

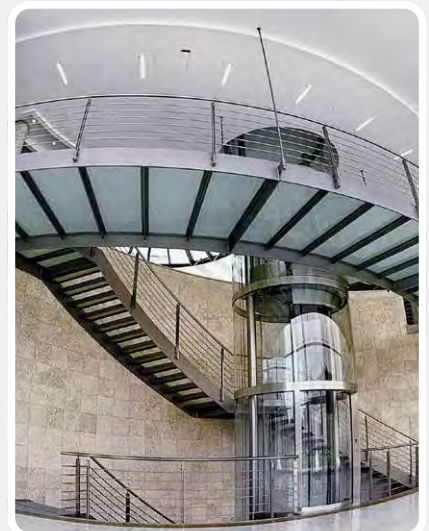
INGERSOLL SCHWERTZERSPANUNGSWERKZEUGE
INGERSOLL HEAVY DUTY MACHINING





Ingersoll Werkzeuge GmbH ist der Spezialist für extrem weich schneidende Fräswerkzeuge in Standard- und Sonderausführung.

Zusammen mit den sehr erfolgreichen Lösungen für die Schwerzerspannung und der projektorientierten Entwicklung von speziellen Werkzeuglösungen bieten wir ein umfassendes Technologie-Potenzial, das von den unterschiedlichsten Branchen genutzt wird. Dabei ist die enge Kooperation mit unseren Kunden bei der Entwicklung von technisch anspruchsvollen Problemlösungen die Basis langjähriger und dauerhafter Partnerschaften – weltweit. Sowohl kleine und mittelständische Unternehmen als auch international agierende Konzerne vertrauen unserer fachlichen Qualifikation und profitieren von der Zuverlässigkeit und Prozesssicherheit unserer Werkzeuge.





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.



Das Standardprogramm von Ingersoll Werkzeuge GmbH umfasst ein umfangreiches und weltweit etabliertes Sortiment an Zerspanungswerkzeugen, zugeschnitten auf die unterschiedlichsten Anwendungsfälle.

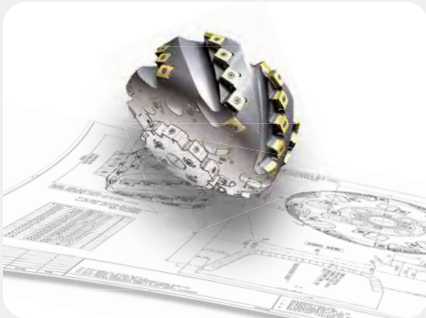
Unser Produktspektrum wird ständig erweitert und besteht aus Schaftfräsern, Walzenstirnfräsern, Eckfräsern, Planfräsern, Scheibenfräsern, Formfräsern, Bohrern, Vollhartmetall-Werkzeugen, Aufnahmen, Spannmitteln und Schneidplatten. Mit dem kompletten Programm an Dreh- und Stechwerkzeugen bieten wir unseren Kunden einen neuen Produktbereich und somit erweiterte Kompetenz aus einer Hand. Die Entwicklung und Fertigung von Sonderwerkzeugen nach kundenspezifischen Anforderungen ist ein weiterer Schwerpunkt von Ingersoll Werkzeuge GmbH. Unser Know-how und Erfahrungspotenzial, verbunden mit dem eigenen Anspruch an Qualität, Funktionalität und Innovation, gewährleistet unseren Kunden die optimale Werkzeuflösung für individuelle Bearbeitungsaufgaben, für alle Branchen.



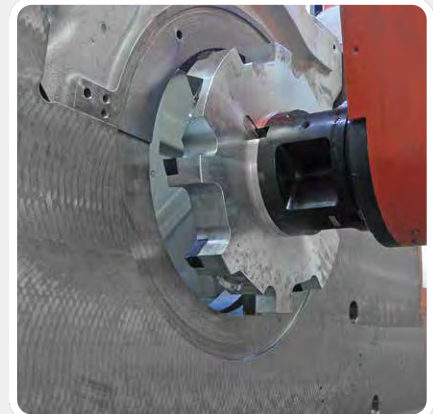


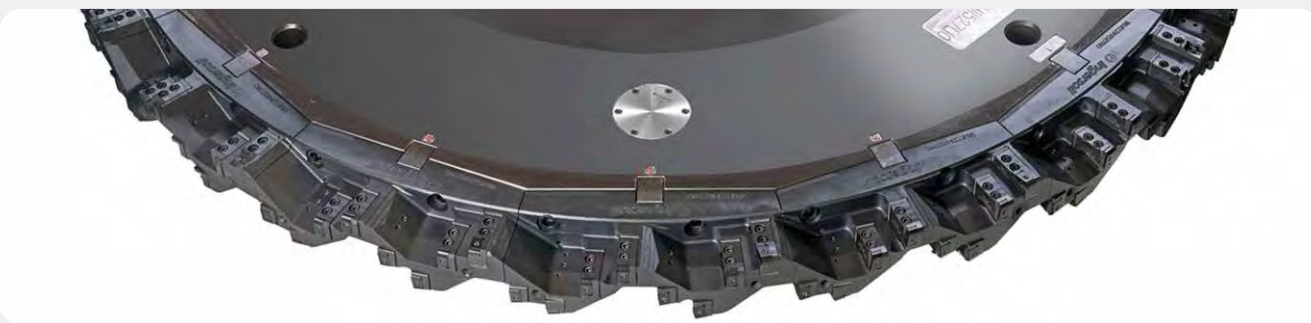
Ingersoll's standard program comprises a broad and worldwide established range of cutting tools, suitable for the most various applications.

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 engraving 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.

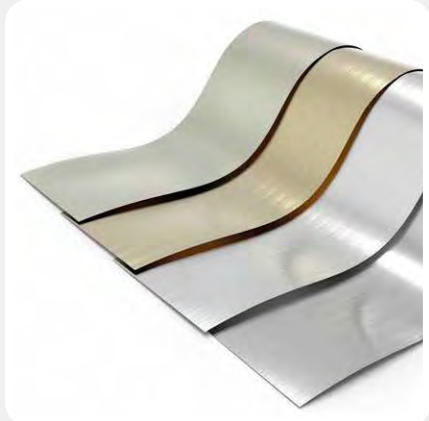








































SCHWERZERSPANUNGSWERKZEUGE / HEAVY DUTY MACHINING

	Beschreibung / Description	Serie / Code	Seite / Page
	Walzenstirnfräser 2EJ3J...F Extended Flute End Mill 2EJ3J...F	EVOTEC MAX	16
	Walzenstirnfräser 2EJ4J...F Extended Flute End Mill 2EJ4J...F	EVOTEC MAX	17
	Eckfräser SJ2N Shoulder-Type Face Mill SJ2N	S MAX	18
	Eckfräser 9J2N Shoulder-Type Face Mill 9J2N	POWER MAX	19
	Eckfräser SJ2R Shoulder-Type Face Mill SJ2R	S MAX	20
	Eckfräser 9J2L Shoulder-Type Face Mill 9J2L	POWER MAX	21
	Egalisier-Schlichtfräser EF2J Semi-Finish / Finish Mill EF2J	EVOTEC MAX	22
	Egalisier- / Schlichtfräser 6JDR Semi-Finish- / Finish Mill 6JDR	MICRO MILL	23
	Egalisier- / Schlichtfräser 6MDK Semi-Finish / Finish Mill 6MDK	MICRO MILL	24
	Schlichtfräser 6F2B Finish Mill 6F2B	MICRO MILL	25
	Schlichtfräser SF2B Finish Mill SF2B	MICRO MILL	26
	Schlichtfräser 7F2K Finish Mill 7F2K	MICRO MILL	27
	Planfräser SN2N Face Mill SN2N	S MAX	28
	Planfräser 5N6R Face Mill 5N6R	MIPSO QUAD	29









Druckfehler, Irrtümer und technische Änderungen vorbehalten. Produkte sind keine Standard-Lager Ware! / Subject to printing error or technical changes. Product are not standard warehouse products!

