7 | 15,88 | 8,00 | | | ● | |

● = P ● = M ● = K ● = N ● = S ○ = H



**EXTERNAL THREAD, (UN, UNC, UNF, UNEF)
AMERICAIN UN-PROFIL COMPLET -FILETAGE EXTER**



| Designation Réf. de l'article | R | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | |
|---------------|------|----|-----|-----|------|-------|----|--|------|
| 16 EL 18 UN | 0,18 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | ●●●● |
| 16 EL 16 UN | 0,18 | 16 | 0,9 | 1,1 | 16 | 9,53 | | | ●●●● |
| 16 EL 14 UN | 0,22 | 16 | 1,0 | 1,2 | 14 | 9,53 | ●● | | ●●●● |
| 16 EL 12 UN | 0,26 | 16 | 1,1 | 1,4 | 12 | 9,53 | | | ●●●● |
| 16 ER 56 UN | 0,04 | 16 | 0,7 | 0,4 | 56 | 9,53 | | | ●●●● |
| 16 ER 48 UN | 0,05 | 16 | 0,6 | 0,6 | 48 | 9,53 | | | ●●●● |
| 16 ER 40 UN | 0,06 | 16 | 0,6 | 0,6 | 40 | 9,53 | | | ●●●● |
| 16 ER 36 UN | 0,07 | 16 | 0,6 | 0,6 | 36 | 9,53 | | | ●●●● |
| 16 ER 32 UN | 0,09 | 16 | 0,6 | 0,6 | 32 | 9,53 | | | ●●●● |
| 16 ER 28 UN | 0,10 | 16 | 0,6 | 0,7 | 28 | 9,53 | ●● | | ●●●● |
| 16 ER 24 UN | 0,12 | 16 | 0,7 | 0,8 | 24 | 9,53 | | | ●●●● |
| 16 ER 20 UN | 0,15 | 16 | 0,8 | 0,9 | 20 | 9,53 | | | ●●●● |
| 16 ER 18 UN | 0,18 | 16 | 0,8 | 1,0 | 18 | 9,53 | ●● | | ●●●● |
| 16 ER 16 UN | 0,18 | 16 | 0,9 | 1,1 | 16 | 9,53 | ●● | | ●●●● |
| 16 ER 14 UN | 0,22 | 16 | 1,0 | 1,2 | 14 | 9,53 | | | ●●●● |
| 16 ER 13 UN | 0,24 | 16 | 1,0 | 1,3 | 13 | 9,53 | | | ●●●● |
| 16 ER 12 UN | 0,26 | 16 | 1,1 | 1,4 | 12 | 9,53 | ●● | | ●●●● |
| 16 ER 11,5 UN | 0,27 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | ●● | | ●●●● |
| 16 ER 11 UN | 0,28 | 16 | 1,1 | 1,5 | 11 | 9,53 | | | ●●●● |
| 16 ER 10 UN | 0,32 | 16 | 1,1 | 1,5 | 10 | 9,53 | ●● | | ●●●● |
| 16 ER 9 UN | 0,36 | 16 | 1,2 | 1,7 | 9 | 9,53 | | | ●●●● |
| 16 ER 8 UN | 0,41 | 16 | 1,2 | 1,6 | 8 | 9,53 | ●● | | ●●●● |
| 22 ER 7 UN | 0,47 | 22 | 1,6 | 2,3 | 7 | 12,70 | ●● | | ●●●● |
| 22 ER 5 UN | 0,67 | 22 | 1,7 | 2,5 | 5 | 12,70 | | | ●●●● |
| 27 ER 4,5 UN | 0,75 | 27 | 1,9 | 2,7 | 4,5 | 15,88 | | | ●●●● |
| 27 ER 4 UN | 0,85 | 27 | 2,1 | 3,0 | 4 | 15,88 | | | ●●●● |

External M-type / Extérieur M-Type Eco

| | | | | | | | | | |
|--------------|------|----|-----|-----|----|------|----|--|------|
| 16 ERM 18 UN | 0,15 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | ●●●● |
| 16 ERM 16 UN | 0,19 | 16 | 0,9 | 1,1 | 16 | 9,53 | ●● | | ●●●● |
| 16 ERM 14 UN | 0,22 | 16 | 1,0 | 1,2 | 14 | 9,53 | ●● | | ●●●● |
| 16 ERM 12 UN | 0,25 | 16 | 1,1 | 1,4 | 12 | 9,53 | | | ●●●● |

● = P ● = M ● = K ● = N ● = S ○ = H

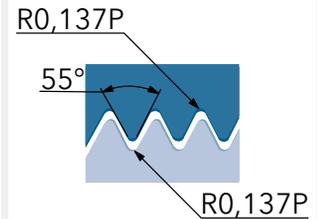
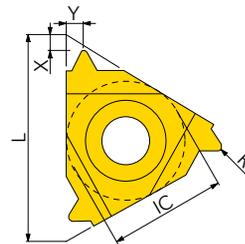
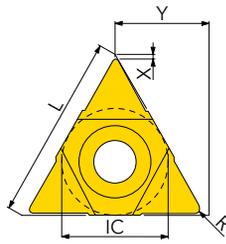
EXTERNAL THREAD
WHITWORTH PROFIL COMPLET (BSW, BSF, BSP)- FILETAGE EXTER



External regular type
Type rectifié - extérieur



External M-type
Extérieur M-Type Eco



| Designation Réf. de l'article | R | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | |
|------------|------|----|-----|-----|----|-------|---|---|
| 16 EL 19 W | 0,15 | 16 | 0,8 | 1,0 | 19 | 9,53 | ● | ● |
| 16 EL 14 W | 0,21 | 16 | 1,0 | 1,2 | 14 | 9,53 | ● | ● |
| 16 EL 11 W | 0,27 | 16 | 1,1 | 1,5 | 11 | 9,53 | ● | ● |
| 16 ER 28 W | 0,09 | 16 | 0,6 | 0,7 | 28 | 9,53 | ● | ● |
| 16 ER 26 W | 0,10 | 16 | 0,7 | 0,8 | 26 | 9,53 | ● | ● |
| 16 ER 24 W | 0,11 | 16 | 0,7 | 0,8 | 24 | 9,53 | ● | ● |
| 16 ER 20 W | 0,14 | 16 | 0,8 | 0,9 | 20 | 9,53 | ● | ● |
| 16 ER 19 W | 0,15 | 16 | 0,8 | 1,0 | 19 | 9,53 | ● | ● |
| 16 ER 18 W | 0,16 | 16 | 0,8 | 1,0 | 18 | 9,53 | ● | ● |
| 16 ER 16 W | 0,18 | 16 | 0,9 | 1,1 | 16 | 9,53 | ● | ● |
| 16 ER 14 W | 0,21 | 16 | 1,0 | 1,2 | 14 | 9,53 | ● | ● |
| 16 ER 12 W | 0,25 | 16 | 1,1 | 1,4 | 12 | 9,53 | ● | ● |
| 16 ER 11 W | 0,27 | 16 | 1,1 | 1,5 | 11 | 9,53 | ● | ● |
| 16 ER 10 W | 0,31 | 16 | 1,1 | 1,5 | 10 | 9,53 | ● | ● |
| 16 ER 9 W | 0,34 | 16 | 1,2 | 1,7 | 9 | 9,53 | ● | ● |
| 16 ER 8 W | 0,39 | 16 | 1,2 | 1,5 | 8 | 9,53 | ● | ● |
| 22 ER 7 W | 0,45 | 22 | 1,6 | 2,3 | 7 | 12,70 | ● | ● |
| 22 ER 6 W | 0,52 | 22 | 1,6 | 2,3 | 6 | 12,70 | ● | ● |

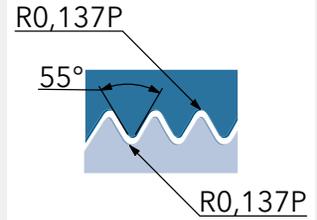
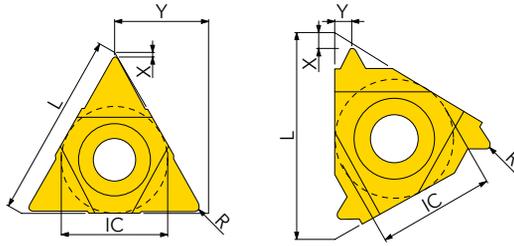
External M-type / Extérieur M-Type Eco

| | | | | | | | | |
|-------------|------|----|-----|-----|----|------|---|---|
| 16 ERM 19 W | 0,08 | 16 | 0,8 | 1,0 | 19 | 9,53 | ● | ● |
| 16 ERM 16 W | 0,20 | 16 | 0,9 | 1,1 | 16 | 9,53 | ● | ● |
| 16 ERM 14 W | 0,23 | 16 | 1,0 | 1,2 | 14 | 9,53 | ● | ● |
| 16 ERM 11 W | 0,30 | 16 | 1,1 | 1,5 | 11 | 9,53 | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H



INTERNAL THREAD
WHITWORTH PROFIL COMPLET (BSW, BSF, BSP)- FILETAGE INTER



| Designation Réf. de l'article | R | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|

Internal regular type / Type rectifié - intérieur

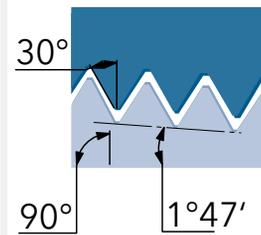
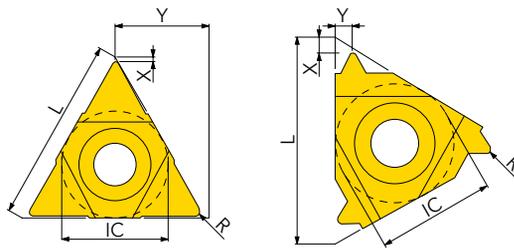
| | | | | | | | | | |
|------------|------|----|-----|-----|----|-------|----|--|------|
| 16 IL 14 W | 0,21 | 16 | 1,0 | 1,2 | 14 | 9,53 | | | ●●●● |
| 16 IL 11 W | 0,27 | 16 | 1,1 | 1,5 | 11 | 9,53 | | | ●●●● |
| 11 IR 19 W | 0,15 | 11 | 0,8 | 1,0 | 19 | 6,35 | ●● | | ●●●● |
| 11 IR 18 W | 0,16 | 11 | 0,8 | 1,0 | 18 | 6,35 | | | ●●●● |
| 11 IR 16 W | 0,18 | 11 | 0,9 | 1,1 | 16 | 6,35 | | | ●●●● |
| 11 IR 14 W | 0,21 | 11 | 0,9 | 1,1 | 14 | 6,35 | ●● | | ●●●● |
| 16 IR 19 W | 0,15 | 16 | 0,8 | 1,0 | 19 | 9,53 | ●● | | ●●●● |
| 16 IR 18 W | 0,16 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | ●●●● |
| 16 IR 14 W | 0,21 | 16 | 1,0 | 1,2 | 14 | 9,53 | ●● | | ●●●● |
| 16 IR 12 W | 0,25 | 16 | 1,1 | 1,4 | 12 | 9,53 | | | ●●●● |
| 16 IR 11 W | 0,27 | 16 | 1,1 | 1,5 | 11 | 9,53 | ●● | | ●●●● |
| 16 IR 10 W | 0,31 | 16 | 1,1 | 1,5 | 10 | 9,53 | | | ●●●● |
| 16 IR 9 W | 0,34 | 16 | 1,2 | 1,7 | 9 | 9,53 | ●● | | |
| 16 IR 8 W | 0,39 | 16 | 1,2 | 1,5 | 8 | 9,53 | | | ●●●● |
| 22 IR 7 W | 0,45 | 22 | 1,6 | 2,3 | 7 | 12,70 | | | ●●●● |
| 22 IR 6 W | 0,52 | 22 | 1,6 | 2,3 | 6 | 12,70 | ●● | | |

Internal M-type / Interieur M-Type Eco

| | | | | | | | | | |
|-------------|------|----|-----|-----|----|------|----|--|------|
| 16 IRM 19 W | 0,08 | 16 | 0,8 | 1,0 | 19 | 9,53 | ●● | | |
| 16 IRM 16 W | 0,20 | 16 | 0,9 | 1,1 | 16 | 9,53 | | | ●●●● |
| 16 IRM 14 W | 0,23 | 16 | 1,0 | 1,2 | 14 | 9,53 | ●● | | ●●●● |
| 16 IRM 11 W | 0,30 | 11 | 1,1 | 1,5 | 11 | 9,53 | ●● | | ●●●● |

● = P ● = M ● = K ● = N ● = S ○ = H

NPT FULL PROFILE
NPT (PAS AU GAZ) PROFIL COMPLET - EXTER ET INTER



| Designation Réf. de l'article | R | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | |
|----------------|------|----|-----|-----|------|------|--|--|--|
| 16 EL 18 NPT | 0,06 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 EL 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 EL 8 NPT | 0,12 | 16 | 1,3 | 1,8 | 8 | 9,53 | | | |
| 16 ER 27 NPT | 0,04 | 16 | 0,7 | 0,8 | 27 | 9,53 | | | |
| 16 ER 18 NPT | 0,06 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 ER 14 NPT | 0,07 | 16 | 0,9 | 1,2 | 14 | 9,53 | | | |
| 16 ER 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 ER 8 NPT | 0,12 | 16 | 1,3 | 1,8 | 8 | 9,53 | | | |

External M-type / Extérieur M-Type Eco

| | | | | | | | | | |
|-----------------|------|----|-----|-----|------|------|--|--|--|
| 16 ERM 18 NPT | 0,05 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 ERM 14 NPT | 0,05 | 16 | 0,9 | 1,2 | 14 | 9,53 | | | |
| 16 ERM 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 ERM 8 NPT | 0,15 | 16 | 1,2 | 1,8 | 8 | 9,53 | | | |

Internal regular type / Type rectifié - intérieur

| | | | | | | | | | |
|----------------|------|----|-----|-----|------|------|--|--|--|
| 16 IL 18 NPT | 0,06 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 IL 14 NPT | 0,07 | 16 | 0,9 | 1,2 | 14 | 9,53 | | | |
| 16 IL 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 IL 8 NPT | 0,12 | 16 | 1,2 | 1,8 | 8 | 9,53 | | | |
| 11 IR 27 NPT | 0,04 | 11 | 0,7 | 0,8 | 27 | 6,35 | | | |
| 11 IR 18 NPT | 0,06 | 11 | 0,8 | 1,0 | 18 | 6,35 | | | |
| 11 IR 14 NPT | 0,04 | 11 | 0,8 | 1,0 | 14 | 6,35 | | | |
| 16 IR 27 NPT | 0,04 | 16 | 0,7 | 0,8 | 27 | 9,53 | | | |
| 16 IR 18 NPT | 0,06 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 IR 14 NPT | 0,07 | 16 | 0,9 | 1,2 | 14 | 9,53 | | | |
| 16 IR 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 IR 8 NPT | 0,12 | 16 | 1,2 | 1,8 | 8 | 9,53 | | | |

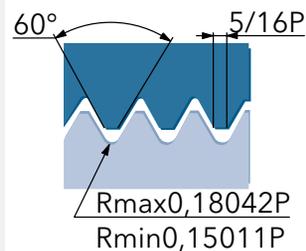
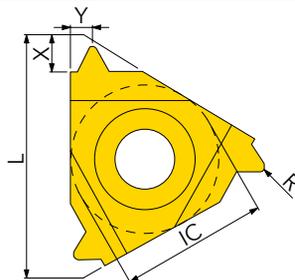
Internal M-type / Intérieur M-Type Eco

| | | | | | | | | | |
|-----------------|------|----|-----|-----|------|------|--|--|--|
| 16 IRM 14 NPT | 0,05 | 16 | 0,9 | 1,2 | 14 | 9,53 | | | |
| 16 IRM 11,5 NPT | 0,09 | 16 | 1,1 | 1,5 | 11,5 | 9,53 | | | |
| 16 IRM 8 NPT | 0,15 | 16 | 1,2 | 1,8 | 8 | 9,53 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



UNJ
UNJ PROFIL COMPLET - EXTER ET INTER



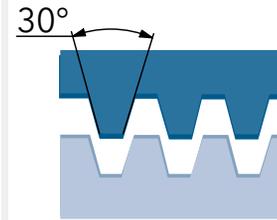
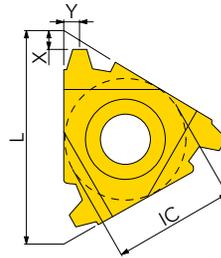
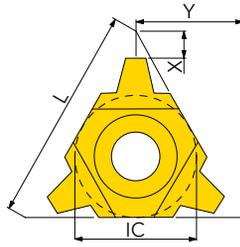
| Designation Réf. de l'article | R | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|---|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | | |
|--|------|----|-----|-----|----|------|--|--|--|
| 16 EL 24 UNJ | 0,17 | 16 | 0,7 | 0,8 | 24 | 9,53 | | | |
| 16 EL 16 UNJ | 0,26 | 16 | 0,9 | 1,1 | 16 | 9,53 | | | |
| 16 ER 36 UNJ | 0,11 | 16 | 0,6 | 0,6 | 36 | 9,53 | | | |
| 16 ER 28 UNJ | 0,14 | 16 | 0,7 | 0,7 | 28 | 9,53 | | | |
| 16 ER 24 UNJ | 0,17 | 16 | 0,7 | 0,8 | 24 | 9,53 | | | |
| 16 ER 20 UNJ | 0,20 | 16 | 0,8 | 0,9 | 20 | 9,53 | | | |
| 16 ER 18 UNJ | 0,22 | 16 | 0,8 | 1,0 | 18 | 9,53 | | | |
| 16 ER 16 UNJ | 0,26 | 16 | 0,9 | 1,1 | 16 | 9,53 | | | |
| 16 ER 12 UNJ | 0,34 | 16 | 1,1 | 1,3 | 12 | 9,53 | | | |
| Internal regular type / Type rectifié - intérieur | | | | | | | | | |
| 11 IR 18 UNJ | 0,22 | 11 | 0,8 | 1,0 | 18 | 6,35 | | | |
| 11 IR 16 UNJ | 0,26 | 11 | 0,9 | 1,1 | 16 | 6,35 | | | |
| 16 IR 16 UNJ | 0,26 | 16 | 0,9 | 1,1 | 16 | 9,53 | | | |
| 16 IR 14 UNJ | 0,29 | 16 | 1,0 | 1,2 | 14 | 9,53 | | | |
| 16 IR 10 UNJ | 0,41 | 16 | 1,2 | 1,5 | 10 | 9,53 | | | |
| 16 IR 8 UNJ | 0,51 | 16 | 1,2 | 1,6 | 8 | 9,53 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

TRAPEZE DIN 103
TRAPEZOIDAL DIN 103 - EXTER ET INTER



| Designation Réf. de l'article | L | X | Y | IC | P | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|----|---|-----------------|--------|--------|
|----------------------------------|---|---|---|----|---|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | |
|--------------|----|-----|-----|-------|-----|--|---|---|
| 16 EL 2 TR | 16 | 1,1 | 1,3 | 9,53 | 2,0 | | ● | |
| 16 EL 3 TR | 16 | 1,3 | 1,5 | 9,53 | 3,0 | | | ● |
| 22 EL 4 TR | 22 | 1,7 | 1,9 | 12,70 | 4,0 | | | ● |
| 22 EL 5 TR | 22 | 2,1 | 2,5 | 12,70 | 5,0 | | | ● |
| 16 ER 1,5 TR | 16 | 1,0 | 1,1 | 9,53 | 1,5 | | ● | ● |
| 16 ER 2 TR | 16 | 1,1 | 1,3 | 9,53 | 2,0 | | | ● |
| 16 ER 3 TR | 16 | 1,3 | 1,5 | 9,53 | 3,0 | | | ● |
| 22 ER 4 TR | 22 | 1,7 | 1,9 | 12,70 | 4,0 | | | ● |
| 22 ER 5 TR | 22 | 2,1 | 2,5 | 12,70 | 5,0 | | | ● |
| 27 ER 6 TR | 27 | 2,3 | 2,7 | 15,88 | 6,0 | | | ● |
| 27 ER 7 TR | 27 | 2,2 | 2,6 | 15,88 | 7,0 | | ● | ● |

Internal regular type / Type rectifié - intérieur

| | | | | | | | | |
|------------|----|-----|-----|-------|-----|--|---|---|
| 16 IL 2 TR | 16 | 1,1 | 1,3 | 9,53 | 2,0 | | ● | |
| 16 IL 3 TR | 16 | 1,3 | 1,5 | 9,53 | 3,0 | | | ● |
| 22 IL 4 TR | 22 | 1,7 | 1,9 | 12,70 | 4,0 | | | ● |
| 22 IL 5 TR | 22 | 2,1 | 2,5 | 12,70 | 5,0 | | | ● |
| 16 IR 2 TR | 16 | 1,1 | 1,3 | 9,53 | 2,0 | | | ● |
| 16 IR 3 TR | 16 | 1,3 | 1,5 | 9,53 | 3,0 | | | ● |
| 22 IR 4 TR | 22 | 1,7 | 1,9 | 12,70 | 4,0 | | | ● |
| 22 IR 5 TR | 22 | 2,1 | 2,5 | 12,70 | 5,0 | | | ● |
| 27 IR 6 TR | 27 | 2,3 | 2,7 | 15,88 | 6,0 | | | ● |
| 27 IR 7 TR | 27 | 2,2 | 2,6 | 15,88 | 7,0 | | ● | |

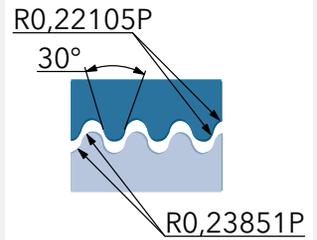
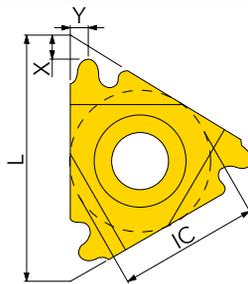
U-type / U-Type

| | | | | | | | | |
|---------------|----|-----|------|-------|-----|--|---|---|
| 27 U ERL 8 TR | 27 | 2,6 | 13,7 | 15,88 | 8,0 | | | ● |
| 27 U ERL 9 TR | 27 | 3,0 | 13,7 | 15,88 | 9,0 | | ● | |
| 22 U IRL 7 TR | 22 | 2,3 | 11,0 | 12,70 | 7,0 | | ● | |
| 27 U IRL 8 TR | 27 | 2,6 | 13,7 | 15,88 | 8,0 | | | ● |

● = P ● = M ● = K ● = N ● = S ○ = H



**ROUND DIN 405
PROFIL ROND DIN405**



| Designation Réf. de l'article | L | X | Y | TPI min. | IC | Grade Nuance | TT7010 | TT9030 |
|----------------------------------|---|---|---|----------|----|-----------------|--------|--------|
|----------------------------------|---|---|---|----------|----|-----------------|--------|--------|

External regular type / Type rectifié - extérieur

| | | | | | | | | |
|--------------|----|-----|-----|----|-------|---|---|--|
| 16 EL 8 RND | 16 | 1,4 | 1,3 | 8 | 9,53 | ● | | |
| 22 EL 6 RND | 22 | 1,5 | 1,7 | 6 | 12,70 | ● | | |
| 22 EL 4 RND | 22 | 2,2 | 2,3 | 4 | 12,70 | ● | | |
| 16 ER 10 RND | 16 | 1,1 | 1,2 | 10 | 9,53 | ● | ● | |
| 16 ER 8 RND | 16 | 1,4 | 1,3 | 8 | 9,53 | ● | ● | |
| 16 ER 6 RND | 16 | 1,5 | 1,7 | 6 | 9,53 | ● | ● | |
| 22 ER 6 RND | 22 | 1,5 | 1,7 | 6 | 12,70 | | ● | |
| 22 ER 4 RND | 22 | 2,2 | 2,3 | 4 | 12,70 | ● | ● | |

External M-type / Extérieur M-Type Eco

| | | | | | | | | |
|--------------|----|-----|-----|---|------|--|--|---|
| 16 ERM 6 RND | 16 | 1,5 | 1,7 | 6 | 9,53 | | | ● |
|--------------|----|-----|-----|---|------|--|--|---|

Internal regular type / Type rectifié - intérieur

| | | | | | | | | |
|--------------|----|-----|-----|----|-------|---|---|--|
| 16 IL 8 RND | 16 | 1,4 | 1,4 | 8 | 9,53 | ● | ● | |
| 16 IL 6 RND | 16 | 1,4 | 1,5 | 6 | 9,53 | ● | | |
| 22 IL 4 RND | 22 | 2,2 | 2,3 | 4 | 12,70 | ● | | |
| 16 IR 10 RND | 16 | 1,1 | 1,2 | 10 | 9,53 | ● | ● | |
| 16 IR 8 RND | 16 | 1,4 | 1,4 | 8 | 9,53 | ● | ● | |
| 16 IR 6 RND | 16 | 1,4 | 1,5 | 6 | 9,53 | ● | ● | |
| 22 IR 6 RND | 22 | 1,5 | 1,7 | 6 | 12,70 | | ● | |
| 22 IR 4 RND | 22 | 2,2 | 2,3 | 4 | 12,70 | | ● | |

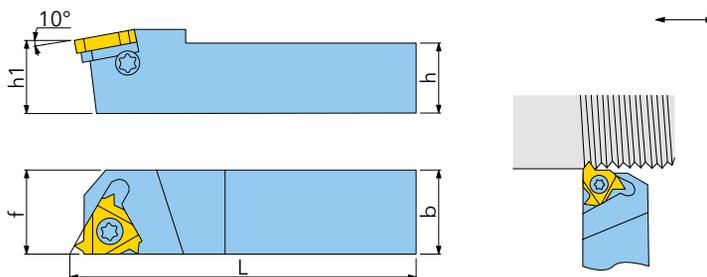
Internal M-type / Intérieur M-Type Eco

| | | | | | | | | |
|--------------|----|-----|-----|---|------|---|---|--|
| 16 IRM 6 RND | 16 | 1,4 | 1,5 | 6 | 9,53 | ● | ● | |
|--------------|----|-----|-----|---|------|---|---|--|

● = P ● = M ● = K ● = N ● = S ○ = H



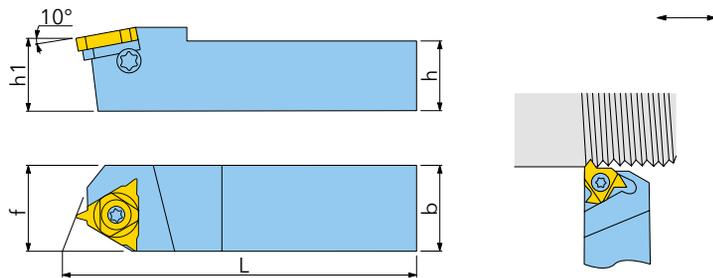
EXTERNAL TOOL HOLDERS
PORTE-OUTILS EXTÉRIEUR



| Designation Réf. de l'article | L | f | h=h1 | b | kg |  |  |  |  |  |  |
|----------------------------------|-----|----|------|----|-------|---|---|---|---|---|---|
| SEL 1010 H11 | 100 | 11 | 10 | 10 | 0,100 | 11 EL_ | S11 | T8 | - | - | - |
| SEL 1212 F16 | 80 | 16 | 12 | 12 | 0,105 | 16 EL_ | S16 | T10 | A16 | - | A16 |
| SEL 1616 H16 | 100 | 16 | 16 | 16 | 0,210 | 16 EL_ | S16 | T10 | A16 | - | A16 |
| SEL 2020 K16 | 125 | 20 | 20 | 20 | 0,400 | 16 EL_ | S16 | T10 | A16 | - | A16 |
| SEL 2525 M16 | 150 | 25 | 25 | 25 | 0,745 | 16 EL_ | S16 | T10 | A16 | - | A16 |
| SEL 3232 P16 | 170 | 32 | 32 | 32 | 1,720 | 16 EL_ | S16 | T10 | A16 | - | A16 |
| SEL 2525 M22 | 150 | 25 | 25 | 25 | 0,735 | 22 EL_ | S22 | T20 | A22 | - | A22 |
| SEL 3232 P22 | 170 | 32 | 32 | 32 | 1,353 | 22 EL_ | S22 | T20 | A22 | - | A22 |
| SEL 2525 M27 | 150 | 25 | 25 | 25 | 0,790 | 27 EL_ | S27 | T25 | A27 | - | A27 |
| SEL 3232 P27 | 170 | 32 | 32 | 32 | 1,300 | 27 EL_ | S27 | T25 | A27 | - | A27 |
| SER 0808 H11 | 100 | 11 | 8 | 8 | 0,070 | 11 ER_ | S11 | T8 | - | - | - |
| SER 1010 H11 | 100 | 11 | 10 | 10 | 0,095 | 11 ER_ | S11 | T8 | - | - | - |
| SER 1212 F16 | 80 | 16 | 12 | 12 | 0,105 | 16 ER_ | S16 | T10 | - | AE16 | A16 |
| SER 1616 H16 | 100 | 16 | 16 | 16 | 0,210 | 16 ER_ | S16 | T10 | - | AE16 | A16 |
| SER 2020 K16 | 125 | 20 | 20 | 20 | 0,400 | 16 ER_ | S16 | T10 | - | AE16 | A16 |
| SER 2525 M16 | 150 | 25 | 25 | 25 | 0,742 | 16 ER_ | S16 | T10 | - | AE16 | A16 |
| SER 3232 P16 | 170 | 32 | 32 | 32 | 1,350 | 16 ER_ | S16 | T10 | - | AE16 | A16 |
| SER 2525 M22 | 150 | 25 | 25 | 25 | 0,735 | 22 ER_ | S22 | T20 | - | AE22 | A22 |
| SER 3232 P22 | 170 | 32 | 32 | 32 | 1,355 | 22 ER_ | S22 | T20 | - | AE22 | A22 |
| SER 2525 M27 | 150 | 25 | 25 | 25 | 0,800 | 27 ER_ | S27 | T25 | - | AE27 | A27 |
| SER 3232 P27 | 170 | 32 | 32 | 32 | 1,370 | 27 ER_ | S27 | T25 | - | AE27 | A27 |
| SER 4040 R27 | 200 | 40 | 40 | 40 | 1,300 | 27 ER_ | S27 | T25 | - | AE27 | A27 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage ③ = Anvil / Butée ④ = Anvil / Butée ⑤ = Anvil screw / Vis d'assise

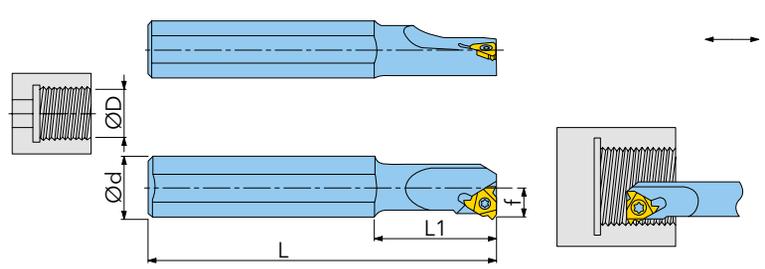
EXTERNAL TOOL HOLDERS
PORTE-OUTILS EXTERIEUR



| Designation Réf. de l'article | L | f | h=h1 | b | kg | | | | | | |
|----------------------------------|-----|----|------|----|-------|---------|-----|-----|-------|-------|-----|
| SEL 2525 M22U | 150 | 28 | 25 | 25 | 0,800 | 22 UEL_ | S22 | T20 | AI22U | - | A22 |
| SEL 2525 M27U | 150 | 32 | 25 | 32 | 0,800 | 27 UEL_ | S27 | T25 | AI27U | - | A27 |
| SEL 3232 P27U | 170 | 32 | 32 | 32 | 1,400 | 27 UEL_ | S27 | T25 | AI27U | - | A27 |
| SER 2525 M22U | 150 | 28 | 25 | 25 | 0,800 | 22 UER_ | S22 | T20 | - | AE22U | A22 |
| SER 3232 P22U | 170 | 32 | 32 | 32 | 1,325 | 22 UER_ | S22 | T20 | - | AE22U | A22 |
| SER 2525 M27U | 150 | 32 | 25 | 32 | 0,800 | 27 UER_ | S27 | T25 | - | AE27U | A27 |
| SER 3232 P27U | 170 | 32 | 32 | 32 | 1,320 | 27 UER_ | S27 | T25 | - | AE27U | A27 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage ③ = Anvil / Butée ④ = Anvil / Butée ⑤ = Anvil screw / Vis d'assise

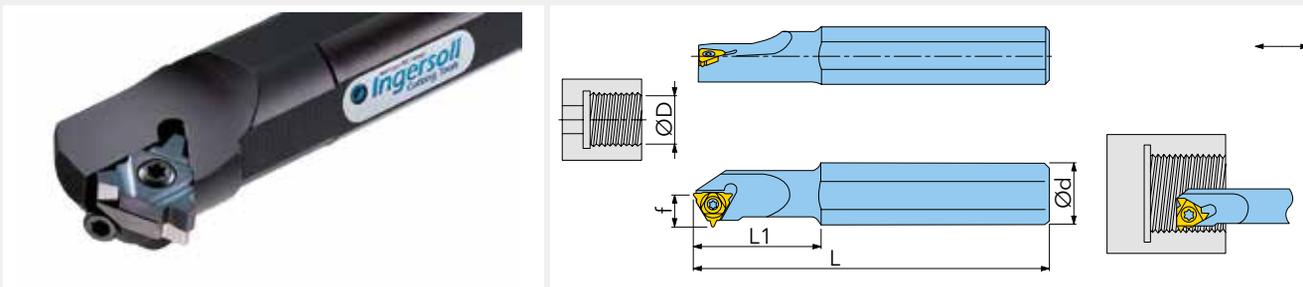


INTERNAL TOOL HOLDERS
PORTE-OUTILS INTERIEUR


| Designation Réf. de l'article | D min. | d | L | L1 | f | kg |  |  |  |  |  |
|----------------------------------|--------|----|-----|----|------|-------|--|---|---|---|---|
| SIL 0005 H06 | 6,4 | 12 | 100 | 12 | 4,3 | | 06 IL_ | TS 20038I | T6 | - | - |
| SIL 0007 K08 | 7,8 | 16 | 125 | 18 | 5,3 | 0,170 | 08 IL_ | TS 20054I | T6 | - | - |
| SIL 0010 H11 | 12 | 10 | 100 | - | 7,4 | 0,070 | 11 IL_ | S11 | T8 | - | - |
| SIL 0010 K11 | 12 | 16 | 125 | 25 | 6,5 | 0,175 | 11 IL_ | S11 | T8 | - | - |
| SIL 0013 L11 | 15 | 16 | 140 | 32 | 8,0 | 0,200 | 11 IL_ | S11 | T8 | - | - |
| SIL 0013 M16 | 16 | 16 | 150 | 32 | 10,0 | 0,192 | 16 IL_ | S 16S | T10 | - | - |
| SIL 0016 P16 | 19 | 20 | 170 | 40 | 11,4 | 0,365 | 16 IL_ | S 16S | T10 | - | - |
| SIL 0020 P16 | 24 | 20 | 170 | - | 13,4 | 0,390 | 16 IL_ | S16 | T10 | AE16 | A16 |
| SIL 0025 R16 | 29 | 25 | 200 | - | 16,3 | 0,728 | 16 IL_ | S16 | T10 | AE16 | A16 |
| SIL 0032 S16 | 36 | 32 | 250 | - | 19,6 | 1,435 | 16 IL_ | S16 | T10 | AE16 | A16 |
| SIL 0040 T16 | 44 | 40 | 300 | - | 23,8 | 2,670 | 16 IL_ | S16 | T10 | AE16 | A16 |
| SIL 0020 P22 | 24 | 20 | 170 | - | 13,0 | 0,410 | 22 IL_ | S 22S | T20 | - | - |
| SIL 0025 R22 | 29 | 25 | 200 | - | 17,2 | 0,730 | 22 IL_ | S22 | T20 | AE22 | A22 |
| SIL 0032 S22 | 38 | 32 | 250 | - | 21,5 | 1,440 | 22 IL_ | S22 | T20 | AE22 | A22 |
| SIL 0040 T22 | 46 | 40 | 300 | - | 25,8 | 2,675 | 22 IL_ | S22 | T20 | AE22 | A22 |
| SIL 0032 S27 | 40 | 32 | 250 | - | 22,4 | 1,100 | 27 IL_ | S27 | T25 | AE27 | A27 |
| SIL 0040 T27 | 48 | 40 | 300 | - | 26,4 | | 27 IL_ | S27 | T25 | AE27 | A27 |
| SIL 0050 U27 | 58 | 50 | 350 | - | 31,4 | | 27 IL_ | S27 | T25 | AE27 | A27 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage ③ = Anvil / Butée ④ = Anvil screw / Vis d'assise

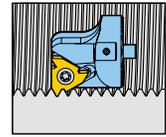
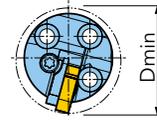
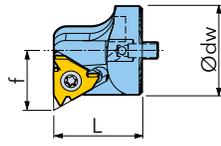
INTERNAL TOOL HOLDERS
PORTE-OUTILS INTERIEUR POUR PLAQUETTES TYPE-U



| Designation Réf. de l'article | D min. | d | L | L1 | f | kg | | | | | | |
|----------------------------------|--------|----|-----|----|------|-------|---------|-----------|-----|-------|-------|-----|
| SIL 0008 K08U | 9,0 | 16 | 125 | 21 | 6,4 | 0,050 | 08 UIL_ | TS 20054I | T 6 | - | - | - |
| SIL 0032 S22U | 38 | 32 | 250 | - | 25,5 | 1,500 | 22 UIL_ | S22 | T20 | - | AE22U | A22 |
| SIL 0040 T22U | 46 | 40 | 300 | - | 29,5 | 3,130 | 22 UIL_ | S22 | T20 | - | AE22U | A22 |
| SIR 0008 K08U | 9,0 | 16 | 125 | 21 | 6,4 | 0,175 | 08 UIR_ | TS 20054I | T 6 | - | - | - |
| SIR 0032 S22U | 38 | 32 | 250 | - | 25,5 | 1,455 | 22 UIR_ | S22 | T20 | AI22U | - | A22 |
| SIR 0032 S27U | 40 | 32 | 250 | - | 24,7 | 1,480 | 27 UIR_ | S27 | T25 | AI27U | - | A27 |
| SIR 0050 U27U | 58 | 50 | 350 | - | 34,3 | 4,900 | 27 UIR_ | S27 | T25 | AI27U | - | A27 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage ③ = Anvil / Butée ④ = Anvil / Butée ⑤ = Anvil screw / Vis d'assise

MODULAR SCREW TYPE THREADING HEAD FOR ANTI-VIBRATION BORING BAR
TÊTES DE FILETAGE MODULAIRES POUR BARRE D'ALÉSAGE ANTIVIBROATOIRE



| Designation Réf. de l'article | D min. | dw | L | f | kg | IK |  |  |  |  |
|----------------------------------|--------|----|----|------|-------|----|---|---|---|---|
| DTC-D25-SIL-16 | 29 | 25 | 26 | 16,2 | 0,092 | ✓ | 16 IL_ | S16 | A16 | AI16 |
| DTC-D32-SIL-16 | 36 | 32 | 27 | 19,7 | 0,137 | ✓ | 16 IL_ | S16 | A16 | AI16 |
| DTC-D40-SIL-16 | 44 | 40 | 30 | 23,7 | 0,213 | ✓ | 16 IL_ | S16 | A16 | AI16 |
| DTC-D32-SIL-22 | 38 | 32 | 32 | 21,6 | 0,151 | ✓ | 22 IL_ | S22 | A22 | AI22 |
| DTC-D40-SIL-22 | 46 | 40 | 38 | 25,6 | 0,252 | ✓ | 22 IL_ | S22 | A22 | AI22 |
| DTC-D25-SIR-16 | 29 | 25 | 26 | 16,2 | 0,092 | ✓ | 16 IR_ | S16 | A16 | AE16 |
| DTC-D32-SIR-16 | 36 | 32 | 27 | 19,7 | 0,137 | ✓ | 16 IR_ | S16 | A16 | AE16 |
| DTC-D40-SIR-16 | 44 | 40 | 30 | 23,7 | 0,213 | ✓ | 16 IR_ | S16 | A16 | AE16 |
| DTC-D32-SIR-22 | 38 | 32 | 32 | 21,6 | 0,151 | ✓ | 22 IR_ | S22 | A22 | AE22 |
| DTC-D40-SIR-22 | 46 | 40 | 38 | 25,6 | 0,252 | ✓ | 22 IR_ | S22 | A22 | AE22 |

① = Insert screw / Vis de serrage plaquette ② = Anvil screw / Vis d'assise ③ = Anvil / Butée



T-CAP

| | Designation / Désignation | Page |
|---|---|------|
|  | TCAP XCGT_TA | 530 |
|  | TCAP XCMT_TC | 530 |
|  | TCAP XCMT_GV | 531 |
|  | TCAP S_SXUCR/L | 532 |
|  | TCAP TCAP 2.25DN_ | 533 |
|  | TCAP TCAP 3.0DN_ | 534 |
|  | TWIST SPEED Head changeable Drill 3D Ø12,0-Ø25,9 Z=3 (B) Foret à embout 3D Ø12,0-Ø25,9 Z=3 (B) | 535 |
|  | TWIST SPEED Head changeable Drill 3D Ø12,0-Ø25,9 Z=3 (A) Foret à embout 3D Ø12,0-Ø25,9 Z=3 (A) | 536 |
|  | TWIST SPEED Head changeable Drill 5D Ø12,0-Ø25,9 Z=3 (B) Foret à embout 5D Ø12,0-Ø25,9 Z=3 (B) | 537 |
|  | TWIST SPEED Head changeable Drill 5D Ø12,0-Ø25,9 Z=3 (A) Foret à embout 5D Ø12,0-Ø25,9 Z=3 (A) | 538 |
|  | TWIST SPEED Head changeable Drill 8D Ø12,0-Ø25,9 Z=3 (A) Foret à embout 8D Ø12,0-Ø25,9 Z=3 (A) | 539 |
|  | TWIST SPEED Head changeable Drill 8D Ø12,0-Ø25,9 Z=3 (B) Foret à embout 8D Ø12,0-Ø25,9 Z=3 (B) | 540 |
|  | SOLID DRILL Solid Carbide Drill 3D Z=3 Ø4,0-12,0 Foret carbure monobloc 3D Z=3 Ø4,0-12,0 | 543 |
|  | SOLID DRILL Solid Carbide Drill 5D Z=3 Ø4,0-12,0 Foret carbure monobloc 5D Z=3 Ø4,0-12,0 | 544 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

T-CAP

| | Designation / Désignation | Page |
|---|--|------|
|  | SOLID DRILL® Solid Carbide Drill 8D Z=3 Ø4,0-12,0 Foret carbure monobloc 8D Z=3 Ø4,0-12,0 | 545 |
|  | SOLID DRILL® Solid Carbide Drill 3D Z=3 Ø4,0-12,0 (flat ground) Foret carbure monobloc 3D Z=3 Ø4,0-12,0 (fond plat) | 546 |
|  | SOLID DRILL® Solid Carbide Drill 5D Z=3 Ø4,0-12,0 (flat ground) Foret carbure monobloc 5D Z=3 Ø4,0-12,0 (fond plat) | 547 |
|  | GOLD TWIST Head changeable Drill 3D Ø4,0-Ø5,9 (A) Foret à embout 3D Ø4,0-Ø5,9 (A) | 548 |
|  | GOLD TWIST Head changeable Drill 5D Ø4,0-Ø5,9 (A) Foret à embout 5D Ø4,0-Ø5,9 (A) | 549 |
|  | GOLD TWIST Head changeable Drill 1,5D Ø6,0-Ø25,9 Foret à embout 1,5D Ø6,0-Ø25,9 | 550 |
|  | GOLD TWIST Head changeable Drill 3D Ø6,0-Ø25,9 Foret à embout 3D Ø6,0-Ø25,9 | 551 |
|  | GOLD TWIST Head changeable Drill 5D Ø6,0-Ø25,9 Foret à embout 5D Ø6,0-Ø25,9 | 552 |
|  | GOLD TWIST Head changeable Drill 8D Ø7,0-Ø25,9 Foret à embout 8D Ø7,0-Ø25,9 | 553 |
|  | GOLD TWIST Head changeable Drill 8D Ø6,0-Ø25,9 (A) Foret à embout 8D Ø6,0-Ø25,9 (A) | 554 |
|  | GOLD TWIST Head changeable Drill 12D Ø8,0-Ø25,9 Foret à embout 12D Ø8,0-Ø25,9 | 555 |
|  | GOLD TWIST Head changeable chamfer Drill Foret à embout pour avant trou de taraudage | 556 |
|  | GOLD TWIST Head changeable step drill 2,5D 2,5D | 557 |
|  | WIN TWIST Head changeable Drill 3D ...X Ø6,0-Ø20,9 Foret à embout 3D ...X Ø6,0-Ø20,9 | 564 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.



T-CAP

| | Designation / Désignation | Page |
|---|--|------|
|  | DEEPTWIST Indexable Gun Drill Ø10-25,9 Foret long goujure droite Ø10-25,9 | 569 |
|  | DEEPTWIST Sleeve with thread connection Manchon avec raccord fileté | 570 |
|  | DEEPTWIST Sleeve with thread connection Weldon Manchon weldon avec raccord fileté | 570 |
|  | SPADETWIST Head changeable Drill 3D Ø20,0-Ø41,0 Foret à lame 3D Ø20,0-Ø41,0 | 576 |
|  | SPADETWIST Head changeable Drill 5D Ø20,0-Ø41,0 Foret à lame 5D Ø20,0-Ø41,0 | 577 |
|  | SPADETWIST Head changeable Drill 8D Ø20,0-Ø41,0 Foret à lame 8D Ø20,0-Ø41,0 | 578 |
|  | GOLDTWIN Modular drill holder 3D Corps foret modulaire 3D | 580 |
|  | GOLDTWIN Modular drill holder 5D Corps foret modulaire 5D | 581 |
|  | GOLDTWIN Modular drill holder 7D Corps foret modulaire 7D | 582 |
|  | GOLDTWIN Modular drill head Ø26 - Ø50 Tête de perçage modulaire Ø26 - Ø50 | 584 |
|  | QUADTWIST Indexable Drill 2D Ø12 - Ø26 Foret à Plaquettes 2D Ø12 - Ø26 | 588 |
|  | QUADTWIST Indexable Drill 2D Ø27 - Ø50 Foret à Plaquettes 2D Ø27 - Ø50 | 590 |
|  | QUADTWIST Indexable Drill 3D Ø12 - Ø26 Foret à Plaquettes 3D Ø12 - Ø26 | 592 |
|  | QUADTWIST Indexable Drill 3D Ø26,5 - Ø50,5 Foret à Plaquettes 3D Ø26,5 - Ø50,5 | 594 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.

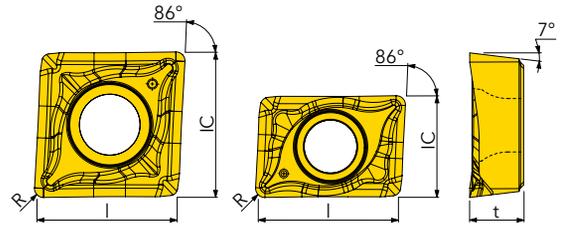
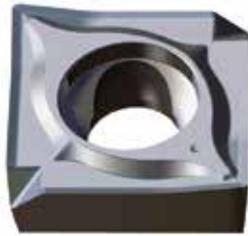
T-CAP

| | Designation / Désignation | Page |
|---|--|------|
|  | QUAD^TWIST Indexable Drill 4D Ø12 - Ø26 Foret à Plaquettes 4D Ø12 - Ø26 | 596 |
|  | QUAD^TWIST Indexable Drill 4D Ø27 - Ø50 Foret à Plaquettes 4D Ø27 - Ø50 | 598 |
|  | QUAD^TWIST Indexable Drill 5D Ø12 - Ø26 Foret à Plaquettes 5D Ø12 - Ø26 | 600 |
|  | QUAD^TWIST Indexable Drill 5D Ø27 - Ø50 Foret à Plaquettes 5D Ø27 - Ø50 | 602 |
|  | QUAD^TWIST Cartridge Indexable Drill 2D Ø51 - Ø80 Foret à cartouches 2D Ø51 - Ø80 | 604 |
|  | QUAD^TWIST Cartridge Indexable Drill 3D Ø51 - Ø80 Foret à cartouches 3D Ø51 - Ø80 | 606 |
|  | QUAD^TWIST Cartridge Indexable Drill 4D Ø51 - Ø80 Foret à cartouches 4D Ø51 - Ø80 | 608 |
|  | QUAD^DRILL Indexable Drill 2D Ø13-Ø29 Foret à Plaquettes 2D Ø13-Ø29 | 610 |
|  | QUAD^DRILL Indexable Drill 2D Ø30-Ø50 Foret à Plaquettes 2D Ø30-Ø50 | 612 |
|  | QUAD^DRILL Indexable Drill 3D Ø12,5-Ø27,5 Foret à Plaquettes 3D Ø12,5-Ø27,5 | 614 |
|  | QUAD^DRILL Indexable Drill 3D Ø28-Ø50,5 Foret à Plaquettes 3D Ø28-Ø50,5 | 616 |
|  | QUAD^DRILL Indexable drill 3D Ø51 - Ø60 Foret à Plaquettes 3D Ø51 - Ø60 | 618 |
|  | QUAD^DRILL Indexable Drill 4D Ø13-Ø29 Foret à Plaquettes 4D Ø13-Ø29 | 620 |
|  | QUAD^DRILL Indexable 4D Ø30-Ø50 Foret à Plaquettes 4D Ø30-Ø50 | 622 |

Subject to printing error or technical changes. / Sous réserve d'erreurs d'impression ou de modifications techniques.