SCHWERZERSPANUNGSWERKZEUGE / HEAVY DUTY MACHINING

	Beschreibung / Description	Serie / Code	Seite / Page
	Planfräser SN2R Face Mill SN2R	S MAX	30
	Planfräser SM2R Face Mill SM2R	S MAX	31
	Planfräser 9C2N Face Mill 9C2N	POWER MAX	32
	Planfräser 9C2L Face Mill 9C2L	POWER MAX	33
	Hochvorschubfräser SP2L_R High Feed Cutter SP2L_R	S MAX	34
	Scheibenfräser 4VJ5V...F/E Schnittbreite 11-13 mm Slot Mill 4VJ5V...F/E 11-13 mm cutting width	GOLD SLOT	35
	Scheibenfräser 4VJ5V...F/E Schnittbreite 13-17 mm Slot Mill 4VJ5V...F/E 13-17 mm cutting width	GOLD SLOT	36
	Scheibenfräser 4SJ6E...F/E Schnittbreite 15-18 mm (links rechts montiert) 3-Side Slot Mill 4SJ6...F/E 15-18 mm cutting width (left and right mounted)	S MAX	37
	Scheibenfräser 4SJ6H...F/E Schnittbreite 18-23 mm (links rechts montiert) 3-Side Slot Mill 4SJ6...F/E 18-23 mm cutting width (left and right mounted)	S MAX	38
	Scheibenfräser 4SJ6L...F/E Schnittbreite 23-28 mm (links rechts montiert) 3-Side Slot Mill 4SJ6...F/E 23-28 mm cutting width (left and right mounted)	S MAX	39
	Scheibenfräser 4SJ6E...F/E Schnittbreite 9 mm (links montiert) 2-Side Slot Mill 4SJ6...F/E 9 mm cutting width (left mounted)	S MAX	40
	Scheibenfräser 4SJ6E...F/E Schnittbreite 9 mm (rechts montiert) 2-Side Slot Mill 4SJ6...F/E 9 mm cutting width (right mounted)	S MAX	41
	Scheibenfräser 4SJ6H...F/E Schnittbreite 11 mm (links montiert) 2-Side Slot Mill 4SJ6...F/E 11 mm cutting width (left mounted)	S MAX	42
	Scheibenfräser 4SJ6H...F/E Schnittbreite 11 mm (rechts montiert) 2-Side Slot Mill 4SJ6...F/E 11 mm cutting width (right mounted)	S MAX	43

Druckfehler, Irrtümer und technische Änderungen vorbehalten. / Subject to printing error or technical changes.

SCHWERZERSPANUNGSWERKZEUGE / HEAVY DUTY MACHINING

	Beschreibung / Description	Serie / Code	Seite / Page
	Scheibenfräser 4SJ6...F/E Schnittbreite 13 mm (links montiert) 2-Side Slot Mill 4SJ6...F/E 13 mm cutting width (left mounted)	S MAX	44
	Scheibenfräser 4SJ6...F/E Schnittbreite 13 mm (rechts montiert) 2-Side Slot Mill 4SJ6...F/E 13 mm cutting width (right mounted)	S MAX	45
	T-Nutenfräser 16T1A...W T-Slot Mill 16T1A...W	P OWERMAX	46
	T-Nutenfräser 16T1A...Z T-Slot Mill 16T1A...Z	P OWERMAX	48
	Bohrzirkularfräser 36UR_ Circular Boring Mill 36UR_	P OWERMAX	50
	Gewindezirkularfräser 17Y1...X Thread Mill 17Y1...X	R APIDTHREAD	51
	Gewindezirkularfräser 17Y1...Z Thread Mill 17Y1...Z	R APIDTHREAD	52
	DIN 69871-A50/60 Fräseraufnahmen mit Plananlage ISO 50/60 DIN69871A Ingersoll Flange Contact	T OOLIN	53

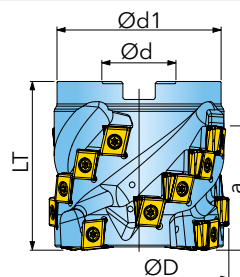
Druckfehler, Irrtümer und technische Änderungen vorbehalten. Produkte sind keine Standard-Lager Ware! / Subject to printing error or technical changes. Product are not standard warehouse products!



	Beschreibung / Description	Serie / Code	Seite / Page

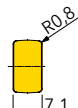
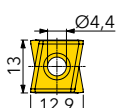
Druckfehler, Irrtümer und technische Änderungen vorbehalten. / Subject to printing error or technical changes.

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

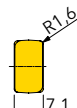
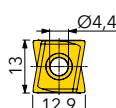


Artikel-Nr. Designation	D	d	d1	LT	κ	a	Z	Zeff		
2EJ3J063033F2R00	63	27	55	60	90	33	9	3	✓	0,95
2EJ3J063063F2R00	63	27	55	90	90	63	18	3	✓	1,40
2EJ3J080054F3R00	80	32	73	75	90	54	20	4	✓	2,00
2EJ3J080075F3R00	80	32	73	100	90	75	28	4	✓	2,70
2EJ3J100085F4R00	100	40	92	120	90	85	40	5	✓	5,50
2EJ3J125085F4R00	125	40	114	120	90	85	48	6	✓	9,20

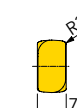
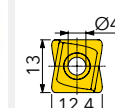
DGM324R300



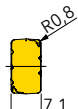
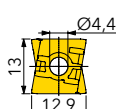
DGM324R301



DGM324R302



ZGM324R300



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN4015	IN4030	IN4035	IN4040		
DGM324R300	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8								
DGM324R301	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6								
DGM324R302	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2								
ZGM324R300	0,1/0,25	positive Spanteiler-Geometrie R0,8 / chipbreaker geometry R0,8								

● = P ● = M ● = K ● = N ● = S ○ = H

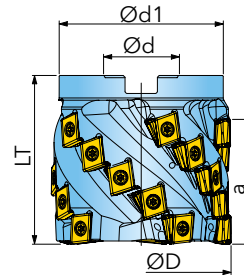
ZUBEHÖR
SPARE PARTS



SM40-143-H0 (4,5Nm) TX15x90-B

① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	κ	a	Z	Zeff		
2EJ4J063033F2R00	63	27	55	60	90	33	12	4	✓	0,94
2EJ4J063063F2R00	63	27	55	90	90	63	24	4	✓	1,40
2EJ4J080054F3R00	80	32	73	75	90	54	25	5	✓	2,00
2EJ4J080075F3R00	80	32	73	100	90	75	35	5	✓	2,72
2EJ4J100085F4R00	100	40	92	120	90	85	48	6	✓	5,70
2EJ4J125085F4R00	125	40	114	120	90	85	56	7	✓	9,18

DGM324R300	DGM324R301	DGM324R302
ZGM324R300		

Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN4015	IN4030	IN4035	IN4040			
DGM324R300	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8									
DGM324R301	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6									
DGM324R302	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2									
ZGM324R300	0,1/0,25	positive Spanteiler-Geometrie R0,8 / chipbreaker geometry R0,8									

● = P ● = M ● = K ● = N ● = S ○ = H

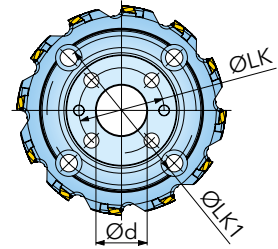
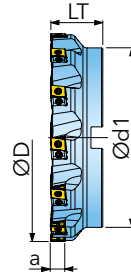
ZUBEHÖR
SPARE PARTS



SM40-143-H0 (4,5Nm) TX15x90-B

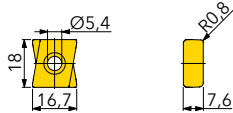
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

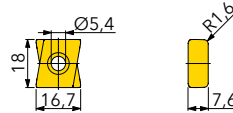


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	Z	kg
SJ2N125R00	125	40	100	63	-	-	90	17	7	3,20
SJ2N160R00	160	40	130	63	66,7	-	90	17	9	5,20
SJ2N200R00	200	60	160	63	101,6	-	90	17	11	7,10
SJ2N250R00	250	60	221	63	101,6	-	90	17	14	13,30
SJ2N315R00	315	60	221	80	101,6	177,8	90	17	17	25,00

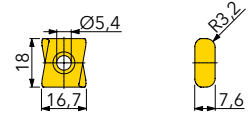
DNM434R201



DNM434R202



DNM434R204



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN2515	IN2530	IN2540				
DNM434R201	0,1/0,38	Schrupp-Geometrie R0,8 / roughing geometry R0,8									
DNM434R202	0,1/0,38	Schrupp-Geometrie R1,6 / roughing geometry R1,6									
DNM434R204	0,1/0,38	Schrupp-Geometrie R3,2 / roughing geometry R3,2									

● = P ● = M ● = K ● = N ● = S ○ = H

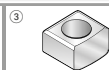
ZUBEHÖR
SPARE PARTS



SMS0-160-10 (6,0Nm)



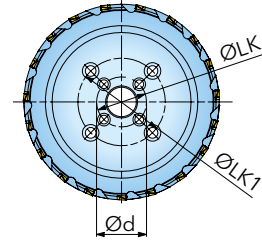
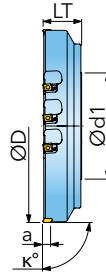
TX20x90-B



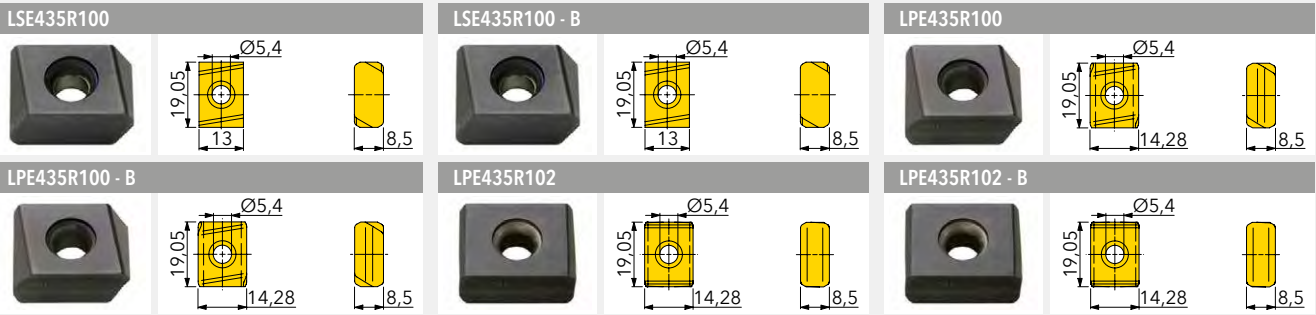
PAR0636

① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	Z	kg
9J2N160R00	160	40	130	63	66,7	-	90	15	8	6,00
9J2N200R00	200	60	160	63	101,6	-	90	15	10	8,00
9J2N250R00	250	60	220	63	101,6	-	90	15	12	15,00
9J2N315R00	315	60	220	80	101,6	177,8	90	15	14	31,00



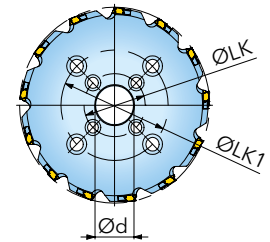
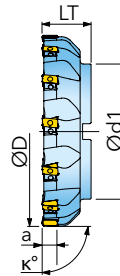
Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2015	ZA IN6530					
LSE435R100	0,1/0,8	neutrale Geometrie / neutral geometry								
LSE435R100 - B	0,1/0,7	neutrale Stahlgeometrie / neutral steel geometry								
LPE435R100	0,1/0,8	positive Geometrie, gefast / positive geometry, K-land								
LPE435R100 - B	0,1/0,7	pos. Geometrie, gefast für Stahl / pos. geometry with K-land for steel								
LPE435R102	0,1/0,8	positive Geometrie, gefast / positive geometry, K-land								
LPE435R102 - B	0,1/0,7	positive Geometrie, gefast für Stahl / pos. geometry with K-land for steel								

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④
	SM50-160-10 (6,0Nm)	TX20x90-B	NE143R67	SM40-130-00 (4,5Nm)

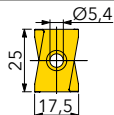
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = L-Nest / L-nest ④ = Spannschraube / Insert screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

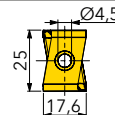


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	Z	kg
SJ2R125R00	125	40	100	63	-	-	90	23	6	3,30
SJ2R160R00	160	40	130	63	66,7	-	90	23	7	5,50
SJ2R200R00	200	60	160	63	101,6	-	90	23	9	7,60
SJ2R250R00	250	60	221	63	101,6	-	90	23	11	13,90
SJ2R315R00	315	60	221	80	101,6	177,8	90	23	13	24,50

DPM436R060



DPM436R101



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2005	IN2015	IN2030	IN2505	IN2515	IN2530	IN2540
DPM436R060	0,1/0,8	positive Geometrie / positive geometry		●	●	●				
DPM436R101	0,1/0,8	Schrupp-Geometrie / roughing geometry					●	●	●	●

● = P ● = M ● = K ● = N ● = S ○ = H

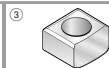
ZUBEHÖR
SPARE PARTS



SMS0-160-10 (6,0Nm)