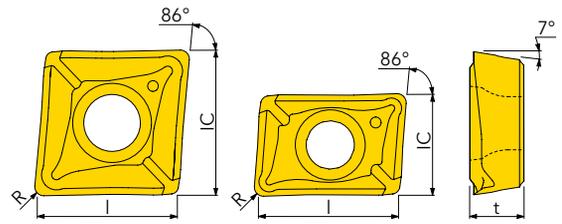
T-CAP INSERT
T-CAP PLAQUETTES ALU



| Designation Réf. de l'article | l | t | R | IC | Grade Nuance | K10 |
|----------------------------------|------|------|-----|------|-----------------|-----|
| XCGT 040104L TA | 6,4 | 1,70 | 0,4 | 4,4 | | ● |
| XCGT 040104R TA | 6,4 | 1,70 | 0,4 | 4,4 | | ● |
| XCGT 050204 TA | 5,6 | 2,10 | 0,4 | 5,6 | | ● |
| XCGT 060204 TA | 6,4 | 2,38 | 0,4 | 6,4 | | ● |
| XCGT 070304 TA | 7,5 | 3,18 | 0,4 | 7,5 | | ● |
| XCGT 080304 TA | 8,4 | 3,18 | 0,4 | 8,4 | | ● |
| XCGT 10T304 TA | 10,5 | 3,97 | 0,4 | 10,5 | | ● |
| XCGT 130404 TA | 13,4 | 4,76 | 0,4 | 13,4 | | ● |
| XCGT 170508 TA | 17,5 | 5,56 | 0,8 | 17,5 | | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

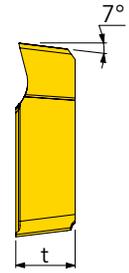
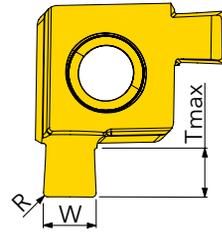
T-CAP INSERT
T-CAP PLAQUETTES



| Designation Réf. de l'article | l | t | R | IC | Grade Nuance | TT9080 | TT8020 |
|----------------------------------|------|------|-----|------|-----------------|--------|--------|
| XCMT 040104L TC | 6,4 | 1,70 | 0,4 | 4,4 | | ● | ● |
| XCMT 040104R TC | 6,4 | 1,70 | 0,4 | 4,4 | | ● | ● |
| XCMT 050204 TC | 5,6 | 2,10 | 0,4 | 5,6 | | ● | ● |
| XCMT 060204 TC | 6,4 | 2,38 | 0,4 | 6,4 | | ● | ● |
| XCMT 070304 TC | 7,5 | 3,18 | 0,4 | 7,5 | | ● | ● |
| XCMT 080304 TC | 8,4 | 3,18 | 0,4 | 8,4 | | ● | ● |
| XCMT 10T304 TC | 10,5 | 3,97 | 0,4 | 10,5 | | ● | ● |
| XCMT 10T308 TC | 10,5 | 3,97 | 0,8 | 10,5 | | ● | ● |
| XCMT 130404 TC | 13,4 | 4,76 | 0,4 | 13,4 | | ● | ● |
| XCMT 130408 TC | 13,4 | 4,76 | 0,8 | 13,4 | | ● | ● |
| XCMT 170508 TC | 17,4 | 5,56 | 0,8 | 17,4 | | ● | ● |

● = P ● = M ● = K ● = N ● = S ○ = H

T-CAP INSERT
T-CAP PLAQUETTES A GORGES

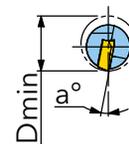
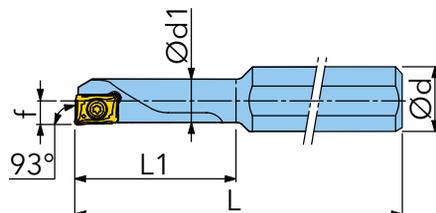
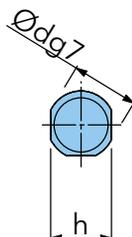


| Designation Réf. de l'article | t | R | Tmax | w | Grade Nuance | | |
|----------------------------------|------|-----|------|------|-----------------|--------|--|
| | | | | | TT9080 | TT8020 | |
| XCMT 05R-200020GV | 2,28 | 0,2 | 1,8 | 2,00 | | | |
| XCMT 06R-200020GV | 2,65 | 0,2 | 2,0 | 2,00 | | | |
| XCMT 07R-250020GV | 3,41 | 0,2 | 2,0 | 2,50 | | | |
| XCMT 08R-250020GV | 3,50 | 0,2 | 2,5 | 2,50 | | | |
| XCMT 10R-300030GV | 4,34 | 0,3 | 3,0 | 3,00 | | | |
| XCMT 13R-350030GV | 5,18 | 0,3 | 3,5 | 3,50 | | | |
| XCMT 17R-400040GV | 6,00 | 0,4 | 4,0 | 4,00 | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



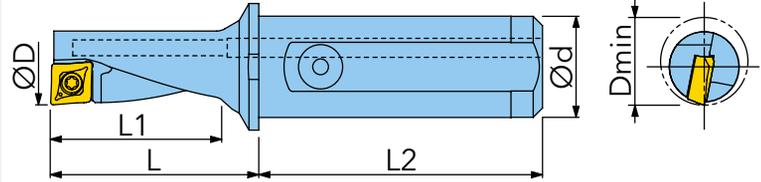
BORING BAR WITH T-CAP INSERT
BARRE D'ALEPAGE AVEC PLAQUETTES T-CAP



| Designation Réf. de l'article | D min. | d | d1 | L | L1 | f | a | h | Insert-S | kg | ① | ② |
|----------------------------------|--------|----|-----|-----|----|-----|----|---|----------|-------|----------------|-----|
| S10H SXUCL 04-06 | 6 | 10 | 5,4 | 100 | 20 | 3,0 | 9 | 9 | 0401_ | 0,050 | TS 18034I/HG | T 6 |
| S10H SXUCR 04-06 | 6 | 10 | 5,4 | 100 | 20 | 3,0 | 9 | 9 | 0401_ | 0,050 | TS 18034I/HG | T 6 |
| S10J SXUCL 04-07 | 7 | 10 | 6,4 | 110 | 23 | 3,5 | 5° | 9 | 0401_ | 0,055 | TS 18034I/HG | T 6 |
| S10J SXUCR 04-07 | 7 | 10 | 6,4 | 110 | 23 | 3,5 | 5° | 9 | 0401_ | 0,055 | TS 18034I/HG | T 6 |
| S10J SXUCL 04-08 | 8 | 10 | 7,4 | 110 | 27 | 4,0 | 2° | 9 | 0401_ | 0,055 | TS 18034I/HG | T 6 |
| S10J SXUCR 04-08 | 8 | 10 | 7,4 | 110 | 27 | 4,0 | 2° | 9 | 0401_ | 0,055 | TS 18034I/HG | T 6 |
| S10K SXUCL 05-10 | 10 | 10 | 9,0 | 125 | 34 | 5,0 | 2° | 9 | 0502_ | 0,065 | TS 20038I/HG-P | T 6 |
| S10K SXUCR 05-10 | 10 | 10 | 9,0 | 125 | 34 | 5,0 | 2° | 9 | 0502_ | 0,065 | TS 20038I/HG-P | T 6 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

MULTIFUNCTION TOOLHOLDER 2,25XD
PORTE-OUTIL MULTI-FONCTIONS 2,25XD, (PERÇAGE - CHARRIOTAGE - DRESSAGE & ALÉSAGE)

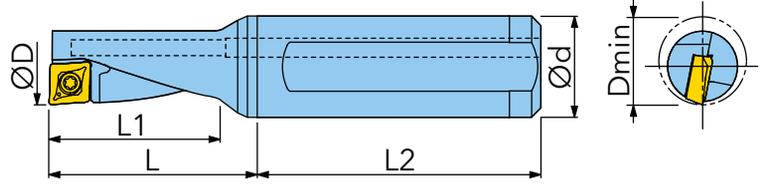


| Designation Réf. de l'article | D | D min. | d | L | L1 | L2 | Insert-S | kg | IK | ① | ② |
|----------------------------------|----|--------|----|------|------|----|----------|-------|----|-----------------|--------|
| TCAP 08L-2.25DN | 8 | 12,0 | 10 | 22,5 | 18,0 | 42 | 04_ | 0,040 | ✓ | TS 18034I/HG-P | T 6P |
| TCAP 08R-2.25DN | 8 | 12,0 | 10 | 22,5 | 18,0 | 42 | 04_ | 0,040 | ✓ | TS 18034I/HG-P | T 6P |
| TCAP 10L-2.25DN-GV | 10 | 12,0 | 12 | 27,5 | 22,5 | 42 | 05_ | 0,040 | ✓ | TS 20038I/HG-P | T 6P |
| TCAP 10R-2.25DN-GV | 10 | 12,0 | 12 | 27,5 | 22,5 | 42 | 05_ | 0,040 | ✓ | TS 20038I/HG-P | T 6P |
| TCAP 12L-2.25DN-GV | 12 | 14,5 | 16 | 33,0 | 27,0 | 45 | 06_ | 0,070 | ✓ | TS 22052I/HG-P | T 7P |
| TCAP 12R-2.25DN-GV | 12 | 14,5 | 16 | 33,0 | 27,0 | 45 | 06_ | 0,070 | ✓ | TS 22052I/HG-P | T 7P |
| TCAP 14L-2.25DN-GV | 14 | 16,5 | 16 | 38,5 | 31,5 | 45 | 07_ | 0,080 | ✓ | SM25-064-01 | T 8P |
| TCAP 14R-2.25DN-GV | 14 | 16,5 | 16 | 38,5 | 31,5 | 45 | 07_ | 0,100 | ✓ | SM25-064-01 | T 8P |
| TCAP 16L-2.25DN-GV | 16 | 19,0 | 20 | 44,0 | 36,0 | 50 | 08_ | 0,150 | ✓ | TS 30100I/HG-P | TD 9P |
| TCAP 16R-2.25DN-GV | 16 | 19,0 | 20 | 44,0 | 36,0 | 50 | 08_ | 0,140 | ✓ | TS 30100I/HG-P | TD 9P |
| TCAP 20L-2.25DN-GV | 20 | 23,5 | 25 | 55,0 | 45,0 | 56 | 10_ | 0,260 | ✓ | TS 35088I/HG-P | TD 10P |
| TCAP 20R-2.25DN-GV | 20 | 23,5 | 25 | 55,0 | 45,0 | 56 | 10_ | 0,260 | ✓ | TS 35088I/HG-P | TD 10P |
| TCAP 25L-2.25DN-GV | 25 | 29,0 | 32 | 69,0 | 57,0 | 61 | 13_ | 0,540 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 25R-2.25DN-GV | 25 | 29,0 | 32 | 69,0 | 57,0 | 61 | 13_ | 0,540 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 32L-2.25DN-GV | 32 | 36,5 | 40 | 86,0 | 72,0 | 74 | 17_ | 1,070 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 32R-2.25DN-GV | 32 | 36,5 | 40 | 86,0 | 72,0 | 74 | 17_ | 1,070 | ✓ | TS 45A100I/HG-P | TD 20 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage



MULTIFUNCTION TOOLHOLDER 3XD
PORTE-OUTIL MULTI-FONCTIONS 3XD, (PERÇAGE - CHARRIOTAGE - DRESSAGE & ALÉSAGE)

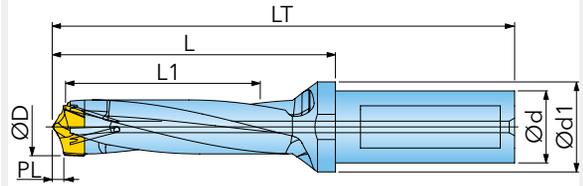


| Designation Réf. de l'article | D | D min. | d | L | L1 | L2 | Insert-S | kg | IK | ① | ② |
|----------------------------------|----|--------|----|-------|----|------|----------|-------|----|-----------------|--------|
| TCAP 08L-3.ODN12 | 8 | 12,0 | 12 | 29,2 | 24 | 50,8 | 04_ | 0,100 | ✓ | TS 18034I/HG-P | T6P |
| TCAP 08R-3.ODN12 | 8 | 12,0 | 12 | 29,2 | 24 | 50,8 | 04_ | 0,100 | ✓ | TS 18034I/HG-P | T6P |
| TCAP 10L-3.ODN-GV | 10 | 12,0 | 12 | 33,9 | 30 | 51,1 | 05_ | 0,100 | ✓ | TS 20038I/HG-P | T6P |
| TCAP 10R-3.ODN-GV | 10 | 12,0 | 12 | 33,9 | 30 | 51,1 | 05_ | 0,100 | ✓ | TS 20038I/HG-P | T6P |
| TCAP 12L-3.ODN-GV | 12 | 14,5 | 16 | 40,2 | 36 | 52,4 | 06_ | 0,100 | ✓ | TS 22052I/HG-P | T7P |
| TCAP 12R-3.ODN-GV | 12 | 14,5 | 16 | 40,2 | 36 | 52,4 | 06_ | 0,310 | ✓ | TS 22052I/HG-P | T7P |
| TCAP 14L-3.ODN-GV | 14 | 16,5 | 16 | 47,6 | 42 | 54,8 | 07_ | 0,200 | ✓ | TS 25064I/HG-P | T8P |
| TCAP 14R-3.ODN-GV | 14 | 16,5 | 16 | 47,6 | 42 | 54,8 | 07_ | 0,210 | ✓ | TS 25064I/HG-P | T8P |
| TCAP 16L-3.ODN-GV | 16 | 19,0 | 20 | 54,2 | 48 | 55,8 | 08_ | 0,360 | ✓ | TS 30100I/HG-P | TD 9P |
| TCAP 16R-3.ODN-GV | 16 | 19,0 | 20 | 54,2 | 48 | 55,8 | 08_ | 0,370 | ✓ | TS 30100I/HG-P | TD 9P |
| TCAP 20L-3.ODN-GV | 20 | 23,5 | 25 | 67,8 | 60 | 62,6 | 10_ | 0,690 | ✓ | TS 35088I/HG-P | TD 10P |
| TCAP 20R-3.ODN-GV | 20 | 23,5 | 25 | 67,8 | 60 | 62,6 | 10_ | 0,690 | ✓ | TS 35088I/HG-P | TD 10P |
| TCAP 25L-3.ODN-GV | 25 | 29,0 | 32 | 88,0 | 75 | 62,0 | 13_ | 0,820 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 25R-3.ODN-GV | 25 | 29,0 | 32 | 88,0 | 75 | 62,0 | 13_ | 0,820 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 32L-3.ODN-GV | 32 | 36,5 | 40 | 110,0 | 96 | 75,0 | 17_ | 1,700 | ✓ | TS 45A100I/HG-P | TD 20 |
| TCAP 32R-3.ODN-GV | 32 | 36,5 | 40 | 110,0 | 96 | 75,0 | 17_ | 1,710 | ✓ | TS 45A100I/HG-P | TD 20 |

① = Insert screw / Vis de serrage plaquette ② = Wrench / Clé de serrage

TWIST SPEED HEAD CHANGEABLE DRILL 3D Ø12,0-Ø25,9 Z=3 (B)
 FORET À EMBOUT 3D Ø12,0-Ø25,9 Z=3 (B)

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B

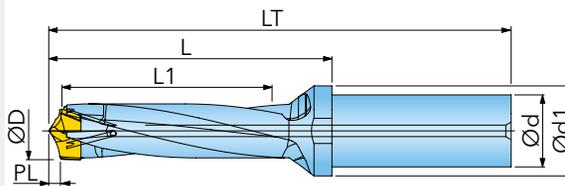


| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | | |
|----------------------------------|------|--------|--------|----|----|-------|-------|------|------|---|----|----------|---|-------|
| FD1200036JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1250038JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1400042JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,170 |
| FD1450044JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,210 |
| FD1600048JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,260 |
| FD1800054JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,380 |
| FD1900057JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,390 |
| FD2000060JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,420 |
| FD2100063JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,385 |
| FD2200066JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,450 |
| FD2300069JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,540 |
| FD2400072JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,675 |
| FD2500075JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,710 |



TWIST SPEED HEAD CHANGEABLE DRILL 3D Ø12,0-Ø25,9 Z=3 (A)
 FORET À EMBOUT 3D Ø12,0-Ø25,9 Z=3 (A)

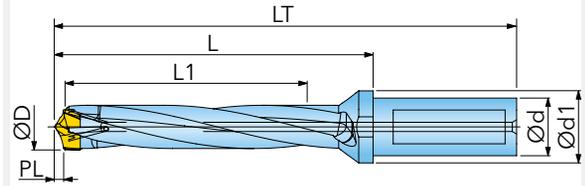
ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT COMPATIBLE DIN 1835 A



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | IK | kg |
|----------------------------------|------|--------|--------|----|----|-------|-------|------|------|---|----|----------|----|-------|
| FD1200036T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,175 |
| FD1250038T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,175 |
| FD1400042T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,018 |
| FD1450044T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,170 |
| FD1600048T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,265 |
| FD1800054T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,385 |
| FD1900057T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,400 |
| FD2000060T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,430 |
| FD2100063T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,455 |
| FD2200066T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,440 |
| FD2300069U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,710 |
| FD2400072U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,695 |
| FD2500075U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,750 |

TWIST SPEED HEAD CHANGEABLE DRILL 5D Ø12,0-Ø25,9 Z=3 (B)
FORET À EMBOUT 5D Ø12,0-Ø25,9 Z=3 (B)

ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B

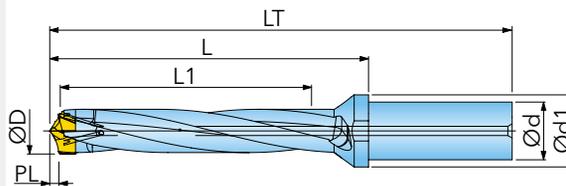


| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | | |
|----------------------------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|---|-------|
| FD1200060JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1250063JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1300065JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,190 |
| FD1450073JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1500075JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,250 |
| FD1600080JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700085JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,285 |
| FD1800090JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,425 |
| FD2000100JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,460 |
| FD2100105JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,490 |
| FD2200110JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,750 |
| FD2300115JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,765 |
| FD2400120JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,775 |
| FD2500125JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,815 |



TWIST SPEED HEAD CHANGEABLE DRILL 5D Ø12,0-Ø25,9 Z=3 (A)
 FORET À EMBOUT 5D Ø12,0-Ø25,9 Z=3 (A)

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT COMPATIBLE DIN 1835 A

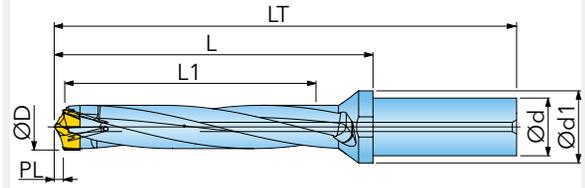


| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | IK | kg |
|----------------------------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|----|-------|
| FD1200060T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,140 |
| FD1250063T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300065T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,155 |
| FD1450073T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,195 |
| FD1500075T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,260 |
| FD1600080T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,350 |
| FD1700085T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,290 |
| FD1800090T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,435 |
| FD2000100T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,415 |
| FD2100105T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,505 |
| FD2200110T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,475 |
| FD2300115U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,750 |
| FD2400120U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,795 |
| FD2500125U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,780 |



TWIST SPEED HEAD CHANGEABLE DRILL 8D Ø12,0-Ø25,9 Z=3 (A)
 FORET À EMBOUT 8D Ø12,0-Ø25,9 Z=3 (A)

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT COMPATIBLE DIN 1835 A

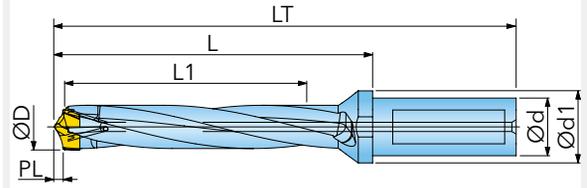


| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | | |
|----------------------------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|---|-------|
| FD1200096T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1250100T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,195 |
| FD1350108T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1450116T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,280 |
| FD1600128T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,430 |
| FD1700136T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,470 |
| FD1900152T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,500 |
| FD2000160T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,560 |
| FD2100168T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,560 |
| FD2200176T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |



TWIST SPEED HEAD CHANGEABLE DRILL 8D Ø12,0-Ø25,9 Z=3 (B)
 FORET À EMBOUT 8D Ø12,0-Ø25,9 Z=3 (B)

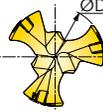
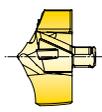
ADAPTION ACC. TO DIN 1835 B
 ATTACHEMENT COMPATIBLE DIN 1835 B



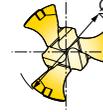
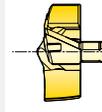
| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Ps | Key | IK | kg |
|----------------------------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|----------|----|-------|
| FD1200096JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,185 |
| FD1250100JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,135 |
| FD1350108JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,205 |
| FD1450116JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,275 |
| FD1600128JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,315 |
| FD1700136JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,465 |
| FD1900152JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,495 |
| FD2000160JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,530 |
| FD2100168JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,555 |
| FD2200176JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |

BORING HEADS FOR TWISTFEED
EMBOUS DE PERÇAGE POUR TWISTFEED

Steel / Cast / Acier / Fonte



Flat Bottom / Fond Plat



| Designation / Réf. de l'article | | | |
|---------------------------------|------------------------------|-------------------------|----------------|
| D | Steel / Cast / Acier / Fonte | Flat Bottom / Fond Plat | Grade / Nuance |
| 12,0 | FPC1200R01 | FPF1200R01 | IN 2205 |
| 12,1 | FPC1210R01 | | IN 2205 |
| 12,2 | FPC1220R01 | | IN 2205 |
| 12,3 | FPC1230R01 | | IN 2205 |
| 12,4 | FPC1240R01 | | IN 2205 |
| 12,5 | FPC1250R01 | FPF1250R01 | IN 2205 |
| 12,6 | FPC1260R01 | | IN 2205 |
| 12,7 | FPC1270R01 | | IN 2205 |
| 12,8 | FPC1280R01 | | IN 2205 |
| 12,9 | FPC1290R01 | | IN 2205 |
| 13,0 | FPC1300R01 | FPF1300R01 | IN 2205 |
| 13,1 | FPC1310R01 | | IN 2205 |
| 13,2 | FPC1320R01 | | IN 2205 |
| 13,3 | FPC1330R01 | | IN 2205 |
| 13,4 | FPC1340R01 | | IN 2205 |
| 13,5 | FPC1350R01 | FPF1350R01 | IN 2205 |
| 13,6 | FPC1360R01 | | IN 2205 |
| 13,7 | FPC1370R01 | | IN 2205 |
| 13,8 | FPC1380R01 | | IN 2205 |
| 13,9 | FPC1390R01 | | IN 2205 |
| 14,0 | FPC1400R01 | FPF1400R01 | IN 2205 |
| 14,1 | FPC1410R01 | | IN 2205 |
| 14,2 | FPC1420R01 | | IN 2205 |
| 14,3 | FPC1430R01 | | IN 2205 |
| 14,4 | FPC1440R01 | | IN 2205 |
| 14,5 | FPC1450R01 | FPF1450R01 | IN 2205 |
| 14,6 | FPC1460R01 | | IN 2205 |
| 14,7 | FPC1470R01 | | IN 2205 |
| 14,8 | FPC1480R01 | | IN 2205 |
| 14,9 | FPC1490R01 | | IN 2205 |
| 15,0 | FPC1500R01 | FPF1500R01 | IN 2205 |
| 15,1 | FPC1510R01 | | IN 2205 |
| 15,2 | FPC1520R01 | | IN 2205 |
| 15,3 | FPC1530R01 | | IN 2205 |
| 15,4 | FPC1540R01 | | IN 2205 |
| 15,5 | FPC1550R01 | FPF1550R01 | IN 2205 |
| 15,6 | FPC1560R01 | | IN 2205 |
| 15,7 | FPC1570R01 | | IN 2205 |
| 15,8 | FPC1580R01 | | IN 2205 |
| 15,9 | FPC1590R01 | | IN 2205 |
| 16,0 | FPC1600R01 | FPF1600R01 | IN 2205 |
| 16,1 | FPC1610R01 | | IN 2205 |
| 16,2 | FPC1620R01 | | IN 2205 |
| 16,3 | FPC1630R01 | | IN 2205 |
| 16,4 | FPC1640R01 | | IN 2205 |
| 16,5 | FPC1650R01 | FPF1650R01 | IN 2205 |

| Designation / Réf. de l'article | | | |
|---------------------------------|------------------------------|-------------------------|----------------|
| D | Steel / Cast / Acier / Fonte | Flat Bottom / Fond Plat | Grade / Nuance |
| 16,6 | FPC1660R01 | | IN 2205 |
| 16,7 | FPC1670R01 | | IN 2205 |
| 16,8 | FPC1680R01 | | IN 2205 |
| 16,9 | FPC1690R01 | | IN 2205 |
| 17,0 | FPC1700R01 | FPF1700R01 | IN 2205 |
| 17,1 | FPC1710R01 | | IN 2205 |
| 17,2 | FPC1720R01 | | IN 2205 |
| 17,3 | FPC1730R01 | | IN 2205 |
| 17,4 | FPC1740R01 | | IN 2205 |
| 17,5 | FPC1750R01 | FPF1750R01 | IN 2205 |
| 17,6 | FPC1760R01 | | IN 2205 |
| 17,7 | FPC1770R01 | | IN 2205 |
| 17,8 | FPC1780R01 | | IN 2205 |
| 17,9 | FPC1790R01 | | IN 2205 |
| 18,0 | FPC1800R01 | FPF1800R01 | IN 2205 |
| 18,1 | FPC1810R01 | | IN 2205 |
| 18,2 | FPC1820R01 | | IN 2205 |
| 18,3 | FPC1830R01 | | IN 2205 |
| 18,4 | FPC1840R01 | | IN 2205 |
| 18,5 | FPC1850R01 | FPF1850R01 | IN 2205 |
| 18,6 | FPC1860R01 | | IN 2205 |
| 18,7 | FPC1870R01 | | IN 2205 |
| 18,8 | FPC1880R01 | | IN 2205 |
| 18,9 | FPC1890R01 | | IN 2205 |
| 19,0 | FPC1900R01 | FPF1900R01 | IN 2205 |
| 19,1 | FPC1910R01 | | IN 2205 |
| 19,2 | FPC1920R01 | | IN 2205 |
| 19,3 | FPC1930R01 | | IN 2205 |
| 19,4 | FPC1940R01 | | IN 2205 |
| 19,5 | FPC1950R01 | FPF1950R01 | IN 2205 |
| 19,6 | FPC1960R01 | | IN 2205 |
| 19,7 | FPC1970R01 | | IN 2205 |
| 19,8 | FPC1980R01 | | IN 2205 |
| 19,9 | FPC1990R01 | | IN 2205 |
| 20,0 | FPC2000R01 | FPF2000R01 | IN 2205 |
| 20,1 | FPC2010R01 | | IN 2205 |
| 20,2 | FPC2020R01 | | IN 2205 |
| 20,3 | FPC2030R01 | | IN 2205 |
| 20,4 | FPC2040R01 | | IN 2205 |
| 20,5 | FPC2050R01 | FPF2050R01 | IN 2205 |
| 20,6 | FPC2060R01 | | IN 2205 |
| 20,7 | FPC2070R01 | | IN 2205 |
| 20,8 | FPC2080R01 | | IN 2205 |
| 20,9 | FPC2090R01 | | IN 2205 |
| 21,0 | FPC2100R01 | FPF2100R01 | IN 2205 |
| 21,5 | FPC2150R01 | FPF2150R01 | IN 2205 |



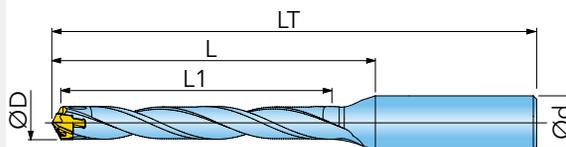
**BORING HEADS FOR TWISTSPEED
EMBOUTS DE PERÇAGE POUR TWISTSPEED**

| Designation / Réf. de l'article | | | | Designation / Réf. de l'article | | | |
|---------------------------------|------------------------------|-------------------------|----------------|---------------------------------|------------------------------|-------------------------|----------------|
| D | Steel / Cast / Acier / Fonte | Flat Bottom / Fond Plat | Grade / Nuance | D | Steel / Cast / Acier / Fonte | Flat Bottom / Fond Plat | Grade / Nuance |
| 22,0 | FPC2200R01 | FPF2200R01 | IN 2205 | 24,0 | FPC2400R01 | FPF2400R01 | IN 2205 |
| 22,5 | FPC2250R01 | FPF2250R01 | IN 2205 | 24,5 | FPC2450R01 | FPF2450R01 | IN 2205 |
| 23,0 | FPC2300R01 | FPF2300R01 | IN 2205 | 25,0 | FPC2500R01 | FPF2500R01 | IN 2205 |
| 23,5 | FPC2350R01 | FPF2350R01 | IN 2205 | 25,5 | FPC2550R01 | FPF2550R01 | IN 2205 |



GOLDTWIST HEAD CHANGEABLE DRILL 3D Ø4,0-Ø5,9 (A)
 FORET A EMBOUT 3D Ø4,0-Ø5,9 (A)

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT COMPATIBLE DIN 1835 A

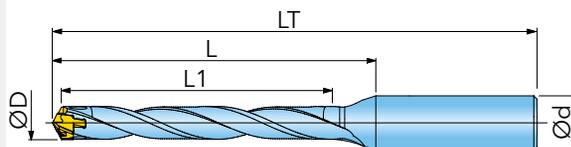


| Designation Réf. de l'article | D min. | D max. | d | LT | L | L1 | Z | Ps | Key | | |
|----------------------------------|--------|--------|---|------|------|----|---|-----|------------|---|------|
| TD0400012T7R00 | 4,0 | 4,4 | 6 | 57,7 | 22,7 | 13 | 2 | 4 | KTD4.0-4.9 | ✓ | 0,02 |
| TD0450014T7R00 | 4,5 | 4,9 | 6 | 59,7 | 24,7 | 14 | 2 | 4,5 | KTD4.0-4.9 | ✓ | 0,02 |
| TD0500015T7R00 | 5,0 | 5,4 | 6 | 61,3 | 26,3 | 16 | 2 | 5 | KTD5.0-5.9 | ✓ | 0,02 |
| TD0550017T7R00 | 5,5 | 5,9 | 6 | 63,2 | 28,2 | 17 | 2 | 5,5 | KTD5.0-5.9 | ✓ | 0,02 |



GOLDTWIST HEAD CHANGEABLE DRILL 5D Ø4,0-Ø5,9 (A)
 FORET À EMBOUT 5D Ø4,0-Ø5,9 (A)

ADAPTION ACC. TO DIN 1835 A
 ATTACHEMENT DIN 1835 A

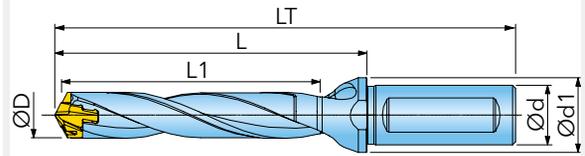


| Designation Réf. de l'article | D min. | D max. | d | LT | L | L1 | Z | Ps | Key | | |
|----------------------------------|--------|--------|---|------|------|----|---|-----|------------|---|------|
| TD0400020T7R00 | 4,0 | 4,4 | 6 | 65,7 | 30,7 | 21 | 2 | 4 | KTD4.0-4.9 | ✓ | 0,03 |
| TD0450023T7R00 | 4,5 | 4,9 | 6 | 68,7 | 33,7 | 23 | 2 | 4,5 | KTD4.0-4.9 | ✓ | 0,03 |
| TD0500025T7R00 | 5,0 | 5,4 | 6 | 71,3 | 36,3 | 26 | 2 | 5 | KTD5.0-5.9 | ✓ | 0,03 |
| TD0550028T7R00 | 5,5 | 5,9 | 6 | 74,2 | 39,2 | 28 | 2 | 5,5 | KTD5.0-5.9 | ✓ | 0,03 |



GOLD TWIST HEAD CHANGEABLE DRILL 1,5D Ø6,0-Ø25,9
FORET A EMBOUT 1,5D Ø6,0-Ø25,9

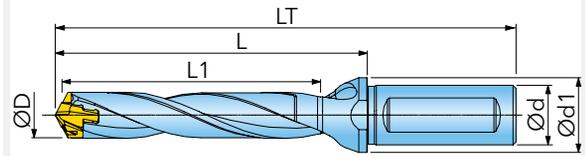
ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | Key | IK | kg |
|----------------------------------|--------|--------|----|----|-------|------|------|---|-----|--------------|----|------|
| TD0600009JCR00 | 6,0 | 6,4 | 12 | 16 | 68 | 23,0 | 9 | 2 | 6 | KTD6.0-9.9 | ✓ | 0,02 |
| TD0650010JCR00 | 6,5 | 6,9 | 12 | 16 | 69,1 | 24,1 | 10 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,02 |
| TD0700011JCR00 | 7,0 | 7,4 | 12 | 16 | 70,1 | 25,1 | 11 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,03 |
| TD0750011JCR00 | 7,5 | 7,9 | 12 | 16 | 70,9 | 25,9 | 11,3 | 2 | 7,5 | KTD6.0-9.9 | ✓ | 0,03 |
| TD0800012JCR00 | 8,0 | 8,9 | 12 | 16 | 72,4 | 27,4 | 12 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,04 |
| TD0900014JCR00 | 9,0 | 9,9 | 12 | 16 | 74,3 | 29,3 | 14 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,05 |
| TD1000015JDR00 | 10,0 | 10,9 | 16 | 20 | 79,2 | 31,2 | 15 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,08 |
| TD1100017JDR00 | 11,0 | 11,9 | 16 | 20 | 81,1 | 33,1 | 17 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,09 |
| TD1200018JDR00 | 12,0 | 12,9 | 16 | 20 | 83 | 35,0 | 18 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,10 |
| TD1300020JDR00 | 13,0 | 13,9 | 16 | 20 | 85,1 | 37,1 | 20 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1400021JDR00 | 14,0 | 14,9 | 16 | 20 | 89,1 | 41,1 | 21 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1500023JER00 | 15,0 | 15,9 | 20 | 25 | 96,2 | 46,2 | 23 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1600024JER00 | 16,0 | 16,9 | 20 | 25 | 99,3 | 49,3 | 24 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,16 |
| TD1700026JER00 | 17,0 | 17,9 | 20 | 25 | 102,4 | 52,4 | 26 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,17 |
| TD1800027JFR00 | 18,0 | 18,9 | 25 | 32 | 111,5 | 55,5 | 27 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,28 |
| TD1900029JFR00 | 19,0 | 19,9 | 25 | 32 | 114,5 | 58,5 | 29 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,30 |
| TD2000030JFR00 | 20,0 | 20,9 | 25 | 32 | 117,6 | 61,6 | 30 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,31 |
| TD2100032JFR00 | 21,0 | 21,9 | 25 | 32 | 120,7 | 64,7 | 32 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,32 |
| TD2200033JFR00 | 22,0 | 22,9 | 25 | 32 | 123,8 | 67,8 | 33 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,34 |
| TD2300035JGR00 | 23,0 | 23,9 | 32 | 42 | 130,8 | 70,8 | 35 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,42 |
| TD2400036JGR00 | 24,0 | 24,9 | 32 | 42 | 133,9 | 73,9 | 36 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,46 |
| TD2500038JGR00 | 25,0 | 25,9 | 32 | 42 | 137 | 77,0 | 38 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,50 |

GOLD TWIST HEAD CHANGEABLE DRILL 3D Ø6,0-Ø25,9
FORET À EMBOUT 3D Ø6,0-Ø25,9

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B

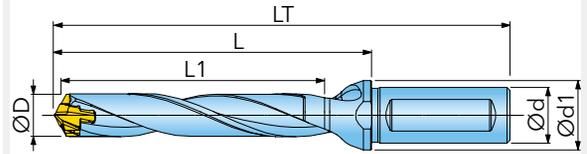


| Designation Réf. de l'article | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | Key | | |
|----------------------------------|--------|--------|----|----|-------|-------|----|---|------|--------------|---|------|
| TD0600018JCR00 | 6,0 | 6,4 | 12 | 16 | 77 | 32,0 | 18 | 2 | 6 | KTD6.0-9.9 | ✓ | 0,03 |
| TD0650020JCR00 | 6,5 | 6,9 | 12 | 16 | 78,8 | 33,8 | 20 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,03 |
| TD0700021JCR00 | 7,0 | 7,4 | 12 | 16 | 80,6 | 35,6 | 21 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,04 |
| TD0750023JCR00 | 7,5 | 7,9 | 12 | 16 | 82,1 | 37,1 | 23 | 2 | 7,5 | KTD6.0-9.9 | ✓ | 0,04 |
| TD0800024JCR00 | 8,0 | 8,4 | 12 | 16 | 84,4 | 39,4 | 24 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0850026JCR00 | 8,5 | 8,9 | 12 | 16 | 85,9 | 40,9 | 26 | 2 | 8,5 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0900027JCR00 | 9,0 | 9,4 | 12 | 16 | 87,8 | 42,8 | 27 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0950029JCR00 | 9,5 | 9,9 | 12 | 16 | 89,3 | 44,3 | 29 | 2 | 9,5 | KTD6.0-9.9 | ✓ | 0,06 |
| TD1000030JDR00 | 10,0 | 10,4 | 16 | 20 | 94,2 | 46,2 | 30 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,09 |
| TD1050032JDR00 | 10,5 | 10,9 | 16 | 20 | 95,7 | 47,7 | 32 | 2 | 10,5 | KTD10.0-19.9 | ✓ | 0,10 |
| TD1100033JDR00 | 11,0 | 11,4 | 16 | 20 | 97,6 | 49,6 | 33 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,10 |
| TD1150035JDR00 | 11,5 | 11,9 | 16 | 20 | 99,1 | 51,1 | 35 | 2 | 11,5 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1200036JDR00 | 12,0 | 12,4 | 16 | 20 | 101 | 53,0 | 36 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1250037JDR00 | 12,5 | 12,9 | 16 | 20 | 102,5 | 54,5 | 37 | 2 | 12,5 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1300039JDR00 | 13,0 | 13,4 | 16 | 20 | 104,6 | 56,6 | 39 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1350041JDR00 | 13,5 | 13,9 | 16 | 20 | 106,1 | 58,1 | 41 | 2 | 13,5 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1400042JDR00 | 14,0 | 14,4 | 16 | 20 | 110,2 | 62,2 | 42 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1450044JDR00 | 14,5 | 14,9 | 16 | 20 | 111,7 | 63,7 | 44 | 2 | 14,5 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1500045JER00 | 15,0 | 15,9 | 20 | 25 | 118,7 | 68,7 | 45 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,18 |
| TD1600048JER00 | 16,0 | 16,9 | 20 | 25 | 123,3 | 73,3 | 48 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,19 |
| TD1700051JER00 | 17,0 | 17,9 | 20 | 25 | 127,9 | 77,9 | 51 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,20 |
| TD1800054JFR00 | 18,0 | 18,9 | 25 | 32 | 138,5 | 82,5 | 54 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,32 |
| TD1900057JFR00 | 19,0 | 19,9 | 25 | 32 | 143 | 87,0 | 57 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,34 |
| TD2000060JFR00 | 20,0 | 20,9 | 25 | 32 | 147,6 | 91,6 | 60 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,35 |
| TD2100063JFR00 | 21,0 | 21,9 | 25 | 32 | 152,2 | 96,2 | 63 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,36 |
| TD2200066JFR00 | 22,0 | 22,9 | 25 | 32 | 156,8 | 100,8 | 66 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,37 |
| TD2300069JGR00 | 23,0 | 23,9 | 32 | 42 | 165,3 | 105,3 | 69 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,45 |
| TD2400072JGR00 | 24,0 | 24,9 | 32 | 42 | 169,9 | 109,9 | 72 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,49 |
| TD2500075JGR00 | 25,0 | 25,9 | 32 | 42 | 174,5 | 114,5 | 75 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,53 |



GOLD TWIST HEAD CHANGEABLE DRILL 5D Ø6,0-Ø25,9
FORET À EMBOUT 5D Ø6,0-Ø25,9

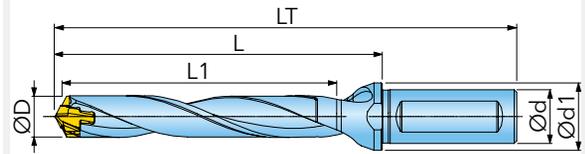
ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | Key | IK | kg |
|----------------------------------|--------|--------|----|----|-------|-------|-----|---|------|--------------|----|------|
| TD0600030JCR00 | 6,0 | 6,4 | 12 | 16 | 89 | 44,0 | 30 | 2 | 6 | KTD6.0-9.9 | ✓ | 0,04 |
| TD0650033JCR00 | 6,5 | 6,9 | 12 | 16 | 91,8 | 46,8 | 33 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,04 |
| TD0700035JCR00 | 7,0 | 7,4 | 12 | 16 | 94,6 | 49,6 | 35 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0750038JCR00 | 7,5 | 7,9 | 12 | 16 | 97,1 | 52,1 | 38 | 2 | 7,5 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0800040JCR00 | 8,0 | 8,4 | 12 | 16 | 100,4 | 55,4 | 40 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0850043JCR00 | 8,5 | 8,9 | 12 | 16 | 102,9 | 57,9 | 43 | 2 | 8,5 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0900045JCR00 | 9,0 | 9,4 | 12 | 16 | 105,8 | 60,8 | 45 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,07 |
| TD0950048JCR00 | 9,5 | 9,9 | 12 | 16 | 108,3 | 63,3 | 48 | 2 | 9,5 | KTD6.0-9.9 | ✓ | 0,07 |
| TD1000050JDR00 | 10,0 | 10,4 | 16 | 20 | 114,2 | 66,2 | 50 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,10 |
| TD1050053JDR00 | 10,5 | 10,9 | 16 | 20 | 116,7 | 68,7 | 53 | 2 | 10,5 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1100055JDR00 | 11,0 | 11,4 | 16 | 20 | 119,6 | 71,6 | 55 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1150058JDR00 | 11,5 | 11,9 | 16 | 20 | 122,1 | 74,1 | 58 | 2 | 11,5 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1200060JDR00 | 12,0 | 12,4 | 16 | 20 | 125 | 77,0 | 60 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1250062JDR00 | 12,5 | 12,9 | 16 | 20 | 127,5 | 79,5 | 62 | 2 | 12,5 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1300065JDR00 | 13,0 | 13,4 | 16 | 20 | 130,6 | 82,6 | 65 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1350068JDR00 | 13,5 | 13,9 | 16 | 20 | 133,1 | 85,1 | 68 | 2 | 13,5 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1400070JDR00 | 14,0 | 14,4 | 16 | 20 | 138,2 | 90,2 | 70 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,14 |
| TD1450073JDR00 | 14,5 | 14,9 | 16 | 20 | 140,7 | 92,7 | 73 | 2 | 14,5 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1500075JER00 | 15,0 | 15,9 | 20 | 25 | 148,7 | 98,7 | 75 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,21 |
| TD1600080JER00 | 16,0 | 16,9 | 20 | 25 | 155,3 | 105,3 | 80 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,22 |
| TD1700085JER00 | 17,0 | 17,9 | 20 | 25 | 161,9 | 111,9 | 85 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,23 |
| TD1800090JFR00 | 18,0 | 18,9 | 25 | 32 | 174,5 | 118,5 | 90 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,36 |
| TD1900095JFR00 | 19,0 | 19,9 | 25 | 32 | 181 | 125,0 | 95 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,38 |
| TD2000100JFR00 | 20,0 | 20,9 | 25 | 32 | 187,6 | 131,6 | 100 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,39 |
| TD2100105JFR00 | 21,0 | 21,9 | 25 | 32 | 194,2 | 138,2 | 105 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,40 |
| TD2200110JFR00 | 22,0 | 22,9 | 25 | 32 | 200,8 | 144,8 | 110 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,43 |
| TD2300115JGR00 | 23,0 | 23,9 | 32 | 42 | 211,3 | 151,3 | 115 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,56 |
| TD2400120JGR00 | 24,0 | 24,9 | 32 | 42 | 217,9 | 157,9 | 120 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,60 |
| TD2500125JGR00 | 25,0 | 25,9 | 32 | 42 | 224,5 | 164,5 | 125 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,65 |

GOLD TWIST HEAD CHANGEABLE DRILL 8D Ø7,0-Ø25,9
FORET À EMBOUT 8D Ø7,0-Ø25,9

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B

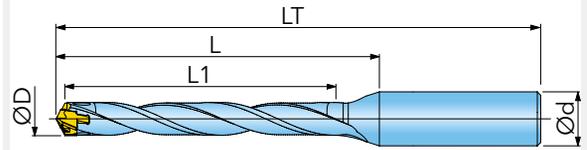


| Designation Réf. de l'article | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | Key | | |
|----------------------------------|--------|--------|----|----|-------|-------|-----|---|------|--------------|---|------|
| TD0700056JCR00 | 7,0 | 7,4 | 12 | 16 | 115,6 | 70,6 | 56 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0750060JCR00 | 7,5 | 7,9 | 12 | 16 | 119,6 | 74,6 | 60 | 2 | 7,5 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0800064JCR00 | 8,0 | 8,4 | 12 | 16 | 124,4 | 79,4 | 64 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,07 |
| TD0850068JCR00 | 8,5 | 8,9 | 12 | 16 | 128,4 | 83,4 | 68 | 2 | 8,5 | KTD6.0-9.9 | ✓ | 0,07 |
| TD0900072JCR00 | 9,0 | 9,4 | 12 | 16 | 132,8 | 87,8 | 72 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,08 |
| TD0950076JCR00 | 9,5 | 9,9 | 12 | 16 | 136,8 | 91,8 | 76 | 2 | 9,5 | KTD6.0-9.9 | ✓ | 0,08 |
| TD1000080JDR00 | 10,0 | 10,4 | 16 | 20 | 144,2 | 96,2 | 80 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1050084JDR00 | 10,5 | 10,9 | 16 | 20 | 148,2 | 100,2 | 84 | 2 | 10,5 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1100088JDR00 | 11,0 | 11,4 | 16 | 20 | 152,6 | 104,6 | 88 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1150092JDR00 | 11,5 | 11,9 | 16 | 20 | 156,6 | 108,6 | 92 | 2 | 11,5 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1200096JDR00 | 12,0 | 12,4 | 16 | 20 | 161 | 113,0 | 96 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1250100JDR00 | 12,5 | 12,9 | 16 | 20 | 165 | 117,0 | 100 | 2 | 12,5 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1300104JDR00 | 13,0 | 13,4 | 16 | 20 | 169,6 | 121,6 | 104 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,14 |
| TD1350108JDR00 | 13,5 | 13,9 | 16 | 20 | 173,6 | 125,6 | 108 | 2 | 13,5 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1400112JDR00 | 14,0 | 14,4 | 16 | 20 | 180,2 | 132,2 | 112 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,16 |
| TD1450116JDR00 | 14,5 | 14,9 | 16 | 20 | 184,2 | 136,2 | 116 | 2 | 14,5 | KTD10.0-19.9 | ✓ | 0,18 |
| TD1500120JER00 | 15,0 | 15,9 | 20 | 25 | 193,7 | 143,7 | 120 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,24 |
| TD1600128JER00 | 16,0 | 16,9 | 20 | 25 | 203,3 | 153,3 | 128 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,26 |
| TD1700136JER00 | 17,0 | 17,9 | 20 | 25 | 212,9 | 162,9 | 136 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,28 |
| TD1800144JFR00 | 18,0 | 18,9 | 25 | 32 | 228,5 | 172,5 | 144 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,42 |
| TD1900152JFR00 | 19,0 | 19,9 | 25 | 32 | 238 | 182,0 | 152 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,45 |
| TD2000160JFR00 | 20,0 | 20,9 | 25 | 32 | 247,6 | 191,6 | 160 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,48 |
| TD2100168JFR00 | 21,0 | 21,9 | 25 | 32 | 257,2 | 201,2 | 168 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,55 |
| TD2200176JFR00 | 22,0 | 22,9 | 25 | 32 | 266,8 | 210,8 | 176 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,61 |
| TD2300184JGR00 | 23,0 | 23,9 | 32 | 42 | 280,3 | 220,3 | 184 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,68 |
| TD2400192JGR00 | 24,0 | 24,9 | 32 | 42 | 290 | 230,0 | 192 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,72 |
| TD2500200JGR00 | 25,0 | 25,9 | 32 | 42 | 299,5 | 239,5 | 200 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,76 |



GOLD TWIST HEAD CHANGEABLE DRILL 8D Ø6,0-Ø25,9 (A)
FORET À EMBOUT 8D Ø6,0-Ø25,9 (A)

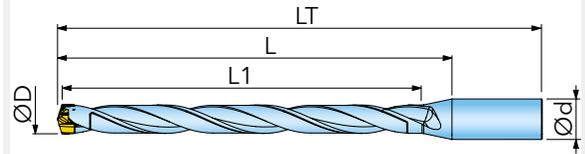
ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT COMPATIBLE DIN 1835 A



| Designation Réf. de l'article | D min. | D max. | d | LT | L | L1 | Z | Ps | Key | IK | kg |
|----------------------------------|--------|--------|----|-------|-------|-----|---|-----|--------------|----|------|
| TD0600048T2R00 | 6,0 | 6,4 | 12 | 107 | 62 | 48 | 2 | 6 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0650052T2R00 | 6,5 | 6,9 | 12 | 111,3 | 66,3 | 52 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,05 |
| TD0700056T2R00 | 7,0 | 7,4 | 12 | 115,6 | 70,6 | 56 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0750060T2R00 | 7,5 | 7,9 | 12 | 119,6 | 74,6 | 60 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,06 |
| TD0800064T2R00 | 8,0 | 8,4 | 12 | 124,4 | 79,4 | 64 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,07 |
| TD0850068T2R00 | 8,5 | 8,9 | 12 | 128,4 | 83,4 | 68 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,07 |
| TD0900072T2R00 | 9,0 | 9,4 | 12 | 132,8 | 87,8 | 72 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,08 |
| TD0950076T2R00 | 9,5 | 9,9 | 12 | 137,7 | 92,7 | 76 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,08 |
| TD1000080T3R00 | 10,0 | 10,4 | 16 | 144,2 | 96,2 | 80 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,11 |
| TD1050084T3R00 | 10,5 | 10,9 | 16 | 148,2 | 100,2 | 84 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1100088T3R00 | 11,0 | 11,4 | 16 | 152,6 | 104,6 | 88 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,12 |
| TD1150092T3R00 | 11,5 | 11,9 | 16 | 156,6 | 108,6 | 92 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1200096T3R00 | 12,0 | 12,4 | 16 | 161 | 113,0 | 96 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1250100T3R00 | 12,5 | 12,9 | 16 | 165 | 117,0 | 100 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,13 |
| TD1300104T3R00 | 13,0 | 13,4 | 16 | 169,6 | 121,6 | 104 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,14 |
| TD1350108T3R00 | 13,5 | 13,9 | 16 | 173,6 | 125,6 | 108 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1400112T3R00 | 14,0 | 14,4 | 16 | 180,1 | 132,1 | 112 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,16 |
| TD1450116T3R00 | 14,5 | 14,9 | 16 | 184,2 | 136,2 | 116 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,18 |
| TD1500120T4R00 | 15,0 | 15,9 | 20 | 193,7 | 143,7 | 120 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,24 |
| TD1600128T4R00 | 16,0 | 16,9 | 20 | 203,3 | 153,3 | 128 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,26 |
| TD1700136T4R00 | 17,0 | 17,9 | 20 | 212,9 | 162,9 | 136 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,28 |
| TD1800144T5R00 | 18,0 | 18,9 | 25 | 228,5 | 172,5 | 144 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,42 |
| TD1900152T5R00 | 19,0 | 19,9 | 25 | 238 | 182,0 | 152 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,45 |
| TD2000160T5R00 | 20,0 | 20,9 | 25 | 247,6 | 191,6 | 160 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,48 |
| TD2100168T5R00 | 21,0 | 21,9 | 25 | 257,2 | 201,2 | 168 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,55 |
| TD2200176T5R00 | 22,0 | 22,9 | 25 | 266,8 | 210,8 | 176 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,61 |
| TD2300184U7R00 | 23,0 | 23,9 | 32 | 280,3 | 220,3 | 184 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,68 |
| TD2400192U7R00 | 24,0 | 24,9 | 32 | 289,9 | 229,9 | 192 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,72 |
| TD2500200U7R00 | 25,0 | 25,9 | 32 | 299,5 | 239,5 | 200 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,76 |

GOLD TWIST HEAD CHANGEABLE DRILL 12D Ø8,0-Ø25,9
FORET À EMBOUT 12D Ø8,0-Ø25,9

ADAPTION ACC. TO DIN 1835 A
ATTACHEMENT COMPATIBLE DIN 1835 A



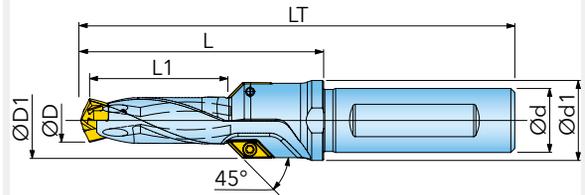
| Designation Réf. de l'article | D min. | D max. | d | LT | L | L1 | Z | Ps | Key | | |
|----------------------------------|--------|--------|----|-------|-------|-----|---|----|--------------|---|------|
| TD0800096T2R00 | 8,0 | 8,4 | 12 | 156,4 | 111,4 | 96 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,08 |
| TD0850102T2R00 | 8,5 | 8,9 | 12 | 162,4 | 117,4 | 102 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,08 |
| TD0900108T2R00 | 9,0 | 9,4 | 12 | 168,8 | 123,8 | 108 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,09 |
| TD0950114T2R00 | 9,5 | 9,9 | 12 | 184,8 | 129,8 | 114 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,09 |
| TD1000120T3R00 | 10,0 | 10,4 | 16 | 184,2 | 136,2 | 120 | 2 | 10 | KTD10.0-19.0 | ✓ | 0,12 |
| TD1050126T3R00 | 10,5 | 10,9 | 16 | 190,2 | 142,2 | 126 | 2 | 10 | KTD10.0-19.0 | ✓ | 0,13 |
| TD1100132T3R00 | 11,0 | 11,4 | 16 | 196,6 | 148,6 | 132 | 2 | 11 | KTD10.0-19.0 | ✓ | 0,13 |
| TD1150138T3R00 | 11,5 | 11,9 | 16 | 202,6 | 154,6 | 138 | 2 | 11 | KTD10.0-19.0 | ✓ | 0,14 |
| TD1200144T3R00 | 12,0 | 12,4 | 16 | 209 | 161,0 | 144 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,14 |
| TD1250150T3R00 | 12,5 | 12,9 | 16 | 215 | 167,0 | 150 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,14 |
| TD1300156T3R00 | 13,0 | 13,4 | 16 | 221,6 | 173,6 | 156 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1350162T3R00 | 13,5 | 13,9 | 16 | 227,6 | 179,6 | 162 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,15 |
| TD1400168T3R00 | 14,0 | 14,4 | 16 | 236,2 | 188,2 | 168 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,17 |
| TD1450174T3R00 | 14,5 | 14,9 | 16 | 242,2 | 194,2 | 174 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,20 |
| TD1500180T4R00 | 15,0 | 15,9 | 20 | 253,7 | 203,7 | 180 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,27 |
| TD1600192T4R00 | 16,0 | 16,9 | 20 | 267,3 | 217,3 | 192 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,30 |
| TD1700204T4R00 | 17,0 | 17,9 | 20 | 280,9 | 230,9 | 204 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,32 |
| TD1800216T5R00 | 18,0 | 18,9 | 25 | 300,6 | 244,6 | 216 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,48 |
| TD1900228T5R00 | 19,0 | 19,9 | 25 | 314 | 258,0 | 228 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,52 |
| TD2000240T5R00 | 20,0 | 20,9 | 25 | 327,6 | 271,6 | 240 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,57 |
| TD2100252T5R00 | 21,0 | 21,9 | 25 | 350 | 285,2 | 252 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,65 |
| TD2200264T5R00 | 22,0 | 22,9 | 25 | 354,8 | 298,8 | 264 | 2 | 22 | KTD20.0-26.9 | ✓ | 0,75 |
| TD2300276U7R00 | 23,0 | 23,9 | 32 | 372,3 | 312,3 | 286 | 2 | 23 | KTD20.0-26.9 | ✓ | 0,82 |
| TD2400288U7R00 | 24,0 | 24,9 | 32 | 385,9 | 325,9 | 288 | 2 | 24 | KTD20.0-26.9 | ✓ | 0,86 |
| TD2500300U7R00 | 25,0 | 25,9 | 32 | 399,5 | 339,5 | 300 | 2 | 25 | KTD20.0-26.9 | ✓ | 0,90 |



GOLD TWIST HEAD CHANGEABLE CHAMFER DRILL

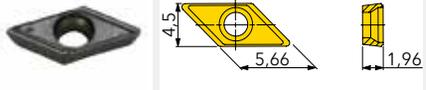
FORET A EMBOUT POUR AVANT TROU DE TARAUDAGE

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | D1 | d | d1 | LT | L | L1 | Z | Ps | Key | IK | kg |
|----------------------------------|--------|--------|------|----|----|-----|----|----|---|-----|--------------|----|------|
| TC0680021JCR01 | 6,5 | 6,9 | 13,5 | 12 | 16 | 90 | 45 | 21 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,06 |
| TC0850026JCR01 | 8,5 | 8,9 | 15,5 | 12 | 16 | 95 | 50 | 26 | 2 | 8,5 | KTD6.0-9.9 | ✓ | 0,07 |
| TC1020030JDR01 | 10,0 | 10,4 | 17 | 16 | 20 | 102 | 54 | 30 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,08 |
| TC1200035JDR01 | 12,0 | 12,4 | 19 | 16 | 20 | 109 | 61 | 35 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,10 |
| TC1400039JER01 | 14,0 | 14,4 | 21 | 20 | 25 | 119 | 69 | 39 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,16 |
| TC1750042JER01 | 17,0 | 17,9 | 24,5 | 20 | 27 | 122 | 72 | 42 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,23 |
| TC2100048JFR01 | 21,0 | 21,9 | 28 | 25 | 32 | 136 | 80 | 48 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,30 |

| KOMT050104R | | | | | | | | | | | | | |
|----------------------------------|-------------|---|-----------------|--------|--------|--|--|--|--|--|--|--|--|
| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN2005 | IN2505 | | | | | | | | |
| KOMT050104R | 0,08/0,20 | chamfering geometry / Géométrie à chanfreiner | | | | | | | | | | | |



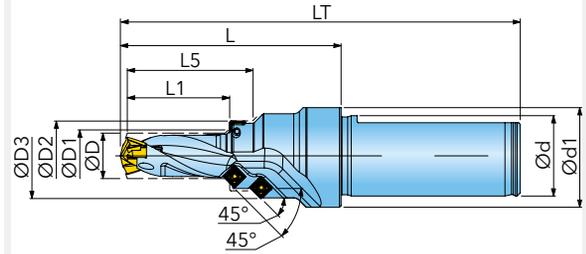
● = P ● = M ● = K ● = N ● = S ○ = H

| SPARE PARTS ACCESSOIRES | ① | ② |
|----------------------------|-------------|---------|
| | | |
| | SM22-046-00 | DS-T07S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

GOLDTWIST HEAD CHANGEABLE STEP DRILL 2,5D
 FORET ÉTAGÉ AVEC TÊTE INTERCHANGEABLE - 2,5D

ADAPTION ACC. TO DIN 1835 B (WELDON)
 ATTACHEMENT DIN 1835 B (WELDON)



| Designation Réf. de l'article | D | D1 | D2 | D3 | d | d1 | LT | L | L1 | L5 | Z | Ps | Key | | |
|----------------------------------|------|----|------|------|----|----|-------|------|----|------|---|----|--------------|---|------|
| TC1020063JER00 | 10,2 | 13 | 17,8 | 22,6 | 20 | 28 | 114,3 | 64,3 | 28 | 34,2 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,17 |
| TC1400067JFR00 | 14 | 17 | 21,8 | 26,6 | 25 | 32 | 125 | 69 | 32 | 39,2 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,27 |
| TC2100086JGR00 | 21 | 25 | 33,8 | 38,6 | 32 | 45 | 148,7 | 88,7 | 51 | 60,2 | 2 | 21 | KTD20.0-26.9 | ✓ | 0,49 |

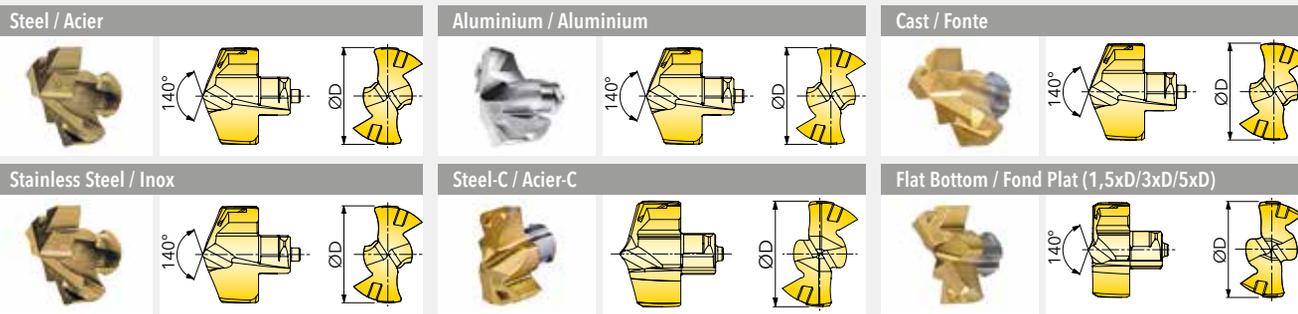
| SCLT050204N-PH | | | SHGT050204-HP | | | SCLT050204N | | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|-------------|--------|--|--|--|--|
| | | | | | | | | | | | |
| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | | | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

| SPARE PARTS ACCESSOIRES | ① | ② |
|----------------------------|---------------------|---------------|
| | SM20-043-00 (0,7Nm) | TXPLUS06x90-B |

① = Insert screw / Vis de serrage plaqueette ② = Torx-Bit / Embout torx

BORING HEADS FOR GOLDTWIST
EMBOUS DE PERÇAGE POUR GOLDTWIST



| D | Designation / Réf. de l'article | | | | | | | Grade / Nuance |
|-----|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|-----------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | (1,5xD/3xD/5xD) | |
| 4,0 | TPA0400R01 | | | | | | | IN 2505 |
| 4,1 | TPA0410R01 | | | | | | | IN 2505 |
| 4,2 | TPA0420R01 | | | | | | | IN 2505 |
| 4,3 | TPA0430R01 | | | | | | | IN 2505 |
| 4,4 | TPA0440R01 | | | | | | | IN 2505 |
| 4,5 | TPA0450R01 | | | | | | | IN 2505 |
| 4,6 | TPA0460R01 | | | | | | | IN 2505 |
| 4,7 | TPA0470R01 | | | | | | | IN 2505 |
| 4,8 | TPA0480R01 | | | | | | | IN 2505 |
| 4,9 | TPA0490R01 | | | | | | | IN 2505 |
| 5,0 | TPA0500R01 | | | | | | | IN 2505 |
| 5,1 | TPA0510R01 | | | | | | | IN 2505 |
| 5,2 | TPA0520R01 | | | | | | | IN 2505 |
| 5,3 | TPA0530R01 | | | | | | | IN 2505 |
| 5,4 | TPA0540R01 | | | | | | | IN 2505 |
| 5,5 | TPA0550R01 | | | | | | | IN 2505 |
| 5,6 | TPA0560R01 | | | | | | | IN 2505 |
| 5,8 | TPA0580R01 | | | | | | | IN 2505 |
| 5,9 | TPA0590R01 | | | | | | | IN 2505 |
| 6,0 | | TNA0600R01 | | | | | | IN 05S |
| 6,0 | TPA0600R01 | | TKA0600R01 | TMA0600R01 | TPC0600R01 | | | IN 2505 |
| 6,1 | TPA0610R01 | | TKA0610R01 | TMA0610R01 | | | | IN 2505 |
| 6,2 | TPA0620R01 | | TKA0620R01 | TMA0620R01 | | | | IN 2505 |
| 6,3 | TPA0630R01 | | TKA0630R01 | TMA0630R01 | | | | IN 2505 |
| 6,4 | TPA0640R01 | | TKA0640R01 | TMA0640R01 | | | | IN 2505 |
| 6,5 | | TNA0650R01 | | | | | | IN 05S |
| 6,5 | TPA0650R01 | | TKA0650R01 | TMA0650R01 | TPC0650R01 | | | IN 2505 |
| 6,6 | TPA0660R01 | | TKA0660R01 | TMA0660R01 | | | | IN 2505 |
| 6,7 | TPA0670R01 | | TKA0670R01 | TMA0670R01 | | | | IN 2505 |
| 6,8 | | TNA0680R01 | | | | | | IN 05S |
| 6,8 | TPA0680R01 | | TKA0680R01 | TMA0680R01 | TPC0680R01 | | | IN 2505 |
| 6,9 | TPA0690R01 | | TKA0690R01 | TMA0690R01 | | | | IN 2505 |
| 7,0 | | TNA0700R01 | | | | | | IN 05S |
| 7,0 | TPA0700R01 | | TKA0700R01 | TMA0700R01 | TPC0700R01 | TPF0700R01 | | IN 2505 |
| 7,1 | TPA0710R01 | | TKA0710R01 | TMA0710R01 | | | | IN 2505 |
| 7,2 | TPA0720R01 | | TKA0720R01 | TMA0720R01 | | | | IN 2505 |
| 7,3 | TPA0730R01 | | TKA0730R01 | TMA0730R01 | | | | IN 2505 |
| 7,4 | TPA0740R01 | | TKA0740R01 | TMA0740R01 | | | | IN 2505 |
| 7,5 | | TNA0750R01 | | | | | | IN 05S |
| 7,5 | TPA0750R01 | | TKA0750R01 | TMA0750R01 | TPC0750R01 | TPF0750R01 | | IN 2505 |

BORING HEADS FOR GOLDTWIST
EMBOUTS DE PERÇAGE POUR GOLDTWIST

| D | Designation / Réf. de l'article | | | | | | |
|------|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 7,6 | TPA0760R01 | | TKA0760R01 | TMA0760R01 | | | IN 2505 |
| 7,7 | TPA0770R01 | | TKA0770R01 | TMA0770R01 | | | IN 2505 |
| 7,8 | TPA0780R01 | | TKA0780R01 | TMA0780R01 | | | IN 2505 |
| 7,9 | TPA0790R01 | | TKA0790R01 | TMA0790R01 | | | IN 2505 |
| 8,0 | | TNA0800R01 | | | | | IN 05S |
| 8,0 | TPA0800R01 | | TKA0800R01 | TMA0800R01 | TPC0800R01 | TPF0800R01 | IN 2505 |
| 8,1 | TPA0810R01 | | TKA0810R01 | TMA0810R01 | | | IN 2505 |
| 8,2 | TPA0820R01 | | TKA0820R01 | TMA0820R01 | | | IN 2505 |
| 8,3 | TPA0830R01 | | TKA0830R01 | TMA0830R01 | | | IN 2505 |
| 8,4 | TPA0840R01 | | TKA0840R01 | TMA0840R01 | | | IN 2505 |
| 8,5 | | TNA0850R01 | | | | | IN 05S |
| 8,5 | TPA0850R01 | | TKA0850R01 | TMA0850R01 | TPC0850R01 | TPF0850R01 | IN 2505 |
| 8,6 | TPA0860R01 | | TKA0860R01 | TMA0860R01 | | | IN 2505 |
| 8,7 | TPA0870R01 | | TKA0870R01 | TMA0870R01 | | | IN 2505 |
| 8,8 | TPA0880R01 | | TKA0880R01 | TMA0880R01 | | | IN 2505 |
| 8,9 | TPA0890R01 | | TKA0890R01 | TMA0890R01 | | | IN 2505 |
| 9,0 | | TNA0900R01 | | | | | IN 05S |
| 9,0 | TPA0900R01 | | TKA0900R01 | TMA0900R01 | TPC0900R01 | TPF0900R01 | IN 2505 |
| 9,1 | TPA0910R01 | | TKA0910R01 | TMA0910R01 | | | IN 2505 |
| 9,2 | TPA0920R01 | | TKA0920R01 | TMA0920R01 | | | IN 2505 |
| 9,3 | TPA0930R01 | | TKA0930R01 | TMA0930R01 | | | IN 2505 |
| 9,4 | TPA0940R01 | | TKA0940R01 | TMA0940R01 | | | IN 2505 |
| 9,5 | | TNA0950R01 | | | | | IN 05S |
| 9,5 | TPA0950R01 | | TKA0950R01 | TMA0950R01 | TPC0950R01 | TPF0950R01 | IN 2505 |
| 9,6 | TPA0960R01 | | TKA0960R01 | TMA0960R01 | | | IN 2505 |
| 9,7 | TPA0970R01 | | TKA0970R01 | TMA0970R01 | | | IN 2505 |
| 9,8 | TPA0980R01 | | TKA0980R01 | TMA0980R01 | | | IN 2505 |
| 9,9 | TPA0990R01 | | TKA0990R01 | TMA0990R01 | | | IN 2505 |
| 10,0 | | TNA1000R01 | | | | | IN 05S |
| 10,0 | TPA1000R01 | | TKA1000R01 | TMA1000R01 | TPC1000R01 | TPF1000R01 | IN 2505 |
| 10,1 | TPA1010R01 | | TKA1010R01 | TMA1010R01 | | | IN 2505 |
| 10,2 | | TNA1020R01 | | | | | IN 05S |
| 10,2 | TPA1020R01 | | TKA1020R01 | TMA1020R01 | TPC1020R01 | | IN 2505 |
| 10,3 | TPA1030R01 | | TKA1030R01 | TMA1030R01 | | | IN 2505 |
| 10,4 | TPA1040R01 | | TKA1040R01 | TMA1040R01 | | | IN 2505 |
| 10,5 | | TNA1050R01 | | | | | IN 05S |
| 10,5 | TPA1050R01 | | TKA1050R01 | TMA1050R01 | TPC1050R01 | TPF1050R01 | IN 2505 |
| 10,6 | TPA1060R01 | | TKA1060R01 | TMA1060R01 | | | IN 2505 |
| 10,7 | TPA1070R01 | | TKA1070R01 | TMA1070R01 | | | IN 2505 |
| 10,8 | TPA1080R01 | | TKA1080R01 | TMA1080R01 | | | IN 2505 |
| 10,9 | TPA1090R01 | | TKA1090R01 | TMA1090R01 | | | IN 2505 |
| 11,0 | | TNA1100R01 | | | | | IN 05S |
| 11,0 | TPA1100R01 | | TKA1100R01 | TMA1100R01 | TPC1100R01 | TPF1100R01 | IN 2505 |
| 11,1 | TPA1110R01 | | TKA1110R01 | TMA1110R01 | | | IN 2505 |
| 11,2 | TPA1120R01 | | TKA1120R01 | TMA1120R01 | | | IN 2505 |
| 11,3 | TPA1130R01 | | TKA1130R01 | TMA1130R01 | | | IN 2505 |
| 11,4 | TPA1140R01 | | TKA1140R01 | TMA1140R01 | | | IN 2505 |
| 11,5 | | TNA1150R01 | | | | | IN 05S |
| 11,5 | TPA1150R01 | | TKA1150R01 | TMA1150R01 | TPC1150R01 | TPF1150R01 | IN 2505 |
| 11,6 | TPA1160R01 | | TKA1160R01 | TMA1160R01 | | | IN 2505 |



BORING HEADS FOR GOLDTWIST
EMBOUTS DE PERÇAGE POUR GOLDTWIST

| D | Designation / Réf. de l'article | | | | | | Grade / Nuance |
|------|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | |
| 11,7 | TPA1170R01 | | TKA1170R01 | TMA1170R01 | | | IN 2505 |
| 11,8 | TPA1180R01 | | TKA1180R01 | TMA1180R01 | | | IN 2505 |
| 11,9 | TPA1190R01 | | TKA1190R01 | TMA1190R01 | | | IN 2505 |
| 12,0 | | TNA1200R01 | | | | | IN 05S |
| 12,0 | TPA1200R01 | | TKA1200R01 | TMA1200R01 | TPC1200R01 | TPF1200R01 | IN 2505 |
| 12,1 | TPA1210R01 | | TKA1210R01 | TMA1210R01 | | | IN 2505 |
| 12,2 | TPA1220R01 | | TKA1220R01 | TMA1220R01 | | | IN 2505 |
| 12,3 | TPA1230R01 | | TKA1230R01 | TMA1230R01 | | | IN 2505 |
| 12,4 | TPA1240R01 | | TKA1240R01 | TMA1240R01 | | | IN 2505 |
| 12,5 | | TNA1250R01 | | | | | IN 05S |
| 12,5 | TPA1250R01 | | TKA1250R01 | TMA1250R01 | TPC1250R01 | TPF1250R01 | IN 2505 |
| 12,6 | TPA1260R01 | | TKA1260R01 | TMA1260R01 | | | IN 2505 |
| 12,7 | TPA1270R01 | | TKA1270R01 | TMA1270R01 | TPC1270R01 | | IN 2505 |
| 12,8 | TPA1280R01 | | TKA1280R01 | TMA1280R01 | | | IN 2505 |
| 12,9 | TPA1290R01 | | TKA1290R01 | TMA1290R01 | | | IN 2505 |
| 13,0 | | TNA1300R01 | | | | | IN 05S |
| 13,0 | TPA1300R01 | | TKA1300R01 | TMA1300R01 | TPC1300R01 | TPF1300R01 | IN 2505 |
| 13,1 | TPA1310R01 | | TKA1310R01 | TMA1310R01 | | | IN 2505 |
| 13,2 | TPA1320R01 | | TKA1320R01 | TMA1320R01 | | | IN 2505 |
| 13,3 | TPA1330R01 | | TKA1330R01 | TMA1330R01 | | | IN 2505 |
| 13,4 | TPA1340R01 | | TKA1340R01 | TMA1340R01 | | | IN 2505 |
| 13,5 | | TNA1350R01 | | | | | IN 05S |
| 13,5 | TPA1350R01 | | TKA1350R01 | TMA1350R01 | TPC1350R01 | TPF1350R01 | IN 2505 |
| 13,6 | TPA1360R01 | | TKA1360R01 | TMA1360R01 | | | IN 2505 |
| 13,7 | TPA1370R01 | | TKA1370R01 | TMA1370R01 | | | IN 2505 |
| 13,8 | TPA1380R01 | | TKA1380R01 | TMA1380R01 | | | IN 2505 |
| 13,9 | TPA1390R01 | | TKA1390R01 | TMA1390R01 | | | IN 2505 |
| 14,0 | | TNA1400R01 | | | | | IN 05S |
| 14,0 | TPA1400R01 | | TKA1400R01 | TMA1400R01 | TPC1400R01 | TPF1400R01 | IN 2505 |
| 14,1 | TPA1410R01 | | TKA1410R01 | TMA1410R01 | | | IN 2505 |
| 14,2 | TPA1420R01 | | TKA1420R01 | TMA1420R01 | | | IN 2505 |
| 14,3 | TPA1430R01 | | TKA1430R01 | TMA1430R01 | | | IN 2505 |
| 14,4 | TPA1440R01 | | TKA1440R01 | TMA1440R01 | | | IN 2505 |
| 14,5 | | TNA1450R01 | | | | | IN 05S |
| 14,5 | TPA1450R01 | | TKA1450R01 | TMA1450R01 | TPC1450R01 | TPF1450R01 | IN 2505 |
| 14,6 | TPA1460R01 | | TKA1460R01 | TMA1460R01 | | | IN 2505 |
| 14,7 | TPA1470R01 | | TKA1470R01 | TMA1470R01 | | | IN 2505 |
| 14,8 | TPA1480R01 | | TKA1480R01 | TMA1480R01 | | | IN 2505 |
| 14,9 | TPA1490R01 | | TKA1490R01 | TMA1490R01 | | | IN 2505 |
| 15,0 | | TNA1500R01 | | | | | IN 05S |
| 15,0 | TPA1500R01 | | TKA1500R01 | TMA1500R01 | TPC1500R01 | TPF1500R01 | IN 2505 |
| 15,1 | TPA1510R01 | | TKA1510R01 | TMA1510R01 | | | IN 2505 |
| 15,2 | TPA1520R01 | | TKA1520R01 | TMA1520R01 | | | IN 2505 |
| 15,3 | TPA1530R01 | | TKA1530R01 | TMA1530R01 | | | IN 2505 |
| 15,4 | TPA1540R01 | | TKA1540R01 | TMA1540R01 | | | IN 2505 |
| 15,5 | | TNA1550R01 | | | | | IN 05S |
| 15,5 | TPA1550R01 | | TKA1550R01 | TMA1550R01 | TPC1550R01 | TPF1550R01 | IN 2505 |
| 15,6 | TPA1560R01 | | TKA1560R01 | TMA1560R01 | | | IN 2505 |
| 15,7 | TPA1570R01 | | TKA1570R01 | TMA1570R01 | | | IN 2505 |
| 15,8 | TPA1580R01 | | TKA1580R01 | TMA1580R01 | | | IN 2505 |

BORING HEADS FOR GOLDTWIST
EMBOUS DE PERÇAGE POUR GOLDTWIST

| D | Designation / Réf. de l'article | | | | | | |
|------|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 15,9 | TPA1590R01 | | TKA1590R01 | TMA1590R01 | | | IN 2505 |
| 16,0 | | TNA1600R01 | | | | | IN 05S |
| 16,0 | TPA1600R01 | | TKA1600R01 | TMA1600R01 | TPC1600R01 | TPF1600R01 | IN 2505 |
| 16,1 | TPA1610R01 | | TKA1610R01 | TMA1610R01 | | | IN 2505 |
| 16,2 | TPA1620R01 | | TKA1620R01 | TMA1620R01 | | | IN 2505 |
| 16,3 | TPA1630R01 | | TKA1630R01 | TMA1630R01 | | | IN 2505 |
| 16,4 | TPA1640R01 | | TKA1640R01 | TMA1640R01 | | | IN 2505 |
| 16,5 | | TNA1650R01 | | | | | IN 05S |
| 16,5 | TPA1650R01 | | TKA1650R01 | TMA1650R01 | TPC1650R01 | TPF1650R01 | IN 2505 |
| 16,6 | TPA1660R01 | | TKA1660R01 | TMA1660R01 | | | IN 2505 |
| 16,7 | TPA1670R01 | | TKA1670R01 | TMA1670R01 | | | IN 2505 |
| 16,8 | TPA1680R01 | | TKA1680R01 | TMA1680R01 | | | IN 2505 |
| 16,9 | TPA1690R01 | | TKA1690R01 | TMA1690R01 | | | IN 2505 |
| 17,0 | | TNA1700R01 | | | | | IN 05S |
| 17,0 | TPA1700R01 | | TKA1700R01 | TMA1700R01 | TPC1700R01 | TPF1700R01 | IN 2505 |
| 17,1 | TPA1710R01 | | TKA1710R01 | TMA1710R01 | | | IN 2505 |
| 17,2 | TPA1720R01 | | TKA1720R01 | TMA1720R01 | | | IN 2505 |
| 17,3 | TPA1730R01 | | TKA1730R01 | TMA1730R01 | | | IN 2505 |
| 17,4 | TPA1740R01 | | TKA1740R01 | TMA1740R01 | | | IN 2505 |
| 17,5 | | TNA1750R01 | | | | | IN 05S |
| 17,5 | TPA1750R01 | | TKA1750R01 | TMA1750R01 | TPC1750R01 | TPF1750R01 | IN 2505 |
| 17,6 | TPA1760R01 | | TKA1760R01 | TMA1760R01 | | | IN 2505 |
| 17,7 | TPA1770R01 | | TKA1770R01 | TMA1770R01 | | | IN 2505 |
| 17,8 | TPA1780R01 | | TKA1780R01 | TMA1780R01 | | | IN 2505 |
| 17,9 | TPA1790R01 | | TKA1790R01 | TMA1790R01 | | | IN 2505 |
| 18,0 | | TNA1800R01 | | | | | IN 05S |
| 18,0 | TPA1800R01 | | TKA1800R01 | TMA1800R01 | TPC1800R01 | TPF1800R01 | IN 2505 |
| 18,1 | TPA1810R01 | | TKA1810R01 | TMA1810R01 | | | IN 2505 |
| 18,2 | TPA1820R01 | | TKA1820R01 | TMA1820R01 | | | IN 2505 |
| 18,3 | TPA1830R01 | | TKA1830R01 | TMA1830R01 | | | IN 2505 |
| 18,4 | TPA1840R01 | | TKA1840R01 | TMA1840R01 | | | IN 2505 |
| 18,5 | | TNA1850R01 | | | | | IN 05S |
| 18,5 | TPA1850R01 | | TKA1850R01 | TMA1850R01 | TPC1850R01 | TPF1850R01 | IN 2505 |
| 18,6 | TPA1860R01 | | TKA1860R01 | TMA1860R01 | | | IN 2505 |
| 18,7 | TPA1870R01 | | TKA1870R01 | TMA1870R01 | | | IN 2505 |
| 18,8 | TPA1880R01 | | TKA1880R01 | TMA1880R01 | | | IN 2505 |
| 18,9 | TPA1890R01 | | TKA1890R01 | TMA1890R01 | | | IN 2505 |
| 19,0 | | TNA1900R01 | | | | | IN 05S |
| 19,0 | TPA1900R01 | | TKA1900R01 | TMA1900R01 | TPC1900R01 | TPF1900R01 | IN 2505 |
| 19,1 | TPA1910R01 | | TKA1910R01 | TMA1910R01 | | | IN 2505 |
| 19,2 | TPA1920R01 | | TKA1920R01 | TMA1920R01 | | | IN 2505 |
| 19,3 | TPA1930R01 | | TKA1930R01 | TMA1930R01 | | | IN 2505 |
| 19,4 | TPA1940R01 | | TKA1940R01 | TMA1940R01 | | | IN 2505 |
| 19,5 | | TNA1950R01 | | | | | IN 05S |
| 19,5 | TPA1950R01 | | TKA1950R01 | TMA1950R01 | TPC1950R01 | TPF1950R01 | IN 2505 |
| 19,6 | TPA1960R01 | | TKA1960R01 | TMA1960R01 | | | IN 2505 |
| 19,7 | TPA1970R01 | | TKA1970R01 | TMA1970R01 | | | IN 2505 |
| 19,8 | TPA1980R01 | | TKA1980R01 | TMA1980R01 | | | IN 2505 |
| 19,9 | TPA1990R01 | | TKA1990R01 | TMA1990R01 | | | IN 2505 |
| 20,0 | | TNA2000R01 | | | | | IN 05S |



BORING HEADS FOR GOLDT WIST
EMBOUTS DE PERÇAGE POUR GOLDT WIST

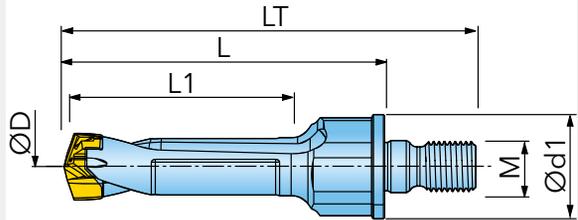
| D | Designation / Réf. de l'article | | | | | | |
|------|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 20,0 | TPA2000R01 | | TKA2000R01 | TMA2000R01 | TPC2000R01 | TPF2000R01 | IN 2505 |
| 20,1 | TPA2010R01 | | TKA2010R01 | TMA2010R01 | | | IN 2505 |
| 20,2 | TPA2020R01 | | TKA2020R01 | TMA2020R01 | | | IN 2505 |
| 20,3 | TPA2030R01 | | TKA2030R01 | TMA2030R01 | | | IN 2505 |
| 20,4 | TPA2040R01 | | TKA2040R01 | TMA2040R01 | | | IN 2505 |
| 20,5 | | TNA2050R01 | | | | | IN 05S |
| 20,5 | TPA2050R01 | | TKA2050R01 | TMA2050R01 | TPC2050R01 | TPF2050R01 | IN 2505 |
| 20,6 | TPA2060R01 | | TKA2060R01 | TMA2060R01 | | | IN 2505 |
| 20,7 | TPA2070R01 | | TKA2070R01 | TMA2070R01 | | | IN 2505 |
| 20,8 | TPA2080R01 | | TKA2080R01 | TMA2080R01 | | | IN 2505 |
| 20,9 | TPA2090R01 | | TKA2090R01 | TMA2090R01 | | | IN 2505 |
| 21,0 | | TNA2100R01 | | | | | IN 05S |
| 21,0 | TPA2100R01 | | TKA2100R01 | TMA2100R01 | TPC2100R01 | TPF2100R01 | IN 2505 |
| 21,1 | TPA2110R01 | | TKA2110R01 | TMA2110R01 | | | IN 2505 |
| 21,2 | TPA2120R01 | | TKA2120R01 | TMA2120R01 | | | IN 2505 |
| 21,3 | TPA2130R01 | | TKA2130R01 | TMA2130R01 | | | IN 2505 |
| 21,4 | TPA2140R01 | | TKA2140R01 | TMA2140R01 | | | IN 2505 |
| 21,5 | | TNA2150R01 | | | | | IN 05S |
| 21,5 | TPA2150R01 | | TKA2150R01 | TMA2150R01 | TPC2150R01 | TPF2150R01 | IN 2505 |
| 21,6 | TPA2160R01 | | TKA2160R01 | TMA2160R01 | | | IN 2505 |
| 21,7 | TPA2170R01 | | TKA2170R01 | TMA2170R01 | | | IN 2505 |
| 21,8 | TPA2180R01 | | TKA2180R01 | TMA2180R01 | | | IN 2505 |
| 21,9 | TPA2190R01 | | TKA2190R01 | TMA2190R01 | | | IN 2505 |
| 22,0 | | TNA2200R01 | | | | | IN 05S |
| 22,0 | TPA2200R01 | | TKA2200R01 | TMA2200R01 | TPC2200R01 | TPF2200R01 | IN 2505 |
| 22,1 | TPA2210R01 | | TKA2210R01 | TMA2210R01 | | | IN 2505 |
| 22,2 | TPA2220R01 | | TKA2220R01 | TMA2220R01 | | | IN 2505 |
| 22,3 | TPA2230R01 | | TKA2230R01 | TMA2230R01 | | | IN 2505 |
| 22,4 | TPA2240R01 | | TKA2240R01 | TMA2240R01 | | | IN 2505 |
| 22,5 | | TNA2250R01 | | | | | IN 05S |
| 22,5 | TPA2250R01 | | TKA2250R01 | TMA2250R01 | TPC2250R01 | TPF2250R01 | IN 2505 |
| 22,6 | TPA2260R01 | | TKA2260R01 | TMA2260R01 | | | IN 2505 |
| 22,7 | TPA2270R01 | | TKA2270R01 | TMA2270R01 | | | IN 2505 |
| 22,8 | TPA2280R01 | | TKA2280R01 | TMA2280R01 | | | IN 2505 |
| 22,9 | TPA2290R01 | | TKA2290R01 | TMA2290R01 | | | IN 2505 |
| 23,0 | | TNA2300R01 | | | | | IN 05S |
| 23,0 | TPA2300R01 | | TKA2300R01 | TMA2300R01 | TPC2300R01 | TPF2300R01 | IN 2505 |
| 23,1 | TPA2310R01 | | TKA2310R01 | TMA2310R01 | | | IN 2505 |
| 23,2 | TPA2320R01 | | TKA2320R01 | TMA2320R01 | | | IN 2505 |
| 23,3 | TPA2330R01 | | TKA2330R01 | TMA2330R01 | | | IN 2505 |
| 23,4 | TPA2340R01 | | TKA2340R01 | TMA2340R01 | | | IN 2505 |
| 23,5 | | TNA2350R01 | | | | | IN 05S |
| 23,5 | TPA2350R01 | | TKA2350R01 | TMA2350R01 | TPC2350R01 | TPF2350R01 | IN 2505 |
| 23,6 | TPA2360R01 | | TKA2360R01 | TMA2360R01 | | | IN 2505 |
| 23,7 | TPA2370R01 | | TKA2370R01 | TMA2370R01 | | | IN 2505 |
| 23,8 | TPA2380R01 | | TKA2380R01 | TMA2380R01 | | | IN 2505 |
| 23,9 | TPA2390R01 | | TKA2390R01 | TMA2390R01 | | | IN 2505 |
| 24,0 | | TNA2400R01 | | | | | IN 05S |
| 24,0 | TPA2400R01 | | TKA2400R01 | TMA2400R01 | TPC2400R01 | TPF2400R01 | IN 2505 |
| 24,1 | TPA2410R01 | | TKA2410R01 | TMA2410R01 | | | IN 2505 |

BORING HEADS FOR GOLDTWIST
EMBOUTS DE PERÇAGE POUR GOLDTWIST

| D | Designation / Réf. de l'article | | | | | | |
|------|---------------------------------|-----------------------|--------------|------------------------|-------------------|-------------------------|----------------|
| | Steel / Acier | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 24,2 | TPA2420R01 | | TKA2420R01 | TMA2420R01 | | | IN 2505 |
| 24,3 | TPA2430R01 | | TKA2430R01 | TMA2430R01 | | | IN 2505 |
| 24,4 | TPA2440R01 | | TKA2440R01 | TMA2440R01 | | | IN 2505 |
| 24,5 | | TNA2450R01 | | | | | IN 05S |
| 24,5 | TPA2450R01 | | TKA2450R01 | TMA2450R01 | TPC2450R01 | TPF2450R01 | IN 2505 |
| 24,6 | TPA2460R01 | | TKA2460R01 | TMA2460R01 | | | IN 2505 |
| 24,7 | TPA2470R01 | | TKA2470R01 | TMA2470R01 | | | IN 2505 |
| 24,8 | TPA2480R01 | | TKA2480R01 | TMA2480R01 | | | IN 2505 |
| 24,9 | TPA2490R01 | | TKA2490R01 | TMA2490R01 | | | IN 2505 |
| 25,0 | | TNA2500R01 | | | | | IN 05S |
| 25,0 | TPA2500R01 | | TKA2500R01 | TMA2500R01 | TPC2500R01 | TPF2500R01 | IN 2505 |
| 25,1 | TPA2510R01 | | TKA2510R01 | TMA2510R01 | | | IN 2505 |
| 25,2 | TPA2520R01 | | TKA2520R01 | TMA2520R01 | | | IN 2505 |
| 25,3 | TPA2530R01 | | TKA2530R01 | TMA2530R01 | | | IN 2505 |
| 25,4 | TPA2540R01 | | TKA2540R01 | TMA2540R01 | | | IN 2505 |
| 25,5 | | TNA2550R01 | | | | | IN 05S |
| 25,5 | TPA2550R01 | | TKA2550R01 | TMA2550R01 | TPC2550R01 | TPF2550R01 | IN 2505 |
| 25,6 | TPA2560R01 | | TKA2560R01 | TMA2560R01 | | | IN 2505 |
| 25,7 | TPA2570R01 | | TKA2570R01 | TMA2570R01 | | | IN 2505 |
| 25,8 | TPA2580R01 | | TKA2580R01 | TMA2580R01 | | | IN 2505 |
| 25,9 | TPA2590R01 | | TKA2590R01 | TMA2590R01 | TPC2590R01 | | IN 2505 |

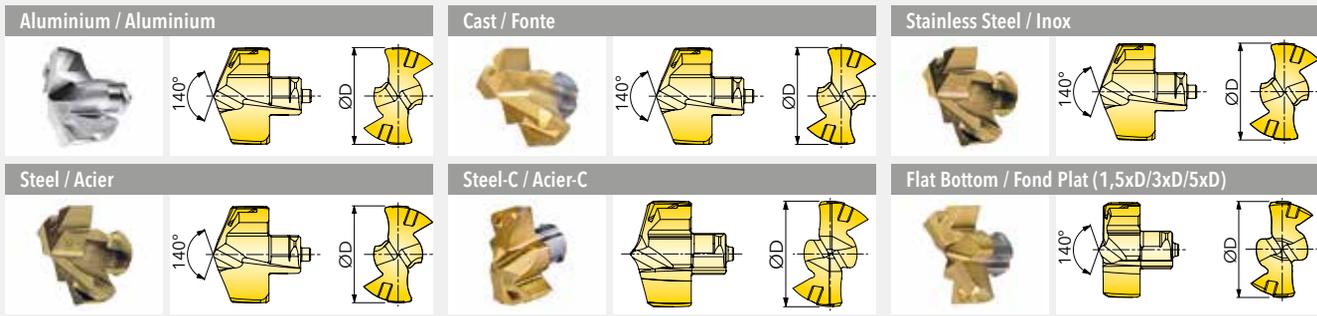


SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ



| Designation Réf. de l'article | D min. | D max. | d1 | LT | L | L1 | M | Z | Ps | Key | | |
|----------------------------------|--------|--------|----|-------|------|------|-----|---|------|--------------|---|-------|
| TD0600018X7R00 | 6,0 | 6,4 | 25 | 64,0 | 42,0 | 19,0 | M12 | 2 | 6 | KTD6.0-9.9 | ✓ | 0,075 |
| TD0650020X7R00 | 6,5 | 6,9 | 25 | 66,3 | 44,3 | 20,7 | M12 | 2 | 6,5 | KTD6.0-9.9 | ✓ | 0,100 |
| TD0700021X7R00 | 7,0 | 7,4 | 25 | 67,6 | 45,6 | 22,0 | M12 | 2 | 7 | KTD6.0-9.9 | ✓ | 0,105 |
| TD0750023X7R00 | 7,5 | 7,9 | 25 | 69,6 | 47,6 | 23,6 | M12 | 2 | 7,5 | KTD6.0-9.9 | ✓ | 0,105 |
| TD0800024X7R00 | 8,0 | 8,4 | 25 | 71,4 | 49,4 | 25,2 | M12 | 2 | 8 | KTD6.0-9.9 | ✓ | 0,105 |
| TD0850026X7R00 | 8,5 | 8,9 | 25 | 72,4 | 50,4 | 26,8 | M12 | 2 | 8,5 | KTD6.0-9.9 | ✓ | 0,105 |
| TD0900027X7R00 | 9,0 | 9,4 | 25 | 74,8 | 52,8 | 28,4 | M12 | 2 | 9 | KTD6.0-9.9 | ✓ | 0,075 |
| TD0950029X7R00 | 9,5 | 9,9 | 25 | 76,8 | 54,8 | 29,9 | M12 | 2 | 9,5 | KTD6.0-9.9 | ✓ | 0,110 |
| TD1000030X7R00 | 10,0 | 10,4 | 25 | 78,2 | 56,2 | 31,5 | M12 | 2 | 10 | KTD10.0-19.9 | ✓ | 0,115 |
| TD1050032X7R00 | 10,5 | 10,9 | 25 | 80,2 | 58,2 | 33,1 | M12 | 2 | 10,5 | KTD10.0-19.9 | ✓ | 0,110 |
| TD1100033X7R00 | 11,0 | 11,4 | 25 | 81,6 | 59,6 | 34,7 | M12 | 2 | 11 | KTD10.0-19.9 | ✓ | 0,110 |
| TD1150035X7R00 | 11,5 | 11,9 | 25 | 83,6 | 61,6 | 36,3 | M12 | 2 | 11,5 | KTD10.0-19.9 | ✓ | 0,110 |
| TD1200036X7R00 | 12,0 | 12,4 | 25 | 85,0 | 63,0 | 37,8 | M12 | 2 | 12 | KTD10.0-19.9 | ✓ | 0,124 |
| TD1250038X7R00 | 12,5 | 12,9 | 25 | 86,0 | 64,0 | 39,4 | M12 | 2 | 12,5 | KTD10.0-19.9 | ✓ | 0,115 |
| TD1300039X7R00 | 13,0 | 13,4 | 25 | 88,6 | 66,6 | 41,0 | M12 | 2 | 13 | KTD10.0-19.9 | ✓ | 0,120 |
| TD1350041X7R00 | 13,5 | 13,9 | 25 | 90,6 | 68,6 | 42,6 | M12 | 2 | 13,5 | KTD10.0-19.9 | ✓ | 0,130 |
| TD1400042X7R00 | 14,0 | 14,4 | 25 | 92,2 | 70,2 | 44,1 | M12 | 2 | 14 | KTD10.0-19.9 | ✓ | 0,125 |
| TD1450044X7R00 | 14,5 | 14,9 | 25 | 94,2 | 72,2 | 45,7 | M12 | 2 | 14,5 | KTD10.0-19.9 | ✓ | 0,135 |
| TD1500045X7R00 | 15,0 | 15,9 | 25 | 95,7 | 73,7 | 47,3 | M12 | 2 | 15 | KTD10.0-19.9 | ✓ | 0,145 |
| TD1600048X7R00 | 16,0 | 16,9 | 25 | 99,3 | 77,3 | 50,4 | M12 | 2 | 16 | KTD10.0-19.9 | ✓ | 0,140 |
| TD1700051X7R00 | 17,0 | 17,9 | 25 | 102,9 | 80,9 | 53,6 | M12 | 2 | 17 | KTD10.0-19.9 | ✓ | 0,155 |
| TD1800054X7R00 | 18,0 | 18,9 | 25 | 106,5 | 84,5 | 56,7 | M12 | 2 | 18 | KTD10.0-19.9 | ✓ | 0,165 |
| TD1900057X7R00 | 19,0 | 19,9 | 25 | 110,0 | 88,0 | 59,9 | M12 | 2 | 19 | KTD10.0-19.9 | ✓ | 0,180 |
| TD2000060X7R00 | 20,0 | 20,9 | 25 | 113,6 | 91,6 | 63 | M12 | 2 | 20 | KTD20.0-26.9 | ✓ | 0,210 |

BORING HEADS FOR WINTWIST
EMBOUS DE PERÇAGE POUR WINTWIST



| Designation / Réf. de l'article | | | | | | | |
|---------------------------------|-----------------------|--------------|------------------------|---------------|-------------------|-------------------------|----------------|
| D | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 6,0 | TNA0600R01 | | | | | | IN 05S |
| 6,0 | | TKA0600R01 | TMA0600R01 | TPA0600R01 | TPC0600R01 | | IN 2505 |
| 6,1 | | TKA0610R01 | TMA0610R01 | TPA0610R01 | | | IN 2505 |
| 6,2 | | TKA0620R01 | TMA0620R01 | TPA0620R01 | | | IN 2505 |
| 6,3 | | TKA0630R01 | TMA0630R01 | TPA0630R01 | | | IN 2505 |
| 6,4 | | TKA0640R01 | TMA0640R01 | TPA0640R01 | | | IN 2505 |
| 6,5 | TNA0650R01 | | | | | | IN 05S |
| 6,5 | | TKA0650R01 | TMA0650R01 | TPA0650R01 | TPC0650R01 | | IN 2505 |
| 6,6 | | TKA0660R01 | TMA0660R01 | TPA0660R01 | | | IN 2505 |
| 6,7 | | TKA0670R01 | TMA0670R01 | TPA0670R01 | | | IN 2505 |
| 6,8 | TNA0680R01 | | | | | | IN 05S |
| 6,8 | | TKA0680R01 | TMA0680R01 | TPA0680R01 | TPC0680R01 | | IN 2505 |
| 6,9 | | TKA0690R01 | TMA0690R01 | TPA0690R01 | | | IN 2505 |
| 7,0 | TNA0700R01 | | | | | | IN 05S |
| 7,0 | | TKA0700R01 | TMA0700R01 | TPA0700R01 | TPC0700R01 | TPF0700R01 | IN 2505 |
| 7,1 | | TKA0710R01 | TMA0710R01 | TPA0710R01 | | | IN 2505 |
| 7,2 | | TKA0720R01 | TMA0720R01 | TPA0720R01 | | | IN 2505 |
| 7,3 | | TKA0730R01 | TMA0730R01 | TPA0730R01 | | | IN 2505 |
| 7,4 | | TKA0740R01 | TMA0740R01 | TPA0740R01 | | | IN 2505 |
| 7,5 | TNA0750R01 | | | | | | IN 05S |
| 7,5 | | TKA0750R01 | TMA0750R01 | TPA0750R01 | TPC0750R01 | TPF0750R01 | IN 2505 |
| 7,6 | | TKA0760R01 | TMA0760R01 | TPA0760R01 | | | IN 2505 |
| 7,7 | | TKA0770R01 | TMA0770R01 | TPA0770R01 | | | IN 2505 |
| 7,8 | | TKA0780R01 | TMA0780R01 | TPA0780R01 | | | IN 2505 |
| 7,9 | | TKA0790R01 | TMA0790R01 | TPA0790R01 | | | IN 2505 |
| 8,0 | TNA0800R01 | | | | | | IN 05S |
| 8,0 | | TKA0800R01 | TMA0800R01 | TPA0800R01 | TPC0800R01 | TPF0800R01 | IN 2505 |
| 8,1 | | TKA0810R01 | TMA0810R01 | TPA0810R01 | | | IN 2505 |
| 8,2 | | TKA0820R01 | TMA0820R01 | TPA0820R01 | | | IN 2505 |
| 8,3 | | TKA0830R01 | TMA0830R01 | TPA0830R01 | | | IN 2505 |
| 8,4 | | TKA0840R01 | TMA0840R01 | TPA0840R01 | | | IN 2505 |
| 8,5 | TNA0850R01 | | | | | | IN 05S |
| 8,5 | | TKA0850R01 | TMA0850R01 | TPA0850R01 | TPC0850R01 | TPF0850R01 | IN 2505 |
| 8,6 | | TKA0860R01 | TMA0860R01 | TPA0860R01 | | | IN 2505 |
| 8,7 | | TKA0870R01 | TMA0870R01 | TPA0870R01 | | | IN 2505 |
| 8,8 | | TKA0880R01 | TMA0880R01 | TPA0880R01 | | | IN 2505 |
| 8,9 | | TKA0890R01 | TMA0890R01 | TPA0890R01 | | | IN 2505 |
| 9,0 | TNA0900R01 | | | | | | IN 05S |
| 9,0 | | TKA0900R01 | TMA0900R01 | TPA0900R01 | TPC0900R01 | TPF0900R01 | IN 2505 |
| 9,1 | | TKA0910R01 | TMA0910R01 | TPA0910R01 | | | IN 2505 |