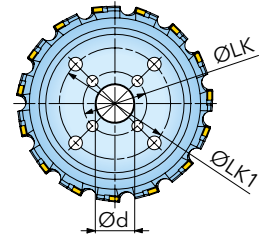
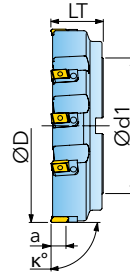
TX20x90-B



PAR0629

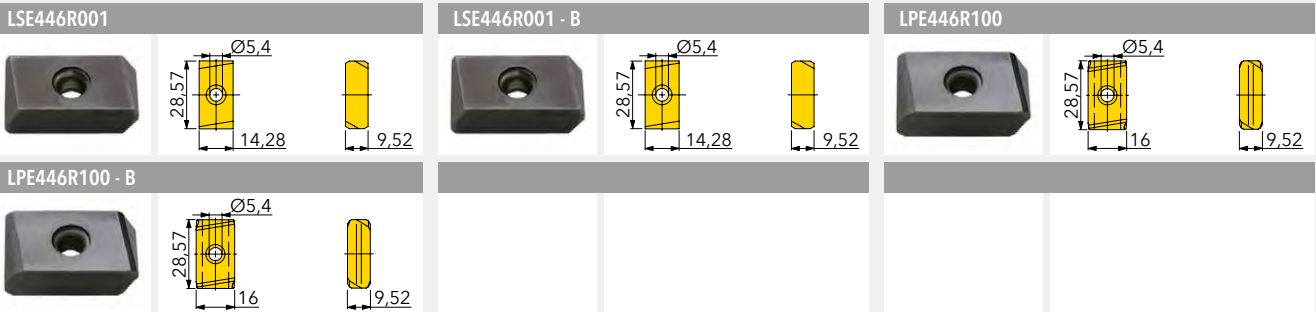
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	LK	κ	a	Z	kg
9J2L200R00	200	60	160	63	101,6	90	22	9	8,00
9J2L250R00	250	60	220	63	101,6	90	22	13	15,00
9J2L315R00 ¹⁾	315	60	220	80	101,6	90	22	15	31,00
9J2L400R00	400	60	220	80	101,6	90	22	19	42,00

¹⁾ zusätzlich mit Lochkreis $\varnothing 177,8$ / Additional colt circle $\varnothing 177,8$ mm



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2015	ZA IN6530					
LSE446R001	0,2/1	neutrale Geometrie / neutral geometry								
LSE446R001 - B	0,2/1	neutrale Stahlgeometrie / neutral steel geometry								
LPE446R100	0,15/0,8	positive Geometrie, gefäst / positive geometry, K-land								
LPE446R100 - B	0,15/0,8	pos., gefäst für Stahl / pos. with K-land for steel								

● = P ● = M ● = K ● = N ● = S ○ = H

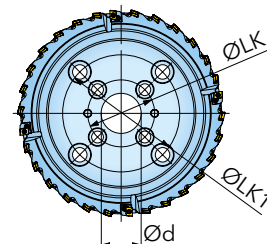
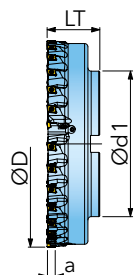
ZUBEHÖR
SPARE PARTS



SM50-190-10 (6,0Nm) TX20x90-B NE143R13 SM50-190-00 (6,0Nm)

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = L-Nest / L-nest ④ = Spannschraube / Insert screw

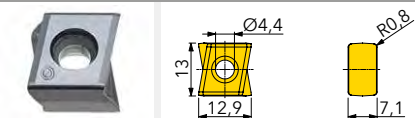
AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



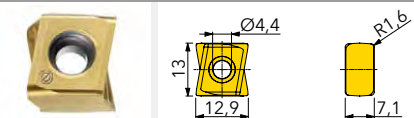
Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	Z	Zeff	Zs	kg
EF2J100R00	100	32	80	50	-	-	90	12	10	10	2	1,70
EF2J125R00	125	40	100	63	-	-	90	12	12	12	2	3,75
EF2J160R00	160	40	130	63	66,7	-	90	12	15	15	3	5,20
EF2J200R00	200	60	160	63	101,6	-	90	12	18	18	3	8,07
EF2J250R00	250	60	221	63	101,6	-	90	12	24	24	4	13,20
EF2J315R00	315	60	221	80	101,6	177,8	90	12	30	30	4	26,80

Fräser wird mit Kassette 56B183R01 ausgeliefert. / Cutter is supplied with cartridge 56B183R01.

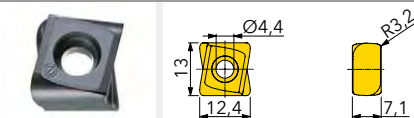
DGM324R300



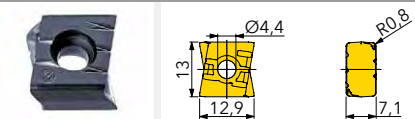
DGM324R301



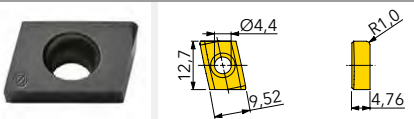
DGM324R302



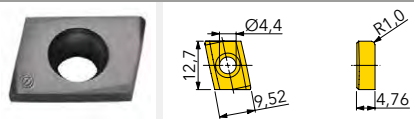
ZGM324R300



YDA323L101



YDA323L114



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN10K	IN0560	IN2010	IN2040	IN2505	IN4015	IN4030	IN4035
DGM324R300	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8						●	●	●	●
DGM324R301	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6						●	●	●	●
DGM324R302	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2						●	●	●	●
ZGM324R300	0,1/0,25	positive Spanteiler-Geometrie R0,8 / chipbreaker geometry R0,8						●		●	
YDA323L101	fu 1/fu 5	Breitschlichtschneide R1,0 / wiper finishing edge R1,0		●	●	●	●				
YDA323L114	fu 1/fu 5	verkürzte Breitschlichtschneide R1,0 / short wiper finishing edge R1,0		●	●	●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

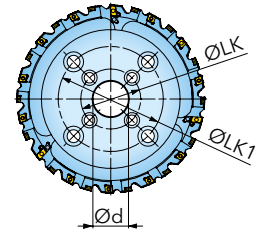
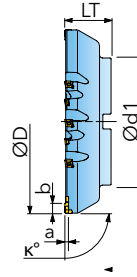
**ZUBEHÖR
SPARE PARTS**



SM40-143-H0 (4,5Nm) SM40-110-00 (4,5Nm) TX15x90-B 56B183R01 5EJ183R00 KR012-002 SB060-01

① = Spannschraube / Insert screw ② = Spannschraube / Insert screw ③ = Torx-Bit / Torx-Bit ④ = Kassette für YDA323... / Cartridge for YDA323... ⑤ = Kassette für DGM324R3... / Cartridge for DGM324R3... ⑥ = Rundkeil / Circular wedge ⑦ = Differentialschraube / Differential screw

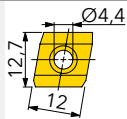
AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