BORING HEADS FOR WINTWIST
EMBOUITS DE PERÇAGE POUR WINTWIST

| D | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
|------|-----------------------|--------------|------------------------|---------------|-------------------|-------------------------|----------------|
| 9,2 | | TKA0920R01 | TMA0920R01 | TPA0920R01 | | | IN 2505 |
| 9,3 | | TKA0930R01 | TMA0930R01 | TPA0930R01 | | | IN 2505 |
| 9,4 | | TKA0940R01 | TMA0940R01 | TPA0940R01 | | | IN 2505 |
| 9,5 | TNA0950R01 | | | | | | IN 05S |
| 9,5 | | TKA0950R01 | TMA0950R01 | TPA0950R01 | TPC0950R01 | TPF0950R01 | IN 2505 |
| 9,6 | | TKA0960R01 | TMA0960R01 | TPA0960R01 | | | IN 2505 |
| 9,7 | | TKA0970R01 | TMA0970R01 | TPA0970R01 | | | IN 2505 |
| 9,8 | | TKA0980R01 | TMA0980R01 | TPA0980R01 | | | IN 2505 |
| 9,9 | | TKA0990R01 | TMA0990R01 | TPA0990R01 | | | IN 2505 |
| 10,0 | TNA1000R01 | | | | | | IN 05S |
| 10,0 | | TKA1000R01 | TMA1000R01 | TPA1000R01 | TPC1000R01 | TPF1000R01 | IN 2505 |
| 10,1 | | TKA1010R01 | TMA1010R01 | TPA1010R01 | | | IN 2505 |
| 10,2 | TNA1020R01 | | | | | | IN 05S |
| 10,2 | | TKA1020R01 | TMA1020R01 | TPA1020R01 | TPC1020R01 | | IN 2505 |
| 10,3 | | TKA1030R01 | TMA1030R01 | TPA1030R01 | | | IN 2505 |
| 10,4 | | TKA1040R01 | TMA1040R01 | TPA1040R01 | | | IN 2505 |
| 10,5 | TNA1050R01 | | | | | | IN 05S |
| 10,5 | | TKA1050R01 | TMA1050R01 | TPA1050R01 | TPC1050R01 | TPF1050R01 | IN 2505 |
| 10,6 | | TKA1060R01 | TMA1060R01 | TPA1060R01 | | | IN 2505 |
| 10,7 | | TKA1070R01 | TMA1070R01 | TPA1070R01 | | | IN 2505 |
| 10,8 | | TKA1080R01 | TMA1080R01 | TPA1080R01 | | | IN 2505 |
| 10,9 | | TKA1090R01 | TMA1090R01 | TPA1090R01 | | | IN 2505 |
| 11,0 | TNA1100R01 | | | | | | IN 05S |
| 11,0 | | TKA1100R01 | TMA1100R01 | TPA1100R01 | TPC1100R01 | TPF1100R01 | IN 2505 |
| 11,1 | | TKA1110R01 | TMA1110R01 | TPA1110R01 | | | IN 2505 |
| 11,2 | | TKA1120R01 | TMA1120R01 | TPA1120R01 | | | IN 2505 |
| 11,3 | | TKA1130R01 | TMA1130R01 | TPA1130R01 | | | IN 2505 |
| 11,4 | | TKA1140R01 | TMA1140R01 | TPA1140R01 | | | IN 2505 |
| 11,5 | TNA1150R01 | | | | | | IN 05S |
| 11,5 | | TKA1150R01 | TMA1150R01 | TPA1150R01 | TPC1150R01 | TPF1150R01 | IN 2505 |
| 11,6 | | TKA1160R01 | TMA1160R01 | TPA1160R01 | | | IN 2505 |
| 11,7 | | TKA1170R01 | TMA1170R01 | TPA1170R01 | | | IN 2505 |
| 11,8 | | TKA1180R01 | TMA1180R01 | TPA1180R01 | | | IN 2505 |
| 11,9 | | TKA1190R01 | TMA1190R01 | TPA1190R01 | | | IN 2505 |
| 12,0 | TNA1200R01 | | | | | | IN 05S |
| 12,0 | | TKA1200R01 | TMA1200R01 | TPA1200R01 | TPC1200R01 | TPF1200R01 | IN 2505 |
| 12,1 | | TKA1210R01 | TMA1210R01 | TPA1210R01 | | | IN 2505 |
| 12,2 | | TKA1220R01 | TMA1220R01 | TPA1220R01 | | | IN 2505 |
| 12,3 | | TKA1230R01 | TMA1230R01 | TPA1230R01 | | | IN 2505 |
| 12,4 | | TKA1240R01 | TMA1240R01 | TPA1240R01 | | | IN 2505 |
| 12,5 | TNA1250R01 | | | | | | IN 05S |
| 12,5 | | TKA1250R01 | TMA1250R01 | TPA1250R01 | TPC1250R01 | TPF1250R01 | IN 2505 |
| 12,6 | | TKA1260R01 | TMA1260R01 | TPA1260R01 | | | IN 2505 |
| 12,7 | | TKA1270R01 | TMA1270R01 | TPA1270R01 | TPC1270R01 | | IN 2505 |
| 12,8 | | TKA1280R01 | TMA1280R01 | TPA1280R01 | | | IN 2505 |
| 12,9 | | TKA1290R01 | TMA1290R01 | TPA1290R01 | | | IN 2505 |
| 13,0 | TNA1300R01 | | | | | | IN 05S |
| 13,0 | | TKA1300R01 | TMA1300R01 | TPA1300R01 | TPC1300R01 | TPF1300R01 | IN 2505 |
| 13,1 | | TKA1310R01 | TMA1310R01 | TPA1310R01 | | | IN 2505 |
| 13,2 | | TKA1320R01 | TMA1320R01 | TPA1320R01 | | | IN 2505 |

BORING HEADS FOR WINTWIST
EMBOUS DE PERÇAGE POUR WINTWIST

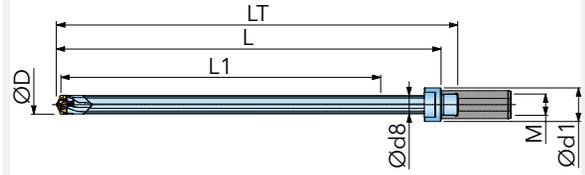
| Designation / Réf. de l'article | | | | | | | |
|---------------------------------|-----------------------|--------------|------------------------|---------------|-------------------|-------------------------|----------------|
| D | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 13,3 | | TKA1330R01 | TMA1330R01 | TPA1330R01 | | | IN 2505 |
| 13,4 | | TKA1340R01 | TMA1340R01 | TPA1340R01 | | | IN 2505 |
| 13,5 | TNA1350R01 | | | | | | IN 05S |
| 13,5 | | TKA1350R01 | TMA1350R01 | TPA1350R01 | TPC1350R01 | TPF1350R01 | IN 2505 |
| 13,6 | | TKA1360R01 | TMA1360R01 | TPA1360R01 | | | IN 2505 |
| 13,7 | | TKA1370R01 | TMA1370R01 | TPA1370R01 | | | IN 2505 |
| 13,8 | | TKA1380R01 | TMA1380R01 | TPA1380R01 | | | IN 2505 |
| 13,9 | | TKA1390R01 | TMA1390R01 | TPA1390R01 | | | IN 2505 |
| 14,0 | TNA1400R01 | | | | | | IN 05S |
| 14,0 | | TKA1400R01 | TMA1400R01 | TPA1400R01 | TPC1400R01 | TPF1400R01 | IN 2505 |
| 14,1 | | TKA1410R01 | TMA1410R01 | TPA1410R01 | | | IN 2505 |
| 14,2 | | TKA1420R01 | TMA1420R01 | TPA1420R01 | | | IN 2505 |
| 14,3 | | TKA1430R01 | TMA1430R01 | TPA1430R01 | | | IN 2505 |
| 14,4 | | TKA1440R01 | TMA1440R01 | TPA1440R01 | | | IN 2505 |
| 14,5 | TNA1450R01 | | | | | | IN 05S |
| 14,5 | | TKA1450R01 | TMA1450R01 | TPA1450R01 | TPC1450R01 | TPF1450R01 | IN 2505 |
| 14,6 | | TKA1460R01 | TMA1460R01 | TPA1460R01 | | | IN 2505 |
| 14,7 | | TKA1470R01 | TMA1470R01 | TPA1470R01 | | | IN 2505 |
| 14,8 | | TKA1480R01 | TMA1480R01 | TPA1480R01 | | | IN 2505 |
| 14,9 | | TKA1490R01 | TMA1490R01 | TPA1490R01 | | | IN 2505 |
| 15,0 | TNA1500R01 | | | | | | IN 05S |
| 15,0 | | TKA1500R01 | TMA1500R01 | TPA1500R01 | TPC1500R01 | TPF1500R01 | IN 2505 |
| 15,1 | | TKA1510R01 | TMA1510R01 | TPA1510R01 | | | IN 2505 |
| 15,2 | | TKA1520R01 | TMA1520R01 | TPA1520R01 | | | IN 2505 |
| 15,3 | | TKA1530R01 | TMA1530R01 | TPA1530R01 | | | IN 2505 |
| 15,4 | | TKA1540R01 | TMA1540R01 | TPA1540R01 | | | IN 2505 |
| 15,5 | TNA1550R01 | | | | | | IN 05S |
| 15,5 | | TKA1550R01 | TMA1550R01 | TPA1550R01 | TPC1550R01 | TPF1550R01 | IN 2505 |
| 15,6 | | TKA1560R01 | TMA1560R01 | TPA1560R01 | | | IN 2505 |
| 15,7 | | TKA1570R01 | TMA1570R01 | TPA1570R01 | | | IN 2505 |
| 15,8 | | TKA1580R01 | TMA1580R01 | TPA1580R01 | | | IN 2505 |
| 15,9 | | TKA1590R01 | TMA1590R01 | TPA1590R01 | | | IN 2505 |
| 16,0 | TNA1600R01 | | | | | | IN 05S |
| 16,0 | | TKA1600R01 | TMA1600R01 | TPA1600R01 | TPC1600R01 | TPF1600R01 | IN 2505 |
| 16,1 | | TKA1610R01 | TMA1610R01 | TPA1610R01 | | | IN 2505 |
| 16,2 | | TKA1620R01 | TMA1620R01 | TPA1620R01 | | | IN 2505 |
| 16,3 | | TKA1630R01 | TMA1630R01 | TPA1630R01 | | | IN 2505 |
| 16,4 | | TKA1640R01 | TMA1640R01 | TPA1640R01 | | | IN 2505 |
| 16,5 | TNA1650R01 | | | | | | IN 05S |
| 16,5 | | TKA1650R01 | TMA1650R01 | TPA1650R01 | TPC1650R01 | TPF1650R01 | IN 2505 |
| 16,6 | | TKA1660R01 | TMA1660R01 | TPA1660R01 | | | IN 2505 |
| 16,7 | | TKA1670R01 | TMA1670R01 | TPA1670R01 | | | IN 2505 |
| 16,8 | | TKA1680R01 | TMA1680R01 | TPA1680R01 | | | IN 2505 |
| 16,9 | | TKA1690R01 | TMA1690R01 | TPA1690R01 | | | IN 2505 |
| 17,0 | TNA1700R01 | | | | | | IN 05S |
| 17,0 | | TKA1700R01 | TMA1700R01 | TPA1700R01 | TPC1700R01 | TPF1700R01 | IN 2505 |
| 17,1 | | TKA1710R01 | TMA1710R01 | TPA1710R01 | | | IN 2505 |
| 17,2 | | TKA1720R01 | TMA1720R01 | TPA1720R01 | | | IN 2505 |
| 17,3 | | TKA1730R01 | TMA1730R01 | TPA1730R01 | | | IN 2505 |
| 17,4 | | TKA1740R01 | TMA1740R01 | TPA1740R01 | | | IN 2505 |



BORING HEADS FOR WINTWIST
EMBOUTS DE PERÇAGE POUR WINTWIST

| D | Designation / Réf. de l'article | | | | | | |
|------|---------------------------------|--------------|------------------------|---------------|-------------------|-------------------------|----------------|
| | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | Flat Bottom / Fond Plat | Grade / Nuance |
| 17,5 | TNA1750R01 | | | | | | IN 05S |
| 17,5 | | TKA1750R01 | TMA1750R01 | TPA1750R01 | TPC1750R01 | TPF1750R01 | IN 2505 |
| 17,6 | | TKA1760R01 | TMA1760R01 | TPA1760R01 | | | IN 2505 |
| 17,7 | | TKA1770R01 | TMA1770R01 | TPA1770R01 | | | IN 2505 |
| 17,8 | | TKA1780R01 | TMA1780R01 | TPA1780R01 | | | IN 2505 |
| 17,9 | | TKA1790R01 | TMA1790R01 | TPA1790R01 | | | IN 2505 |
| 18,0 | TNA1800R01 | | | | | | IN 05S |
| 18,0 | | TKA1800R01 | TMA1800R01 | TPA1800R01 | TPC1800R01 | TPF1800R01 | IN 2505 |
| 18,1 | | TKA1810R01 | TMA1810R01 | TPA1810R01 | | | IN 2505 |
| 18,2 | | TKA1820R01 | TMA1820R01 | TPA1820R01 | | | IN 2505 |
| 18,3 | | TKA1830R01 | TMA1830R01 | TPA1830R01 | | | IN 2505 |
| 18,4 | | TKA1840R01 | TMA1840R01 | TPA1840R01 | | | IN 2505 |
| 18,5 | TNA1850R01 | | | | | | IN 05S |
| 18,5 | | TKA1850R01 | TMA1850R01 | TPA1850R01 | TPC1850R01 | TPF1850R01 | IN 2505 |
| 18,6 | | TKA1860R01 | TMA1860R01 | TPA1860R01 | | | IN 2505 |
| 18,7 | | TKA1870R01 | TMA1870R01 | TPA1870R01 | | | IN 2505 |
| 18,8 | | TKA1880R01 | TMA1880R01 | TPA1880R01 | | | IN 2505 |
| 18,9 | | TKA1890R01 | TMA1890R01 | TPA1890R01 | | | IN 2505 |
| 19,0 | TNA1900R01 | | | | | | IN 05S |
| 19,0 | | TKA1900R01 | TMA1900R01 | TPA1900R01 | TPC1900R01 | TPF1900R01 | IN 2505 |
| 19,1 | | TKA1910R01 | TMA1910R01 | TPA1910R01 | | | IN 2505 |
| 19,2 | | TKA1920R01 | TMA1920R01 | TPA1920R01 | | | IN 2505 |
| 19,3 | | TKA1930R01 | TMA1930R01 | TPA1930R01 | | | IN 2505 |
| 19,4 | | TKA1940R01 | TMA1940R01 | TPA1940R01 | | | IN 2505 |
| 19,5 | TNA1950R01 | | | | | | IN 05S |
| 19,5 | | TKA1950R01 | TMA1950R01 | TPA1950R01 | TPC1950R01 | TPF1950R01 | IN 2505 |
| 19,6 | | TKA1960R01 | TMA1960R01 | TPA1960R01 | | | IN 2505 |
| 19,7 | | TKA1970R01 | TMA1970R01 | TPA1970R01 | | | IN 2505 |
| 19,8 | | TKA1980R01 | TMA1980R01 | TPA1980R01 | | | IN 2505 |
| 19,9 | | TKA1990R01 | TMA1990R01 | TPA1990R01 | | | IN 2505 |
| 20,0 | TNA2000R01 | | | | | | IN 05S |
| 20,0 | | TKA2000R01 | TMA2000R01 | TPA2000R01 | TPC2000R01 | TPF2000R01 | IN 2505 |
| 20,1 | | TKA2010R01 | TMA2010R01 | TPA2010R01 | | | IN 2505 |
| 20,2 | | TKA2020R01 | TMA2020R01 | TPA2020R01 | | | IN 2505 |
| 20,3 | | TKA2030R01 | TMA2030R01 | TPA2030R01 | | | IN 2505 |
| 20,4 | | TKA2040R01 | TMA2040R01 | TPA2040R01 | | | IN 2505 |
| 20,5 | TNA2050R01 | | | | | | IN 05S |
| 20,5 | | TKA2050R01 | TMA2050R01 | TPA2050R01 | TPC2050R01 | TPF2050R01 | IN 2505 |
| 20,6 | | TKA2060R01 | TMA2060R01 | TPA2060R01 | | | IN 2505 |
| 20,7 | | TKA2070R01 | TMA2070R01 | TPA2070R01 | | | IN 2505 |
| 20,8 | | TKA2080R01 | TMA2080R01 | TPA2080R01 | | | IN 2505 |
| 20,9 | | TKA2090R01 | TMA2090R01 | TPA2090R01 | | | IN 2505 |

MUDULAR DEEPTWIST
 ATTACHEMENT MODULAIRE DEEPTWIST

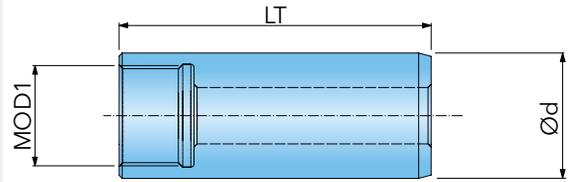


| Designation Réf. de l'article | D | D min. | D max. | d1 | d8 | LT | L | L1 | H | f | M | Z | Key | | |
|----------------------------------|------|--------|--------|----|------|-------|-----|-----|----|----|-------|---|--------------|---|-------|
| TD1000200MTR00 | 10,0 | 10,0 | 10,4 | 24 | 9,6 | 285,5 | 274 | 200 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,140 |
| TD1000400MTR00 | 10,0 | 10,0 | 10,4 | 24 | 9,6 | 485,5 | 474 | 400 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,175 |
| TD1050200MTR00 | 10,5 | 10,5 | 10,9 | 24 | 10,1 | 285,5 | 274 | 200 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,140 |
| TD1050400MTR00 | 10,5 | 10,5 | 10,9 | 24 | 10,1 | 485,5 | 474 | 400 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,185 |
| TD1100200MTR00 | 11,0 | 11,0 | 11,4 | 24 | 10,6 | 286,5 | 275 | 200 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,140 |
| TD1100400MTR00 | 11,0 | 11,0 | 11,4 | 24 | 10,6 | 485,5 | 474 | 400 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,200 |
| TD1150200MTR00 | 11,5 | 11,5 | 11,9 | 24 | 11,1 | 286,5 | 275 | 200 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,150 |
| TD1150400MTR00 | 11,5 | 11,5 | 11,9 | 24 | 11,1 | 485,5 | 474 | 400 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,220 |
| TD1200200MTR00 | 12,0 | 12,0 | 12,4 | 24 | 11,6 | 286,5 | 275 | 200 | 10 | 12 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,160 |
| TD1200400MTR00 | 12,0 | 12,0 | 12,4 | 24 | 11,6 | 486,5 | 475 | 400 | 10 | 10 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,240 |
| TD1250200MTR00 | 12,5 | 12,5 | 12,9 | 24 | 12,1 | 286,5 | 275 | 200 | 12 | 12 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,170 |
| TD1250400MTR00 | 12,5 | 12,5 | 12,9 | 24 | 12,1 | 486,5 | 475 | 400 | 12 | 12 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,260 |
| TD1300200MTR00 | 13,0 | 13,0 | 13,4 | 24 | 12,6 | 287,5 | 276 | 200 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,180 |
| TD1300250MTR00 | 13,0 | 13,0 | 13,4 | 24 | 12,6 | 337,5 | 326 | 250 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,190 |
| TD1300400MTR00 | 13,0 | 13,0 | 13,4 | 24 | 12,6 | 487,5 | 476 | 400 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,270 |
| TD1350200MTR00 | 13,5 | 13,5 | 13,9 | 24 | 13,1 | 287,5 | 276 | 200 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,190 |
| TD1350250MTR00 | 13,5 | 13,5 | 13,9 | 24 | 13,1 | 337,5 | 326 | 250 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,210 |
| TD1350400MTR00 | 13,5 | 13,5 | 13,9 | 24 | 13,1 | 487,5 | 476 | 400 | 12 | 13 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,290 |
| TD1400200MTR00 | 14,0 | 14,0 | 14,4 | 24 | 13,6 | 287,5 | 276 | 200 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,210 |
| TD1400250MTR00 | 14,0 | 14,0 | 14,4 | 24 | 13,6 | 337,5 | 326 | 250 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,230 |
| TD1400400MTR00 | 14,0 | 14,0 | 14,4 | 24 | 13,6 | 487,5 | 476 | 400 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,310 |
| TD1450200MTR00 | 14,5 | 14,5 | 14,9 | 24 | 14,1 | 287,5 | 276 | 200 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,220 |
| TD1450250MTR00 | 14,5 | 14,5 | 14,9 | 24 | 14,1 | 337,5 | 326 | 250 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,235 |
| TD1450400MTR00 | 14,5 | 14,5 | 14,9 | 24 | 14,1 | 487,5 | 476 | 400 | 12 | 14 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,330 |
| TD1500400MTR00 | 15,0 | 15,0 | 15,9 | 24 | 14,6 | 495,5 | 484 | 400 | 12 | 15 | M16x1 | 2 | KTD10.0-19.9 | ✓ | 0,350 |
| TD1600400MUR00 | 16,0 | 16,0 | 16,9 | 34 | 15,4 | 495,5 | 484 | 400 | 12 | 16 | M20x1 | 2 | KTD10.0-19.9 | ✓ | 0,410 |
| TD1700400MUR00 | 17,0 | 17,0 | 17,9 | 34 | 16,4 | 496,5 | 485 | 400 | 12 | 16 | M20x1 | 2 | KTD10.0-19.9 | ✓ | 0,490 |
| TD1800400MUR00 | 18,0 | 18,0 | 18,9 | 34 | 17,4 | 497,5 | 486 | 400 | 12 | 16 | M20x1 | 2 | KTD10.0-19.9 | ✓ | 0,510 |
| TD1900400MUR00 | 19,0 | 19,0 | 19,9 | 34 | 18,4 | 497,5 | 486 | 400 | 12 | 19 | M20x1 | 2 | KTD10.0-19.9 | ✓ | 0,540 |
| TD2000400MUR00 | 20,0 | 20,0 | 20,9 | 34 | 19,4 | 498,5 | 487 | 400 | 12 | 20 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 0,580 |
| TD2100400MUR00 | 21,0 | 21,0 | 21,9 | 34 | 20,4 | 514,5 | 503 | 400 | 21 | 22 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 0,630 |
| TD2200400MUR00 | 22,0 | 22,0 | 22,9 | 34 | 21,4 | 515,5 | 504 | 400 | 21 | 22 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 0,700 |
| TD2300400MUR00 | 23,0 | 23,0 | 23,9 | 34 | 22,4 | 515,5 | 504 | 400 | 21 | 22 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 0,780 |
| TD2400400MUR00 | 24,0 | 24,0 | 24,9 | 34 | 23,4 | 516,5 | 505 | 400 | 21 | 22 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 0,895 |
| TD2500400MUR00 | 25,0 | 25,0 | 25,9 | 34 | 24,4 | 517,5 | 506 | 400 | 21 | 25 | M20x1 | 2 | KTD20.0-26.9 | ✓ | 1,215 |



DEEPTWIST SLEEVE WITH THREAD CONNECTION
MANCHON AVEC RACCORD FILETÉ

cylindrical shank / Queue Cylindrique

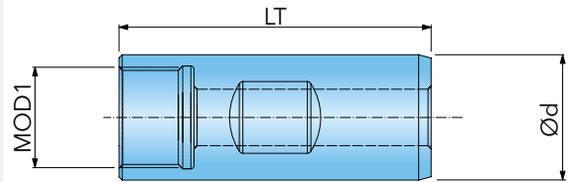


modular / Modulaire

| Designation Réf. de l'article | MOD1 | d | LT | | |
|----------------------------------|-------|----|----|---|----|
| GDV10-MF16X1-M-C20 | M16x1 | 20 | 50 | ✓ | 11 |
| GDV11-MF20X1-M-C25 | M20x1 | 25 | 56 | ✓ | 21 |
| GDV12-MF20X1-M-C32 | M20x1 | 32 | 60 | ✓ | 34 |
| GDV13-MF20X1-M-C40 | M20x1 | 40 | 70 | ✓ | 65 |

DEEPTWIST SLEEVE WITH THREAD CONNECTION WELDON
MANCHON WELDON AVEC RACCORD FILETÉ

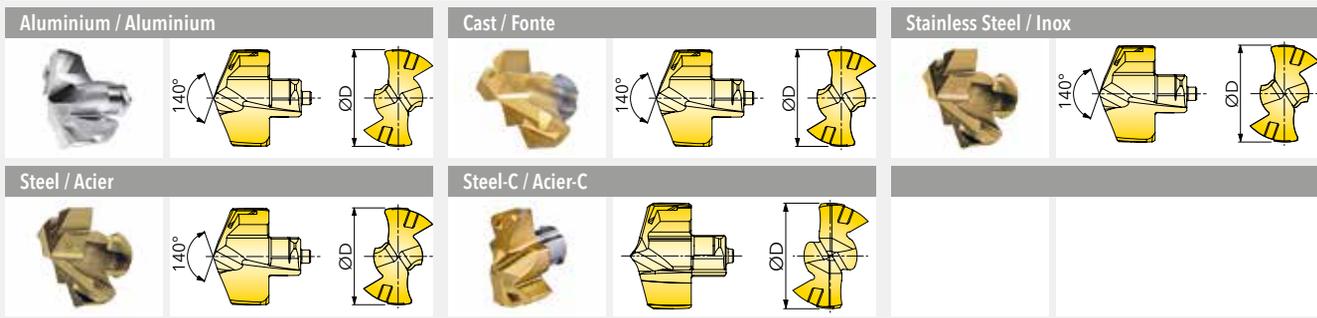
DIN 6359/ DIN1835-B / DIN 6359/ DIN1835-B



modular / Modulaire

| Designation Réf. de l'article | MOD1 | d | LT | | |
|----------------------------------|-------|----|----|---|------|
| GDV22-MF16X1-M-W20 | M16x1 | 20 | 50 | ✓ | 0,10 |
| GDV23-MF20X1-M-W25 | M20x1 | 25 | 56 | ✓ | 0,20 |
| GDV24-MF20X1-M-W32 | M20x1 | 32 | 60 | ✓ | 0,33 |
| GDV25-MF20X1-M-W40 | M20x1 | 40 | 70 | ✓ | 0,63 |

BORING HEADS FOR DEEPTWIST
EMBOUS DE PERÇAGE POUR DEEPTWIST



| Designation / Réf. de l'article | | | | | | |
|---------------------------------|-----------------------|--------------|------------------------|---------------|-------------------|----------------|
| D | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | Grade / Nuance |
| 10,0 | TNA1000R01 | | | | | IN 05S |
| 10,0 | | TKA1000R01 | TMA1000R01 | TPA1000R01 | TPC1000R01 | IN 2505 |
| 10,1 | | TKA1010R01 | TMA1010R01 | TPA1010R01 | | IN 2505 |
| 10,2 | TNA1020R01 | | | | | IN 05S |
| 10,2 | | TKA1020R01 | TMA1020R01 | TPA1020R01 | TPC1020R01 | IN 2505 |
| 10,3 | | TKA1030R01 | TMA1030R01 | TPA1030R01 | | IN 2505 |
| 10,4 | | TKA1040R01 | TMA1040R01 | TPA1040R01 | | IN 2505 |
| 10,5 | TNA1050R01 | | | | | IN 05S |
| 10,5 | | TKA1050R01 | TMA1050R01 | TPA1050R01 | TPC1050R01 | IN 2505 |
| 10,6 | | TKA1060R01 | TMA1060R01 | TPA1060R01 | | IN 2505 |
| 10,7 | | TKA1070R01 | TMA1070R01 | TPA1070R01 | | IN 2505 |
| 10,8 | | TKA1080R01 | TMA1080R01 | TPA1080R01 | | IN 2505 |
| 10,9 | | TKA1090R01 | TMA1090R01 | TPA1090R01 | | IN 2505 |
| 11,0 | TNA1100R01 | | | | | IN 05S |
| 11,0 | | TKA1100R01 | TMA1100R01 | TPA1100R01 | TPC1100R01 | IN 2505 |
| 11,1 | | TKA1110R01 | TMA1110R01 | TPA1110R01 | | IN 2505 |
| 11,2 | | TKA1120R01 | TMA1120R01 | TPA1120R01 | | IN 2505 |
| 11,3 | | TKA1130R01 | TMA1130R01 | TPA1130R01 | | IN 2505 |
| 11,4 | | TKA1140R01 | TMA1140R01 | TPA1140R01 | | IN 2505 |
| 11,5 | TNA1150R01 | | | | | IN 05S |
| 11,5 | | TKA1150R01 | TMA1150R01 | TPA1150R01 | TPC1150R01 | IN 2505 |
| 11,6 | | TKA1160R01 | TMA1160R01 | TPA1160R01 | | IN 2505 |
| 11,7 | | TKA1170R01 | TMA1170R01 | TPA1170R01 | | IN 2505 |
| 11,8 | | TKA1180R01 | TMA1180R01 | TPA1180R01 | | IN 2505 |
| 11,9 | | TKA1190R01 | TMA1190R01 | TPA1190R01 | | IN 2505 |
| 12,0 | TNA1200R01 | | | | | IN 05S |
| 12,0 | | TKA1200R01 | TMA1200R01 | TPA1200R01 | TPC1200R01 | IN 2505 |
| 12,1 | | TKA1210R01 | TMA1210R01 | TPA1210R01 | | IN 2505 |
| 12,2 | | TKA1220R01 | TMA1220R01 | TPA1220R01 | | IN 2505 |
| 12,3 | | TKA1230R01 | TMA1230R01 | TPA1230R01 | | IN 2505 |
| 12,4 | | TKA1240R01 | TMA1240R01 | TPA1240R01 | | IN 2505 |
| 12,5 | TNA1250R01 | | | | | IN 05S |
| 12,5 | | TKA1250R01 | TMA1250R01 | TPA1250R01 | TPC1250R01 | IN 2505 |
| 12,6 | | TKA1260R01 | TMA1260R01 | TPA1260R01 | | IN 2505 |
| 12,7 | | TKA1270R01 | TMA1270R01 | TPA1270R01 | TPC1270R01 | IN 2505 |
| 12,8 | | TKA1280R01 | TMA1280R01 | TPA1280R01 | | IN 2505 |
| 12,9 | | TKA1290R01 | TMA1290R01 | TPA1290R01 | | IN 2505 |
| 13,0 | TNA1300R01 | | | | | IN 05S |
| 13,0 | | TKA1300R01 | TMA1300R01 | TPA1300R01 | TPC1300R01 | IN 2505 |
| 13,1 | | TKA1310R01 | TMA1310R01 | TPA1310R01 | | IN 2505 |



BORING HEADS FOR DEEPTWIST
EMBOUITS DE PERÇAGE POUR DEEPTWIST

| D | Designation / Réf. de l'article | | | | | Grade / Nuance |
|------|---------------------------------|--------------|------------------------|---------------|-------------------|----------------|
| | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | |
| 13,2 | | TKA1320R01 | TMA1320R01 | TPA1320R01 | | IN 2505 |
| 13,3 | | TKA1330R01 | TMA1330R01 | TPA1330R01 | | IN 2505 |
| 13,4 | | TKA1340R01 | TMA1340R01 | TPA1340R01 | | IN 2505 |
| 13,5 | TNA1350R01 | | | | | IN 05S |
| 13,5 | | TKA1350R01 | TMA1350R01 | TPA1350R01 | TPC1350R01 | IN 2505 |
| 13,6 | | TKA1360R01 | TMA1360R01 | TPA1360R01 | | IN 2505 |
| 13,7 | | TKA1370R01 | TMA1370R01 | TPA1370R01 | | IN 2505 |
| 13,8 | | TKA1380R01 | TMA1380R01 | TPA1380R01 | | IN 2505 |
| 13,9 | | TKA1390R01 | TMA1390R01 | TPA1390R01 | | IN 2505 |
| 14,0 | TNA1400R01 | | | | | IN 05S |
| 14,0 | | TKA1400R01 | TMA1400R01 | TPA1400R01 | TPC1400R01 | IN 2505 |
| 14,1 | | TKA1410R01 | TMA1410R01 | TPA1410R01 | | IN 2505 |
| 14,2 | | TKA1420R01 | TMA1420R01 | TPA1420R01 | | IN 2505 |
| 14,3 | | TKA1430R01 | TMA1430R01 | TPA1430R01 | | IN 2505 |
| 14,4 | | TKA1440R01 | TMA1440R01 | TPA1440R01 | | IN 2505 |
| 14,5 | TNA1450R01 | | | | | IN 05S |
| 14,5 | | TKA1450R01 | TMA1450R01 | TPA1450R01 | TPC1450R01 | IN 2505 |
| 14,6 | | TKA1460R01 | TMA1460R01 | TPA1460R01 | | IN 2505 |
| 14,7 | | TKA1470R01 | TMA1470R01 | TPA1470R01 | | IN 2505 |
| 14,8 | | TKA1480R01 | TMA1480R01 | TPA1480R01 | | IN 2505 |
| 14,9 | | TKA1490R01 | TMA1490R01 | TPA1490R01 | | IN 2505 |
| 15,0 | TNA1500R01 | | | | | IN 05S |
| 15,0 | | TKA1500R01 | TMA1500R01 | TPA1500R01 | TPC1500R01 | IN 2505 |
| 15,1 | | TKA1510R01 | TMA1510R01 | TPA1510R01 | | IN 2505 |
| 15,2 | | TKA1520R01 | TMA1520R01 | TPA1520R01 | | IN 2505 |
| 15,3 | | TKA1530R01 | TMA1530R01 | TPA1530R01 | | IN 2505 |
| 15,4 | | TKA1540R01 | TMA1540R01 | TPA1540R01 | | IN 2505 |
| 15,5 | TNA1550R01 | | | | | IN 05S |
| 15,5 | | TKA1550R01 | TMA1550R01 | TPA1550R01 | TPC1550R01 | IN 2505 |
| 15,6 | | TKA1560R01 | TMA1560R01 | TPA1560R01 | | IN 2505 |
| 15,7 | | TKA1570R01 | TMA1570R01 | TPA1570R01 | | IN 2505 |
| 15,8 | | TKA1580R01 | TMA1580R01 | TPA1580R01 | | IN 2505 |
| 15,9 | | TKA1590R01 | TMA1590R01 | TPA1590R01 | | IN 2505 |
| 16,0 | TNA1600R01 | | | | | IN 05S |
| 16,0 | | TKA1600R01 | TMA1600R01 | TPA1600R01 | TPC1600R01 | IN 2505 |
| 16,1 | | TKA1610R01 | TMA1610R01 | TPA1610R01 | | IN 2505 |
| 16,2 | | TKA1620R01 | TMA1620R01 | TPA1620R01 | | IN 2505 |
| 16,3 | | TKA1630R01 | TMA1630R01 | TPA1630R01 | | IN 2505 |
| 16,4 | | TKA1640R01 | TMA1640R01 | TPA1640R01 | | IN 2505 |
| 16,5 | TNA1650R01 | | | | | IN 05S |
| 16,5 | | TKA1650R01 | TMA1650R01 | TPA1650R01 | TPC1650R01 | IN 2505 |
| 16,6 | | TKA1660R01 | TMA1660R01 | TPA1660R01 | | IN 2505 |
| 16,7 | | TKA1670R01 | TMA1670R01 | TPA1670R01 | | IN 2505 |
| 16,8 | | TKA1680R01 | TMA1680R01 | TPA1680R01 | | IN 2505 |
| 16,9 | | TKA1690R01 | TMA1690R01 | TPA1690R01 | | IN 2505 |
| 17,0 | TNA1700R01 | | | | | IN 05S |
| 17,0 | | TKA1700R01 | TMA1700R01 | TPA1700R01 | TPC1700R01 | IN 2505 |
| 17,1 | | TKA1710R01 | TMA1710R01 | TPA1710R01 | | IN 2505 |
| 17,2 | | TKA1720R01 | TMA1720R01 | TPA1720R01 | | IN 2505 |
| 17,3 | | TKA1730R01 | TMA1730R01 | TPA1730R01 | | IN 2505 |

BORING HEADS FOR DEEPTWIST
EMBOUS DE PERÇAGE POUR DEEPTWIST

| D | Designation / Réf. de l'article | | | | | Grade / Nuance |
|------|---------------------------------|--------------|------------------------|---------------|-------------------|----------------|
| | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | |
| 17,4 | | TKA1740R01 | TMA1740R01 | TPA1740R01 | | IN 2505 |
| 17,5 | TNA1750R01 | | | | | IN 05S |
| 17,5 | | TKA1750R01 | TMA1750R01 | TPA1750R01 | TPC1750R01 | IN 2505 |
| 17,6 | | TKA1760R01 | TMA1760R01 | TPA1760R01 | | IN 2505 |
| 17,7 | | TKA1770R01 | TMA1770R01 | TPA1770R01 | | IN 2505 |
| 17,8 | | TKA1780R01 | TMA1780R01 | TPA1780R01 | | IN 2505 |
| 17,9 | | TKA1790R01 | TMA1790R01 | TPA1790R01 | | IN 2505 |
| 18,0 | TNA1800R01 | | | | | IN 05S |
| 18,0 | | TKA1800R01 | TMA1800R01 | TPA1800R01 | TPC1800R01 | IN 2505 |
| 18,1 | | TKA1810R01 | TMA1810R01 | TPA1810R01 | | IN 2505 |
| 18,2 | | TKA1820R01 | TMA1820R01 | TPA1820R01 | | IN 2505 |
| 18,3 | | TKA1830R01 | TMA1830R01 | TPA1830R01 | | IN 2505 |
| 18,4 | | TKA1840R01 | TMA1840R01 | TPA1840R01 | | IN 2505 |
| 18,5 | TNA1850R01 | | | | | IN 05S |
| 18,5 | | TKA1850R01 | TMA1850R01 | TPA1850R01 | TPC1850R01 | IN 2505 |
| 18,6 | | TKA1860R01 | TMA1860R01 | TPA1860R01 | | IN 2505 |
| 18,7 | | TKA1870R01 | TMA1870R01 | TPA1870R01 | | IN 2505 |
| 18,8 | | TKA1880R01 | TMA1880R01 | TPA1880R01 | | IN 2505 |
| 18,9 | | TKA1890R01 | TMA1890R01 | TPA1890R01 | | IN 2505 |
| 19,0 | TNA1900R01 | | | | | IN 05S |
| 19,0 | | TKA1900R01 | TMA1900R01 | TPA1900R01 | TPC1900R01 | IN 2505 |
| 19,1 | | TKA1910R01 | TMA1910R01 | TPA1910R01 | | IN 2505 |
| 19,2 | | TKA1920R01 | TMA1920R01 | TPA1920R01 | | IN 2505 |
| 19,3 | | TKA1930R01 | TMA1930R01 | TPA1930R01 | | IN 2505 |
| 19,4 | | TKA1940R01 | TMA1940R01 | TPA1940R01 | | IN 2505 |
| 19,5 | TNA1950R01 | | | | | IN 05S |
| 19,5 | | TKA1950R01 | TMA1950R01 | TPA1950R01 | TPC1950R01 | IN 2505 |
| 19,6 | | TKA1960R01 | TMA1960R01 | TPA1960R01 | | IN 2505 |
| 19,7 | | TKA1970R01 | TMA1970R01 | TPA1970R01 | | IN 2505 |
| 19,8 | | TKA1980R01 | TMA1980R01 | TPA1980R01 | | IN 2505 |
| 19,9 | | TKA1990R01 | TMA1990R01 | TPA1990R01 | | IN 2505 |
| 20,0 | TNA2000R01 | | | | | IN 05S |
| 20,0 | | TKA2000R01 | TMA2000R01 | TPA2000R01 | TPC2000R01 | IN 2505 |
| 20,1 | | TKA2010R01 | TMA2010R01 | TPA2010R01 | | IN 2505 |
| 20,2 | | TKA2020R01 | TMA2020R01 | TPA2020R01 | | IN 2505 |
| 20,3 | | TKA2030R01 | TMA2030R01 | TPA2030R01 | | IN 2505 |
| 20,4 | | TKA2040R01 | TMA2040R01 | TPA2040R01 | | IN 2505 |
| 20,5 | TNA2050R01 | | | | | IN 05S |
| 20,5 | | TKA2050R01 | TMA2050R01 | TPA2050R01 | TPC2050R01 | IN 2505 |
| 20,6 | | TKA2060R01 | TMA2060R01 | TPA2060R01 | | IN 2505 |
| 20,7 | | TKA2070R01 | TMA2070R01 | TPA2070R01 | | IN 2505 |
| 20,8 | | TKA2080R01 | TMA2080R01 | TPA2080R01 | | IN 2505 |
| 20,9 | | TKA2090R01 | TMA2090R01 | TPA2090R01 | | IN 2505 |
| 21,0 | TNA2100R01 | | | | | IN 05S |
| 21,0 | | TKA2100R01 | TMA2100R01 | TPA2100R01 | TPC2100R01 | IN 2505 |
| 21,1 | | TKA2110R01 | TMA2110R01 | TPA2110R01 | | IN 2505 |
| 21,2 | | TKA2120R01 | TMA2120R01 | TPA2120R01 | | IN 2505 |
| 21,3 | | TKA2130R01 | TMA2130R01 | TPA2130R01 | | IN 2505 |
| 21,4 | | TKA2140R01 | TMA2140R01 | TPA2140R01 | | IN 2505 |
| 21,5 | TNA2150R01 | | | | | IN 05S |



BORING HEADS FOR DEEPTWIST
EMBOUTS DE PERÇAGE POUR DEEPTWIST

| D | Designation / Réf. de l'article | | | | | Grade / Nuance |
|------|---------------------------------|--------------|------------------------|---------------|-------------------|----------------|
| | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | |
| 21,5 | | TKA2150R01 | TMA2150R01 | TPA2150R01 | TPC2150R01 | IN 2505 |
| 21,6 | | TKA2160R01 | TMA2160R01 | TPA2160R01 | | IN 2505 |
| 21,7 | | TKA2170R01 | TMA2170R01 | TPA2170R01 | | IN 2505 |
| 21,8 | | TKA2180R01 | TMA2180R01 | TPA2180R01 | | IN 2505 |
| 21,9 | | TKA2190R01 | TMA2190R01 | TPA2190R01 | | IN 2505 |
| 22,0 | TNA2200R01 | | | | | IN 05S |
| 22,0 | | TKA2200R01 | TMA2200R01 | TPA2200R01 | TPC2200R01 | IN 2505 |
| 22,1 | | TKA2210R01 | TMA2210R01 | TPA2210R01 | | IN 2505 |
| 22,2 | | TKA2220R01 | TMA2220R01 | TPA2220R01 | | IN 2505 |
| 22,3 | | TKA2230R01 | TMA2230R01 | TPA2230R01 | | IN 2505 |
| 22,4 | | TKA2240R01 | TMA2240R01 | TPA2240R01 | | IN 2505 |
| 22,5 | TNA2250R01 | | | | | IN 05S |
| 22,5 | | TKA2250R01 | TMA2250R01 | TPA2250R01 | TPC2250R01 | IN 2505 |
| 22,6 | | TKA2260R01 | TMA2260R01 | TPA2260R01 | | IN 2505 |
| 22,7 | | TKA2270R01 | TMA2270R01 | TPA2270R01 | | IN 2505 |
| 22,8 | | TKA2280R01 | TMA2280R01 | TPA2280R01 | | IN 2505 |
| 22,9 | | TKA2290R01 | TMA2290R01 | TPA2290R01 | | IN 2505 |
| 23,0 | TNA2300R01 | | | | | IN 05S |
| 23,0 | | TKA2300R01 | TMA2300R01 | TPA2300R01 | TPC2300R01 | IN 2505 |
| 23,1 | | TKA2310R01 | TMA2310R01 | TPA2310R01 | | IN 2505 |
| 23,2 | | TKA2320R01 | TMA2320R01 | TPA2320R01 | | IN 2505 |
| 23,3 | | TKA2330R01 | TMA2330R01 | TPA2330R01 | | IN 2505 |
| 23,4 | | TKA2340R01 | TMA2340R01 | TPA2340R01 | | IN 2505 |
| 23,5 | TNA2350R01 | | | | | IN 05S |
| 23,5 | | TKA2350R01 | TMA2350R01 | TPA2350R01 | TPC2350R01 | IN 2505 |
| 23,6 | | TKA2360R01 | TMA2360R01 | TPA2360R01 | | IN 2505 |
| 23,7 | | TKA2370R01 | TMA2370R01 | TPA2370R01 | | IN 2505 |
| 23,8 | | TKA2380R01 | TMA2380R01 | TPA2380R01 | | IN 2505 |
| 23,9 | | TKA2390R01 | TMA2390R01 | TPA2390R01 | | IN 2505 |
| 24,0 | TNA2400R01 | | | | | IN 05S |
| 24,0 | | TKA2400R01 | TMA2400R01 | TPA2400R01 | TPC2400R01 | IN 2505 |
| 24,1 | | TKA2410R01 | TMA2410R01 | TPA2410R01 | | IN 2505 |
| 24,2 | | TKA2420R01 | TMA2420R01 | TPA2420R01 | | IN 2505 |
| 24,3 | | TKA2430R01 | TMA2430R01 | TPA2430R01 | | IN 2505 |
| 24,4 | | TKA2440R01 | TMA2440R01 | TPA2440R01 | | IN 2505 |
| 24,5 | TNA2450R01 | | | | | IN 05S |
| 24,5 | | TKA2450R01 | TMA2450R01 | TPA2450R01 | TPC2450R01 | IN 2505 |
| 24,6 | | TKA2460R01 | TMA2460R01 | TPA2460R01 | | IN 2505 |
| 24,7 | | TKA2470R01 | TMA2470R01 | TPA2470R01 | | IN 2505 |
| 24,8 | | TKA2480R01 | TMA2480R01 | TPA2480R01 | | IN 2505 |
| 24,9 | | TKA2490R01 | TMA2490R01 | TPA2490R01 | | IN 2505 |
| 25,0 | TNA2500R01 | | | | | IN 05S |
| 25,0 | | TKA2500R01 | TMA2500R01 | TPA2500R01 | TPC2500R01 | IN 2505 |
| 25,1 | | TKA2510R01 | TMA2510R01 | TPA2510R01 | | IN 2505 |
| 25,2 | | TKA2520R01 | TMA2520R01 | TPA2520R01 | | IN 2505 |
| 25,3 | | TKA2530R01 | TMA2530R01 | TPA2530R01 | | IN 2505 |
| 25,4 | | TKA2540R01 | TMA2540R01 | TPA2540R01 | | IN 2505 |
| 25,5 | TNA2550R01 | | | | | IN 05S |
| 25,5 | | TKA2550R01 | TMA2550R01 | TPA2550R01 | TPC2550R01 | IN 2505 |
| 25,6 | | TKA2560R01 | TMA2560R01 | TPA2560R01 | | IN 2505 |

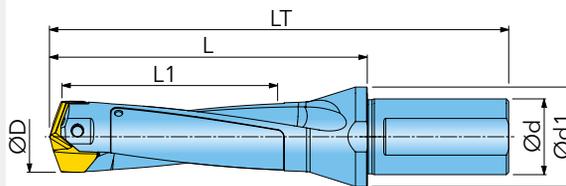
BORING HEADS FOR DEEPTWIST
EMBOUS DE PERÇAGE POUR DEEPTWIST

| D | Designation / Réf. de l'article | | | | | Grade / Nuance |
|------|---------------------------------|--------------|------------------------|---------------|-------------------|----------------|
| | Aluminium / Aluminium | Cast / Fonte | Stainless Steel / Inox | Steel / Acier | Steel-C / Acier-C | |
| 25,7 | | TKA2570R01 | TMA2570R01 | TPA2570R01 | | IN 2505 |
| 25,8 | | TKA2580R01 | TMA2580R01 | TPA2580R01 | | IN 2505 |
| 25,9 | | TKA2590R01 | TMA2590R01 | TPA2590R01 | TPC2590R01 | IN 2505 |