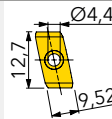
Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	b	Z	Zeff	Zs	kg
6JDR160R00	160	40	90	63	66,7	-	90	2	15	17	17	3	6,20
6JDR160R01	160	40	90	63	66,7	-	90	2	15	14	14	3	6,20
6JDR200R00	200	60	160	63	101,6	-	90	2	15	22	22	3	8,00
6JDR200R01	200	60	160	63	101,6	-	90	2	15	19	19	3	8,00
6JDR250R00	250	60	220	63	101,6	-	90	2	15	28	28	3	15,00
6JDR250R01	250	60	220	63	101,6	-	90	2	15	25	25	3	15,00
6JDR315R00	315	60	220	80	101,6	177,8	90	2	15	36	36	3	22,00
6JDR315R01	315	60	220	80	101,6	177,8	90	2	15	31	31	3	22,00

für Einstellschraube Schraubendreher DS-H04T verwenden / For setting screw, use wrench DS-H04T

DPD324-114 - J



YDA334L102



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2010	IN2040							
DPD324-114 - J		positive Geometrie / positive geometry		●	●							
YDA334L102	fu 1/fu 15	Breitschlichtschneide / wiper insert		●	●							

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM40-110-00 (4,5Nm)

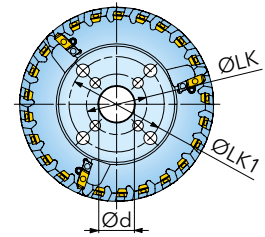
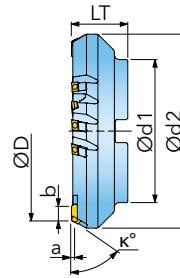
TX15x90-B

SC050-01

PA-5009

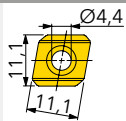
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Einstellschraube / Setting screw ④ = Anlageklotz für YDA... / Anvil for YDA...

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

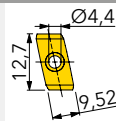


Artikel-Nr. Designation	D	d	d1	d2	LT	LK	LK1	κ	a	b	Z	Z _{eff}	Z _s	kg
6MDK125R00	125	40	100	142	63	-	-	60	2	15	16	16	2	4,80
6MDK125R01	125	40	100	142	63	-	-	60	2	15	13	13	2	4,50
6MDK160R00	160	40	100	177	63	66,7	-	60	2	15	22	22	3	6,60
6MDK160R01	160	40	100	177	63	66,7	-	60	2	15	17	17	3	6,30
6MDK200R00	200	60	160	217	63	101,6	-	60	2	15	25	25	3	9,90
6MDK200R01	200	60	160	217	63	101,6	-	60	2	15	21	21	3	9,30
6MDK250R00	250	60	220	267	63	101,6	-	60	2	15	32	32	3	17,00
6MDK250R01	250	60	220	267	63	101,6	-	60	2	15	26	26	3	16,60
6MDK315R00	315	60	220	332	80	101,6	177,8	60	2	15	40	40	3	33,10
6MDK315R01	315	60	220	332	80	101,6	177,8	60	2	15	33	33	3	29,70

SPE-33R101 - J



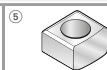
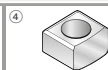
YDA334L102



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2010	IN2040						
SPE-33R101 - J		positive Geometrie / positive geometry		●	●						
YDA334L102	fu 1/fu 15	Breitschlichtschneide / wiper insert		●	●						

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM40-110-00 (4,5Nm)

TX15x90-B

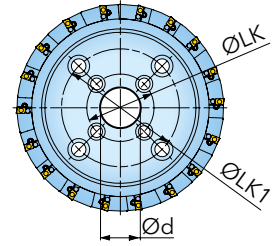
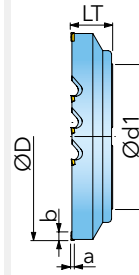
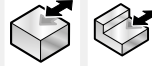
SC050-01

PA-5008

PA-5009

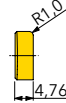
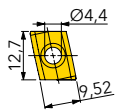
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Einstellschraube / Setting screw ④ = Anlageklotz für SPE... / Anvil for SPE... ⑤ = Anlageklotz für YDA... / Anvil for YDA...

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

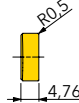
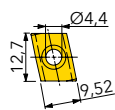


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	a	b	Z	kg
6F2B050R00	50	22	44	40	-	-	0,5	10	3	0,40
6F2B063R00	63	22	48	40	-	-	0,5	10	3	0,60
6F2B080R00	80	27	70	50	-	-	0,5	10	4	1,50
6F2B100R00	100	32	80	50	-	-	0,5	10	6	2,00
6F2B125R00	125	40	100	63	-	-	0,5	10	6	3,50
6F2B160R00	160	40	130	63	66,7	-	0,5	10	8	5,00
6F2B200R00	200	60	160	63	101,6	-	0,5	10	10	8,00
6F2B250R00	250	60	220	63	101,6	-	0,5	10	12	13,0
6F2B315R00	315	60	220	63	101,6	177,8	0,5	10	18	26,0

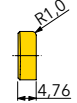
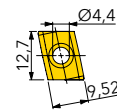
YDA323L101



YDA323L104



YDA323L114



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN10K	IN0560	IN2010	IN2040				
YDA323L101	fu 1/fu 5	Breitschlichtschneide R1,0 / wiper finishing edge R1,0		●	●	●	●				
YDA323L104	fu 1/fu 5	Breitschlichtschneide R0,5 / wiper finishing edge R0,5		●	●	●	●				
YDA323L114	fu 1/fu 5	verkürzte Breitschlichtschneide R1,0 / short wiper finishing edge R1,0		●	●	●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM40-110-00 (4,5Nm)

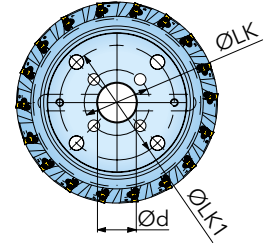
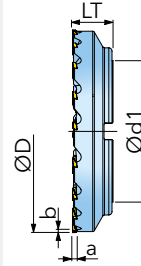
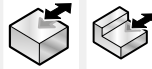
TX15x90-B

SC050-01

PN072-03

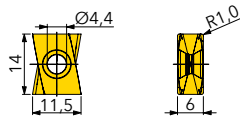
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Einstellschraube / Setting screw ④ = Exzenterstift / Eccentric pin

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

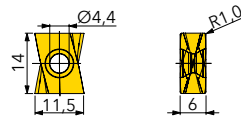


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	κ	a	b	Z	kg
SF2B050R00	50	22	44	40	-	-	90	0,5	12	3	0,38
SF2B063R00	63	22	48	40	-	-	90	0,5	12	3	0,62
SF2B080R00	80	27	70	50	-	-	90	0,5	12	4	1,21
SF2B100R00	100	32	80	50	-	-	90	0,5	12	6	1,80
SF2B125R00	125	40	100	63	-	-	90	0,5	12	6	3,50
SF2B160R00	160	40	130	63	66,7	-	90	0,5	12	8	5,20
SF2B200R00	200	60	160	63	101,6	-	90	0,5	12	10	7,50
SF2B250R00	250	60	220	63	101,6	-	90	0,5	12	12	12,85
SF2B315R00	315	60	220	63	101,6	177,8	90	0,5	12	18	18,53