SPADETWIST HEAD CHANGEABLE DRILL 3D Ø20,0-Ø41,0 FORET À LAME 3D Ø20,0-Ø41,0

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | IK | kg |
|----------------------------------|----|--------|--------|----|----|-------|-------|-----|---|----|----|-------|
| LD2000060JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 148,1 | 92,1 | 60 | 2 | 20 | ✓ | 0,320 |
| LD2100063JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 151,3 | 95,3 | 63 | 2 | 21 | ✓ | 0,330 |
| LD2200066JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 154,4 | 98,4 | 66 | 2 | 22 | ✓ | 0,340 |
| LD2300069JFR00 | 23 | 23,0 | 23,9 | 25 | 32 | 157,6 | 101,6 | 69 | 2 | 23 | ✓ | 0,350 |
| LD2400072JGR00 | 24 | 24,0 | 24,9 | 32 | 40 | 170,7 | 110,7 | 72 | 2 | 24 | ✓ | 0,650 |
| LD2500075JGR00 | 25 | 25,0 | 25,9 | 32 | 40 | 173,9 | 113,9 | 75 | 2 | 25 | ✓ | 0,660 |
| LD2600078JGR00 | 26 | 26,0 | 26,9 | 32 | 40 | 177 | 117,0 | 78 | 2 | 26 | ✓ | 0,680 |
| LD2700081JGR00 | 27 | 27,0 | 27,9 | 32 | 40 | 180 | 120,0 | 81 | 2 | 27 | ✓ | 0,690 |
| LD2800084JGR00 | 28 | 28,0 | 28,9 | 32 | 40 | 188,4 | 128,4 | 84 | 2 | 28 | ✓ | 0,790 |
| LD2900087JGR00 | 29 | 29,0 | 29,9 | 32 | 40 | 191,4 | 131,4 | 87 | 2 | 29 | ✓ | 0,860 |
| LD3000090JGR00 | 30 | 30,0 | 30,9 | 32 | 42 | 194,7 | 134,7 | 90 | 2 | 30 | ✓ | 0,510 |
| LD3100093JGR00 | 31 | 31,0 | 31,9 | 32 | 42 | 197,7 | 137,7 | 93 | 2 | 31 | ✓ | 0,800 |
| LD3200096JHR00 | 32 | 32,0 | 32,9 | 40 | 48 | 211 | 143,0 | 96 | 2 | 32 | ✓ | 1,200 |
| LD3300099JHR00 | 33 | 33,0 | 33,9 | 40 | 48 | 214 | 146,0 | 99 | 2 | 33 | ✓ | 1,280 |
| LD3400102JHR00 | 34 | 34,0 | 34,9 | 40 | 48 | 217 | 149,0 | 102 | 2 | 34 | ✓ | 1,365 |
| LD3500105JHR00 | 35 | 35,0 | 35,9 | 40 | 48 | 220,4 | 152,4 | 105 | 2 | 35 | ✓ | 1,360 |
| LD3600108JHR00 | 36 | 36,0 | 36,9 | 40 | 48 | 223,4 | 155,4 | 108 | 2 | 36 | ✓ | 1,260 |
| LD3700111JHR00 | 37 | 37,0 | 37,9 | 40 | 48 | 226,4 | 158,4 | 111 | 2 | 37 | ✓ | 1,420 |
| LD3800114JHR00 | 38 | 38,0 | 38,9 | 40 | 50 | 234,9 | 166,9 | 114 | 2 | 38 | ✓ | 1,850 |
| LD3900117JHR00 | 39 | 39,0 | 39,9 | 40 | 50 | 237,9 | 169,9 | 117 | 2 | 39 | ✓ | 0,470 |
| LD4000120JHR00 | 40 | 40,0 | 41,0 | 40 | 50 | 240,9 | 172,9 | 120 | 2 | 40 | ✓ | 1,730 |

SPARE PARTS ACCESSOIRES

①



②



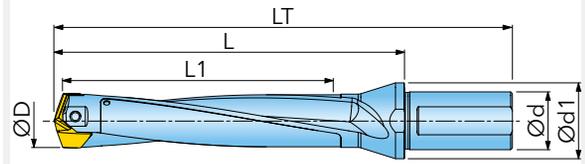
Diameter Range / Diamètres

| | | |
|---------|-------------|---------|
| 20 - 21 | TS 40178D25 | DS-T20T |
| 22 - 23 | TS 40198D28 | DS-T20T |
| 24 - 25 | TS 40210D3 | DS-T20T |
| 26 - 27 | TS 50230D3 | DS-T20T |
| 28 - 29 | TS 50250D35 | DS-T25T |
| 30 - 31 | TS 60265D4 | DS-T25T |
| 32 - 34 | TS 60285D42 | DS-T25T |
| 35 - 37 | TS 60320D5 | DS-T25T |
| 38 - 40 | TS 80340D6 | DS-T25T |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SPADETWIST HEAD CHANGEABLE DRILL 5D Ø20,0-Ø41,0
FORET À LAME 5D Ø20,0-Ø41,0

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | | |
|----------------------------------|----|--------|--------|----|----|-------|-------|-----|---|----|---|-------|
| LD2000100JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 188,1 | 132,1 | 100 | 2 | 20 | ✓ | 0,360 |
| LD2100105JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 193,3 | 137,3 | 105 | 2 | 21 | ✓ | 0,380 |
| LD2200110JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 198,4 | 142,4 | 110 | 2 | 22 | ✓ | 0,400 |
| LD2300115JFR00 | 23 | 23,0 | 23,9 | 25 | 32 | 203,6 | 147,6 | 115 | 2 | 23 | ✓ | 0,420 |
| LD2400120JGR00 | 24 | 24,0 | 24,9 | 32 | 40 | 218,7 | 158,7 | 120 | 2 | 24 | ✓ | 0,830 |
| LD2500125JGR00 | 25 | 25,0 | 25,9 | 32 | 40 | 223,9 | 163,9 | 125 | 2 | 25 | ✓ | 0,850 |
| LD2600130JGR00 | 26 | 26,0 | 26,9 | 32 | 40 | 229 | 169,0 | 130 | 2 | 26 | ✓ | 0,870 |
| LD2700135JGR00 | 27 | 27,0 | 27,9 | 32 | 40 | 234 | 174,0 | 135 | 2 | 27 | ✓ | 0,900 |
| LD2800140JGR00 | 28 | 28,0 | 28,9 | 32 | 40 | 244,4 | 184,4 | 140 | 2 | 28 | ✓ | 0,940 |
| LD2900145JGR00 | 29 | 29,0 | 29,9 | 32 | 40 | 249,4 | 189,4 | 145 | 2 | 29 | ✓ | 0,950 |
| LD3000150JGR00 | 30 | 30,0 | 30,9 | 32 | 42 | 254,7 | 194,7 | 150 | 2 | 30 | ✓ | 1,470 |
| LD3100155JGR00 | 31 | 31,0 | 31,9 | 32 | 42 | 259,7 | 199,7 | 155 | 2 | 31 | ✓ | 1,100 |
| LD3200160JHR00 | 32 | 32,0 | 32,9 | 40 | 48 | 275 | 207,0 | 160 | 2 | 32 | ✓ | 1,360 |
| LD3300165JHR00 | 33 | 33,0 | 33,9 | 40 | 48 | 280 | 212,0 | 165 | 2 | 33 | ✓ | 1,940 |
| LD3400170JHR00 | 34 | 34,0 | 34,9 | 40 | 48 | 285 | 217,0 | 170 | 2 | 34 | ✓ | 1,570 |
| LD3500175JHR00 | 35 | 35,0 | 35,9 | 40 | 48 | 290,4 | 222,4 | 175 | 2 | 35 | ✓ | 1,590 |
| LD3600180JHR00 | 36 | 36,0 | 36,9 | 40 | 48 | 295,4 | 227,4 | 180 | 2 | 36 | ✓ | 1,770 |
| LD3700185JHR00 | 37 | 37,0 | 37,9 | 40 | 48 | 300,4 | 232,4 | 185 | 2 | 37 | ✓ | 1,250 |
| LD3800190JHR00 | 38 | 38,0 | 38,9 | 40 | 50 | 310,9 | 242,9 | 190 | 2 | 38 | ✓ | 1,470 |
| LD3900195JHR00 | 39 | 39,0 | 39,9 | 40 | 50 | 315,9 | 247,9 | 195 | 2 | 39 | ✓ | 2,520 |
| LD4000200JHR00 | 40 | 40,0 | 41,0 | 40 | 50 | 320,9 | 252,9 | 200 | 2 | 40 | ✓ | 1,350 |

SPARE PARTS
ACCESSOIRES



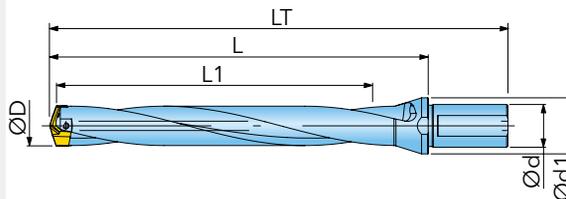
Diameter Range / Diamètres

| | | |
|---------|-------------|---------|
| 20 - 21 | TS 40178D25 | DS-T20T |
| 22 - 23 | TS 40198D28 | DS-T20T |
| 24 - 25 | TS 40210D3 | DS-T20T |
| 26 - 27 | TS 50230D3 | DS-T20T |
| 28 - 29 | TS 50250D35 | DS-T25T |
| 30 - 31 | TS 60265D4 | DS-T25T |
| 32 - 34 | TS 60285D42 | DS-T25T |
| 35 - 37 | TS 60320D5 | DS-T25T |
| 38 - 40 | TS 80340D6 | DS-T25T |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

SPADE TWIST HEAD CHANGEABLE DRILL 8D Ø20,0-Ø41,0 FORET À LAME 8D Ø20,0-Ø41,0

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Ps | | |
|----------------------------------|----|--------|--------|----|----|-------|-------|-----|---|----|---|------|
| LD2000160JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 248,1 | 192,1 | 160 | 2 | 20 | ✓ | 0,45 |
| LD2100168JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 256,1 | 200,1 | 168 | 2 | 21 | ✓ | 0,49 |
| LD2200176JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 264,4 | 208,4 | 176 | 2 | 22 | ✓ | 0,53 |
| LD2300184JFR00 | 23 | 23,0 | 23,9 | 25 | 32 | 272,4 | 216,4 | 184 | 2 | 23 | ✓ | 0,09 |
| LD2400192JGR00 | 24 | 24,0 | 24,9 | 32 | 40 | 290,7 | 230,7 | 192 | 2 | 24 | ✓ | 0,93 |
| LD2500200JGR00 | 25 | 25,0 | 25,9 | 32 | 40 | 298,7 | 238,7 | 200 | 2 | 25 | ✓ | 0,96 |
| LD2600208JGR00 | 26 | 26,0 | 26,9 | 32 | 40 | 307 | 247,0 | 208 | 2 | 26 | ✓ | 1,00 |
| LD2700216JGR00 | 27 | 27,0 | 27,9 | 32 | 40 | 315 | 255,0 | 216 | 2 | 27 | ✓ | 1,04 |
| LD2800224JGR00 | 28 | 28,0 | 28,9 | 32 | 40 | 328,4 | 268,4 | 224 | 2 | 28 | ✓ | 1,08 |
| LD2900232JGR00 | 29 | 29,0 | 29,9 | 32 | 40 | 336,4 | 276,4 | 232 | 2 | 29 | ✓ | 1,12 |
| LD3000240JGR00 | 30 | 30,0 | 30,9 | 32 | 42 | 344,7 | 284,7 | 240 | 2 | 30 | ✓ | 1,15 |
| LD3100248JGR00 | 31 | 31,0 | 31,9 | 32 | 42 | 352,7 | 292,7 | 248 | 2 | 31 | ✓ | 1,20 |
| LD3200256JHR00 | 32 | 32,0 | 32,9 | 40 | 48 | 371 | 303,0 | 256 | 2 | 32 | ✓ | 1,44 |
| LD3300264JHR00 | 33 | 33,0 | 33,9 | 40 | 48 | 379 | 311,0 | 264 | 2 | 33 | ✓ | 1,54 |
| LD3400272JHR00 | 34 | 34,0 | 34,9 | 40 | 48 | 387 | 319,0 | 272 | 2 | 34 | ✓ | 1,76 |
| LD3500280JHR00 | 35 | 35,0 | 35,9 | 40 | 48 | 395,4 | 327,4 | 280 | 2 | 35 | ✓ | 1,85 |
| LD3600288JHR00 | 36 | 36,0 | 36,9 | 40 | 48 | 403,4 | 335,4 | 288 | 2 | 36 | ✓ | 1,94 |
| LD3700296JHR00 | 37 | 37,0 | 37,9 | 40 | 48 | 411,4 | 343,4 | 296 | 2 | 37 | ✓ | 2,03 |
| LD3800304JHR00 | 38 | 38,0 | 38,9 | 40 | 50 | 424,9 | 356,9 | 304 | 2 | 38 | ✓ | 2,12 |
| LD3900312JHR00 | 39 | 39,0 | 39,9 | 40 | 50 | 432,9 | 364,9 | 312 | 2 | 39 | ✓ | 2,19 |
| LD4000320JHR00 | 40 | 40,0 | 41,0 | 40 | 50 | 440,9 | 372,9 | 320 | 2 | 40 | ✓ | 2,28 |

/ Il est conseillé d'usiner un avant-trou.

SPARE PARTS ACCESSOIRES

①



②



Diameter Range / Diamètres

| | | |
|---------|-------------|---------|
| 20 - 21 | TS 40178D25 | DS-T20T |
| 22 - 23 | TS 40198D28 | DS-T20T |
| 24 - 25 | TS 40210D3 | DS-T20T |
| 26 - 27 | TS 50230D3 | DS-T20T |
| 28 - 29 | TS 50250D35 | DS-T25T |
| 30 - 31 | TS 60265D4 | DS-T25T |
| 32 - 34 | TS 60285D42 | DS-T25T |
| 35 - 37 | TS 60320D5 | DS-T25T |
| 38 - 40 | TS 80340D6 | DS-T25T |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

**BORING HEADS FOR SPADETWIST
EMBOUTS DE PERÇAGE POUR SPADETWIST**

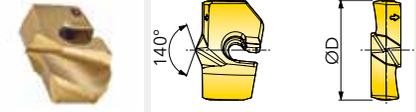
Steel / Acier



Steel-C / Acier-C



flacher Grund

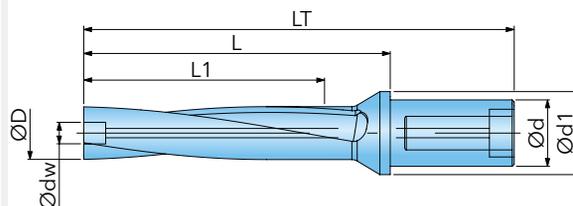


| Designation / Réf. de l'article | | | | | Designation / Réf. de l'article | | | | |
|---------------------------------|---------------|-------------------|---------------|----------------|---------------------------------|---------------|-------------------|---------------|----------------|
| D | Steel / Acier | Steel-C / Acier-C | flacher Grund | Grade / Nuance | D | Steel / Acier | Steel-C / Acier-C | flacher Grund | Grade / Nuance |
| 20,0 | LPA2000R01 | LPC2000R01 | LPF2000R01 | IN 2505 | 31,0 | LPA3100R01 | LPC3100R01 | LPF3100R01 | IN 2505 |
| 20,5 | LPA2050R01 | LPC2050R01 | LPF2050R01 | IN 2505 | 31,5 | LPA3150R01 | LPC3150R01 | LPF3150R01 | IN 2505 |
| 21,0 | LPA2100R01 | LPC2100R01 | LPF2100R01 | IN 2505 | 32,0 | LPA3200R01 | LPC3200R01 | LPF3200R01 | IN 2505 |
| 21,5 | LPA2150R01 | LPC2150R01 | LPF2150R01 | IN 2505 | 32,5 | LPA3250R01 | LPC3250R01 | LPF3250R01 | IN 2505 |
| 22,0 | LPA2200R01 | LPC2200R01 | LPF2200R01 | IN 2505 | 33,0 | LPA3300R01 | LPC3300R01 | LPF3300R01 | IN 2505 |
| 22,5 | LPA2250R01 | LPC2250R01 | LPF2250R01 | IN 2505 | 33,5 | LPA3350R01 | LPC3350R01 | LPF3350R01 | IN 2505 |
| 23,0 | LPA2300R01 | LPC2300R01 | LPF2300R01 | IN 2505 | 34,0 | LPA3400R01 | LPC3400R01 | LPF3400R01 | IN 2505 |
| 23,5 | LPA2350R01 | LPC2350R01 | LPF2350R01 | IN 2505 | 34,5 | LPA3450R01 | LPC3450R01 | LPF3450R01 | IN 2505 |
| 24,0 | LPA2400R01 | LPC2400R01 | LPF2400R01 | IN 2505 | 35,0 | LPA3500R01 | | LPF3500R01 | IN 2505 |
| 24,5 | LPA2450R01 | LPC2450R01 | LPF2450R01 | IN 2505 | 35,5 | LPA3550R01 | | LPF3550R01 | IN 2505 |
| 25,0 | LPA2500R01 | LPC2500R01 | LPF2500R01 | IN 2505 | 36,0 | LPA3600R01 | | LPF3600R01 | IN 2505 |
| 25,5 | LPA2550R01 | LPC2550R01 | LPF2550R01 | IN 2505 | 36,5 | LPA3650R01 | | LPF3650R01 | IN 2505 |
| 26,0 | LPA2600R01 | LPC2600R01 | LPF2600R01 | IN 2505 | 37,0 | LPA3700R01 | | LPF3700R01 | IN 2505 |
| 26,5 | LPA2650R01 | LPC2650R01 | LPF2650R01 | IN 2505 | 37,5 | LPA3750R01 | | LPF3750R01 | IN 2505 |
| 27,0 | LPA2700R01 | LPC2700R01 | LPF2700R01 | IN 2505 | 38,0 | LPA3800R01 | | LPF3800R01 | IN 2505 |
| 27,5 | LPA2750R01 | LPC2750R01 | LPF2750R01 | IN 2505 | 38,5 | LPA3850R01 | | LPF3850R01 | IN 2505 |
| 28,0 | LPA2800R01 | LPC2800R01 | LPF2800R01 | IN 2505 | 39,0 | LPA3900R01 | | LPF3900R01 | IN 2505 |
| 28,5 | LPA2850R01 | LPC2850R01 | LPF2850R01 | IN 2505 | 39,5 | LPA3950R01 | | LPF3950R01 | IN 2505 |
| 29,0 | LPA2900R01 | LPC2900R01 | LPF2900R01 | IN 2505 | 40,0 | LPA4000R01 | | LPF4000R01 | IN 2505 |
| 29,5 | LPA2950R01 | LPC2950R01 | LPF2950R01 | IN 2505 | 40,5 | LPA4050R01 | | LPF4050R01 | IN 2505 |
| 30,0 | LPA3000R01 | LPC3000R01 | LPF3000R01 | IN 2505 | 41,0 | LPA4100R01 | | LPF4100R01 | IN 2505 |
| 30,5 | LPA3050R01 | LPC3050R01 | LPF3050R01 | IN 2505 | | | | | |



GOLDTWIN MODULAR DRILL HOLDER 3D CORPS FORET MODULAIRE 3D

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | d | dw | d1 | LT | L | L1 | Ps | IK | kg |
|----------------------------------|--------|--------|----|------|----|-------|-------|-----|---------------|----|------|
| W032YFSA060 | 26 | 27 | 32 | 10.4 | 40 | 154,3 | 94.3 | 60 | CD26_/27_ | ✓ | 0,72 |
| W032YGSA064 | 28 | 29 | 32 | 11.2 | 40 | 160,5 | 100.5 | 64 | CD28_/29_ | ✓ | 0,76 |
| W032YHSA069 | 30 | 31 | 32 | 12.0 | 40 | 165,5 | 105.5 | 69 | CD30_/31_ | ✓ | 0,80 |
| W032YJSA073 | 32 | 33 | 32 | 12.8 | 40 | 171,7 | 111.7 | 73 | CD32_/33_ | ✓ | 0,86 |
| W040YKSA078 | 34 | 35 | 40 | 13.6 | 50 | 188,2 | 120.2 | 78 | CD34_/35_ | ✓ | 1,26 |
| W040YLSA082 | 36 | 37 | 40 | 14.4 | 50 | 194,5 | 126.5 | 82 | CD36_/37_ | ✓ | 1,35 |
| W040YMSA086 | 38 | 39 | 40 | 15.2 | 50 | 199,4 | 131.4 | 86 | CD38_/39_ | ✓ | 1,36 |
| W040YNSA091 | 40 | 41 | 40 | 16.0 | 50 | 205,6 | 137.6 | 91 | CD40_/41_ | ✓ | 1,53 |
| W040YPSA095 | 42 | 43 | 40 | 16.8 | 50 | 211,8 | 143.8 | 95 | CD42_/43_ | ✓ | 1,63 |
| W040YQSA099 | 44 | 45 | 40 | 17.6 | 50 | 218 | 150.0 | 99 | CD44_/45_ | ✓ | 1,74 |
| W050YRSA104 | 46 | 47 | 50 | 18.4 | 60 | 234,5 | 154.5 | 104 | CD46_/47_ | ✓ | 2,49 |
| W050YSSA111 | 48 | 50 | 50 | 19.2 | 60 | 240,9 | 160.9 | 111 | CD48_/49_/50_ | ✓ | 2,64 |

SPARE PARTS
ACCESSOIRES

①



②



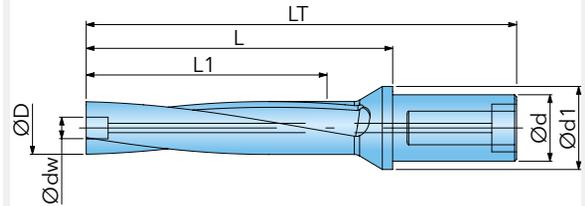
Diameter Range / Diamètres

| | | |
|---------|----------------|----------|
| 26 - 35 | BLD H-W2.5X210 | SW6-T-SH |
| 36 - 43 | BLD H-W3.0X225 | SW6-T-SH |
| 44 - 50 | BLD H-W4.0X255 | SW6-T-SH |

① = Torx-Bit BLD / Torx-Bit BLD ② = Helve / Manche

GOLDTWIN MODULAR DRILL HOLDER 5D
CORPS FORET MODULAIRE 5D

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | d | dw | d1 | LT | L | L1 | Ps | | |
|----------------------------------|--------|--------|----|------|----|-------|-------|-----|---------------|---|------|
| W032YFSA114 | 26 | 27 | 32 | 10.4 | 40 | 208,3 | 148,3 | 114 | CD26_/27_ | ✓ | 0,83 |
| W032YGSA122 | 28 | 29 | 32 | 11.2 | 40 | 218,5 | 158,5 | 122 | CD28_/29_ | ✓ | 0,86 |
| W032YHSA131 | 30 | 31 | 32 | 12.0 | 40 | 227,5 | 167,5 | 131 | CD30_/31_ | ✓ | 0,91 |
| W032YJSA139 | 32 | 33 | 32 | 12.8 | 40 | 237,7 | 177,7 | 139 | CD32_/33_ | ✓ | 1,02 |
| W040YKSA148 | 34 | 35 | 40 | 13.6 | 50 | 258,2 | 190,2 | 148 | CD34_/35_ | ✓ | 1,31 |
| W040YLSA156 | 36 | 37 | 40 | 14.4 | 50 | 268,5 | 200,5 | 156 | CD36_/37_ | ✓ | 1,43 |
| W040YMSA164 | 38 | 39 | 40 | 15.2 | 50 | 277,4 | 209,4 | 164 | CD38_/39_ | ✓ | 1,58 |
| W040YNSA173 | 40 | 41 | 40 | 16.0 | 50 | 287,6 | 219,6 | 173 | CD40_/41_ | ✓ | 1,66 |
| W040YPSA181 | 42 | 43 | 40 | 16.8 | 50 | 297,8 | 229,8 | 181 | CD42_/43_ | ✓ | 2,15 |
| W040YQSA189 | 44 | 45 | 40 | 17.6 | 50 | 308 | 240 | 189 | CD44_/45_ | ✓ | 2,25 |
| W050YRSA198 | 46 | 47 | 50 | 18.4 | 60 | 328,5 | 248,5 | 198 | CD46_/47_ | ✓ | 2,85 |
| W050YSSA211 | 48 | 50 | 50 | 19.2 | 60 | 338,9 | 258,9 | 211 | CD48_/49_/50_ | ✓ | 3,17 |

SPARE PARTS
ACCESSOIRES

①



②



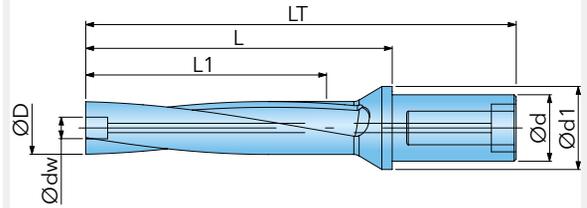
Diameter Range / Diamètres

| | | |
|---------|----------------|----------|
| 26 - 35 | BLD H-W2.5X280 | SW6-T-SH |
| 36 - 43 | BLD H-W3.0X310 | SW6-T-SH |
| 44 - 50 | BLD H-W4.0X350 | SW6-T-SH |

① = Torx-Bit BLD / Embout torx ② = Helve / Manche

GOLDTWIN MODULAR DRILL HOLDER 7D CORPS FORET MODULAIRE 7D

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D min. | D max. | d | dw | d1 | LT | L | L1 | Ps | | |
|----------------------------------|--------|--------|----|------|----|-------|-------|-----|-----------|---|------|
| W032YFSA168 | 26 | 27 | 32 | 10,4 | 40 | 262,3 | 202,3 | 168 | CD26_/27_ | ✓ | 0,95 |
| W032YGSA180 | 28 | 29 | 32 | 11,2 | 40 | 276,5 | 216,5 | 180 | CD28_/29_ | ✓ | 1,10 |
| W032YHSA193 | 30 | 31 | 32 | 12,0 | 40 | 289,5 | 229,5 | 193 | CD30_/31_ | ✓ | 1,23 |
| W032YJSA205 | 32 | 33 | 32 | 12,8 | 40 | 303,7 | 243,7 | 205 | CD32_/33_ | ✓ | 1,30 |
| W040YKSA218 | 34 | 35 | 40 | 13,6 | 50 | 328,2 | 260,2 | 218 | CD34_/35_ | ✓ | 1,70 |
| W040YLSA230 | 36 | 37 | 40 | 14,4 | 50 | 342,5 | 274,5 | 230 | CD36_/37_ | ✓ | 1,85 |
| W040YMSA242 | 38 | 39 | 40 | 15,2 | 50 | 355,4 | 287,4 | 242 | CD38_/39_ | ✓ | 2,00 |
| W040YNSA255 | 40 | 41 | 40 | 16,0 | 50 | 369,6 | 301,6 | 255 | CD40_/41_ | ✓ | 2,17 |

SPARE PARTS ACCESSOIRES

①



②



Diameter Range / Diamètres

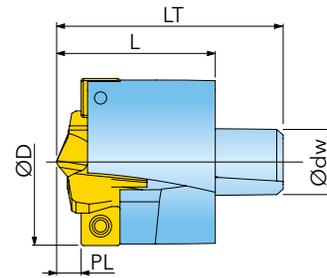
| | | |
|---------|----------------|----------|
| 26 - 27 | BLD H-W2.5X280 | SW6-T-SH |
| 28 - 35 | BLD H-W2.5X380 | SW6-T-SH |
| 36 - 41 | BLD H-W3.0X430 | SW6-T-SH |

① = Torx-Bit BLD / Embout torx ② = Helve / Manche

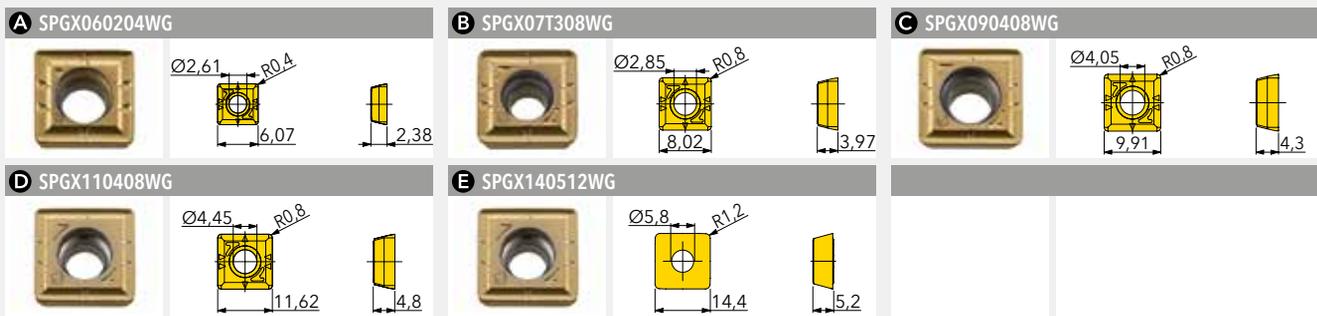


GOLDTWIN MODULAR DRILL HEAD Ø26 - Ø50
TÊTE DE PERÇAGE MODULAIRE Ø26 - Ø50

MODULAR GOLDTWIN
 ATTACHEMENT MODULAIRE GOLDTWIN



| Designation Réf. de l'article | D | dw | LT | L | PL | Z | Zeff | Ps | Key | | | Related Insert Plaquette préconisée |
|----------------------------------|----|------|------|------|------|---|------|---------|----------------|---|------|--|
| CD2600025YFR00 | 26 | 10,4 | 35,5 | 24,9 | 3,98 | 4 | 2 | TP_159_ | KTD15.0-15.9-C | ✓ | 0,14 | A |
| CD2700025YFR00 | 27 | 10,4 | 36 | 25,4 | 4,14 | 4 | 2 | TP_169_ | KTD16.0-16.9-C | ✓ | 0,15 | A |
| CD2800027YGR00 | 28 | 11,2 | 38,3 | 26,9 | 4,29 | 4 | 2 | TP_179_ | KTD17.0-17.9-C | ✓ | 0,17 | A |
| CD2900027YGR00 | 29 | 11,2 | 38 | 26,6 | 3,97 | 4 | 2 | TP_159_ | KTD15.0-15.9-C | ✓ | 0,18 | B |
| CD3000028YHR00 | 30 | 12,0 | 40,5 | 28,3 | 4,14 | 4 | 2 | TP_169_ | KTD16.0-16.9-C | ✓ | 0,19 | B |
| CD3100029YHR00 | 31 | 12,0 | 40,7 | 28,5 | 4,30 | 4 | 2 | TP_179_ | KTD17.0-17.9-C | ✓ | 0,20 | B |
| CD3200030YJR00 | 32 | 12,8 | 43,3 | 30,3 | 4,46 | 4 | 2 | TP_189_ | KTD18.0-18.9-C | ✓ | 0,21 | B |
| CD3300030YJR00 | 33 | 12,8 | 42,8 | 29,8 | 3,97 | 4 | 2 | TP_159_ | KTD15.0-15.9-C | ✓ | 0,23 | C |
| CD3400032YKR00 | 34 | 13,6 | 45,4 | 31,6 | 4,14 | 4 | 2 | TP_169_ | KTD16.0-16.9-C | ✓ | 0,24 | C |
| CD3500032YKR00 | 35 | 13,6 | 45,6 | 31,8 | 4,30 | 4 | 2 | TP_179_ | KTD17.0-17.9-C | ✓ | 0,25 | C |
| CD3600034YLR00 | 36 | 14,4 | 48,2 | 33,5 | 4,46 | 4 | 2 | TP_189_ | KTD18.0-18.9-C | ✓ | 0,27 | C |
| CD3700033YLR00 | 37 | 14,4 | 48 | 33,3 | 4,14 | 4 | 2 | TP_169_ | KTD16.0-16.9-C | ✓ | 0,29 | D |
| CD3800035YMR00 | 38 | 15,2 | 50,5 | 35,0 | 4,30 | 4 | 2 | TP_179_ | KTD17.0-17.9-C | ✓ | 0,31 | D |
| CD3900035YMR00 | 39 | 15,2 | 50,7 | 35,2 | 4,46 | 4 | 2 | TP_189_ | KTD18.0-18.9-C | ✓ | 0,33 | D |
| CD4000037YNR00 | 40 | 16,0 | 53,2 | 36,9 | 4,62 | 4 | 2 | TP_199_ | KTD19.0-19.9-C | ✓ | 0,35 | D |
| CD4100037YNR00 | 41 | 16,0 | 53,4 | 37,1 | 4,78 | 4 | 2 | TP_209_ | KTD20.0-20.9-C | ✓ | 0,38 | D |
| CD4200039YPR00 | 42 | 16,8 | 56 | 38,9 | 4,95 | 4 | 2 | TP_219_ | KTD21.0-21.9-C | ✓ | 0,41 | D |
| CD4300039YPR00 | 43 | 16,8 | 56 | 38,9 | 5,11 | 4 | 2 | TP_229_ | KTD22.0-22.9-C | ✓ | 0,42 | D |
| CD4400041YQR00 | 44 | 17,6 | 58,7 | 40,8 | 5,28 | 4 | 2 | TP_239_ | KTD23.0-23.9-C | ✓ | 0,44 | D |
| CD4500041YQR00 | 45 | 17,6 | 58,9 | 41,0 | 5,44 | 4 | 2 | TP_249_ | KTD24.0-24.9-C | ✓ | 0,45 | D |
| CD4600042YRR00 | 46 | 18,4 | 60,9 | 42,2 | 4,95 | 4 | 2 | TP_219_ | KTD21.0-21.9-C | ✓ | 0,47 | E |
| CD4700042YRR00 | 47 | 18,4 | 61 | 42,3 | 5,11 | 4 | 2 | TP_229_ | KTD22.0-22.9-C | ✓ | 0,49 | E |
| CD4800044YSR00 | 48 | 19,2 | 63,5 | 44,0 | 5,28 | 4 | 2 | TP_239_ | KTD23.0-23.9-C | ✓ | 0,51 | E |
| CD4900044YSR00 | 49 | 19,2 | 63,8 | 44,3 | 5,44 | 4 | 2 | TP_249_ | KTD24.0-24.9-C | ✓ | 0,54 | E |
| CD5000046YSR00 | 50 | 19,2 | 65,5 | 46,0 | 5,61 | 4 | 2 | TP_259_ | KTD25.0-25.9-C | ✓ | 0,56 | E |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN2505 | | | | | | |
|----------------------------------|-------------|--|-----------------|--------|--|--|--|--|--|--|
| SPGX060204WG | 0,05/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | |
| SPGX07T308WG | 0,05/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | |
| SPGX090408WG | 0,07/0,24 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | |
| SPGX110408WG | 0,07/0,25 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | |
| SPGX140512WG | 0,07/0,25 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



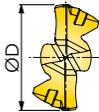
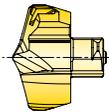
Diameter Range / Diamètres

| | | | | | | | | |
|---------|---------------------|---------|----------------|-----------|------------|---------------------|--------------------|---------------|
| 26 - 28 | SM22-052-00 (0,8Nm) | DS-T07S | TDPS 0512-T7 | TD 7 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD26-29-TP |
| 29 | SM25-064-00 (1,1Nm) | DS-T08S | TDPS 0512-T7 | TD 7 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD26-29-TP |
| 30 - 32 | SM25-064-00 (1,1Nm) | DS-T08S | TDPS 0512-T7 | TD 7 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD30-35-TP |
| 33 - 35 | SM35-088-60 (3,0Nm) | DS-T10S | TDPS 0512-T7 | TD 7 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD30-35-TP |
| 36 | SM35-088-60 (3,0Nm) | DS-T10S | TDPS 0618-T8 | TD 8 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD36-39-TP |
| 37 - 39 | SM40-093-20 (4,5Nm) | DS-T15S | TDPS 0618-T8 | TD 8 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD36-39-TP |
| 40 - 43 | SM40-093-20 (4,5Nm) | DS-T15S | TDPS 0618-T8 | TD 8 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD44-43-TP |
| 44 - 45 | SM40-093-20 (4,5Nm) | DS-T15S | TDPS 0722-W3.0 | F-W3.0X60 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD44-50-TP |
| 46 - 50 | SM50-122-50 (7,5Nm) | DS-T20S | TDPS 0722-W3.0 | F-W3.0X60 | PAD-G04-08 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | SG CD44-50-TP |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis ③ = Differential screw / Vis à pas différentiel ④ = Screw driver / Tournevis
 ⑤ = Guide Pad / Patin de guidage ⑥ = Insert screw / Vis de serrage plaquette ⑦ = Screw driver / Tournevis ⑧ = Setting gauge / Pion de réglage

BORING HEADS FOR GOLDTWIN
EMBOUS DE PERÇAGE POUR GOLDTWIN

Steel / Acier



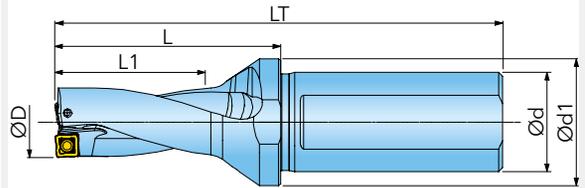
| Designation / Réf. de l'article | | | Designation / Réf. de l'article | | |
|---------------------------------|---------------|----------------|---------------------------------|---------------|----------------|
| D | Steel / Acier | Grade / Nuance | D | Steel / Acier | Grade / Nuance |
| 15,9 | TPC1590R01-C | IN 2505 | 21,9 | TPC2190R01-C | IN 2505 |
| 16,9 | TPC1690R01-C | IN 2505 | 22,9 | TPC2290R01-C | IN 2505 |
| 17,9 | TPC1790R01-C | IN 2505 | 23,9 | TPC2390R01-C | IN 2505 |
| 18,9 | TPC1890R01-C | IN 2505 | 24,9 | TPC2490R01-C | IN 2505 |
| 19,9 | TPC1990R01-C | IN 2505 | 25,9 | TPC2590R01-C | IN 2505 |
| 20,9 | TPC2090R01-C | IN 2505 | | | |





QUADT WIST INDEXABLE DRILL 2D Ø12 - Ø26
FORET A PLAQUETTES 2D Ø12 - Ø26

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|----|----|---|------|---|--|--|
| QR0120024JER00 | 12,0 | 20 | 25 | 94 | 44 | 24 | 2 | 1 | ✓ | 0,13 | A |
| QR0130026JER00 | 13,0 | 20 | 25 | 96 | 46 | 26 | 2 | 1 | ✓ | 0,13 | A |
| QR0140028JER00 | 14,0 | 20 | 25 | 96 | 46 | 28 | 2 | 1 | ✓ | 0,15 | BCDE |
| QR0150030JER00 | 15,0 | 20 | 25 | 99 | 49 | 30 | 2 | 1 | ✓ | 0,15 | BCDE |
| QR0160032JER00 | 16,0 | 20 | 25 | 102 | 52 | 32 | 2 | 1 | ✓ | 0,16 | BCDE |
| QR0170034JFR00 | 17,0 | 25 | 32 | 110 | 54 | 34 | 2 | 1 | ✓ | 0,27 | FGHI |
| QR0175036JFR00 | 17,5 | 25 | 32 | 113 | 57 | 36 | 2 | 1 | ✓ | 0,27 | FGHI |
| QR0180036JFR00 | 18,0 | 25 | 32 | 113 | 57 | 36 | 2 | 1 | ✓ | 0,27 | FGHI |
| QR0190038JFR00 | 19,0 | 25 | 32 | 115 | 59 | 38 | 2 | 1 | ✓ | 0,28 | FGHI |
| QR0195040JFR00 | 19,5 | 25 | 32 | 119 | 63 | 40 | 2 | 1 | ✓ | 0,29 | JKLM |
| QR0200040JFR00 | 20,0 | 25 | 32 | 119 | 63 | 40 | 2 | 1 | ✓ | 0,30 | JKLM |
| QR0210042JFR00 | 21,0 | 25 | 32 | 121 | 65 | 42 | 2 | 1 | ✓ | 0,30 | JKLM |
| QR0220044JFR00 | 22,0 | 25 | 32 | 123 | 67 | 44 | 2 | 1 | ✓ | 0,31 | JKLM |
| QR0230046JFR00 | 23,0 | 25 | 32 | 124 | 68 | 46 | 2 | 1 | ✓ | 0,31 | NOPO |
| QR0240048JFR00 | 24,0 | 25 | 32 | 126 | 70 | 48 | 2 | 1 | ✓ | 0,33 | NOPO |
| QR0250050JFR00 | 25,0 | 25 | 32 | 128 | 72 | 50 | 2 | 1 | ✓ | 0,33 | NOPO |
| QR0260052JFR00 | 26,0 | 25 | 32 | 129 | 73 | 52 | 2 | 1 | ✓ | 0,34 | NOPO |

SPARE PARTS
ACCESSOIRES

①



②



Diameter Range / Diamètres

| | | |
|-------------|------------------------|--------------------|
| 12,0 - 13,0 | TS 180411/HG (0,5Nm) | DS-TP06S (TX-Plus) |
| 14,0 - 16,0 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) |
| 17,0 - 22,0 | TS 220521/HG-P (0,8Nm) | DS-TP07S (TX-Plus) |
| 23,0 - 26,0 | SO 250651 (1,1Nm) | DS-T07S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT040204SK | 0,04/0,14 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | | | | | |
| SOMT050204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT050204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT050204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT050204PS | 0,04/0,10 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | ● | | | | | | | |
| SOMT060204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT060204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT060204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT060204PS | 0,04/0,11 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | ● | | | | | | | |
| SOMT070306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT070306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT070306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT070306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | ● | | | | | | | |
| SOMT08T306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT08T306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT08T306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT08T306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | ● | | | | | | | |

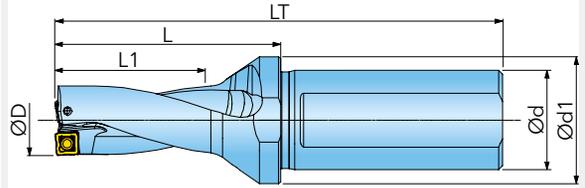
¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST INDEXABLE DRILL 2D Ø27 - Ø50
FORET A PLAQUETTES 2D Ø27 - Ø50

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff | | | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|------|--|
| QR0270054JFR00 | 27,0 | 25 | 40 | 133 | 77 | 54 | 2 | 1 | ✓ | 0,49 | A B C D |
| QR0280056JFR00 | 28,0 | 25 | 40 | 135 | 79 | 56 | 2 | 1 | ✓ | 0,52 | A B C D |
| QR0290058JGR00 | 29,0 | 32 | 40 | 141 | 81 | 58 | 2 | 1 | ✓ | 0,66 | A B C D |
| QR0300060JGR00 | 30,0 | 32 | 40 | 143 | 83 | 60 | 2 | 1 | ✓ | 0,78 | A B C D |
| QR0310062JGR00 | 31,0 | 32 | 40 | 145 | 85 | 62 | 2 | 1 | ✓ | 0,81 | A B C D |
| QR0320064JGR00 | 32,0 | 32 | 40 | 147 | 87 | 64 | 2 | 1 | ✓ | 0,84 | E F G H |
| QR0330066JGR00 | 33,0 | 32 | 40 | 149 | 89 | 66 | 2 | 1 | ✓ | 0,87 | E F G H |
| QR0340068JGR00 | 34,0 | 32 | 40 | 151 | 91 | 68 | 2 | 1 | ✓ | 0,89 | E F G H |
| QR0350070JGR00 | 35,0 | 32 | 40 | 153 | 93 | 70 | 2 | 1 | ✓ | 0,92 | E F G H |
| QR0360072JGR00 | 36,0 | 32 | 40 | 155 | 95 | 72 | 2 | 1 | ✓ | 0,96 | E F G H |
| QR0370074JGR00 | 37,0 | 32 | 50 | 162 | 102 | 74 | 2 | 1 | ✓ | 0,97 | I J K L |
| QR0380076JGR00 | 38,0 | 32 | 50 | 164 | 104 | 76 | 2 | 1 | ✓ | 1,00 | I J K L |
| QR0390078JGR00 | 39,0 | 32 | 50 | 166 | 106 | 78 | 2 | 1 | ✓ | 1,05 | I J K L |
| QR0400080JGR00 | 40,0 | 32 | 50 | 168 | 108 | 80 | 2 | 1 | ✓ | 1,10 | I J K L |
| QR0410082JHR00 | 41,0 | 40 | 50 | 180 | 110 | 82 | 2 | 1 | ✓ | 1,48 | I J K L |
| QR0420084JHR00 | 42,0 | 40 | 50 | 182 | 112 | 84 | 2 | 1 | ✓ | 1,50 | I J K L |
| QR0430086JHR00 | 43,0 | 40 | 50 | 184 | 114 | 86 | 2 | 1 | ✓ | 1,55 | I J K L |
| QR0440088JHR00 | 44,0 | 40 | 60 | 193 | 123 | 88 | 2 | 1 | ✓ | 1,60 | M N O P |
| QR0450090JHR00 | 45,0 | 40 | 60 | 195 | 125 | 90 | 2 | 1 | ✓ | 1,66 | M N O P |
| QR0460092JHR00 | 46,0 | 40 | 60 | 197 | 127 | 92 | 2 | 1 | ✓ | 1,71 | M N O P |
| QR0470094JHR00 | 47,0 | 40 | 60 | 199 | 129 | 94 | 2 | 1 | ✓ | 1,76 | M N O P |
| QR0480096JHR00 | 48,0 | 40 | 60 | 201 | 131 | 96 | 2 | 1 | ✓ | 1,84 | M N O P |
| QR0490098JHR00 | 49,0 | 40 | 60 | 203 | 133 | 98 | 2 | 1 | ✓ | 1,86 | M N O P |
| QR0500100JHR00 | 50,0 | 40 | 60 | 205 | 135 | 100 | 2 | 1 | ✓ | 1,93 | M N O P |

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

| | | |
|-------------|---------------------|---------|
| 27,0 - 36,0 | SM35-088-60 (3,0Nm) | DS-T10S |
| 37,0 - 43,0 | SM40-093-20 (4,5Nm) | DS-T15S |
| 44,0 - 50,0 | SMS0-113-20 (8,0Nm) | DS-T20S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT150510SK ¹⁾ | 0,06/0,24 | positive geometry R1,0 / Géométrie positive R1,0 | | | ● | | ● | ● | | | |
| SOMT150510NG | 0,10/0,18 | cast iron geometry R1,0 / Géométrie fonte R 1,0 | | | | ● | | | | | |
| SOMT150510HP | 0,10/0,18 | non-ferrous geometry, polished R1,0 / Géo. pour mat. non fer., polie R1,0 | ● | | | | | | | | |
| SOMT150510PS | 0,06/0,14 | Chip breaker geometry R1,0 / Géométrie copeaux longs R1,0 | | ● | | | | | | | |

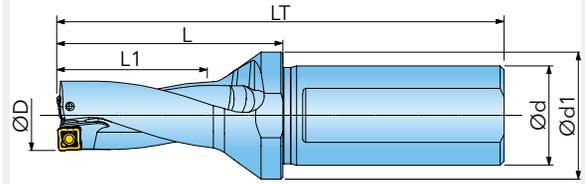
¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST INDEXABLE DRILL 3D Ø12 - Ø26 FORET A PLAQUETTES 3D Ø12 - Ø26

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|----|----|---|------|---|--|--|
| QR0120036JER00 | 12,0 | 20 | 25 | 106 | 56 | 36 | 2 | 1 | ✓ | 0,15 | A |
| QR0125039JER00 | 12,5 | 20 | 25 | 109 | 59 | 39 | 2 | 1 | ✓ | 0,15 | A |
| QR0130039JER00 | 13,0 | 20 | 25 | 109 | 59 | 39 | 2 | 1 | ✓ | 0,15 | A |
| QR0135042JER00 | 13,5 | 20 | 25 | 110 | 60 | 42 | 2 | 1 | ✓ | 0,16 | A |
| QR0140042JER00 | 14,0 | 20 | 25 | 110 | 60 | 42 | 2 | 1 | ✓ | 0,16 | BCDE |
| QR0145045JER00 | 14,5 | 20 | 25 | 114 | 64 | 45 | 2 | 1 | ✓ | 0,16 | BCDE |
| QR0150045JER00 | 15,0 | 20 | 25 | 114 | 64 | 45 | 2 | 1 | ✓ | 0,16 | BCDE |
| QR0155048JER00 | 15,5 | 20 | 25 | 118 | 68 | 48 | 2 | 1 | ✓ | 0,17 | BCDE |
| QR0160048JER00 | 16,0 | 20 | 25 | 118 | 68 | 48 | 2 | 1 | ✓ | 0,17 | BCDE |
| QR0165051JFR00 | 16,5 | 25 | 32 | 127 | 71 | 51 | 2 | 1 | ✓ | 0,28 | FGHI |
| QR0170051JFR00 | 17,0 | 25 | 32 | 127 | 71 | 51 | 2 | 1 | ✓ | 0,28 | FGHI |
| QR0175054JFR00 | 17,5 | 25 | 32 | 131 | 75 | 54 | 2 | 1 | ✓ | 0,28 | FGHI |
| QR0180054JFR00 | 18,0 | 25 | 32 | 131 | 75 | 54 | 2 | 1 | ✓ | 0,29 | FGHI |
| QR0185057JFR00 | 18,5 | 25 | 32 | 134 | 78 | 57 | 2 | 1 | ✓ | 0,29 | FGHI |
| QR0190057JFR00 | 19,0 | 25 | 32 | 134 | 78 | 57 | 2 | 1 | ✓ | 0,30 | FGHI |
| QR0195060JFR00 | 19,5 | 25 | 32 | 139 | 83 | 60 | 2 | 1 | ✓ | 0,31 | JKLM |
| QR0200060JFR00 | 20,0 | 25 | 32 | 139 | 83 | 60 | 2 | 1 | ✓ | 0,32 | JKLM |
| QR0205063JFR00 | 20,5 | 25 | 32 | 142 | 86 | 63 | 2 | 1 | ✓ | 0,32 | JKLM |
| QR0210063JFR00 | 21,0 | 25 | 32 | 142 | 86 | 63 | 2 | 1 | ✓ | 0,33 | JKLM |
| QR0215066JFR00 | 21,5 | 25 | 32 | 145 | 89 | 66 | 2 | 1 | ✓ | 0,33 | JKLM |
| QR0220066JFR00 | 22,0 | 25 | 32 | 145 | 89 | 66 | 2 | 1 | ✓ | 0,34 | JKLM |
| QR0225069JFR00 | 22,5 | 25 | 32 | 147 | 91 | 69 | 2 | 1 | ✓ | 0,34 | NOPO |
| QR0230069JFR00 | 23,0 | 25 | 32 | 147 | 91 | 69 | 2 | 1 | ✓ | 0,35 | NOPO |
| QR0235072JFR00 | 23,5 | 25 | 32 | 150 | 94 | 72 | 2 | 1 | ✓ | 0,36 | NOPO |
| QR0240072JFR00 | 24,0 | 25 | 32 | 150 | 94 | 72 | 2 | 1 | ✓ | 0,36 | NOPO |
| QR0245075JFR00 | 24,5 | 25 | 32 | 153 | 97 | 75 | 2 | 1 | ✓ | 0,37 | NOPO |
| QR0250075JFR00 | 25,0 | 25 | 32 | 153 | 97 | 75 | 2 | 1 | ✓ | 0,37 | NOPO |
| QR0255078JFR00 | 25,5 | 25 | 32 | 155 | 99 | 78 | 2 | 1 | ✓ | 0,38 | NOPO |
| QR0260078JFR00 | 26,0 | 25 | 32 | 155 | 99 | 78 | 2 | 1 | ✓ | 0,39 | NOPO |

SPARE PARTS ACCESSOIRES

①



②



Diameter Range / Diamètres

| | | |
|-------------|------------------------|--------------------|
| 12,0 - 13,5 | TS 180411/HG (0,5Nm) | DS-TP06S (TX-Plus) |
| 14,0 - 16,0 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) |
| 16,5 - 22,0 | TS 220521/HG-P (0,8Nm) | DS-TP07S (TX-Plus) |
| 22,5 - 26,0 | SO 250651 (1,1Nm) | DS-T07S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



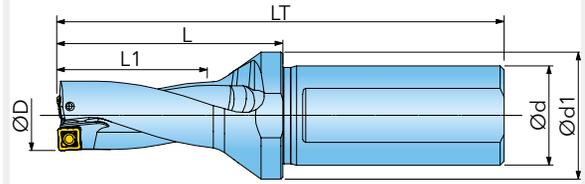
| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT040204SK | 0,04/0,14 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | | | | | |
| SOMT050204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT050204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT050204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT050204PS | 0,04/0,10 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | | ● | | | | | | |
| SOMT060204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT060204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT060204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT060204PS | 0,04/0,11 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | | ● | | | | | | |
| SOMT070306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT070306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT070306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT070306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | | ● | | | | | | |
| SOMT08T306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT08T306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT08T306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT08T306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | | ● | | | | | | |

¹⁾Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

QUADT WIST INDEXABLE DRILL 3D Ø26,5 - Ø50,5 FORET A PLAQUETTES 3D Ø26,5 - Ø50,5

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|--|--|
| QR0265081JFR00 | 26,5 | 25 | 40 | 160 | 104 | 81 | 2 | 1 | ✓ | 0,53 | A B C D |
| QR0270081JFR00 | 27,0 | 25 | 40 | 160 | 104 | 81 | 2 | 1 | ✓ | 0,53 | A B C D |
| QR0275084JFR00 | 27,5 | 25 | 40 | 163 | 107 | 84 | 2 | 1 | ✓ | 0,56 | A B C D |
| QR0280084JFR00 | 28,0 | 25 | 40 | 163 | 107 | 84 | 2 | 1 | ✓ | 0,56 | A B C D |
| QR0285087JGR00 | 28,5 | 32 | 40 | 170 | 110 | 87 | 2 | 1 | ✓ | 0,75 | A B C D |
| QR0290087JGR00 | 29,0 | 32 | 40 | 170 | 110 | 87 | 2 | 1 | ✓ | 0,75 | A B C D |
| QR0295090JGR00 | 29,5 | 32 | 40 | 173 | 113 | 90 | 2 | 1 | ✓ | 0,85 | A B C D |
| QR0300090JGR00 | 30,0 | 32 | 40 | 173 | 113 | 90 | 2 | 1 | ✓ | 0,85 | A B C D |
| QR0310093JGR00 | 31,0 | 32 | 40 | 176 | 116 | 93 | 2 | 1 | ✓ | 0,90 | A B C D |
| QR0320096JGR00 | 32,0 | 32 | 40 | 179 | 119 | 96 | 2 | 1 | ✓ | 0,93 | E F G H |
| QR0330099JGR00 | 33,0 | 32 | 40 | 182 | 122 | 99 | 2 | 1 | ✓ | 0,97 | E F G H |
| QR0340102JGR00 | 34,0 | 32 | 40 | 185 | 125 | 102 | 2 | 1 | ✓ | 1,01 | E F G H |
| QR0345105JGR00 | 34,5 | 32 | 40 | 188 | 128 | 105 | 2 | 1 | ✓ | 1,04 | E F G H |
| QR0350105JGR00 | 35,0 | 32 | 40 | 188 | 128 | 105 | 2 | 1 | ✓ | 1,04 | E F G H |
| QR0360108JGR00 | 36,0 | 32 | 40 | 191 | 131 | 108 | 2 | 1 | ✓ | 1,07 | E F G H |
| QR0370111JGR00 | 37,0 | 32 | 50 | 199 | 139 | 111 | 2 | 1 | ✓ | 1,12 | I J K L |
| QR0375114JGR00 | 37,5 | 32 | 50 | 202 | 142 | 114 | 2 | 1 | ✓ | 1,17 | I J K L |
| QR0380114JGR00 | 38,0 | 32 | 50 | 202 | 142 | 114 | 2 | 1 | ✓ | 1,17 | I J K L |
| QR0390117JGR00 | 39,0 | 32 | 50 | 205 | 145 | 117 | 2 | 1 | ✓ | 1,23 | I J K L |
| QR0400120JGR00 | 40,0 | 32 | 50 | 208 | 148 | 120 | 2 | 1 | ✓ | 1,31 | I J K L |
| QR0405123JGR00 | 40,5 | 40 | 50 | 211 | 151 | 123 | 2 | 1 | ✓ | 1,48 | I J K L |
| QR0410123JHR00 | 41,0 | 40 | 50 | 221 | 151 | 123 | 2 | 1 | ✓ | 1,48 | I J K L |
| QR0420126JHR00 | 42,0 | 40 | 50 | 224 | 154 | 126 | 2 | 1 | ✓ | 1,62 | I J K L |
| QR0430129JHR00 | 43,0 | 40 | 50 | 227 | 157 | 129 | 2 | 1 | ✓ | 1,78 | I J K L |
| QR0440132JHR00 | 44,0 | 40 | 60 | 237 | 167 | 132 | 2 | 1 | ✓ | 1,83 | M N O P |
| QR0450135JHR00 | 45,0 | 40 | 60 | 240 | 170 | 135 | 2 | 1 | ✓ | 1,92 | M N O P |
| QR0460138JHR00 | 46,0 | 40 | 60 | 243 | 173 | 138 | 2 | 1 | ✓ | 1,99 | M N O P |
| QR0465141JHR00 | 46,5 | 40 | 60 | 246 | 176 | 141 | 2 | 1 | ✓ | 2,05 | M N O P |
| QR0470141JHR00 | 47,0 | 40 | 60 | 246 | 176 | 141 | 2 | 1 | ✓ | 2,05 | M N O P |
| QR0480144JHR00 | 48,0 | 40 | 60 | 249 | 179 | 144 | 2 | 1 | ✓ | 2,11 | M N O P |
| QR0490147JHR00 | 49,0 | 40 | 60 | 252 | 182 | 147 | 2 | 1 | ✓ | 2,16 | M N O P |
| QR0500150JHR00 | 50,0 | 40 | 60 | 255 | 185 | 150 | 2 | 1 | ✓ | 2,26 | M N O P |
| QR0505153JHR00 | 50,5 | 40 | 60 | 258 | 188 | 153 | 2 | 1 | ✓ | 2,30 | M N O P |

**SPARE PARTS
ACCESSOIRES**



Diameter Range / Diamètres

| | | |
|-------------|---------------------|---------|
| 26,5 - 36,0 | SM35-088-60 (3,0Nm) | DS-T10S |
| 37,0 - 43,0 | SM40-093-20 (4,5Nm) | DS-T15S |
| 44,0 - 50,5 | SMS0-113-20 (8,0Nm) | DS-T20S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



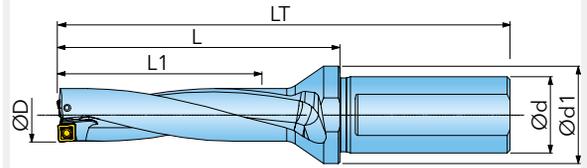
| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT150510SK ¹⁾ | 0,06/0,24 | positive geometry R1,0 / Géométrie positive R1,0 | | | ● | | ● | ● | | | |
| SOMT150510NG | 0,10/0,18 | cast iron geometry R1,0 / Géométrie fonte R 1,0 | | | | ● | | | | | |
| SOMT150510HP | 0,10/0,18 | non-ferrous geometry, polished R1,0 / Géo. pour mat. non fer., polie R1,0 | ● | | | | | | | | |
| SOMT150510PS | 0,06/0,14 | Chip breaker geometry R1,0 / Géométrie copeaux longs R1,0 | | ● | | | | | | | |

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

QUADT WIST INDEXABLE DRILL 4D Ø12 - Ø26
FORET A PLAQUETTES 4D Ø12 - Ø26

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|--|--|
| QR0120048JER00 | 12,0 | 20 | 25 | 118 | 68 | 48 | 2 | 1 | ✓ | 0,14 | A |
| QR0130052JER00 | 13,0 | 20 | 25 | 122 | 72 | 52 | 2 | 1 | ✓ | 0,15 | A |
| QR0140056JER00 | 14,0 | 20 | 25 | 124 | 74 | 56 | 2 | 1 | ✓ | 0,16 | BCDE |
| QR0150060JER00 | 15,0 | 20 | 25 | 129 | 79 | 60 | 2 | 1 | ✓ | 0,17 | BCDE |
| QR0160064JER00 | 16,0 | 20 | 25 | 134 | 84 | 64 | 2 | 1 | ✓ | 0,18 | BCDE |
| QR0170068JFR00 | 17,0 | 25 | 32 | 144 | 88 | 68 | 2 | 1 | ✓ | 0,29 | FGHI |
| QR0175072JFR00 | 17,5 | 25 | 32 | 149 | 93 | 72 | 2 | 1 | ✓ | 0,30 | FGHI |
| QR0180072JFR00 | 18,0 | 25 | 32 | 149 | 93 | 72 | 2 | 1 | ✓ | 0,30 | FGHI |
| QR0190076JFR00 | 19,0 | 25 | 32 | 153 | 97 | 76 | 2 | 1 | ✓ | 0,32 | FGHI |
| QR0195080JFR00 | 19,5 | 25 | 32 | 159 | 103 | 80 | 2 | 1 | ✓ | 0,34 | JKLM |
| QR0200080JFR00 | 20,0 | 25 | 32 | 159 | 103 | 80 | 2 | 1 | ✓ | 0,34 | JKLM |
| QR0210084JFR00 | 21,0 | 25 | 32 | 163 | 107 | 84 | 2 | 1 | ✓ | 0,35 | JKLM |
| QR0220088JFR00 | 22,0 | 25 | 32 | 167 | 111 | 88 | 2 | 1 | ✓ | 0,37 | JKLM |
| QR0230092JFR00 | 23,0 | 25 | 32 | 170 | 114 | 92 | 2 | 1 | ✓ | 0,38 | NOPO |
| QR0240096JFR00 | 24,0 | 25 | 32 | 174 | 118 | 96 | 2 | 1 | ✓ | 0,41 | NOPO |
| QR0250100JFR00 | 25,0 | 25 | 32 | 178 | 122 | 100 | 2 | 1 | ✓ | 0,42 | NOPO |
| QR0260104JFR00 | 26,0 | 25 | 32 | 181 | 125 | 104 | 2 | 1 | ✓ | 0,45 | NOPO |

SPARE PARTS
ACCESSOIRES

①



②



Diameter Range / Diamètres

| | | |
|-------------|------------------------|--------------------|
| 12,0 - 13,0 | TS 180411/HG (0,5Nm) | DS-TP06S (TX-Plus) |
| 14,0 - 16,0 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) |
| 17,0 - 22,0 | TS 220521/HG-P (0,8Nm) | DS-TP07S (TX-Plus) |
| 23,0 - 26,0 | SO 250651 (1,1Nm) | DS-T07S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT040204SK | 0,04/0,14 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | | | | | |
| SOMT050204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT050204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT050204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT050204PS | 0,04/0,10 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | ● | | | | | | | |
| SOMT060204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT060204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT060204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT060204PS | 0,04/0,11 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | ● | | | | | | | |
| SOMT070306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT070306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT070306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT070306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | ● | | | | | | | |
| SOMT08T306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT08T306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT08T306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT08T306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | ● | | | | | | | |

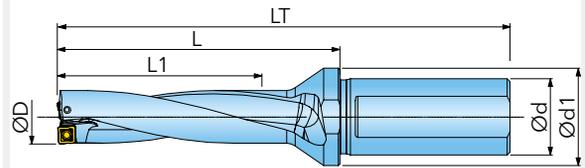
¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST INDEXABLE DRILL 4D Ø27 - Ø50
FORET A PLAQUETTES 4D Ø27 - Ø50

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|--|--|
| QR0270108JFR00 | 27,0 | 25 | 40 | 187 | 131 | 108 | 2 | 1 | ✓ | 0,59 | A B C D |
| QR0280112JFR00 | 28,0 | 25 | 40 | 191 | 135 | 112 | 2 | 1 | ✓ | 0,62 | A B C D |
| QR0290116JGR00 | 29,0 | 32 | 40 | 199 | 139 | 116 | 2 | 1 | ✓ | 0,80 | A B C D |
| QR0300120JGR00 | 30,0 | 32 | 40 | 203 | 143 | 120 | 2 | 1 | ✓ | 0,94 | A B C D |
| QR0310124JGR00 | 31,0 | 32 | 40 | 207 | 147 | 124 | 2 | 1 | ✓ | 0,97 | A B C D |
| QR0320128JGR00 | 32,0 | 32 | 40 | 211 | 151 | 128 | 2 | 1 | ✓ | 1,04 | E F G H |
| QR0330132JGR00 | 33,0 | 32 | 40 | 215 | 155 | 132 | 2 | 1 | ✓ | 1,09 | E F G H |
| QR0340136JGR00 | 34,0 | 32 | 40 | 219 | 159 | 136 | 2 | 1 | ✓ | 1,13 | E F G H |
| QR0350140JGR00 | 35,0 | 32 | 40 | 223 | 163 | 140 | 2 | 1 | ✓ | 1,17 | E F G H |
| QR0360144JGR00 | 36,0 | 32 | 40 | 227 | 167 | 144 | 2 | 1 | ✓ | 1,23 | E F G H |
| QR0370148JGR00 | 37,0 | 32 | 50 | 236 | 176 | 148 | 2 | 1 | ✓ | 1,29 | I J K L |
| QR0380152JGR00 | 38,0 | 32 | 50 | 240 | 180 | 152 | 2 | 1 | ✓ | 1,34 | I J K L |
| QR0390156JGR00 | 39,0 | 32 | 50 | 244 | 184 | 156 | 2 | 1 | ✓ | 1,41 | I J K L |
| QR0400160JGR00 | 40,0 | 32 | 50 | 248 | 188 | 160 | 2 | 1 | ✓ | 1,50 | I J K L |
| QR0410164JHR00 | 41,0 | 40 | 50 | 262 | 192 | 164 | 2 | 1 | ✓ | 1,86 | I J K L |
| QR0420168JHR00 | 42,0 | 40 | 50 | 266 | 196 | 168 | 2 | 1 | ✓ | 1,94 | I J K L |
| QR0430172JHR00 | 43,0 | 40 | 50 | 270 | 200 | 172 | 2 | 1 | ✓ | 2,02 | I J K L |
| QR0440176JHR00 | 44,0 | 40 | 60 | 281 | 211 | 176 | 2 | 1 | ✓ | 2,10 | M N O P |
| QR0450180JHR00 | 45,0 | 40 | 60 | 285 | 215 | 180 | 2 | 1 | ✓ | 2,19 | M N O P |
| QR0460184JHR00 | 46,0 | 40 | 60 | 289 | 219 | 184 | 2 | 1 | ✓ | 2,30 | M N O P |
| QR0470188JHR00 | 47,0 | 40 | 60 | 293 | 223 | 188 | 2 | 1 | ✓ | 2,37 | M N O P |
| QR0480192JHR00 | 48,0 | 40 | 60 | 297 | 227 | 192 | 2 | 1 | ✓ | 2,47 | M N O P |
| QR0490196JHR00 | 49,0 | 40 | 60 | 301 | 231 | 196 | 2 | 1 | ✓ | 2,59 | M N O P |
| QR0500200JHR00 | 50,0 | 40 | 60 | 305 | 235 | 200 | 2 | 1 | ✓ | 2,64 | M N O P |

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

| | | |
|-------------|---------------------|---------|
| 27,0 - 36,0 | SM35-088-60 (3,0Nm) | DS-T10S |
| 37,0 - 43,0 | SM40-093-20 (4,5Nm) | DS-T15S |
| 44,0 - 50,0 | SMS0-113-20 (8,0Nm) | DS-T20S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT150510SK ¹⁾ | 0,06/0,24 | positive geometry R1,0 / Géométrie positive R1,0 | | | ● | | ● | ● | | | |
| SOMT150510NG | 0,10/0,18 | cast iron geometry R1,0 / Géométrie fonte R 1,0 | | | | ● | | | | | |
| SOMT150510HP | 0,10/0,18 | non-ferrous geometry, polished R1,0 / Géo. pour mat. non fer., polie R1,0 | ● | | | | | | | | |
| SOMT150510PS | 0,06/0,14 | Chip breaker geometry R1,0 / Géométrie copeaux longs R1,0 | | ● | | | | | | | |

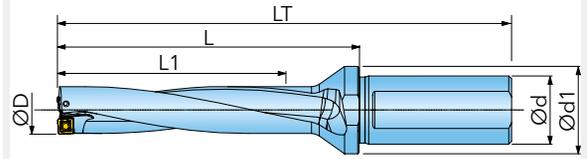
¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST INDEXABLE DRILL 5D Ø12 - Ø26
FORET A PLAQUETTES 5D Ø12 - Ø26

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff | | | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|------|--|
| QR0120060JER00 | 12,0 | 20 | 25 | 130 | 80 | 60 | 2 | 1 | ✓ | 0,15 | A |
| QR0130065JER00 | 13,0 | 20 | 25 | 135 | 85 | 65 | 2 | 1 | ✓ | 0,16 | A |
| QR0140070JER00 | 14,0 | 20 | 25 | 138 | 88 | 70 | 2 | 1 | ✓ | 0,17 | BCDE |
| QR0150075JER00 | 15,0 | 20 | 25 | 144 | 94 | 75 | 2 | 1 | ✓ | 0,18 | BCDE |
| QR0160080JER00 | 16,0 | 20 | 25 | 150 | 100 | 80 | 2 | 1 | ✓ | 0,19 | BCDE |
| QR0170085JFR00 | 17,0 | 25 | 32 | 161 | 105 | 85 | 2 | 1 | ✓ | 0,31 | FGHI |
| QR0180090JFR00 | 18,0 | 25 | 32 | 167 | 111 | 90 | 2 | 1 | ✓ | 0,32 | FGHI |
| QR0190095JFR00 | 19,0 | 25 | 32 | 172 | 116 | 95 | 2 | 1 | ✓ | 0,34 | FGHI |
| QR0200100JFR00 | 20,0 | 25 | 32 | 179 | 123 | 100 | 2 | 1 | ✓ | 0,36 | JKLM |
| QR0210105JFR00 | 21,0 | 25 | 32 | 184 | 128 | 105 | 2 | 1 | ✓ | 0,38 | JKLM |
| QR0220110JFR00 | 22,0 | 25 | 32 | 189 | 133 | 110 | 2 | 1 | ✓ | 0,40 | JKLM |
| QR0230115JFR00 | 23,0 | 25 | 32 | 193 | 137 | 115 | 2 | 1 | ✓ | 0,42 | NOPO |
| QR0240120JFR00 | 24,0 | 25 | 32 | 198 | 142 | 120 | 2 | 1 | ✓ | 0,45 | NOPO |
| QR0250125JFR00 | 25,0 | 25 | 32 | 203 | 147 | 125 | 2 | 1 | ✓ | 0,46 | NOPO |
| QR0260130JFR00 | 26,0 | 25 | 32 | 207 | 151 | 130 | 2 | 1 | ✓ | 0,50 | NOPO |

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

| | | |
|-------------|------------------------|--------------------|
| 12,0 - 13,0 | TS 180411/HG (0,5Nm) | DS-TP06S (TX-Plus) |
| 14,0 - 16,0 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) |
| 17,0 - 22,0 | TS 220521/HG-P (0,8Nm) | DS-TP07S (TX-Plus) |
| 23,0 - 26,0 | SO 250651 (1,1Nm) | DS-T07S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT040204SK | 0,04/0,14 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | | | | | |
| SOMT050204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT050204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT050204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT050204PS | 0,04/0,10 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | | ● | | | | | | |
| SOMT060204SK ¹⁾ | 0,04/0,18 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | ● | | | |
| SOMT060204NG | 0,06/0,15 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SOMT060204HP | 0,06/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SOMT060204PS | 0,04/0,11 | Chip breaker geometry R0,4 / Géométrie copeaux longs R0,4 | | | ● | | | | | | |
| SOMT070306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT070306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT070306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT070306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | | ● | | | | | | |
| SOMT08T306SK ¹⁾ | 0,04/0,20 | positive geometry R0,6 / Géométrie positive R0,6 | | | ● | | ● | ● | | | |
| SOMT08T306NG | 0,08/0,16 | cast iron geometry R0,6 / Géométrie fonte R 0,6 | | | | ● | | | | | |
| SOMT08T306HP | 0,08/0,16 | non-ferrous geometry, polished R0,6 / Géo. pour mat. non fer., polie R0,6 | ● | | | | | | | | |
| SOMT08T306PS | 0,04/0,12 | Chip breaker geometry R0,6 / Géométrie copeaux longs R0,6 | | | ● | | | | | | |

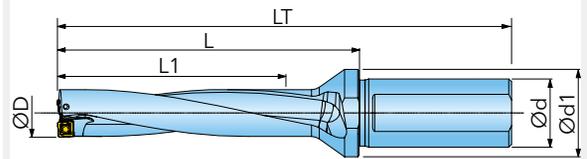
¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST INDEXABLE DRILL 5D Ø27 - Ø50
FORET A PLAQUETTES 5D Ø27 - Ø50

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|---|--|--|
| QR0270135JFR00 | 27,0 | 25 | 40 | 214 | 158 | 135 | 2 | 1 | ✓ | 0,65 | A B C D |
| QR0280140JFR00 | 28,0 | 25 | 40 | 219 | 163 | 140 | 2 | 1 | ✓ | 0,68 | A B C D |
| QR0290145JGR00 | 29,0 | 32 | 40 | 228 | 168 | 145 | 2 | 1 | ✓ | 0,86 | A B C D |
| QR0300150JGR00 | 30,0 | 32 | 40 | 233 | 173 | 150 | 2 | 1 | ✓ | 1,04 | A B C D |
| QR0310155JGR00 | 31,0 | 32 | 40 | 238 | 178 | 155 | 2 | 1 | ✓ | 1,08 | A B C D |
| QR0320160JGR00 | 32,0 | 32 | 40 | 243 | 183 | 160 | 2 | 1 | ✓ | 1,14 | E F G H |
| QR0330165JGR00 | 33,0 | 32 | 40 | 248 | 188 | 165 | 2 | 1 | ✓ | 1,20 | E F G H |
| QR0340170JGR00 | 34,0 | 32 | 40 | 253 | 193 | 170 | 2 | 1 | ✓ | 1,26 | E F G H |
| QR0350175JGR00 | 35,0 | 32 | 40 | 258 | 198 | 175 | 2 | 1 | ✓ | 1,29 | E F G H |
| QR0360180JGR00 | 36,0 | 32 | 40 | 263 | 203 | 180 | 2 | 1 | ✓ | 1,39 | E F G H |
| QR0370185JGR00 | 37,0 | 32 | 50 | 273 | 213 | 185 | 2 | 1 | ✓ | 1,40 | I J K L |
| QR0380190JGR00 | 38,0 | 32 | 50 | 278 | 218 | 190 | 2 | 1 | ✓ | 1,50 | I J K L |
| QR0390195JGR00 | 39,0 | 32 | 50 | 283 | 223 | 195 | 2 | 1 | ✓ | 1,56 | I J K L |
| QR0400200JGR00 | 40,0 | 32 | 50 | 288 | 228 | 200 | 2 | 1 | ✓ | 1,68 | I J K L |
| QR0410205JHR00 | 41,0 | 40 | 50 | 303 | 233 | 205 | 2 | 1 | ✓ | 2,08 | I J K L |
| QR0420210JHR00 | 42,0 | 40 | 50 | 308 | 238 | 210 | 2 | 1 | ✓ | 2,16 | I J K L |
| QR0430215JHR00 | 43,0 | 40 | 50 | 313 | 243 | 215 | 2 | 1 | ✓ | 2,28 | I J K L |
| QR0440220JHR00 | 44,0 | 40 | 60 | 325 | 255 | 220 | 2 | 1 | ✓ | 2,36 | M N O P |
| QR0450225JHR00 | 45,0 | 40 | 60 | 330 | 260 | 225 | 2 | 1 | ✓ | 2,45 | M N O P |
| QR0460230JHR00 | 46,0 | 40 | 60 | 335 | 265 | 230 | 2 | 1 | ✓ | 2,56 | M N O P |
| QR0470235JHR00 | 47,0 | 40 | 60 | 340 | 270 | 235 | 2 | 1 | ✓ | 2,63 | M N O P |
| QR0480240JHR00 | 48,0 | 40 | 60 | 345 | 275 | 240 | 2 | 1 | ✓ | 2,73 | M N O P |
| QR0490245JHR00 | 49,0 | 40 | 60 | 350 | 280 | 245 | 2 | 1 | ✓ | 2,85 | M N O P |
| QR0500250JHR00 | 50,0 | 40 | 60 | 355 | 285 | 250 | 2 | 1 | ✓ | 2,95 | M N O P |

SPARE PARTS
ACCESSOIRES



Diameter Range / Diamètres

| | | |
|-------------|---------------------|---------|
| 27,0 - 36,0 | SM35-088-60 (3,0Nm) | DS-T10S |
| 37,0 - 43,0 | SM40-093-20 (4,5Nm) | DS-T15S |
| 44,0 - 50,0 | SMS0-113-20 (8,0Nm) | DS-T20S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | ● | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | ● | | | | | | | |
| SOMT150510SK ¹⁾ | 0,06/0,24 | positive geometry R1,0 / Géométrie positive R1,0 | | | ● | | ● | ● | | | |
| SOMT150510NG | 0,10/0,18 | cast iron geometry R1,0 / Géométrie fonte R 1,0 | | | | ● | | | | | |
| SOMT150510HP | 0,10/0,18 | non-ferrous geometry, polished R1,0 / Géo. pour mat. non fer., polie R1,0 | ● | | | | | | | | |
| SOMT150510PS | 0,06/0,14 | Chip breaker geometry R1,0 / Géométrie copeaux longs R1,0 | | ● | | | | | | | |

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

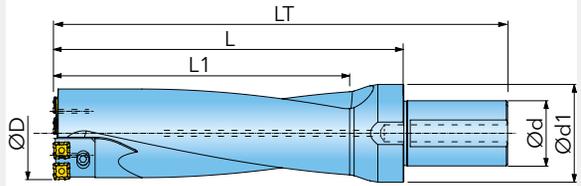
● = P ● = M ● = K ● = N ● = S ○ = H



QUADT WIST CARTRIDGE INDEXABLE DRILL 2D Ø51 - Ø80

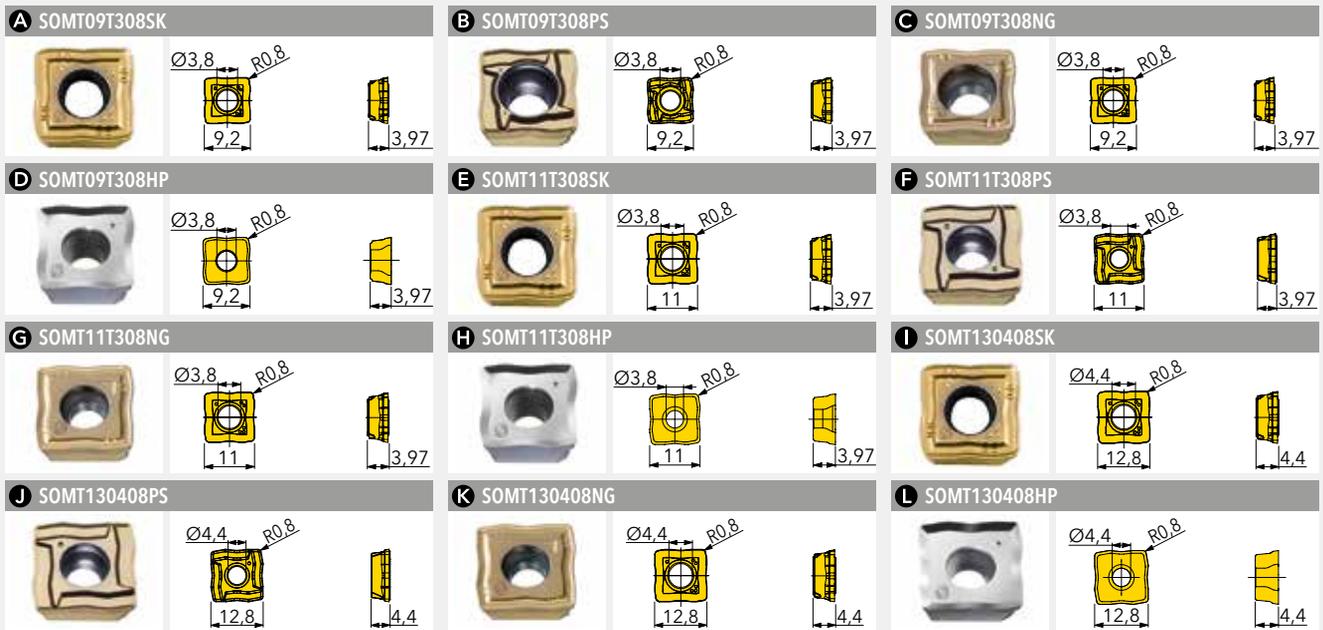
FORET À CARTOUCHES 2D Ø51 - Ø80

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Zeff | Setting Plate | | | Related Insert Plaquette préconisée |
|----------------------------------|----|--------|--------|----|----|-----|-----|-----|---|------|------------------|---|------|--|
| QR0510110JJR00 | 51 | 51 | 55 | 50 | 64 | 223 | 143 | 110 | 4 | 1 | - | ✓ | 2,48 | A B C D |
| QR0510110JJR00 | 52 | 51 | 55 | 50 | 64 | 223 | 143 | 110 | 4 | 1 | PA-5333 | ✓ | 2,48 | A B C D |
| QR0510110JJR00 | 53 | 51 | 55 | 50 | 64 | 223 | 143 | 110 | 4 | 1 | PA-5334 | ✓ | 2,48 | A B C D |
| QR0510110JJR00 | 54 | 51 | 55 | 50 | 64 | 223 | 143 | 110 | 4 | 1 | PA-5335 | ✓ | 2,48 | A B C D |
| QR0510110JJR00 | 55 | 51 | 55 | 50 | 64 | 223 | 143 | 110 | 4 | 1 | PA-5336 | ✓ | 2,48 | A B C D |
| QR0560120JJR00 | 56 | 56 | 60 | 50 | 64 | 236 | 156 | 120 | 4 | 1 | - | ✓ | 2,81 | E F G H |
| QR0560120JJR00 | 57 | 56 | 60 | 50 | 64 | 236 | 156 | 120 | 4 | 1 | PA-5333 | ✓ | 2,81 | E F G H |
| QR0560120JJR00 | 58 | 56 | 60 | 50 | 64 | 236 | 156 | 120 | 4 | 1 | PA-5334 | ✓ | 2,81 | E F G H |
| QR0560120JJR00 | 59 | 56 | 60 | 50 | 64 | 236 | 156 | 120 | 4 | 1 | PA-5335 | ✓ | 2,81 | E F G H |
| QR0560120JJR00 | 60 | 56 | 60 | 50 | 64 | 236 | 156 | 120 | 4 | 1 | PA-5336 | ✓ | 2,81 | E F G H |
| QR0610130JJR00 | 61 | 61 | 65 | 50 | 69 | 249 | 169 | 130 | 4 | 1 | - | ✓ | 3,72 | E F G H |
| QR0610130JJR00 | 62 | 61 | 65 | 50 | 69 | 249 | 169 | 130 | 4 | 1 | PA-5333 | ✓ | 3,72 | E F G H |
| QR0610130JJR00 | 63 | 61 | 65 | 50 | 69 | 249 | 169 | 130 | 4 | 1 | PA-5334 | ✓ | 3,72 | E F G H |
| QR0610130JJR00 | 64 | 61 | 65 | 50 | 69 | 249 | 169 | 130 | 4 | 1 | PA-5335 | ✓ | 3,72 | E F G H |
| QR0610130JJR00 | 65 | 61 | 65 | 50 | 69 | 249 | 169 | 130 | 4 | 1 | PA-5336 | ✓ | 3,72 | E F G H |
| QR0660140JJR00 | 66 | 66 | 70 | 50 | 69 | 262 | 182 | 140 | 4 | 1 | - | ✓ | 4,22 | E F G H |
| QR0660140JJR00 | 67 | 66 | 70 | 50 | 69 | 262 | 182 | 140 | 4 | 1 | PA-5333 | ✓ | 4,22 | E F G H |
| QR0660140JJR00 | 68 | 66 | 70 | 50 | 69 | 262 | 182 | 140 | 4 | 1 | PA-5334 | ✓ | 4,22 | E F G H |
| QR0660140JJR00 | 69 | 66 | 70 | 50 | 69 | 262 | 182 | 140 | 4 | 1 | PA-5335 | ✓ | 4,22 | E F G H |
| QR0660140JJR00 | 70 | 66 | 70 | 50 | 69 | 262 | 182 | 140 | 4 | 1 | PA-5336 | ✓ | 4,22 | E F G H |
| QR0710150JJR00 | 71 | 71 | 75 | 50 | 74 | 275 | 195 | 150 | 4 | 1 | - | ✓ | 4,64 | I O K L |
| QR0710150JJR00 | 72 | 71 | 75 | 50 | 74 | 275 | 195 | 150 | 4 | 1 | PA-5333 | ✓ | 4,64 | I O K L |
| QR0710150JJR00 | 73 | 71 | 75 | 50 | 74 | 275 | 195 | 150 | 4 | 1 | PA-5334 | ✓ | 4,64 | I O K L |
| QR0710150JJR00 | 74 | 71 | 75 | 50 | 74 | 275 | 195 | 150 | 4 | 1 | PA-5335 | ✓ | 4,64 | I O K L |
| QR0710150JJR00 | 75 | 71 | 75 | 50 | 74 | 275 | 195 | 150 | 4 | 1 | PA-5336 | ✓ | 4,64 | I O K L |
| QR0760160JJR00 | 76 | 76 | 80 | 50 | 74 | 288 | 208 | 160 | 4 | 1 | - | ✓ | 5,41 | I O K L |
| QR0760160JJR00 | 77 | 76 | 80 | 50 | 74 | 288 | 208 | 160 | 4 | 1 | PA-5333 | ✓ | 5,41 | I O K L |
| QR0760160JJR00 | 78 | 76 | 80 | 50 | 74 | 288 | 208 | 160 | 4 | 1 | PA-5334 | ✓ | 5,41 | I O K L |
| QR0760160JJR00 | 79 | 76 | 80 | 50 | 74 | 288 | 208 | 160 | 4 | 1 | PA-5335 | ✓ | 5,41 | I O K L |
| QR0760160JJR00 | 80 | 76 | 80 | 50 | 74 | 288 | 208 | 160 | 4 | 1 | PA-5336 | ✓ | 5,41 | I O K L |

Included in delivery: body, cartridges and setting plates. / La livraison inclue: corps, cartouches et cales d'ajustement.



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

= P = M = K = N = S = H

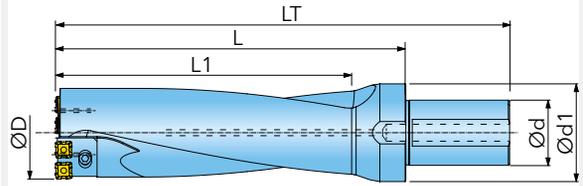
| SPARE PARTS ACCESSOIRES | | | | | | | | |
|----------------------------|-----------|-----------|---------------------|---------|----------------------|-----------|---------------------|--|
| Diameter Range / Diamètres | | | | | | | | |
| 51 - 55 | 55F233R02 | 55F203R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 | SM20-043-00 (0,7Nm) | |
| 56 - 60 | 55G253R00 | 55G233R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 61 - 65 | 55G273R00 | 55G253R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 66 - 70 | 55G293R00 | 55G273R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 71 - 75 | 55H313R00 | 55H293R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |
| 76 - 80 | 55H333R00 | 55H303R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |

① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis
⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection ⑦ = Insert screw / Vis de serrage plaquette

QUADT WIST CARTRIDGE INDEXABLE DRILL 3D Ø51 - Ø80

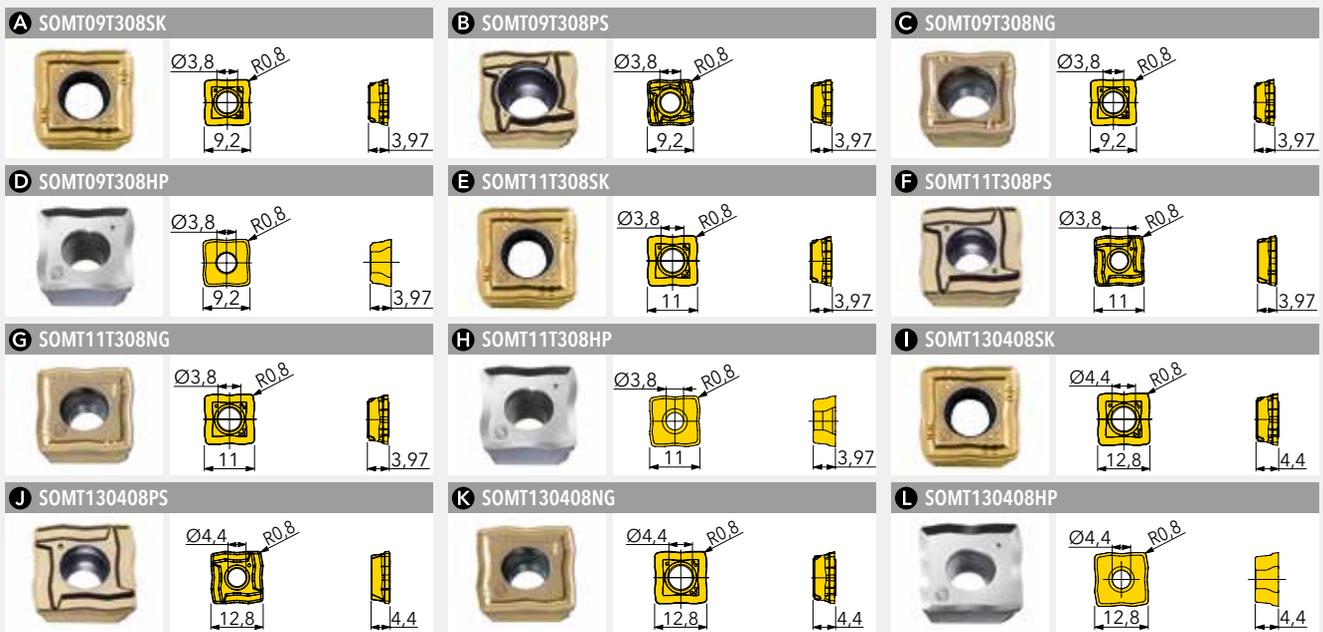
FORET À CARTOUCHES 3D Ø51 - Ø80

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Zeff | Setting Plate | | | Related Insert Plaquette préconisée |
|----------------------------------|----|--------|--------|----|----|-----|-----|-----|---|------|------------------|---|------|--|
| QR0510165JJR00 | 51 | 51 | 55 | 50 | 64 | 278 | 198 | 165 | 4 | 1 | - | ✓ | 3,25 | ABCD |
| QR0510165JJR00 | 52 | 51 | 55 | 50 | 64 | 278 | 198 | 165 | 4 | 1 | PA-5333 | ✓ | 3,25 | ABCD |
| QR0510165JJR00 | 53 | 51 | 55 | 50 | 64 | 278 | 198 | 165 | 4 | 1 | PA-5334 | ✓ | 3,25 | ABCD |
| QR0510165JJR00 | 54 | 51 | 55 | 50 | 64 | 278 | 198 | 165 | 4 | 1 | PA-5335 | ✓ | 3,25 | ABCD |
| QR0510165JJR00 | 55 | 51 | 55 | 50 | 64 | 278 | 198 | 165 | 4 | 1 | PA-5336 | ✓ | 3,25 | ABCD |
| QR0560180JJR00 | 56 | 56 | 60 | 50 | 64 | 296 | 216 | 180 | 4 | 1 | - | ✓ | 3,59 | EFGH |
| QR0560180JJR00 | 57 | 56 | 60 | 50 | 64 | 296 | 216 | 180 | 4 | 1 | PA-5333 | ✓ | 3,59 | EFGH |
| QR0560180JJR00 | 58 | 56 | 60 | 50 | 64 | 296 | 216 | 180 | 4 | 1 | PA-5334 | ✓ | 3,59 | EFGH |
| QR0560180JJR00 | 59 | 56 | 60 | 50 | 64 | 296 | 216 | 180 | 4 | 1 | PA-5335 | ✓ | 3,59 | EFGH |
| QR0560180JJR00 | 60 | 56 | 60 | 50 | 64 | 296 | 216 | 180 | 4 | 1 | PA-5336 | ✓ | 3,59 | EFGH |
| QR0610195JJR00 | 61 | 61 | 65 | 50 | 69 | 314 | 234 | 195 | 4 | 1 | - | ✓ | 4,58 | EFGH |
| QR0610195JJR00 | 62 | 61 | 65 | 50 | 69 | 314 | 234 | 195 | 4 | 1 | PA-5333 | ✓ | 4,58 | EFGH |
| QR0610195JJR00 | 63 | 61 | 65 | 50 | 69 | 314 | 234 | 195 | 4 | 1 | PA-5334 | ✓ | 4,58 | EFGH |
| QR0610195JJR00 | 64 | 61 | 65 | 50 | 69 | 314 | 234 | 195 | 4 | 1 | PA-5335 | ✓ | 4,58 | EFGH |
| QR0610195JJR00 | 65 | 61 | 65 | 50 | 69 | 314 | 234 | 195 | 4 | 1 | PA-5336 | ✓ | 4,58 | EFGH |
| QR0660210JJR00 | 66 | 66 | 70 | 50 | 69 | 332 | 252 | 210 | 4 | 1 | - | ✓ | 4,88 | EFGH |
| QR0660210JJR00 | 67 | 66 | 70 | 50 | 69 | 332 | 252 | 210 | 4 | 1 | PA-5333 | ✓ | 4,88 | EFGH |
| QR0660210JJR00 | 68 | 66 | 70 | 50 | 69 | 332 | 252 | 210 | 4 | 1 | PA-5334 | ✓ | 4,88 | EFGH |
| QR0660210JJR00 | 69 | 66 | 70 | 50 | 69 | 332 | 252 | 210 | 4 | 1 | PA-5335 | ✓ | 4,88 | EFGH |
| QR0660210JJR00 | 70 | 66 | 70 | 50 | 69 | 332 | 252 | 210 | 4 | 1 | PA-5336 | ✓ | 4,88 | EFGH |
| QR0710225JJR00 | 71 | 71 | 75 | 50 | 74 | 350 | 270 | 225 | 4 | 1 | - | ✓ | 5,65 | IJKL |
| QR0710225JJR00 | 72 | 71 | 75 | 50 | 74 | 350 | 270 | 225 | 4 | 1 | PA-5333 | ✓ | 5,65 | IJKL |
| QR0710225JJR00 | 73 | 71 | 75 | 50 | 74 | 350 | 270 | 225 | 4 | 1 | PA-5334 | ✓ | 5,65 | IJKL |
| QR0710225JJR00 | 74 | 71 | 75 | 50 | 74 | 350 | 270 | 225 | 4 | 1 | PA-5335 | ✓ | 5,65 | IJKL |
| QR0710225JJR00 | 75 | 71 | 75 | 50 | 74 | 350 | 270 | 225 | 4 | 1 | PA-5336 | ✓ | 5,65 | IJKL |
| QR0760240JJR00 | 76 | 76 | 80 | 50 | 74 | 368 | 288 | 240 | 4 | 1 | - | ✓ | 6,85 | IJKL |
| QR0760240JJR00 | 77 | 76 | 80 | 50 | 74 | 368 | 288 | 240 | 4 | 1 | PA-5333 | ✓ | 6,85 | IJKL |
| QR0760240JJR00 | 78 | 76 | 80 | 50 | 74 | 368 | 288 | 240 | 4 | 1 | PA-5334 | ✓ | 6,85 | IJKL |
| QR0760240JJR00 | 79 | 76 | 80 | 50 | 74 | 368 | 288 | 240 | 4 | 1 | PA-5335 | ✓ | 6,85 | IJKL |
| QR0760240JJR00 | 80 | 76 | 80 | 50 | 74 | 368 | 288 | 240 | 4 | 1 | PA-5336 | ✓ | 6,85 | IJKL |

Included in delivery: body, cartridges and setting plates. / La livraison inclue: corps, cartouches et cales d'ajustement.



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

● = P ● = M ● = K ● = N ● = S ○ = H

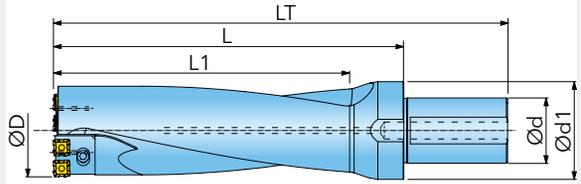
| SPARE PARTS ACCESSOIRES | | | | | | | | |
|----------------------------|-----------|-----------|---------------------|---------|----------------------|-----------|---------------------|--|
| Diameter Range / Diamètres | | | | | | | | |
| 51 - 55 | 55F233R02 | 55F203R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 | SM20-043-00 (0,7Nm) | |
| 56 - 60 | 55G253R00 | 55G233R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 61 - 65 | 55G273R00 | 55G253R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 66 - 70 | 55G293R00 | 55G273R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 71 - 75 | 55H313R00 | 55H293R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |
| 76 - 80 | 55H333R00 | 55H303R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |

① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis
⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection ⑦ = Insert screw / Vis de serrage plaquette

QUADT WIST CARTRIDGE INDEXABLE DRILL 4D Ø51 - Ø80

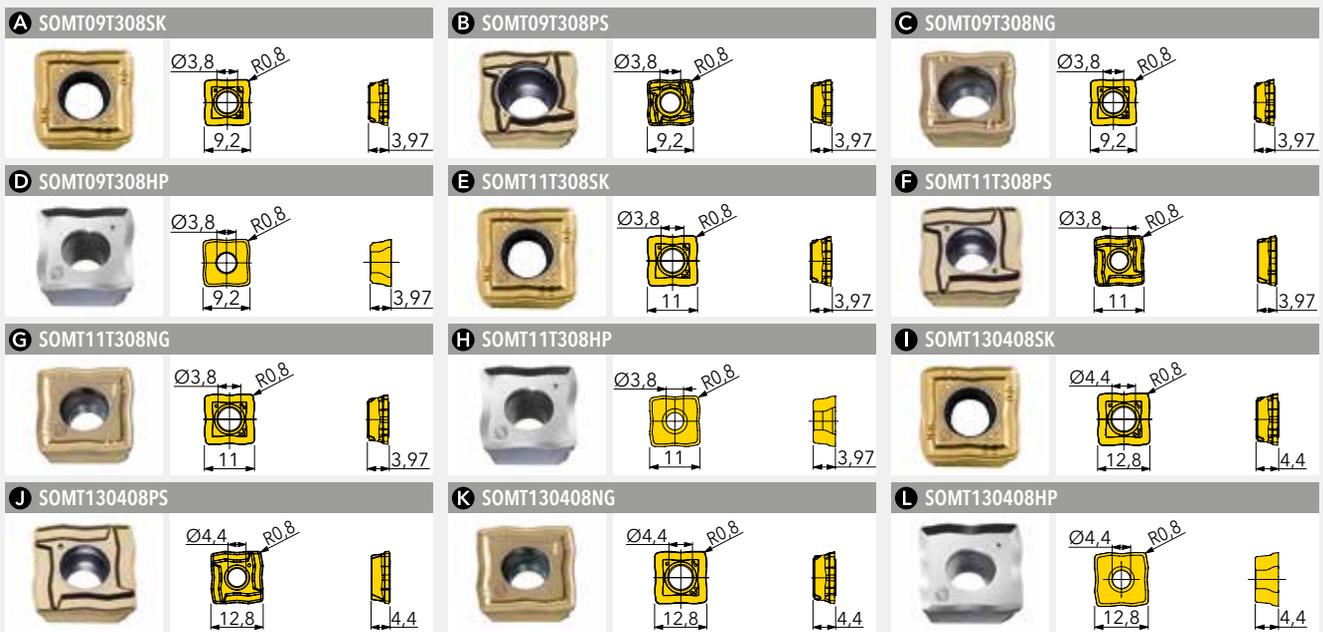
FORET À CARTOUCHES 4D Ø51 - Ø80

ADAPTION ACC. TO DIN 1835 B
ATTACHEMENT COMPATIBLE DIN 1835 B



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Zeff | Setting Plate | | | Related Insert Plaquette préconisée |
|----------------------------------|----|--------|--------|----|----|-----|-----|-----|---|------|------------------|---|------|--|
| QR0510220JJR00 | 51 | 51 | 55 | 50 | 64 | 333 | 253 | 220 | 4 | 1 | - | ✓ | 4,02 | ABCD |
| QR0510220JJR00 | 52 | 51 | 55 | 50 | 64 | 333 | 253 | 220 | 4 | 1 | PA-5333 | ✓ | 4,02 | ABCD |
| QR0510220JJR00 | 53 | 51 | 55 | 50 | 64 | 333 | 253 | 220 | 4 | 1 | PA-5334 | ✓ | 4,02 | ABCD |
| QR0510220JJR00 | 54 | 51 | 55 | 50 | 64 | 333 | 253 | 220 | 4 | 1 | PA-5335 | ✓ | 4,02 | ABCD |
| QR0510220JJR00 | 55 | 51 | 55 | 50 | 64 | 333 | 253 | 220 | 4 | 1 | PA-5336 | ✓ | 4,02 | ABCD |
| QR0560240JJR00 | 56 | 56 | 60 | 50 | 64 | 356 | 276 | 240 | 4 | 1 | - | ✓ | 4,37 | EFGH |
| QR0560240JJR00 | 57 | 56 | 60 | 50 | 64 | 356 | 276 | 240 | 4 | 1 | PA-5333 | ✓ | 4,37 | EFGH |
| QR0560240JJR00 | 58 | 56 | 60 | 50 | 64 | 356 | 276 | 240 | 4 | 1 | PA-5334 | ✓ | 4,37 | EFGH |
| QR0560240JJR00 | 59 | 56 | 60 | 50 | 64 | 356 | 276 | 240 | 4 | 1 | PA-5335 | ✓ | 4,37 | EFGH |
| QR0560240JJR00 | 60 | 56 | 60 | 50 | 64 | 356 | 276 | 240 | 4 | 1 | PA-5336 | ✓ | 4,37 | EFGH |
| QR0610260JJR00 | 61 | 61 | 65 | 50 | 69 | 379 | 299 | 260 | 4 | 1 | - | ✓ | 5,35 | EFGH |
| QR0610260JJR00 | 62 | 61 | 65 | 50 | 69 | 379 | 299 | 260 | 4 | 1 | PA-5333 | ✓ | 5,35 | EFGH |
| QR0610260JJR00 | 63 | 61 | 65 | 50 | 69 | 379 | 299 | 260 | 4 | 1 | PA-5334 | ✓ | 5,35 | EFGH |
| QR0610260JJR00 | 64 | 61 | 65 | 50 | 69 | 379 | 299 | 260 | 4 | 1 | PA-5335 | ✓ | 5,35 | EFGH |
| QR0610260JJR00 | 65 | 61 | 65 | 50 | 69 | 379 | 299 | 260 | 4 | 1 | PA-5336 | ✓ | 5,35 | EFGH |
| QR0660280JJR00 | 66 | 66 | 70 | 50 | 69 | 402 | 322 | 280 | 4 | 1 | - | ✓ | 5,54 | EFGH |
| QR0660280JJR00 | 67 | 66 | 70 | 50 | 69 | 402 | 322 | 280 | 4 | 1 | PA-5333 | ✓ | 5,54 | EFGH |
| QR0660280JJR00 | 68 | 66 | 70 | 50 | 69 | 402 | 322 | 280 | 4 | 1 | PA-5334 | ✓ | 5,54 | EFGH |
| QR0660280JJR00 | 69 | 66 | 70 | 50 | 69 | 402 | 322 | 280 | 4 | 1 | PA-5335 | ✓ | 5,54 | EFGH |
| QR0660280JJR00 | 70 | 66 | 70 | 50 | 69 | 402 | 322 | 280 | 4 | 1 | PA-5336 | ✓ | 5,54 | EFGH |
| QR0710300JJR00 | 71 | 71 | 75 | 50 | 74 | 425 | 345 | 300 | 4 | 1 | - | ✓ | 6,70 | IJKL |
| QR0710300JJR00 | 72 | 71 | 75 | 50 | 74 | 425 | 345 | 300 | 4 | 1 | PA-5333 | ✓ | 6,70 | IJKL |
| QR0710300JJR00 | 73 | 71 | 75 | 50 | 74 | 425 | 345 | 300 | 4 | 1 | PA-5334 | ✓ | 6,70 | IJKL |
| QR0710300JJR00 | 74 | 71 | 75 | 50 | 74 | 425 | 345 | 300 | 4 | 1 | PA-5335 | ✓ | 6,70 | IJKL |
| QR0710300JJR00 | 75 | 71 | 75 | 50 | 74 | 425 | 345 | 300 | 4 | 1 | PA-5336 | ✓ | 6,70 | IJKL |
| QR0760320JJR00 | 76 | 76 | 80 | 50 | 74 | 448 | 368 | 320 | 4 | 1 | - | ✓ | 8,15 | IJKL |
| QR0760320JJR00 | 77 | 76 | 80 | 50 | 74 | 448 | 368 | 320 | 4 | 1 | PA-5333 | ✓ | 8,15 | IJKL |
| QR0760320JJR00 | 78 | 76 | 80 | 50 | 74 | 448 | 368 | 320 | 4 | 1 | PA-5334 | ✓ | 8,15 | IJKL |
| QR0760320JJR00 | 79 | 76 | 80 | 50 | 74 | 448 | 368 | 320 | 4 | 1 | PA-5335 | ✓ | 8,15 | IJKL |
| QR0760320JJR00 | 80 | 76 | 80 | 50 | 74 | 448 | 368 | 320 | 4 | 1 | PA-5336 | ✓ | 8,15 | IJKL |

Included in delivery: body, cartridges and setting plates. / La livraison inclue: corps, cartouches et cales d'ajustement.