YDA223L101



YDA223L114



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN10K	IN0560	IN2010	IN2040				
YDA223L101	fu 1/fu 11	Breitschlichtschneide R1,0 / wiper finishing edge R1,0		●		●	●				
YDA223L114	fu 1/fu 5	verkürzte Breitschlichtschneide R1,0 / short wiper finishing edge R1,0		●	●	●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM40-110-00 (4,5Nm)

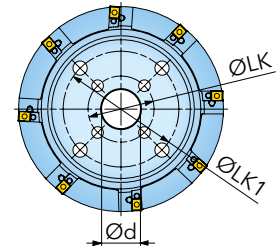
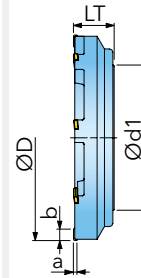
TX15x90-B

SC050-01

PN072-03

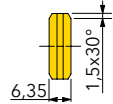
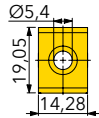
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Einstellschraube / Setting screw ④ = Exzenterstift / Eccentric pin

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	a	b	Z	kg
7F2K160R00	160	40	130	63	66,7	-	0,5	15	4	5,00
7F2K200R00	200	60	160	63	101,6	-	0,5	15	6	8,00
7F2K250R00	250	60	220	63	101,6	-	0,5	15	6	13,00
7F2K315R00	315	60	220	63	101,6	177,8	0,5	15	8	20,00
7F2K400R00	400	60	220	80	101,6	177,8	0,5	15	12	30,00

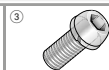
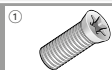
YCE434-001



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN10K	IN0560	IN2010	IN2040			
YCE434-001	fu 1/fu 10	Breitschichtschneide / wiper insert								

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM50-160-10 (6,0Nm)

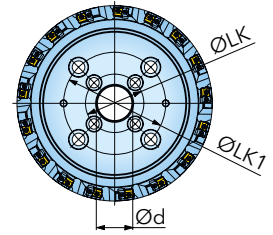
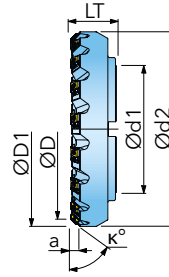
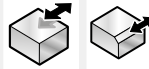
TX20x90-B

SC050-14

PN072-03

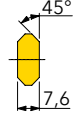
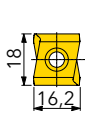
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Einstellschraube / Setting screw ④ = Exzenterstift / Eccentric pin

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	D1	d	d1	d2	LT	LK	LK1	κ	a	Z	kg
SN2N125R00	125	100	40	100	150	63	-	-	45	8,8	7	4,70
SN2N160R00	160	130	40	130	185	63	66,7	-	45	8,8	9	7,10
SN2N200R00	200	160	60	160	225	63	101,6	-	45	8,8	11	9,80
SN2N250R00	250	221	60	221	275	63	101,6	-	45	8,8	14	15,20
SN2N315R00	315	221	60	221	340	80	101,6	177,8	45	8,8	17	23,6

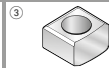
DNM434R245



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN2515	IN2530	IN2540				
DNM434R245	0,1/0,5	positive Schrupp-Geometrie / positive roughing geometry									

● = P ● = M ● = K ● = N ● = S ○ = H

**ZUBEHÖR
SPARE PARTS**



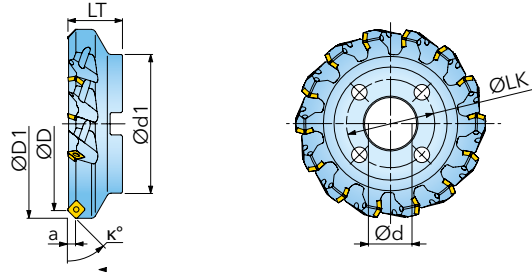
SMS0-160-10 (6,0Nm)

TX20x90-B

PAR0636

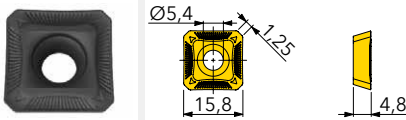
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

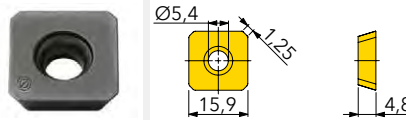


Artikel-Nr. Designation	D	D1	d	d1	LT	LK	κ	a	Z		
5N6R080R00	80	98,1	27	80	50	-	45	9	7	✓	1,52
5N6R100R00	100	118,1	32	90	55	-	45	9	8	✓	2,29
5N6R125R00	125	143,1	40	100	65	-	45	9	10	✓	4,21
5N6R160R00	160	178,1	40	130	65	-	45	9	12	✓	7,18
5N6R200R00	200	218,1	60	160	63	101,6	45	9	14		7,23
5N6R250R00	250	268,1	60	220	63	101,6	45	9	16		13,69
5N6R315R00	315	333,1	60	220	80	101,6	45	9	18		27,67

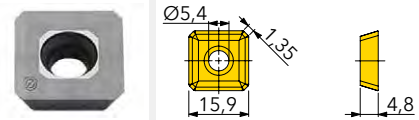
SHET1504AETN-HR



SHEW1504AJTN



SHEH1504AEN-P



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2035	IN4005	IN4030	IN6535			
SHET1504AETN-HR	0,25/0,35	hoch-positive Geometrie / high positive geometry									
SHEW1504AJTN	0,2/0,5	neutrale Geometrie / neutral geometry									
SHEH1504AEN-P	0,05/0,3	positive Alugeometrie / positive aluminum geometry									

● = P ● = M ● = K ● = N ● = S ○ = H

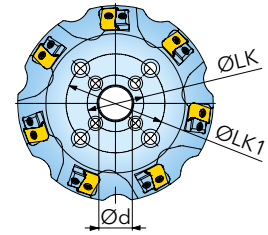
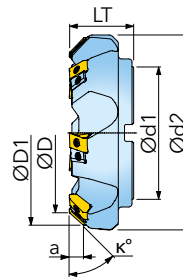
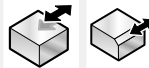
ZUBEHÖR
SPARE PARTS



SM50-120-10 (6,0Nm) TX20x90-B

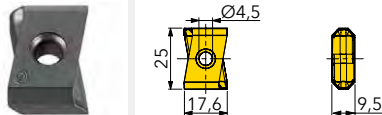
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

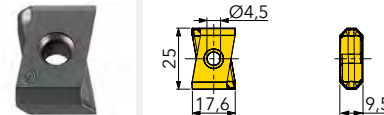


Artikel-Nr. Designation	D	D1	d	d1	d2	LT	LK	LK1	κ	a	Z	kg
SN2R125R00	125	151	40	100	157	63	-	-	45	13	6	5,25
SN2R160R00	160	187	40	130	192	63	66,7	-	45	13	7	7,57
SN2R200R00	200	227	60	160	232	63	101,6	-	45	13	9	10,49
SN2R250R00	250	277	60	221	282	63	101,6	-	45	13	11	15,92
SN2R315R00	315	342	60	221	347	80	101,6	177,8	45	13	13	32,13