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2505 | IN2510 | IN2530 | IN6505 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--------|--|--|--|
| SOMT09T308SK ¹⁾ | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT09T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT09T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT09T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT11T308SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT11T308PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT11T308NG | 0,08/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT11T308HP | 0,08/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |
| SOMT130408SK ¹⁾ | 0,06/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SOMT130408PS | 0,06/0,13 | Chip breaker geometry R0,8 / Géométrie copeaux longs R0,8 | | | | | | | | | |
| SOMT130408NG | 0,10/0,18 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |
| SOMT130408HP | 0,10/0,18 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | | | | | | | | | |

¹⁾ Use IN6505 grade only for peripheral inserts / Le revêtement IN6505 est uniquement pour les plaquettes extérieures

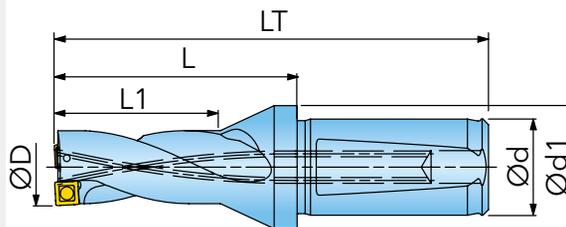
= P = M = K = N = S = H

| SPARE PARTS ACCESSOIRES | | | | | | | | |
|----------------------------|-----------|-----------|---------------------|---------|----------------------|-----------|---------------------|--|
| Diameter Range / Diamètres | | | | | | | | |
| 51 - 55 | 55F233R02 | 55F203R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 | SM20-043-00 (0,7Nm) | |
| 56 - 60 | 55G253R00 | 55G233R00 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 61 - 65 | 55G273R00 | 55G253R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 66 - 70 | 55G293R00 | 55G273R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 | SM20-043-00 (0,7Nm) | |
| 71 - 75 | 55H313R00 | 55H293R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |
| 76 - 80 | 55H333R00 | 55H303R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6X1X20 (10Nm) | MW 6.4X12 | SM20-043-00 (0,7Nm) | |

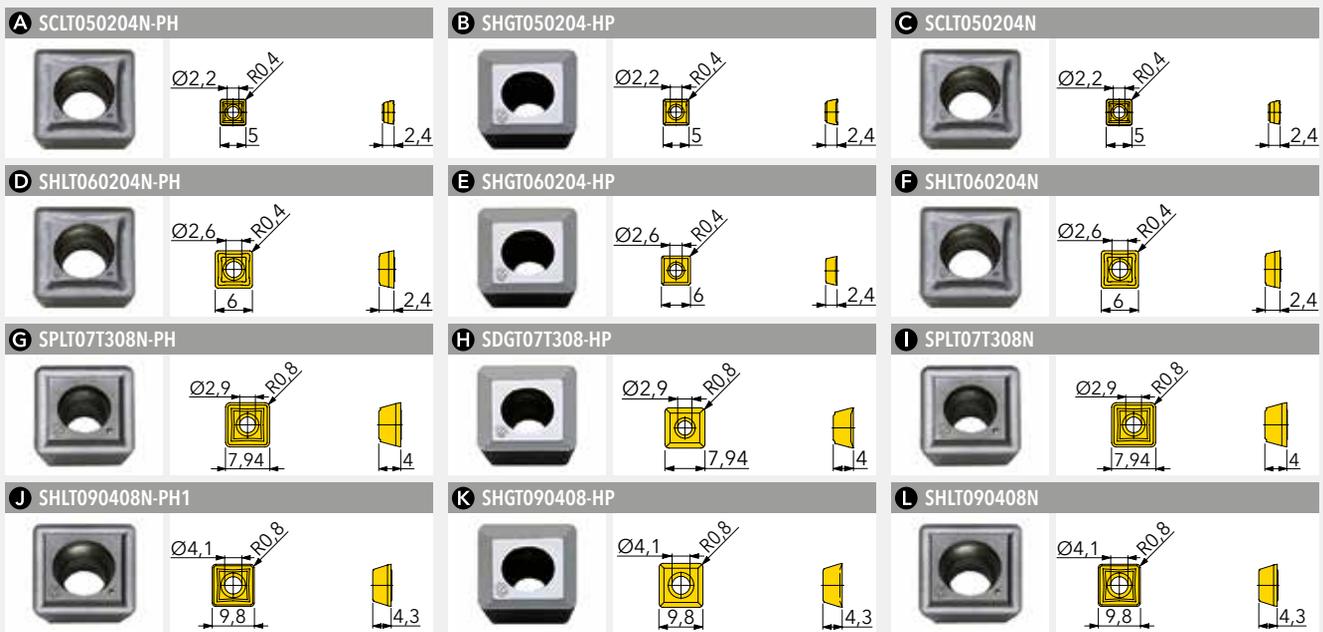
① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis
⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection ⑦ = Insert screw / Vis de serrage plaquette

QUADDRILL⁺ INDEXABLE DRILL 2D Ø13-Ø29
FORET A PLAQUETTES 2D Ø13-Ø29

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|----|----|---|------|---|--|--|
| Q0130026WWR00 | 13 | 20 | 25 | 94 | 44 | 26 | 2 | 1 | ✓ | 0,15 | ABC |
| Q0140028WWR00 | 14 | 20 | 25 | 96 | 46 | 28 | 2 | 1 | ✓ | 0,16 | ABC |
| Q0150030WWR00 | 15 | 20 | 25 | 99 | 49 | 30 | 2 | 1 | ✓ | 0,16 | ABC |
| Q0160032WXR00 | 16 | 25 | 32 | 108 | 52 | 32 | 2 | 1 | ✓ | 0,26 | DEF |
| Q0170034WXR00 | 17 | 25 | 32 | 110 | 54 | 34 | 2 | 1 | ✓ | 0,26 | DEF |
| Q0180036WXR00 | 18 | 25 | 32 | 113 | 57 | 36 | 2 | 1 | ✓ | 0,26 | DEF |
| Q0190038WXR00 | 19 | 25 | 32 | 115 | 59 | 38 | 2 | 1 | ✓ | 0,27 | DEF |
| Q0200040WXR00 | 20 | 25 | 32 | 119 | 63 | 40 | 2 | 1 | ✓ | 0,29 | DEF |
| Q0210042WXR00 | 21 | 25 | 32 | 121 | 65 | 42 | 2 | 1 | ✓ | 0,33 | DEF |
| Q0220044WXR01 | 22 | 25 | 32 | 123 | 67 | 44 | 2 | 1 | ✓ | 0,33 | GHI |
| Q0230046WXR00 | 23 | 25 | 45 | 127 | 71 | 46 | 2 | 1 | ✓ | 0,42 | GHI |
| Q0240048WXR00 | 24 | 25 | 45 | 130 | 74 | 48 | 2 | 1 | ✓ | 0,44 | GHI |
| Q0250050WXR00 | 25 | 25 | 45 | 133 | 77 | 50 | 2 | 1 | ✓ | 0,45 | GHI |
| Q0260052WXR00 | 26 | 25 | 45 | 135 | 79 | 52 | 2 | 1 | ✓ | 0,46 | GHI |
| Q0270054WXR00 | 27 | 25 | 45 | 137 | 81 | 54 | 2 | 1 | ✓ | 0,47 | GHI |
| Q0280056WXR00 | 28 | 25 | 45 | 140 | 84 | 56 | 2 | 1 | ✓ | 0,49 | JKL |
| Q0290058WYR01 | 29 | 32 | 45 | 146 | 86 | 58 | 2 | 1 | ✓ | 0,66 | JKL |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

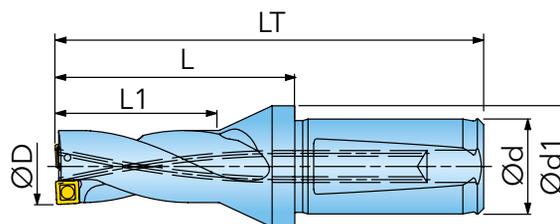


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|--------------------|---|
| Diameter Range / Diamètres | | | |
| 13 - 15 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | |
| 16 - 21 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 22 - 27 | SM25-064-00 (1,1Nm) | DS-T08S | |
| 28 - 29 | SM35-088-60 (3,0Nm) | DS-T10S | |

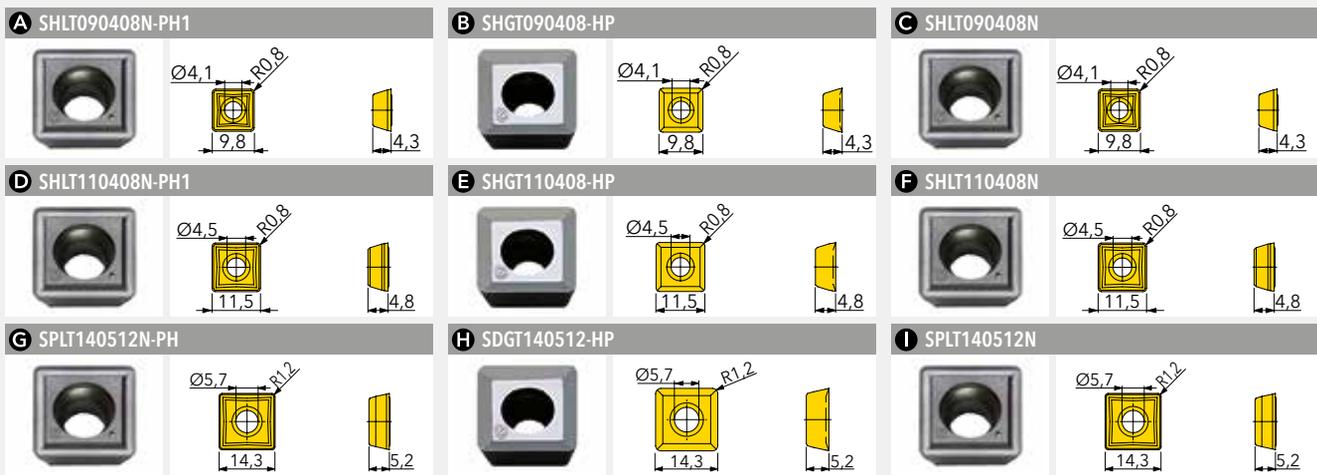
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 2D Ø30-Ø50
FORET A PLAQUETTES 2D Ø30-Ø50

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|---|--|--|
| Q0300060WYR00 | 30 | 32 | 55 | 151 | 91 | 60 | 2 | 1 | ✓ | 0,78 | ABC |
| Q0310062WYR00 | 31 | 32 | 55 | 154 | 94 | 62 | 2 | 1 | ✓ | 0,81 | ABC |
| Q0320064WYR00 | 32 | 32 | 55 | 156 | 96 | 64 | 2 | 1 | ✓ | 0,84 | ABC |
| Q0330066WYR00 | 33 | 32 | 55 | 159 | 99 | 66 | 2 | 1 | ✓ | 0,87 | ABC |
| Q0340068WYR00 | 34 | 32 | 55 | 161 | 101 | 68 | 2 | 1 | ✓ | 0,89 | DEF |
| Q0350070WYR00 | 35 | 32 | 55 | 164 | 104 | 70 | 2 | 1 | ✓ | 0,92 | DEF |
| Q0360072WYR00 | 36 | 32 | 55 | 167 | 107 | 72 | 2 | 1 | ✓ | 0,96 | DEF |
| Q0370074WYR00 | 37 | 32 | 55 | 170 | 110 | 74 | 2 | 1 | ✓ | 0,97 | DEF |
| Q0380076WYR00 | 38 | 32 | 55 | 173 | 113 | 76 | 2 | 1 | ✓ | 1,00 | DEF |
| Q0390078WYR00 | 39 | 32 | 55 | 175 | 115 | 78 | 2 | 1 | ✓ | 1,05 | DEF |
| Q0400080WYR00 | 40 | 32 | 60 | 178 | 118 | 80 | 2 | 1 | ✓ | 1,10 | DEF |
| Q0410082WZR00 | 41 | 40 | 60 | 191 | 121 | 82 | 2 | 1 | ✓ | 1,48 | DEF |
| Q0420084WZR01 | 42 | 40 | 60 | 193 | 123 | 84 | 2 | 1 | ✓ | 1,50 | GHI |
| Q0430086WZR01 | 43 | 40 | 60 | 196 | 126 | 86 | 2 | 1 | ✓ | 1,55 | GHI |
| Q0440088WZR00 | 44 | 40 | 60 | 198 | 128 | 88 | 2 | 1 | ✓ | 1,60 | GHI |
| Q0450090WZR00 | 45 | 40 | 60 | 202 | 132 | 90 | 2 | 1 | ✓ | 1,66 | GHI |
| Q0460092WZR00 | 46 | 40 | 60 | 205 | 135 | 92 | 2 | 1 | ✓ | 1,71 | GHI |
| Q0470094WZR00 | 47 | 40 | 60 | 207 | 137 | 94 | 2 | 1 | ✓ | 1,76 | GHI |
| Q0480096WZR00 | 48 | 40 | 60 | 210 | 140 | 96 | 2 | 1 | ✓ | 1,84 | GHI |
| Q0490098WZR00 | 49 | 40 | 60 | 212 | 142 | 98 | 2 | 1 | ✓ | 1,86 | GHI |
| Q0500100WZR00 | 50 | 40 | 60 | 215 | 145 | 100 | 2 | 1 | ✓ | 1,93 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

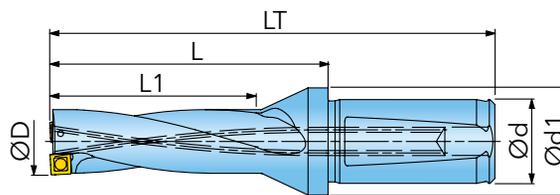


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 30 - 33 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 34 - 41 | SM40-093-20 (4,5Nm) | DS-T15S | |
| 42 - 50 | SM50-122-50 (7,5Nm) | DS-T20S | |

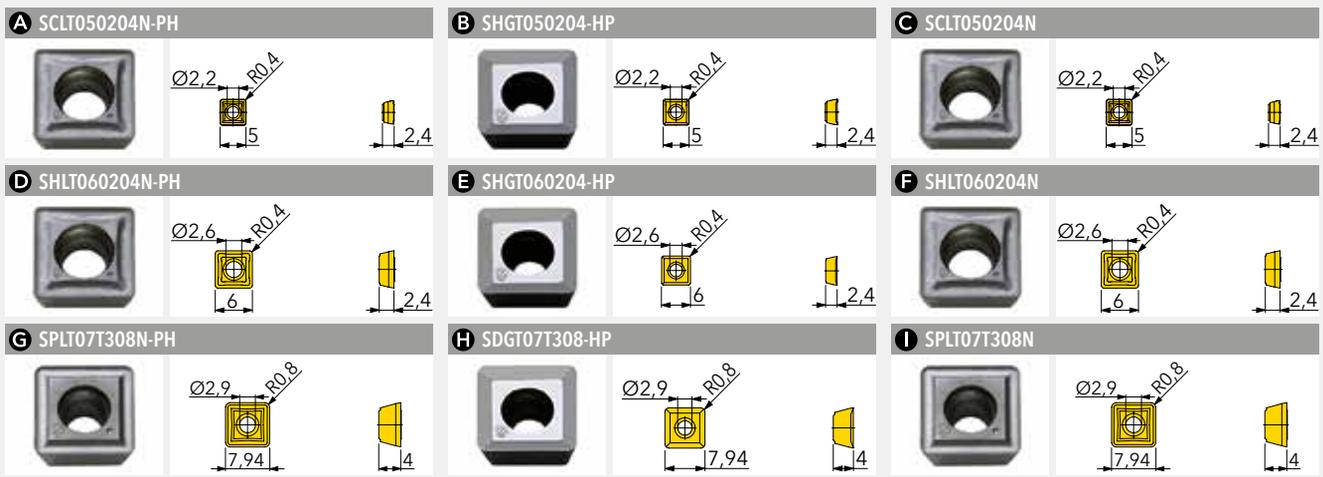
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 3D Ø12,5-Ø27,5
FORET A PLAQUETTES 3D Ø12,5-Ø27,5

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|----|---|------|---|--|--|
| Q0125038WWR00 | 12,5 | 20 | 25 | 107 | 57 | 38 | 2 | 1 | ✓ | 0,16 | ABC |
| Q0130039WWR00 | 13 | 20 | 25 | 107 | 57 | 39 | 2 | 1 | ✓ | 0,16 | ABC |
| Q0135041WWR00 | 13,5 | 20 | 25 | 110 | 60 | 41 | 2 | 1 | ✓ | 0,16 | ABC |
| Q0140042WWR00 | 14 | 20 | 25 | 110 | 60 | 42 | 2 | 1 | ✓ | 0,17 | ABC |
| Q0145044WWR00 | 14,5 | 20 | 25 | 114 | 64 | 44 | 2 | 1 | ✓ | 0,17 | ABC |
| Q0150045WWR00 | 15 | 20 | 25 | 114 | 64 | 45 | 2 | 1 | ✓ | 0,17 | ABC |
| Q0155047WXR00 | 15,5 | 25 | 32 | 124 | 68 | 47 | 2 | 1 | ✓ | 0,29 | DEF |
| Q0160048WXR00 | 16 | 25 | 32 | 124 | 68 | 48 | 2 | 1 | ✓ | 0,30 | DEF |
| Q0165050WXR00 | 16,5 | 25 | 32 | 127 | 71 | 50 | 2 | 1 | ✓ | 0,30 | DEF |
| Q0170051WXR00 | 17 | 25 | 32 | 127 | 71 | 51 | 2 | 1 | ✓ | 0,30 | DEF |
| Q0175051WXR00 | 17,5 | 25 | 32 | 131 | 75 | 53 | 2 | 1 | ✓ | 0,31 | DEF |
| Q0180054WXR00 | 18 | 25 | 32 | 131 | 75 | 54 | 2 | 1 | ✓ | 0,32 | DEF |
| Q0185055WXR00 | 18,5 | 25 | 32 | 134 | 78 | 55 | 2 | 1 | ✓ | 0,32 | DEF |
| Q0190057WXR00 | 19 | 25 | 32 | 134 | 78 | 57 | 2 | 1 | ✓ | 0,32 | DEF |
| Q0195057WXR00 | 19,5 | 25 | 32 | 139 | 83 | 59 | 2 | 1 | ✓ | 0,33 | DEF |
| Q0200060WXR00 | 20 | 25 | 32 | 139 | 83 | 60 | 2 | 1 | ✓ | 0,34 | DEF |
| Q0205061WXR00 | 20,5 | 25 | 32 | 142 | 86 | 61 | 2 | 1 | ✓ | 0,35 | DEF |
| Q0210063WXR00 | 21 | 25 | 32 | 142 | 86 | 63 | 2 | 1 | ✓ | 0,36 | DEF |
| Q0215064WXR00 | 21,5 | 25 | 32 | 145 | 89 | 64 | 2 | 1 | ✓ | 0,37 | DEF |
| Q0220066WXR01 | 22 | 25 | 32 | 145 | 89 | 66 | 2 | 1 | ✓ | 0,37 | GHI |
| Q0225067WXR00 | 22,5 | 25 | 45 | 150 | 94 | 67 | 2 | 1 | ✓ | 0,42 | GHI |
| Q0230069WXR00 | 23 | 25 | 45 | 150 | 94 | 69 | 2 | 1 | ✓ | 0,45 | GHI |
| Q0235070WXR00 | 23,5 | 25 | 45 | 154 | 98 | 70 | 2 | 1 | ✓ | 0,47 | GHI |
| Q0240072WXR00 | 24 | 25 | 45 | 154 | 98 | 72 | 2 | 1 | ✓ | 0,48 | GHI |
| Q0245074WXR00 | 24,5 | 25 | 45 | 158 | 102 | 74 | 2 | 1 | ✓ | 0,49 | GHI |
| Q0250075WXR00 | 25 | 25 | 45 | 158 | 102 | 75 | 2 | 1 | ✓ | 0,50 | GHI |
| Q0255077WXR00 | 25,5 | 25 | 45 | 161 | 105 | 78 | 2 | 1 | ✓ | 0,51 | GHI |
| Q0260078WXR00 | 26 | 25 | 45 | 161 | 105 | 78 | 2 | 1 | ✓ | 0,52 | GHI |
| Q0265079WXR00 | 26,5 | 25 | 45 | 164 | 108 | 79 | 2 | 1 | ✓ | 0,52 | GHI |
| Q0270081WXR00 | 27 | 25 | 45 | 164 | 108 | 81 | 2 | 1 | ✓ | 0,53 | GHI |
| Q0275083WXR00 | 27,5 | 25 | 45 | 168 | 112 | 84 | 2 | 1 | ✓ | 0,54 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

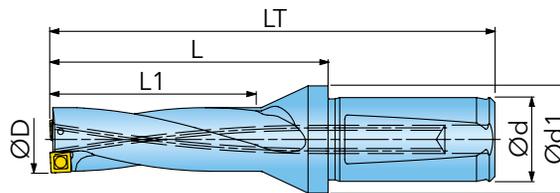


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|--------------------|---|
| Diameter Range / Diamètres | | | |
| 12,5 - 15 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | |
| 15,5 - 21,5 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 22 - 27,5 | SM25-064-00 (1,1Nm) | DS-T08S | |

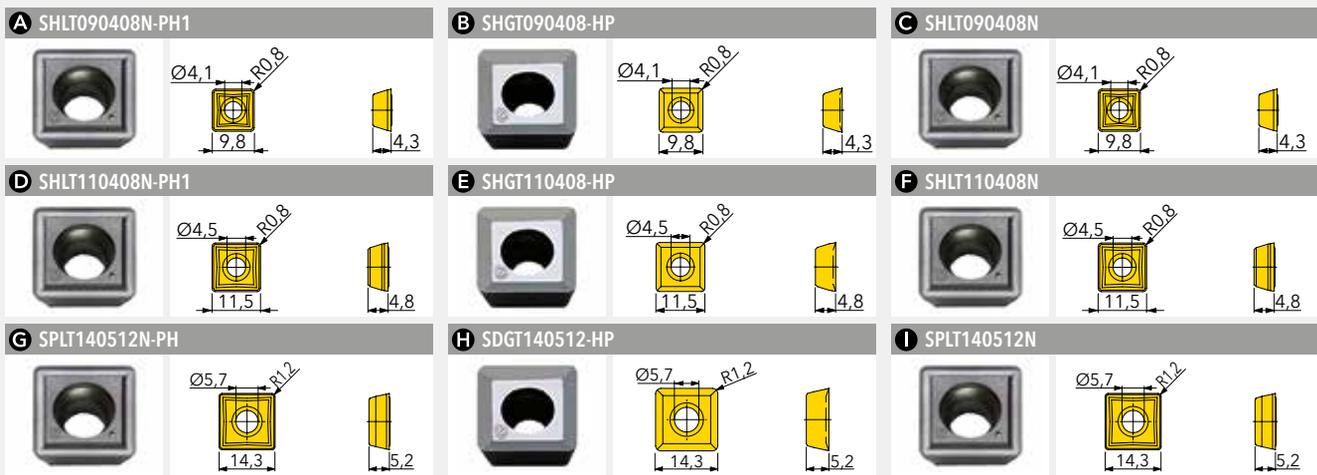
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 3D Ø28-Ø50,5
FORET A PLAQUETTES 3D Ø28-Ø50,5

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  IK |  kg | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|-----|-----|---|------|--|--|--|
| Q0280084WXR00 | 28 | 25 | 45 | 168 | 112 | 84 | 2 | 1 | ✓ | 0,56 | ABC |
| Q0285085WYR01 | 28,5 | 32 | 45 | 175 | 115 | 85 | 2 | 1 | ✓ | 0,72 | ABC |
| Q0290087WYR01 | 29 | 32 | 45 | 175 | 115 | 87 | 2 | 1 | ✓ | 0,75 | ABC |
| Q0295088WYR00 | 29,5 | 32 | 55 | 181 | 121 | 88 | 2 | 1 | ✓ | 0,84 | ABC |
| Q0300090WYR00 | 30 | 32 | 55 | 181 | 121 | 90 | 2 | 1 | ✓ | 0,87 | ABC |
| Q0310093WYR00 | 31 | 32 | 55 | 185 | 125 | 93 | 2 | 1 | ✓ | 0,90 | ABC |
| Q0320096WYR00 | 32 | 32 | 55 | 188 | 128 | 96 | 2 | 1 | ✓ | 0,93 | ABC |
| Q0330099WYR00 | 33 | 32 | 55 | 192 | 132 | 99 | 2 | 1 | ✓ | 0,97 | ABC |
| Q0340102WYR00 | 34 | 32 | 55 | 195 | 135 | 102 | 2 | 1 | ✓ | 1,01 | DEF |
| Q0345104WYR00 | 34,5 | 32 | 55 | 199 | 139 | 104 | 2 | 1 | ✓ | 1,04 | DEF |
| Q0350105WYR00 | 35 | 32 | 55 | 199 | 139 | 105 | 2 | 1 | ✓ | 1,05 | DEF |
| Q0360108WYR00 | 36 | 32 | 55 | 203 | 143 | 108 | 2 | 1 | ✓ | 1,10 | DEF |
| Q0370111WYR00 | 37 | 32 | 55 | 207 | 147 | 111 | 2 | 1 | ✓ | 1,11 | DEF |
| Q0375113WYR00 | 37,5 | 32 | 55 | 211 | 151 | 113 | 2 | 1 | ✓ | 1,14 | DEF |
| Q0380114WYR00 | 38 | 32 | 55 | 211 | 151 | 114 | 2 | 1 | ✓ | 1,17 | DEF |
| Q0390117WYR00 | 39 | 32 | 55 | 214 | 154 | 117 | 2 | 1 | ✓ | 1,23 | DEF |
| Q0400120WYR00 | 40 | 32 | 60 | 218 | 158 | 120 | 2 | 1 | ✓ | 1,31 | DEF |
| Q0405122WYR00 | 40,5 | 32 | 60 | 222 | 162 | 122 | 2 | 1 | ✓ | 1,39 | DEF |
| Q0410123WZR00 | 41 | 40 | 60 | 232 | 162 | 123 | 2 | 1 | ✓ | 1,48 | DEF |
| Q0420126WZR01 | 42 | 40 | 60 | 235 | 165 | 126 | 2 | 1 | ✓ | 1,62 | GHI |
| Q0430129WZR01 | 43 | 40 | 60 | 239 | 169 | 129 | 2 | 1 | ✓ | 1,78 | GHI |
| Q0440132WZR00 | 44 | 40 | 60 | 242 | 172 | 132 | 2 | 1 | ✓ | 1,83 | GHI |
| Q0450135WZR00 | 45 | 40 | 60 | 247 | 177 | 135 | 2 | 1 | ✓ | 1,92 | GHI |
| Q0460138WZR00 | 46 | 40 | 60 | 251 | 181 | 138 | 2 | 1 | ✓ | 1,99 | GHI |
| Q0465140WZR00 | 46,5 | 40 | 60 | 254 | 184 | 140 | 2 | 1 | ✓ | 1,96 | GHI |
| Q0470141WZR00 | 47 | 40 | 60 | 254 | 184 | 141 | 2 | 1 | ✓ | 2,05 | GHI |
| Q0480144WZR00 | 48 | 40 | 60 | 258 | 188 | 144 | 2 | 1 | ✓ | 2,11 | GHI |
| Q0490147WZR00 | 49 | 40 | 60 | 261 | 191 | 147 | 2 | 1 | ✓ | 2,16 | GHI |
| Q0500150WZR00 | 50 | 40 | 60 | 265 | 195 | 150 | 2 | 1 | ✓ | 2,26 | GHI |
| Q0505152WZR00 | 50,5 | 40 | 60 | 268 | 198 | 152 | 2 | 1 | ✓ | 2,31 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

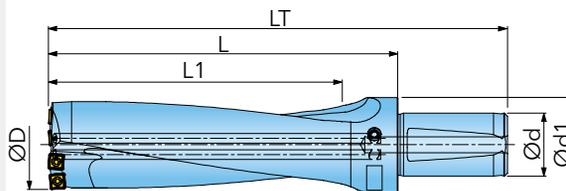


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 28 - 33 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 34 - 41 | SM40-093-20 (4,5Nm) | DS-T15S | |
| 42 - 50,5 | SM50-122-50 (7,5Nm) | DS-T20S | |

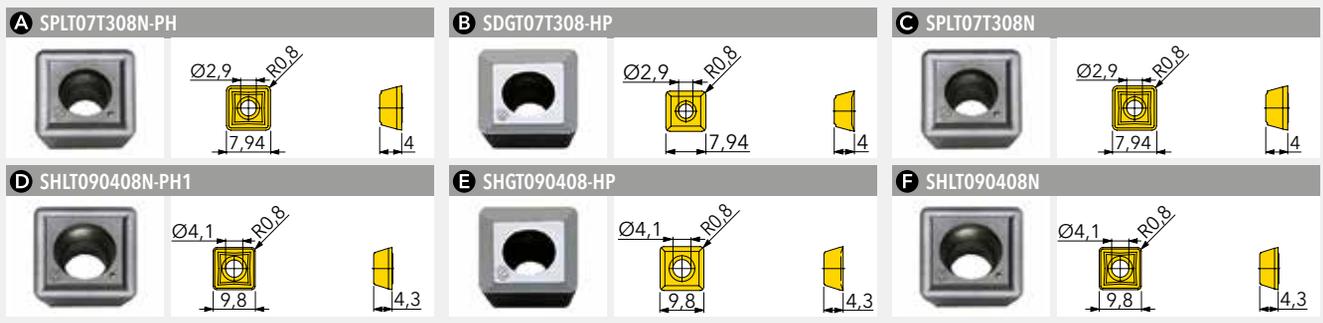
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 3D Ø51 - Ø60
FORET A PLAQUETTES 3D Ø51 - Ø60

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff | IK | kg | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|----|------|--|
| Q0510153WZR00 | 51 | 40 | 75 | 269 | 199 | 153 | 4 | 1 | ✓ | 2,25 | A B C |
| Q0520156WZR00 | 52 | 40 | 75 | 273 | 203 | 156 | 4 | 1 | ✓ | 2,35 | A B C |
| Q0530159WZR00 | 53 | 40 | 75 | 276 | 206 | 159 | 4 | 1 | ✓ | 2,45 | A B C |
| Q0540162WZR00 | 54 | 40 | 75 | 278 | 208 | 162 | 4 | 1 | ✓ | 2,55 | A B C |
| Q0550165WZR00 | 55 | 40 | 75 | 281 | 211 | 165 | 4 | 1 | ✓ | 2,65 | A B C |
| Q0560168WZR00 | 56 | 40 | 75 | 285 | 215 | 168 | 4 | 1 | ✓ | 2,75 | D E F |
| Q0570171WZR00 | 57 | 40 | 75 | 290 | 220 | 171 | 4 | 1 | ✓ | 2,85 | D E F |
| Q0580174WZR00 | 58 | 40 | 75 | 294 | 224 | 174 | 4 | 1 | ✓ | 2,95 | D E F |
| Q0590177WZR00 | 59 | 40 | 75 | 297 | 227 | 177 | 4 | 1 | ✓ | 3,07 | D E F |
| Q0600180WZR00 | 60 | 40 | 75 | 301 | 231 | 180 | 4 | 1 | ✓ | 3,15 | D E F |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

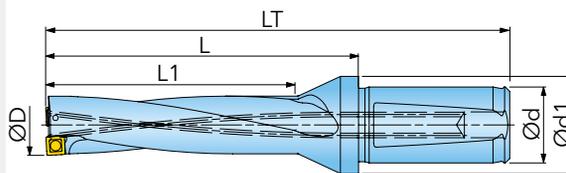


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 51 - 55 | SM25-064-00 (1,1Nm) | DS-T08S | |
| 56 - 60 | SM35-088-60 (3,0Nm) | DS-T10S | |

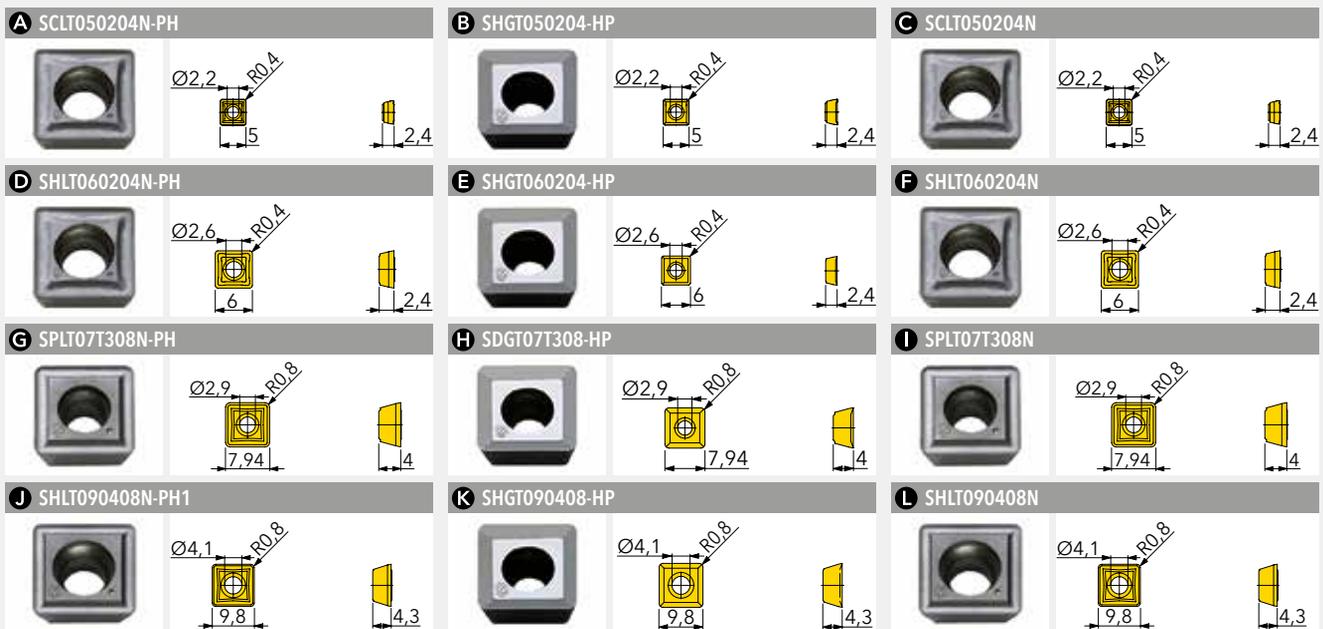
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 4D Ø13-Ø29
FORET A PLAQUETTES 4D Ø13-Ø29

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|---|--|--|
| Q0130052WWR00 | 13 | 20 | 25 | 120 | 70 | 52 | 2 | 1 | ✓ | 0,17 | ABC |
| Q0140056WWR00 | 14 | 20 | 25 | 124 | 74 | 56 | 2 | 1 | ✓ | 0,18 | ABC |
| Q0150060WWR00 | 15 | 20 | 25 | 129 | 79 | 60 | 2 | 1 | ✓ | 0,18 | ABC |
| Q0160064WXR00 | 16 | 25 | 32 | 140 | 84 | 64 | 2 | 1 | ✓ | 0,28 | DEF |
| Q0170068WXR00 | 17 | 25 | 32 | 144 | 88 | 68 | 2 | 1 | ✓ | 0,32 | DEF |
| Q0180072WXR00 | 18 | 25 | 32 | 149 | 93 | 72 | 2 | 1 | ✓ | 0,34 | DEF |
| Q0190076WXR00 | 19 | 25 | 32 | 153 | 97 | 76 | 2 | 1 | ✓ | 0,35 | DEF |
| Q0200080WXR00 | 20 | 25 | 32 | 159 | 103 | 80 | 2 | 1 | ✓ | 0,37 | DEF |
| Q0210084WXR00 | 21 | 25 | 32 | 163 | 107 | 84 | 2 | 1 | ✓ | 0,39 | DEF |
| Q0220088WXR01 | 22 | 25 | 32 | 167 | 111 | 88 | 2 | 1 | ✓ | 0,40 | GHI |
| Q0230092WXR00 | 23 | 25 | 45 | 173 | 117 | 92 | 2 | 1 | ✓ | 0,48 | GHI |
| Q0240096WXR00 | 24 | 25 | 45 | 178 | 122 | 96 | 2 | 1 | ✓ | 0,52 | GHI |
| Q0250100WXR00 | 25 | 25 | 45 | 183 | 127 | 100 | 2 | 1 | ✓ | 0,54 | GHI |
| Q0260104WXR00 | 26 | 25 | 45 | 187 | 131 | 104 | 2 | 1 | ✓ | 0,57 | GHI |
| Q0270108WXR00 | 27 | 25 | 45 | 191 | 135 | 108 | 2 | 1 | ✓ | 0,59 | GHI |
| Q0280112WXR00 | 28 | 25 | 45 | 196 | 140 | 112 | 2 | 1 | ✓ | 0,62 | JKL |
| Q0290116WYR01 | 29 | 32 | 45 | 204 | 144 | 116 | 2 | 1 | ✓ | 0,80 | JKL |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R0,4 | | | | ● | | | | |
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R0,4 | | | | ● | | | | |
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R0,8 | | | | ● | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R0,8 | | | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

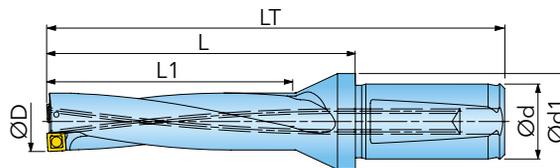


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|--------------------|---|
| Diameter Range / Diamètres | | | |
| 13 - 15 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | |
| 16 - 21 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 22 - 27 | SM25-064-00 (1,1Nm) | DS-T08S | |
| 28 - 29 | SM35-088-60 (3,0Nm) | DS-T10S | |

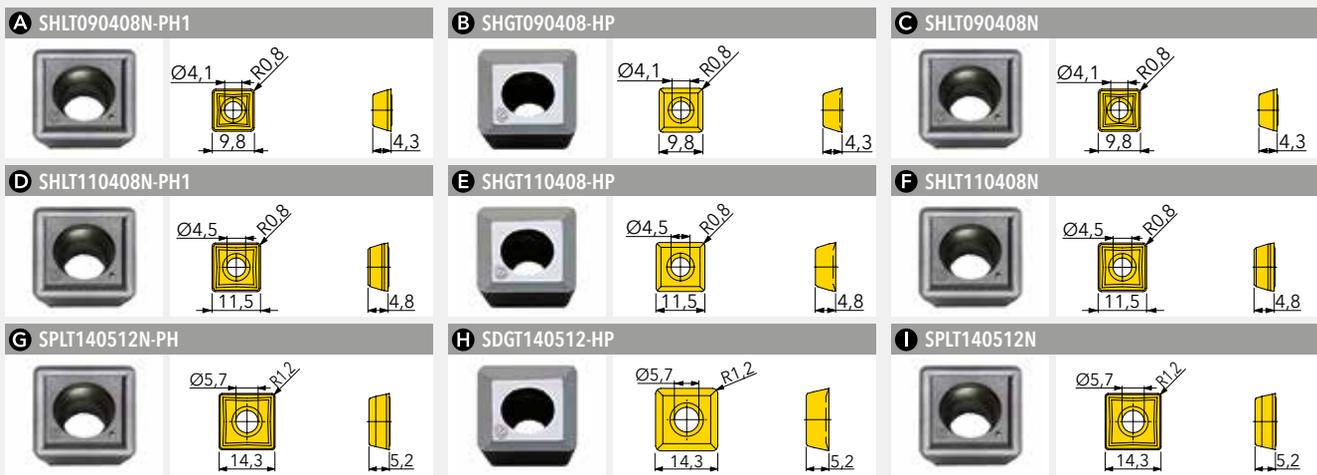
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE 4D Ø30-Ø50
FORET A PLAQUETTES 4D Ø30-Ø50

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  |  kg | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|---|--|--|
| Q0300120WYR00 | 30 | 32 | 55 | 211 | 151 | 120 | 2 | 1 | ✓ | 0,94 | ABC |
| Q0310124WYR00 | 31 | 32 | 55 | 216 | 156 | 124 | 2 | 1 | ✓ | 0,97 | ABC |
| Q0320128WYR00 | 32 | 32 | 55 | 220 | 160 | 128 | 2 | 1 | ✓ | 1,04 | ABC |
| Q0330132WYR00 | 33 | 32 | 55 | 225 | 165 | 132 | 2 | 1 | ✓ | 1,09 | ABC |
| Q0340136WYR00 | 34 | 32 | 55 | 229 | 169 | 136 | 2 | 1 | ✓ | 1,13 | DEF |
| Q0350140WYR00 | 35 | 32 | 55 | 234 | 174 | 140 | 2 | 1 | ✓ | 1,17 | DEF |
| Q0360144WYR00 | 36 | 32 | 55 | 239 | 179 | 144 | 2 | 1 | ✓ | 1,23 | DEF |
| Q0370148WYR00 | 37 | 32 | 55 | 244 | 184 | 148 | 2 | 1 | ✓ | 1,29 | DEF |
| Q0380152WYR00 | 38 | 32 | 55 | 249 | 189 | 152 | 2 | 1 | ✓ | 1,34 | DEF |
| Q0390156WYR00 | 39 | 32 | 55 | 253 | 193 | 156 | 2 | 1 | ✓ | 1,41 | DEF |
| Q0400160WYR00 | 40 | 32 | 60 | 258 | 198 | 160 | 2 | 1 | ✓ | 1,50 | DEF |
| Q0410164WZR00 | 41 | 40 | 60 | 273 | 203 | 164 | 2 | 1 | ✓ | 1,86 | DEF |
| Q0420168WZR01 | 42 | 40 | 60 | 277 | 207 | 168 | 2 | 1 | ✓ | 1,94 | GHI |
| Q0430172WZR01 | 43 | 40 | 60 | 282 | 212 | 172 | 2 | 1 | ✓ | 2,02 | GHI |
| Q0440176WZR00 | 44 | 40 | 60 | 286 | 216 | 176 | 2 | 1 | ✓ | 2,10 | GHI |
| Q0450180WZR00 | 45 | 40 | 60 | 292 | 222 | 180 | 2 | 1 | ✓ | 2,19 | GHI |
| Q0460184WZR00 | 46 | 40 | 60 | 297 | 227 | 184 | 2 | 1 | ✓ | 2,30 | GHI |
| Q0470188WZR00 | 47 | 40 | 60 | 301 | 231 | 188 | 2 | 1 | ✓ | 2,37 | GHI |
| Q0480192WZR00 | 48 | 40 | 60 | 306 | 236 | 192 | 2 | 1 | ✓ | 2,47 | GHI |
| Q0490196WZR00 | 49 | 40 | 60 | 310 | 240 | 196 | 2 | 1 | ✓ | 2,59 | GHI |
| Q0500200WZR00 | 50 | 40 | 60 | 315 | 245 | 200 | 2 | 1 | ✓ | 2,64 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

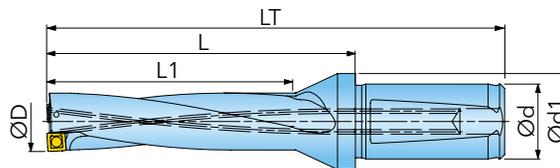


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 30 - 33 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 34 - 41 | SM40-093-20 (4,5Nm) | DS-T15S | |
| 42 - 50 | SM50-122-50 (7,5Nm) | DS-T20S | |

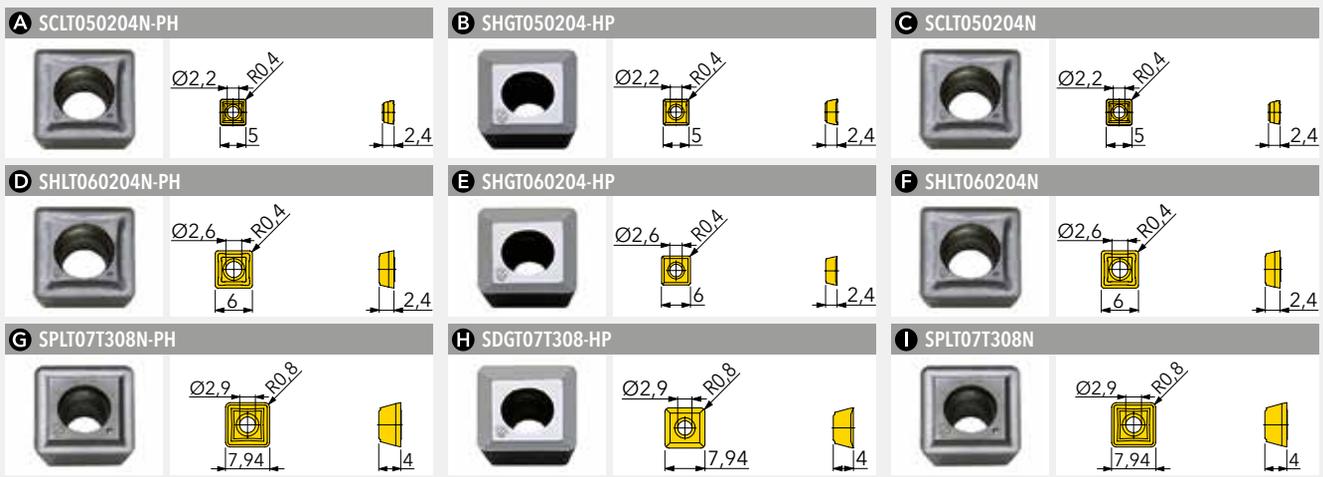
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 5D Ø13 - Ø27
FORET A PLAQUETTES 5D Ø13 - Ø27