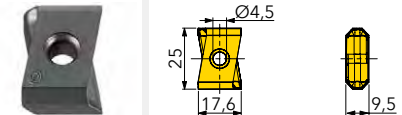
DPM436R045



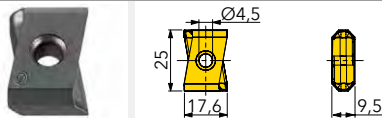
DPM436R046



DPM436R101



DPM436R101T12



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN2515	IN2530	IN2540				
DPM436R045	0,1/0,8	positive Geometrie / positive geometry		●	●	●	●				
DPM436R046	0,1/0,8	positive Geometrie, mit Eckenradius / positive geometry with corner radius		●	●	●	●				
DPM436R101	0,1/0,8	Schrupp-Geometrie / roughing geometry		●	●	●	●				
DPM436R101T12	0,1/0,8	verstärkte Schrupp-Geometrie / stronger roughing geometry		●	●	●	●				

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



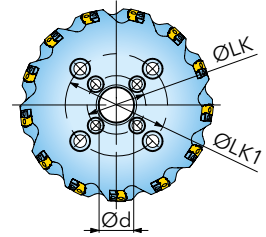
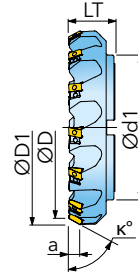
SM50-160-10 (6,0Nm)

TX20x90-B

PAR0629

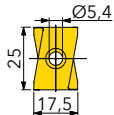
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

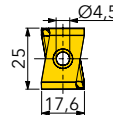


Artikel-Nr. Designation	D	D1	d	d1	LT	LK	LK1	κ	a	Z	kg
SM2R125R00	125	146	40	100	63	-	-	60	18	6	4,10
SM2R160R00	160	181	40	130	63	66,7	-	60	18	7	6,00
SM2R200R00	200	221	60	160	63	101,6	-	60	18	9	8,50
SM2R250R00	250	271	60	221	63	101,6	-	60	18	11	14,00
SM2R315R00	315	336	60	221	80	101,6	177,8	60	18	13	28,90

DPM436R060



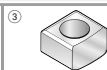
DPM436R101



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2005	IN2015	IN2030	IN2505	IN2515	IN2530	IN2540
DPM436R060	0,1/0,8	positive Geometrie / positive geometry		●	●	●				
DPM436R101	0,1/0,8	Schrupp-Geometrie / roughing geometry					●	●	●	●

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



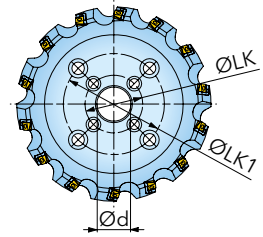
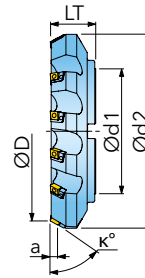
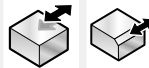
SM50-160-10 (6,0Nm)

TX20x90-B

PAR0629

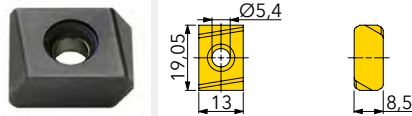
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

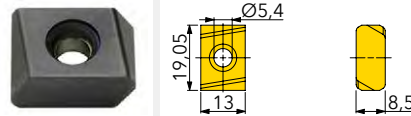


Artikel-Nr. Designation	D	d	d1	d2	LT	LK	LK1	κ	a	Z	kg
9C2N125R00	125	40	100	152	63	-	-	60	12	6	4,00
9C2N160R00	160	40	130	187	63	66,7	-	60	12	8	6,00
9C2N200R00	200	60	160	227	63	101,6	-	60	12	10	8,00
9C2N250R00	250	60	220	277	63	101,6	-	60	12	12	14,00
9C2N315R00	315	60	220	342	80	101,6	177,8	60	12	14	30,00

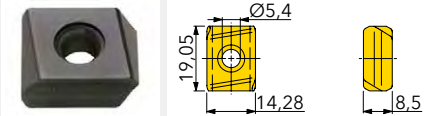
LSE435R100



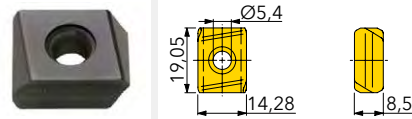
LSE435R100 - B



LPE435R100



LPE435R100 - B



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2015	ZA IN6530					
LSE435R100	0,1/0,8	neutrale Geometrie / neutral geometry								●●●
LSE435R100 - B	0,1/0,7	neutrale Stahlgeometrie / neutral steel geometry								●●●
LPE435R100	0,1/0,8	positive Geometrie, gefast / positive geometry, K-land								●●●
LPE435R100 - B	0,1/0,7	pos. Geometrie, gefast für Stahl / pos. geometry with K-land for steel								●●●

● = P ● = M ● = K ● = N ● = S ○ = H

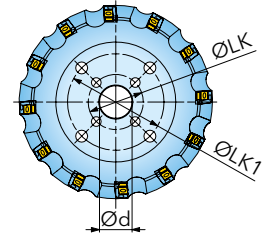
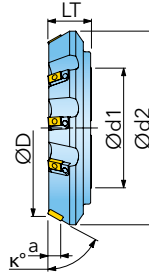
ZUBEHÖR
SPARE PARTS



SM50-160-10 (6,0Nm) TX20x90-B NE143R67 SM40-130-00 (4,5Nm)

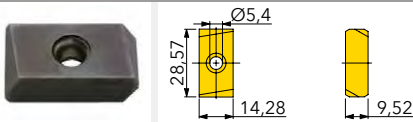
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = L-Nest / L-nest ④ = Spannschraube / Insert screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

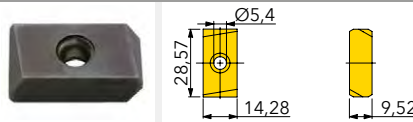


Artikel-Nr. Designation	D	d	d1	d2	LT	LK	κ	a	Z	kg
9C2L200R00	200	60	160	242	80	101,6	60	20	8	16,00
9C2L200R01	200	60	160	242	80	101,6	60	20	10	16,00
9C2L250R00	250	60	220	292	80	101,6	60	20	10	26,00
9C2L250R01	250	60	220	292	80	101,6	60	20	14	26,00
9C2L315R00	315	60	220	357	80	101,6	60	20	12	35,00
9C2L315R01	315	60	220	357	80	101,6	60	20	16	35,00
9C2L400R00	400	60	220	442	80	101,6	60	20	16	46,00
9C2L400R01	400	60	220	442	80	101,6	60	20	22	46,00