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  (K) |  (kg) | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|---|--|--|
| Q0130065WWR00 | 13 | 20 | 25 | 133 | 83 | 65 | 2 | 1 | ✓ | 0,26 | ABC |
| Q0140070WWR00 | 14 | 20 | 25 | 138 | 88 | 70 | 2 | 1 | ✓ | 0,28 | ABC |
| Q0150075WWR00 | 15 | 20 | 25 | 144 | 94 | 75 | 2 | 1 | ✓ | 0,30 | ABC |
| Q0160080WXR00 | 16 | 25 | 32 | 156 | 100 | 80 | 2 | 1 | ✓ | 0,32 | DEF |
| Q0170085WXR00 | 17 | 25 | 32 | 161 | 105 | 85 | 2 | 1 | ✓ | 0,34 | DEF |
| Q0180090WXR00 | 18 | 25 | 32 | 167 | 111 | 90 | 2 | 1 | ✓ | 0,36 | DEF |
| Q0190095WXR00 | 19 | 25 | 32 | 172 | 116 | 95 | 2 | 1 | ✓ | 0,38 | DEF |
| Q0200100WXR00 | 20 | 25 | 32 | 179 | 123 | 100 | 2 | 1 | ✓ | 0,40 | DEF |
| Q0210105WXR00 | 21 | 25 | 32 | 184 | 128 | 105 | 2 | 1 | ✓ | 0,42 | DEF |
| Q0220110WXR00 | 22 | 25 | 32 | 189 | 133 | 110 | 2 | 1 | ✓ | 0,44 | GHI |
| Q0230115WXR00 | 23 | 25 | 45 | 196 | 140 | 115 | 2 | 1 | ✓ | 0,51 | GHI |
| Q0240120WXR00 | 24 | 25 | 45 | 202 | 146 | 120 | 2 | 1 | ✓ | 0,56 | GHI |
| Q0250125WXR00 | 25 | 25 | 45 | 208 | 152 | 125 | 2 | 1 | ✓ | 0,59 | GHI |
| Q0260130WXR00 | 26 | 25 | 45 | 213 | 157 | 130 | 2 | 1 | ✓ | 0,62 | GHI |
| Q0270135WXR00 | 27 | 25 | 45 | 218 | 162 | 135 | 2 | 1 | ✓ | 0,65 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | | |
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

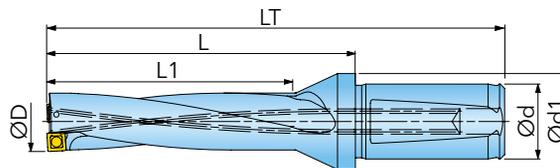


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|--------------------|---|
| Diameter Range / Diamètres | | | |
| 13 - 15 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) | |
| 16 - 21 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 22 - 27 | SM25-064-00 (1,1Nm) | DS-T08S | |

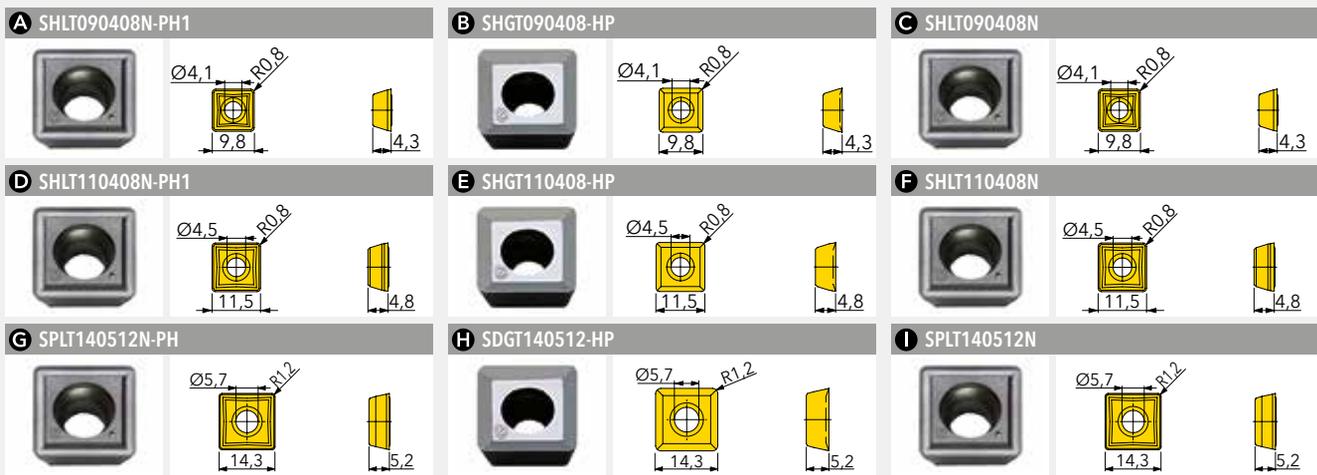
① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ INDEXABLE DRILL 5D Ø28 - Ø50
FORET A PLAQUETTES 5D Ø28 - Ø50

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | d | d1 | LT | L | L1 | Z | Zeff |  (K) |  (kg) | Related Insert Plaquette préconisée |
|----------------------------------|----|----|----|-----|-----|-----|---|------|---|--|--|
| Q0280140WXR00 | 28 | 25 | 45 | 224 | 168 | 140 | 2 | 1 | ✓ | 0,68 | ABC |
| Q0290145WYR00 | 29 | 32 | 45 | 233 | 173 | 145 | 2 | 1 | ✓ | 0,86 | ABC |
| Q0300150WYR00 | 30 | 32 | 55 | 241 | 181 | 150 | 2 | 1 | ✓ | 1,04 | ABC |
| Q0310155WYR00 | 31 | 32 | 55 | 247 | 187 | 155 | 2 | 1 | ✓ | 1,08 | ABC |
| Q0320160WYR00 | 32 | 32 | 55 | 252 | 192 | 160 | 2 | 1 | ✓ | 1,14 | ABC |
| Q0330165WYR00 | 33 | 32 | 55 | 258 | 198 | 165 | 2 | 1 | ✓ | 1,20 | ABC |
| Q0340170WYR00 | 34 | 32 | 55 | 263 | 203 | 170 | 2 | 1 | ✓ | 1,26 | DEF |
| Q0350175WYR00 | 35 | 32 | 55 | 269 | 209 | 175 | 2 | 1 | ✓ | 1,29 | DEF |
| Q0360180WYR00 | 36 | 32 | 55 | 275 | 215 | 180 | 2 | 1 | ✓ | 1,39 | DEF |
| Q0370185WYR00 | 37 | 32 | 55 | 281 | 221 | 185 | 2 | 1 | ✓ | 1,40 | DEF |
| Q0380190WYR00 | 38 | 32 | 55 | 287 | 227 | 190 | 2 | 1 | ✓ | 1,50 | DEF |
| Q0390195WYR00 | 39 | 32 | 55 | 292 | 232 | 195 | 2 | 1 | ✓ | 1,56 | DEF |
| Q0400200WYR00 | 40 | 32 | 60 | 298 | 238 | 200 | 2 | 1 | ✓ | 1,68 | DEF |
| Q0410205WZR00 | 41 | 40 | 60 | 314 | 244 | 205 | 2 | 1 | ✓ | 2,08 | DEF |
| Q0500250WQR00 | 50 | 50 | 75 | 377 | 297 | 250 | 2 | 1 | ✓ | 3,81 | GHI |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

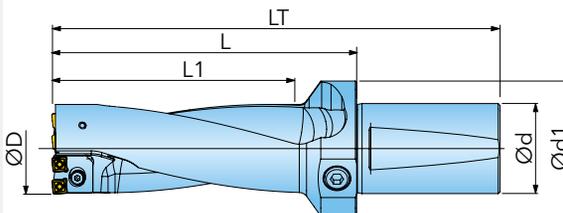


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 28 - 33 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 34 - 41 | SM40-093-20 (4,5Nm) | DS-T15S | |
| 50 | SM50-122-50 (7,5Nm) | DS-T20S | |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

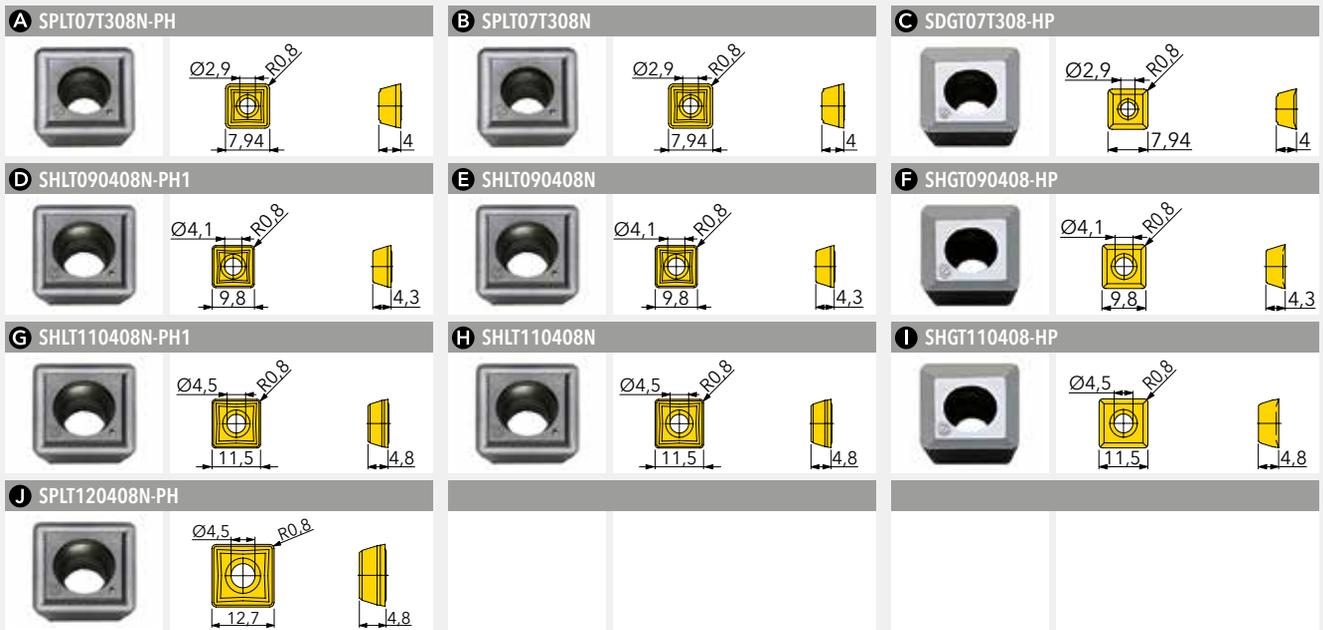
QUADDRILL⁺ CARTRIDGE INDEXABLE DRILL 2,5D Ø51 - Ø80
FORET A CARTOUCHES 2,5D Ø51 - Ø80

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Zeff | Setting Plate | | | Related Insert Plaquette préconisée |
|----------------------------------|----|--------|--------|----|----|-----|-----|-----|---|------|------------------|---|------|--|
| Q0510133WQR01 | 51 | 51 | 53 | 50 | 64 | 250 | 170 | 133 | 4 | 1 | - | ✓ | 2,89 | A B C |
| Q0510133WQR01 | 52 | 51 | 53 | 50 | 64 | 250 | 170 | 133 | 4 | 1 | PA-5108 | ✓ | 2,89 | A B C |
| Q0510133WQR01 | 53 | 51 | 53 | 50 | 64 | 250 | 170 | 133 | 4 | 1 | PA-5109 | ✓ | 2,89 | A B C |
| Q0540140WQR01 | 54 | 54 | 56 | 50 | 64 | 260 | 180 | 140 | 4 | 1 | - | ✓ | 3,20 | A B C |
| Q0540140WQR01 | 55 | 54 | 56 | 50 | 64 | 260 | 180 | 140 | 4 | 1 | PA-5108 | ✓ | 3,20 | A B C |
| Q0540140WQR01 | 56 | 54 | 56 | 50 | 64 | 260 | 180 | 140 | 4 | 1 | PA-5109 | ✓ | 3,20 | A B C |
| Q0570155WQR01 | 57 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | - | ✓ | 3,51 | D E F |
| Q0570155WQR01 | 58 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | PA-5110 | ✓ | 3,51 | D E F |
| Q0570155WQR01 | 59 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | PA-5111 | ✓ | 3,51 | D E F |
| Q0570155WQR01 | 60 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | PA-5112 | ✓ | 3,51 | D E F |
| Q0570155WQR01 | 61 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | PA-5113 | ✓ | 3,51 | D E F |
| Q0570155WQR01 | 62 | 57 | 62 | 50 | 64 | 281 | 201 | 155 | 4 | 1 | PA-5114 | ✓ | 3,51 | D E F |
| Q0630165WQR01 | 63 | 63 | 66 | 50 | 69 | 295 | 215 | 165 | 4 | 1 | - | ✓ | 4,17 | D E F |
| Q0630165WQR01 | 64 | 63 | 66 | 50 | 69 | 295 | 215 | 165 | 4 | 1 | PA-5110 | ✓ | 4,17 | D E F |
| Q0630165WQR01 | 65 | 63 | 66 | 50 | 69 | 295 | 215 | 165 | 4 | 1 | PA-5111 | ✓ | 4,17 | D E F |
| Q0630165WQR01 | 66 | 63 | 66 | 50 | 69 | 295 | 215 | 165 | 4 | 1 | PA-5112 | ✓ | 4,17 | D E F |
| Q0670183WQR01 | 67 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | - | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 68 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5115 | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 69 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5116 | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 70 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5117 | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 71 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5118 | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 72 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5119 | ✓ | 4,90 | G H I |
| Q0670183WQR01 | 73 | 67 | 73 | 50 | 69 | 320 | 240 | 183 | 4 | 1 | PA-5120 | ✓ | 4,90 | G H I |
| Q0740200WQR00 | 74 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | - | ✓ | 5,87 | J |
| Q0740200WQR00 | 75 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5115 | ✓ | 5,87 | J |
| Q0740200WQR00 | 76 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5116 | ✓ | 5,87 | J |
| Q0740200WQR00 | 77 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5117 | ✓ | 5,87 | J |
| Q0740200WQR00 | 78 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5118 | ✓ | 5,87 | J |
| Q0740200WQR00 | 79 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5119 | ✓ | 5,87 | J |
| Q0740200WQR00 | 80 | 74 | 80 | 50 | 74 | 330 | 250 | 200 | 4 | 1 | PA-5120 | ✓ | 5,87 | J |

Included in delivery: body, cartridges and setting plates / La livraison inclue: corps, cartouches et cales d'ajustement



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SPLT120408N-PH | 0,08/0,28 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



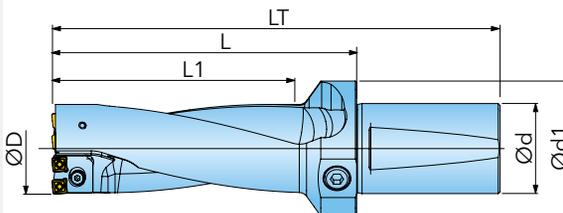
Diameter Range / Diamètres

| | | | | | | |
|----------------|-----------|-----------|---------------------|---------|----------------------|-----------|
| 51 - 53 | 55E212R01 | 55E192R01 | SM25-064-00 (1,1Nm) | DS-T08S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 |
| 54 - 56 | 55E223R01 | 55E213R01 | SM25-064-00 (1,1Nm) | DS-T08S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 |
| 57 - 62 | 55F243R02 | 55F233R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 |
| 63 - 66 | 55F263R01 | 55F243R03 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 |
| 67 - 73 | 55G294R01 | 55G264R01 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6x1.0x20 | MW 6.4X12 |
| 74 - 80 | 55H314R00 | 55H294R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6x1.0x20 | MW 6.4X12 |

① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis
⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection

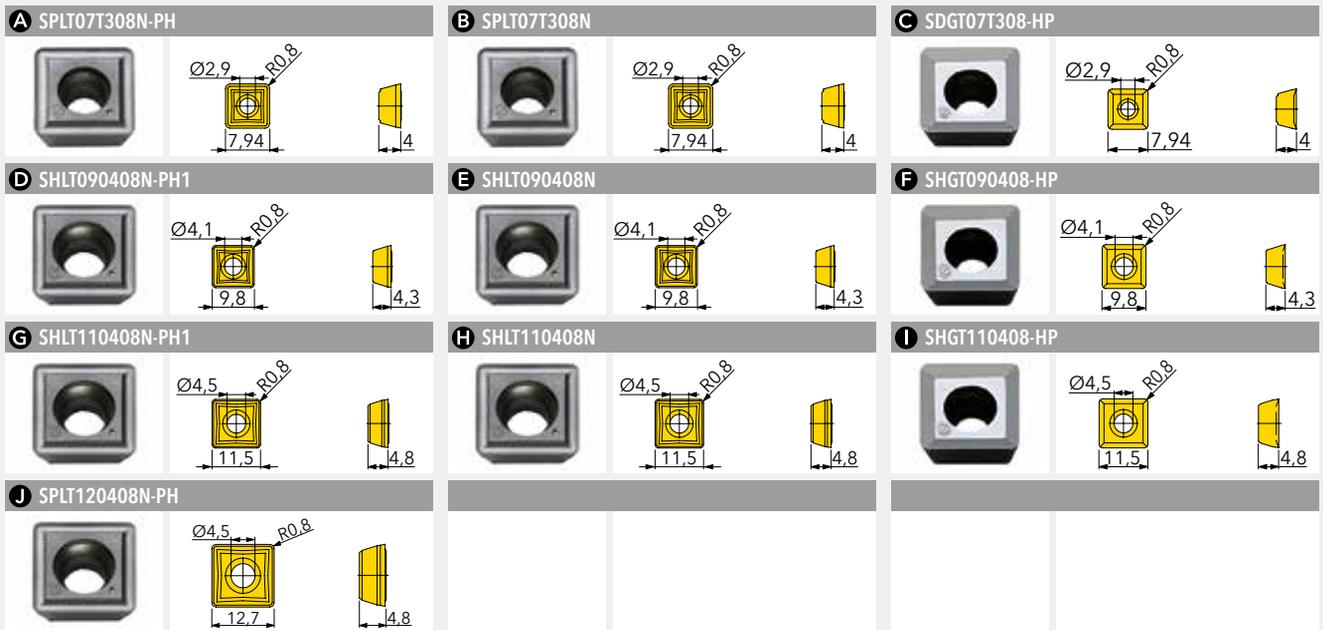
QUADDRILL⁺ CARTRIDGE INDEXABLE DRILL 3,5D Ø51 - Ø80
FORET A CARTOUCHES 3,5D Ø51 - Ø80

ADAPTION ACC. TO DIN 1835 E
 ATTACHEMENT COMPATIBLE DIN 1835 E



| Designation Réf. de l'article | D | D min. | D max. | d | d1 | LT | L | L1 | Z | Zeff | Setting Plate | | | Related Insert Plaquette préconisée |
|----------------------------------|----|--------|--------|----|----|-----|-----|-----|---|------|------------------|---|------|--|
| Q0510186WQR00 | 51 | 51 | 53 | 50 | 64 | 303 | 223 | 186 | 4 | 1 | - | ✓ | 3,66 | A B C |
| Q0510186WQR00 | 52 | 51 | 53 | 50 | 64 | 303 | 223 | 186 | 4 | 1 | PA-5108 | ✓ | 3,66 | A B C |
| Q0510186WQR00 | 53 | 51 | 53 | 50 | 64 | 303 | 223 | 186 | 4 | 1 | PA-5109 | ✓ | 3,66 | A B C |
| Q0540196WQR00 | 54 | 54 | 56 | 50 | 64 | 316 | 236 | 196 | 4 | 1 | - | ✓ | 3,98 | A B C |
| Q0540196WQR00 | 55 | 54 | 56 | 50 | 64 | 316 | 236 | 196 | 4 | 1 | PA-5108 | ✓ | 3,98 | A B C |
| Q0540196WQR00 | 56 | 54 | 56 | 50 | 64 | 316 | 236 | 196 | 4 | 1 | PA-5109 | ✓ | 3,98 | A B C |
| Q0570217WQR00 | 57 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | - | ✓ | 4,28 | D E F |
| Q0570217WQR00 | 58 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | PA-5110 | ✓ | 4,28 | D E F |
| Q0570217WQR00 | 59 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | PA-5111 | ✓ | 4,28 | D E F |
| Q0570217WQR00 | 60 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | PA-5112 | ✓ | 4,28 | D E F |
| Q0570217WQR00 | 61 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | PA-5113 | ✓ | 4,28 | D E F |
| Q0570217WQR00 | 62 | 57 | 62 | 50 | 64 | 343 | 263 | 217 | 4 | 1 | PA-5114 | ✓ | 4,28 | D E F |
| Q0630231WQR00 | 63 | 63 | 66 | 50 | 69 | 361 | 281 | 231 | 4 | 1 | - | ✓ | 5,60 | D E F |
| Q0630231WQR00 | 64 | 63 | 66 | 50 | 69 | 361 | 281 | 231 | 4 | 1 | PA-5110 | ✓ | 5,60 | D E F |
| Q0630231WQR00 | 65 | 63 | 66 | 50 | 69 | 361 | 281 | 231 | 4 | 1 | PA-5111 | ✓ | 5,60 | D E F |
| Q0630231WQR00 | 66 | 63 | 66 | 50 | 69 | 361 | 281 | 231 | 4 | 1 | PA-5112 | ✓ | 5,60 | D E F |
| Q0670256WQR00 | 67 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | - | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 68 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5115 | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 69 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5116 | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 70 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5117 | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 71 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5118 | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 72 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5119 | ✓ | 6,40 | G H I |
| Q0670256WQR00 | 73 | 67 | 73 | 50 | 69 | 393 | 313 | 256 | 4 | 1 | PA-5120 | ✓ | 6,40 | G H I |
| Q0740280WQR00 | 74 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | - | ✓ | 7,66 | J |
| Q0740280WQR00 | 75 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5115 | ✓ | 7,66 | J |
| Q0740280WQR00 | 76 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5116 | ✓ | 7,66 | J |
| Q0740280WQR00 | 77 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5117 | ✓ | 7,66 | J |
| Q0740280WQR00 | 78 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5118 | ✓ | 7,66 | J |
| Q0740280WQR00 | 79 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5119 | ✓ | 7,66 | J |
| Q0740280WQR00 | 80 | 74 | 80 | 50 | 74 | 410 | 330 | 280 | 4 | 1 | PA-5120 | ✓ | 7,66 | J |

Included in delivery: body, cartridges and setting plates / La livraison inclue: corps, cartouches et cales d'ajustement



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|--|
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | | |
| SPLT120408N-PH | 0,08/0,28 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



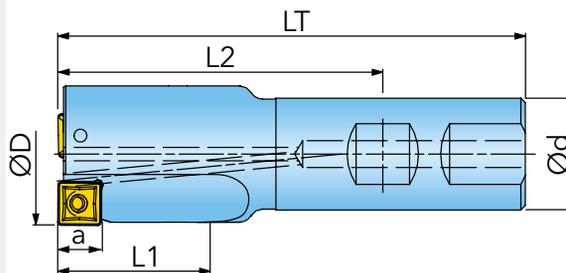
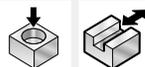
Diameter Range / Diamètres

| | | | | | | |
|----------------|-----------|-----------|---------------------|---------|----------------------|-----------|
| 51 - 53 | 55E212R01 | 55E192R01 | SM25-064-00 (1,1Nm) | DS-T08S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 |
| 54 - 56 | 55E223R01 | 55E213R01 | SM25-064-00 (1,1Nm) | DS-T08S | SH M4X0.7X16 (3,5Nm) | MW 4.3X8 |
| 57 - 62 | 55F243R02 | 55F233R01 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 |
| 63 - 66 | 55F263R01 | 55F243R03 | SM35-088-60 (3,0Nm) | DS-T10S | SH M5X0.8X16 (6,5Nm) | MW 5.5X10 |
| 67 - 73 | 55G294R01 | 55G264R01 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6x1.0x20 | MW 6.4X12 |
| 74 - 80 | 55H314R00 | 55H294R00 | SM40-093-20 (4,5Nm) | DS-T15S | SH M6x1.0x20 | MW 6.4X12 |

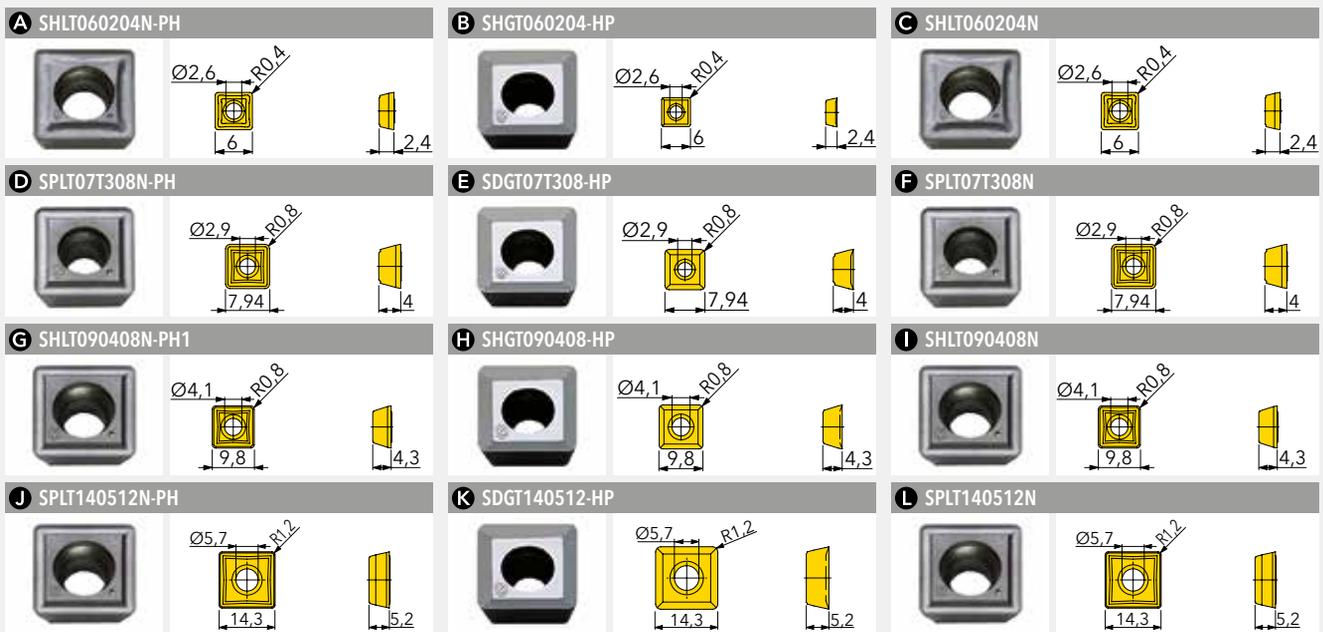
① = Peripheral cartridge / Cartouche périphérique ② = Center cartridge / Cartouche central ③ = Insert screw / Vis de serrage plaquette ④ = Screw driver / Tournevis
⑤ = Clamp screw / Vis de serrage ⑥ = Shim / Assise de protection

QUADDRILL⁺ COUNTERBORING MILL 15S1...W
 FRAISE A PERCER - RAINURER 15S1...W

ADAPTION ACC. TO DIN 1835 B (WELDON)
 ATTACHEMENT DIN 1835 B (WELDON)



| Designation Réf. de l'article | D | d | LT | L1 | L2 | a | Z | Zeff |  (K) |  (kg) | Related Insert Plaquette préconisée |
|----------------------------------|----|----|-----|----|----|------|---|------|---|--|--|
| 15S1D016025W4R01 | 16 | 20 | 75 | 16 | 50 | 5,4 | 2 | 1 | ✓ | 0,14 | ABC |
| 15S1D020034W4R01 | 20 | 20 | 85 | 20 | 60 | 5,4 | 2 | 1 | ✓ | 0,16 | ABC |
| 15S1E025039W5R01 | 25 | 25 | 95 | 25 | 63 | 7,0 | 2 | 1 | ✓ | 0,28 | DEF |
| 15S1F030049W5R01 | 30 | 25 | 105 | 30 | 73 | 8,9 | 2 | 1 | ✓ | 0,35 | GHI |
| 15S1F032049W5R01 | 32 | 25 | 105 | 32 | 73 | 8,9 | 2 | 1 | ✓ | 0,37 | GHI |
| 15S1J040060W6R01 | 40 | 32 | 120 | 40 | 84 | 13,0 | 2 | 1 | ✓ | 0,68 | JKL |



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SPLT07T308N-PH | 0,06/0,20 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SDGT07T308-HP | 0,08/0,15 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SPLT07T308N | 0,10/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | ● | | ● | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

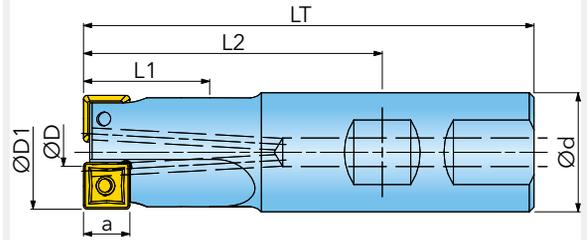
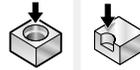


| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 16 - 20 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 25 | SM25-064-00 (1,1Nm) | DS-T08S | |
| 30 - 32 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 40 | SM50-122-50 (7,5Nm) | DS-T20S | |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

QUADDRILL⁺ COUNTERBORING END MILL 15C1...W
FRAISE A LAMER ET TREFLER 15C1...W

ADAPTION ACC. TO DIN 1835 B (WELDON)
 ATTACHEMENT DIN 1835 B (WELDON)



| Designation Réf. de l'article | D | D1 | d | LT | L1 | L2 | a | Z | | | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|-----|----|------|------|---|---|------|--|
| 15C1C010025W2R01 | 4,5 | 10 | 12 | 70 | 10 | 47,5 | 4,5 | 1 | ✓ | 0,10 | ABC |
| 15C1C011025W2R01 | 4,5 | 11 | 12 | 70 | 11 | 47,5 | 4,5 | 1 | ✓ | 0,10 | ABC |
| 15C1C013027W3R01 | 4,5 | 13 | 16 | 75 | 13 | 51 | 4,5 | 2 | ✓ | 0,11 | ABC |
| 15C1D015025W4R01 | 4,5 | 15 | 20 | 75 | 15 | 50 | 5,4 | 2 | ✓ | 0,13 | DEF |
| 15C1D018025W4R01 | 7,5 | 18 | 20 | 75 | 18 | 50 | 5,4 | 2 | ✓ | 0,14 | DEF |
| 15C1D020035W4R01 | 9,5 | 20 | 20 | 85 | 20 | 60 | 5,4 | 2 | ✓ | 0,16 | DEF |
| 15C1F024039W5R01 | 6,5 | 24 | 25 | 95 | 24 | 63 | 7,0 | 2 | ✓ | 0,27 | GHI |
| 15C1G026044W5R01 | 5,0 | 26 | 25 | 100 | 26 | 68 | 10,5 | 2 | ✓ | 0,29 | JKL |
| 15C1G030049W5R01 | 9,0 | 30 | 25 | 105 | 30 | 73 | 10,5 | 2 | ✓ | 0,35 | JKL |
| 15C1G033049W5R01 | 12,0 | 33 | 25 | 105 | 33 | 73 | 10,5 | 2 | ✓ | 0,38 | JKL |
| 15C1G036050W6R01 | 15,0 | 36 | 32 | 110 | 36 | 74 | 10,5 | 3 | ✓ | 0,56 | JKL |
| 15C1J040060W6R01 | 14,5 | 40 | 32 | 120 | 40 | 84 | 13 | 3 | ✓ | 0,62 | MNO |
| 15C1J048060W7R01 | 22,0 | 48 | 40 | 130 | 48 | 90 | 13 | 3 | ✓ | 1,10 | MNO |

Diameter D corresponds with the minimum diameter of the through hole / D représente le diamètre minimal de l'avant trou

**SPARE PARTS
ACCESSOIRES**



Diameter Range / Diamètres

| | | |
|-------------|---------------------|--------------------|
| 4,5 | SM20-043-00 (0,7Nm) | DS-TP06S (TX-Plus) |
| 4,5 - 9,5 | SM22-052-00 (0,8Nm) | DS-T07S |
| 6,5 | SM35-088-60 (3,0Nm) | DS-T10S |
| 5,0 - 15,0 | SM40-093-20 (4,5Nm) | DS-T15S |
| 14,5 - 22,0 | SMS0-122-50 (7,5Nm) | DS-T20S |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

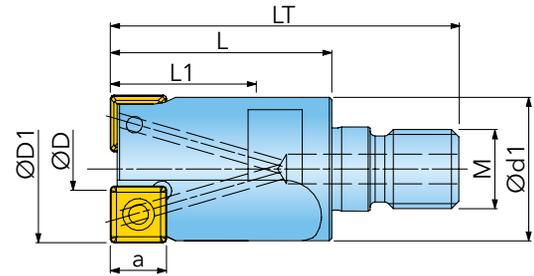
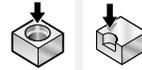


| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|
| SCLT050204N-PH | 0,05/0,12 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT050204-HP | 0,05/0,12 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SCLT050204N | 0,05/0,12 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | ● | | ● | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | ● | | ● | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | ● | | ● | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H

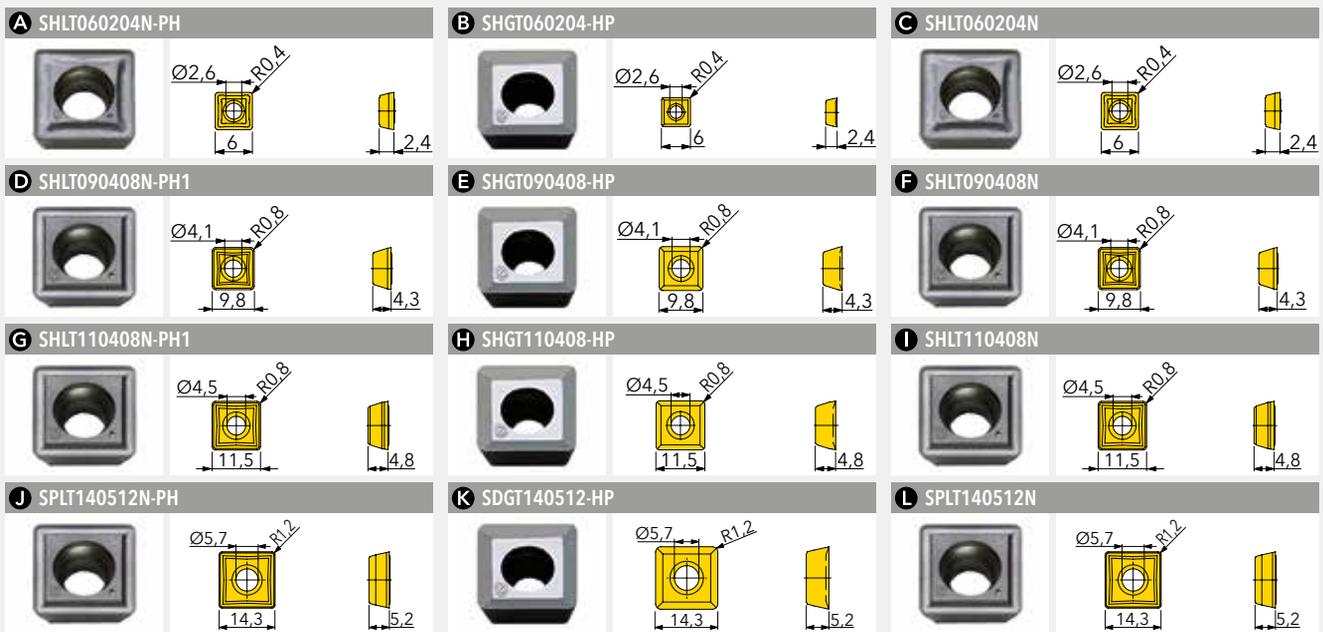
QUADDRILL⁺ COUNTERBORING END MILL 15C1...X
FRAISE A LAMER ET TREFLER 15C1...X

SCREW-IN TYPE ADAPTION
 ATTACHEMENT FILETÉ



| Designation Réf. de l'article | D | D1 | d1 | LT | L | L1 | a | M | Z | | | Related Insert Plaquette préconisée |
|----------------------------------|------|----|----|------|----|----|------|-----|---|---|------|--|
| 15C1D015030X5R01 | 4,5 | 15 | 13 | 47,8 | 30 | 15 | 4,5 | M8 | 2 | ✓ | 0,03 | ABC |
| 15C1D018030X5R01 | 7,5 | 18 | 13 | 47,8 | 30 | 18 | 4,5 | M8 | 2 | ✓ | 0,04 | ABC |
| 15C1D020035X6R01 | 9,5 | 20 | 18 | 54,8 | 35 | 20 | 4,5 | M10 | 2 | ✓ | 0,06 | ABC |
| 15C1F024035X7R01 | 6,5 | 24 | 21 | 57 | 35 | 24 | 5,4 | M12 | 2 | ✓ | 0,07 | DEF |
| 15C1G026040X7R01 | 5,0 | 26 | 21 | 62 | 40 | 26 | 7,0 | M12 | 2 | ✓ | 0,08 | GHI |
| 15C1G030045X8R01 | 9,0 | 30 | 29 | 69 | 45 | 30 | 7,0 | M16 | 2 | ✓ | 0,15 | GHI |
| 15C1G033050X8R01 | 12,0 | 33 | 29 | 74 | 50 | 33 | 7,0 | M16 | 2 | ✓ | 0,20 | GHI |
| 15C1G036050X8R01 | 15,0 | 36 | 29 | 74 | 50 | 36 | 7,0 | M16 | 2 | ✓ | 0,24 | GHI |
| 15C1J040060X8R01 | 14,5 | 40 | 29 | 84 | 60 | 40 | 10,5 | M16 | 2 | ✓ | 0,30 | JKL |
| 15C1J048070X8R01 | 22,0 | 48 | 29 | 94 | 70 | 48 | 10,5 | M16 | 2 | ✓ | 0,50 | JKL |

Diameter D corresponds with the minimum diameter of the through hole / D représente le diamètre minimal de l'avant trou



| Designation Réf. de l'article | fz(min/max) | Design Conception | Grade Nuance | IN10K | IN2005 | IN2010 | IN2530 | | | |
|----------------------------------|-------------|---|-----------------|-------|--------|--------|--------|--|--|--|
| SHLT060204N-PH | 0,06/0,20 | positive geometry R0,4 / Géométrie positive R0,4 | | | | | | | | |
| SHGT060204-HP | 0,08/0,15 | non-ferrous geometry, polished R0,4 / Géo. pour mat. non fer., polie R0,4 | ● | | | | | | | |
| SHLT060204N | 0,08/0,25 | cast iron geometry R0,4 / Géométrie fonte R 0,4 | | | | ● | | | | |
| SHLT090408N-PH1 | 0,07/0,22 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | |
| SHGT090408-HP | 0,10/0,20 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT090408N | 0,12/0,25 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SHLT110408N-PH1 | 0,08/0,23 | positive geometry R0,8 / Géométrie positive R0,8 | | | | | | | | |
| SHGT110408-HP | 0,14/0,23 | non-ferrous geometry, polished R0,8 / Géo. pour mat. non fer., polie R0,8 | ● | | | | | | | |
| SHLT110408N | 0,16/0,28 | cast iron geometry R0,8 / Géométrie fonte R 0,8 | | | | ● | | | | |
| SPLT140512N-PH | 0,06/0,26 | positive geometry R1,2 / Géométrie positive R1,2 | | | | | | | | |
| SDGT140512-HP | 0,15/0,26 | non-ferrous geometry, polished R1,2 / Géo. pour mat. non fer., polie R1,2 | ● | | | | | | | |
| SPLT140512N | 0,18/0,30 | cast iron geometry R1,2 / Géométrie fonte R 1,2 | | | | ● | | | | |

● = P ● = M ● = K ● = N ● = S ○ = H



| SPARE PARTS ACCESSOIRES | | ① | ② |
|----------------------------|---------------------|---------|---|
| Diameter Range / Diamètres | | | |
| 4,5 - 9,5 | SM22-052-00 (0,8Nm) | DS-T07S | |
| 6,5 | SM35-088-60 (3,0Nm) | DS-T10S | |
| 5,0 - 15,0 | SM40-093-20 (4,5Nm) | DS-T15S | |
| 14,5 - 22,0 | SM50-122-50 (7,5Nm) | DS-T20S | |

① = Insert screw / Vis de serrage plaquette ② = Screw driver / Tournevis

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| 06 IR 1,00 ISO | 506 | 15C1G026044W5R01 | 634 | 16 ER 0,60 ISO | 504 |
| 06 IR 1,25 ISO | 506 | 15C1G030045X8R01 | 636 | 16 ER 0,70 ISO | 504 |
| 08 IL 1,50 ISO | 506 | 15C1G030049W5R01 | 634 | 16 ER 0,75 ISO | 504 |
| 08 IR 0,50 ISO | 506 | 15C1G033049W5R01 | 634 | 16 ER 0,80 ISO | 504 |
| 08 IR 0,75 ISO | 506 | 15C1G033050X8R01 | 636 | 16 ER 1,00 ISO | 504 |
| 08 IR 1,00 ISO | 506 | 15C1G036050W6R01 | 634 | 16 ER 1,25 ISO | 504 |
| 08 IR 1,25 ISO | 506 | 15C1G036050X8R01 | 636 | 16 ER 1,5 TR | 513 |
| 08 IR 1,50 ISO | 506 | 15C1J040060W6R01 | 634 | 16 ER 1,50 ISO | 504 |
| 08 IR 1,75 ISO | 506 | 15C1J040060X8R01 | 636 | 16 ER 1,75 ISO | 504 |
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| 08 IRM A 60 | 503 | 15C1J048070X8R01 | 636 | 16 ER 10 UN | 508 |
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| 11 ER 0,70 ISO | 504 | 15S1E025039W5R01 | 632 | 16 ER 11 W | 509 |
| 11 ER 1,00 ISO | 504 | 15S1F030049W5R01 | 632 | 16 ER 11,5 NPT | 511 |
| 11 ERA 55 | 502 | 15S1F032049W5R01 | 632 | 16 ER 11,5 UN | 508 |
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| 15C1C013027W3R01 | 634 | 16 EL 8 RND | 514 | 16 ER 28 UN | 508 |
| 15C1D015025W4R01 | 634 | 16 ELA 60 | 503 | 16 ER 28 UNJ | 512 |
| 15C1D015030X5R01 | 636 | 16 ELAG 55 | 502 | 16 ER 28 W | 509 |
| 15C1D018025W4R01 | 634 | 16 ELAG 60 | 503 | 16 ER 3 TR | 513 |
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| 15C1D020035X6R01 | 636 | 16 ER 0,35 ISO | 504 | 16 ER 36 UN | 508 |
| 15C1F024035X7R01 | 636 | 16 ER 0,40 ISO | 504 | 16 ER 36 UNJ | 512 |

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| 16 ERM 1,00 ISO | 504 | 16 IR 0,80 ISO | 506 | 16 IRM G 60 | 503 |
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| 16 IL 1,25 ISO | 506 | 16 IR 8 UNJ | 512 | 22 IR 4 RND | 514 |
| 16 IL 1,50 ISO | 506 | 16 IR 8 W | 510 | 22 IR 4 TR | 513 |
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GENERAL TERMS OF SALE AND DELIVERY

Our services and deliveries are provided exclusively on the basis of our General Terms and Conditions of Business and Delivery. These are a component of the contract. They also apply to all future transactions in as far as these are of the same nature. The client confirms in the contractual declaration upon closing the contract that they have taken note of our General Terms and Conditions of Business and Delivery. The client confirms in the contractual declaration upon closing the contract that they agree to our General Terms and Conditions of Business and Delivery in the contract and their content.

Our General Terms and Conditions of Business and Delivery can be found on our website <https://www.ingersoll-imc.de/en> under the heading 'General Terms and Conditions'. We also hereby offer to supply a print-out of our General Terms and Conditions of Business and Delivery.

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Nos prestations et livraisons sont uniquement effectuées sur la base de nos Conditions générales de vente et de livraison. Celles-ci font partie intégrante du contrat. Elles sont aussi valables pour toutes les opérations futures, dans la mesure où il s'agit d'opérations de même type. Par le biais de sa déclaration contractuelle à la conclusion du contrat, le client atteste avoir pris connaissance de nos Conditions générales de vente et de livraison. Par le biais de sa déclaration contractuelle à la conclusion du contrat, le client confirme avoir donné son consentement concernant l'intégration de nos Conditions générales de vente et de livraison dans le contrat ainsi que le contenu de celles-ci.

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Ingersoll Werkzeuge is present all over the world - at tool shows and congresses of the milling and machine tool industry as well as at house exhibitions of leading machine tool manufacturers.

To intensify the direct contact to our customers, we organize special seminars and application-specific training courses in our customer centers in Haiger and Horrheim/Germany and Rockford/USA.

Current dates and up-to-date information on our seminars are stated under: www.ingersoll-imc.de and www.ingersoll-imc.com



CUSTOMERS - INTENSIFY CONTACTS



Ingersoll Werkzeuge GmbH est présent dans le monde entier lors de salons et congrès sur l'industrie du fraisage et de la machine-outil, ainsi qu'aux portes ouvertes des fabricants leader en machines.

Pour assurer les relations directes avec nos clients, nous organisons des séminaires et des formations sur des applications spécifiques dans nos centres techniques de Haiger/Allemagne et Rockford/USA.

Les dates et informations utiles sur nos séminaires sont disponibles sur: www.ingersoll-imc.fr

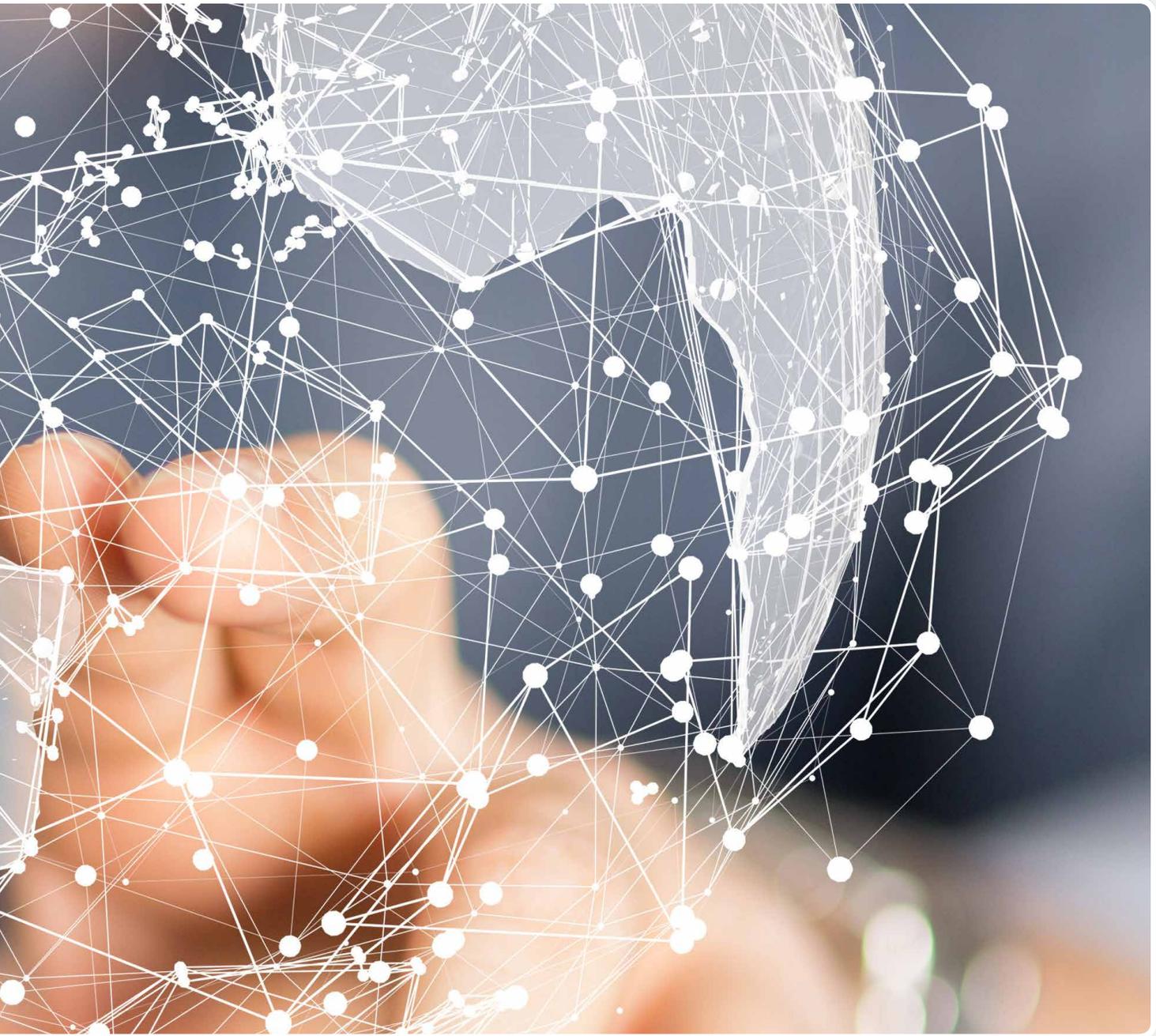


Ingersoll is a worldwide operating manufacturer of milling, boring, threading and turning tools for demanding machining operations.

Our main production plants in Haiger and Horrheim in Germany as well as Rockford in the United States, supply customers all over the world. Experienced and well-trained representatives in over 45 countries ensure a network of on-site advice and assistance. Ingersoll's complete range of performance and service is available to our customers - all over the world.



Marketing Standort Haiger (Germany)



Marketing office Rockford (USA)

Ingersoll est un fabricant mondial d'outils coupants destinés aux opérations de fraisage et tournage.

Nos principaux sites de fabrication, à Haiger et à Horrheim en Allemagne ainsi qu'à Rockford aux USA, fournissent nos clients dans le monde entier. Dans plus de 45 pays, nos représentants expérimentés et formés à notre technologie, constituent un réseau d'assistance et de conseils sur site. La gamme complète de produits performants et services Ingersoll est accessible à nos clients - partout dans le monde.

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