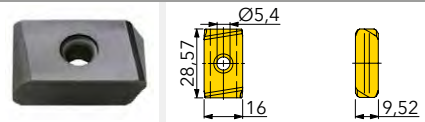
LSE446R001



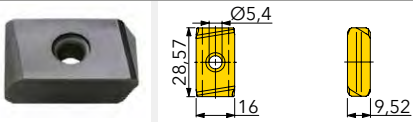
LSE446R001 - B



LPE446R100



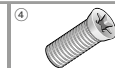
LPE446R100 - B



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2015	ZA IN6530						
LSE446R001	0,2/1	neutrale Geometrie / neutral geometry									
LSE446R001 - B	0,2/1	neutrale Stahlgeometrie / neutral steel geometry									
LPE446R100	0,15/0,8	positive Geometrie, gefast / positive geometry, K-land									
LPE446R100 - B	0,15/0,8	pos., gefast für Stahl / pos. with K-land for steel									

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM50-190-10 (6,0Nm)

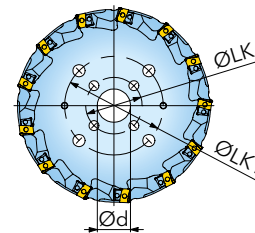
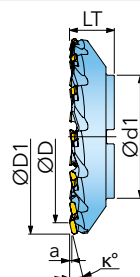
TX20x90-B

NE143R13

SM50-190-00 (6,0Nm)

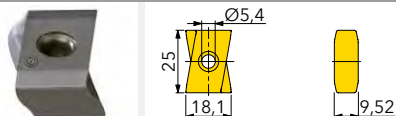
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = L-Nest / L-nest ④ = Spannschraube / Insert screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

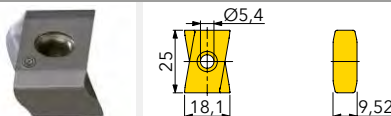


Artikel-Nr. Designation	D	D1	d	d1	LT	LK	LK1	κ	a	Z		kg
SP2L100R00	100	138,5	32	90	50	-	-	13	3,5	5		2,80
SP2L125R00	125	163,5	40	100	63	-	-	13	3,5	6		4,80
SP2L160R00	160	198,3	40	130	63	66,7	-	13	3,5	7		7,20
SP2L200R00	200	238,3	60	160	63	101,6	-	13	3,5	9		9,90
SP2L250R00	250	288,3	60	221	63	101,6	177,8	13	3,5	11		15,50
SP2L315R00	315	353,3	60	221	80	101,6	177,8	13	3,5	13		27,70

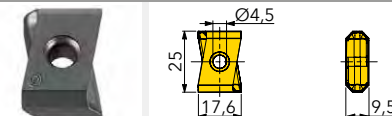
DPM436R105



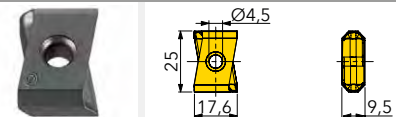
DPM436R105T11



DPM436R101



DPM436R101T12



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2505	IN2515	IN2530	IN2540				
DPM436R105	0,1/0,8	positive Geometrie / positive geometry									
DPM436R105T11	0,1/0,8	positive Geometrie, gefast / positive geometry, K-land									
DPM436R101	0,1/0,8	Schrupp-Geometrie / roughing geometry									
DPM436R101T12	0,1/0,8	verstärkte Schrupp-Geometrie / stronger roughing geometry									

● = P ● = M ● = K ● = N ● = S ○ = H

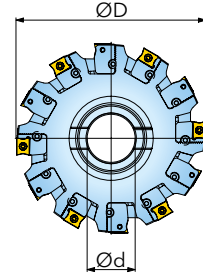
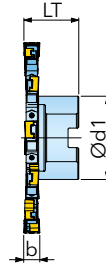
**ZUBEHÖR
SPARE PARTS**



SM50-160-10 (6,0Nm) TX20x90-B PAR0629

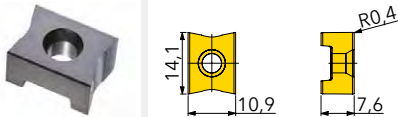
① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Anlageklotz / Anvil

AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030

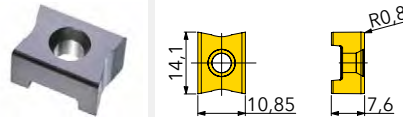


Artikel-Nr. Designation	D	d	d1	LT	b	Z	Zeff	kg
4VJ5V100011F2R00	100	27	47	45	11-13	6	3	0,87
4VJ5V125011E9R00	125	32	58	45	11-13	8	4	1,14
4VJ5V160011E5R00	160	40	70	45	11-13	12	6	1,76
4VJ5V200011E5R00	200	40	90	45	11-13	14	7	3,24
4VJ5V250011F6R00	250	60	130	45	11-13	18	9	5,31
4VJ5V315011F6R00	315	60	130	45	11-13	20	10	7,41

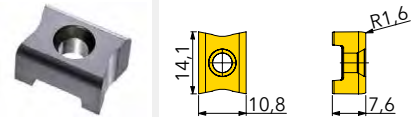
IXH415-G01



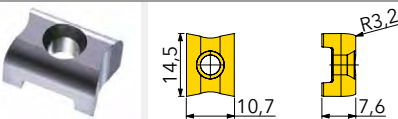
IXH415-G02



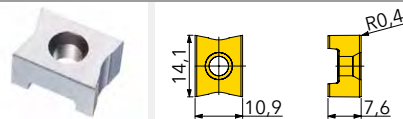
IXH415-G03



IXH415-G04



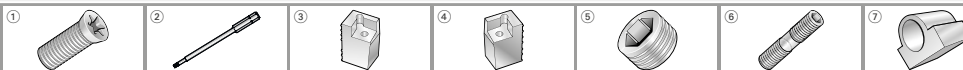
IXH415-G01-P



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN4005	IN4030	IN4035			
IXH415-G01	0,08/0,25	positive Geometrie R0,4 / positive geometry R0,4			●	●	●			
IXH415-G02	0,08/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●			
IXH415-G03	0,08/0,25	positive Geometrie R1,6 / positive geometry R1,6				●	●			
IXH415-G04	0,08/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●			
IXH415-G01-P	0,05/0,2	positive Geometrie R0,4, poliert / positive geometry, polished R0,4	●							

● = P ● = M ● = K ● = N ● = S ○ = H

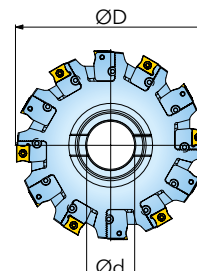
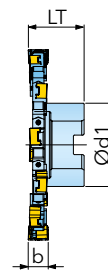
**ZUBEHÖR
SPARE PARTS**



SM40-090-00 (4,5Nm) TX15x90-B 4V101R00 4V101L00 SC080-01 SB040-07 2K0410-02

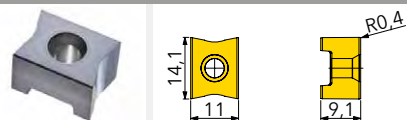
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendepplattenhalter RH / Cartridge RH ④ = Wendepplattenhalter LH / Cartridge LH ⑤ = Stellschraube / Setting screw ⑥ = Differentialschraube / Differential screw ⑦ = Klemmkeil / Locking wedge

AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030

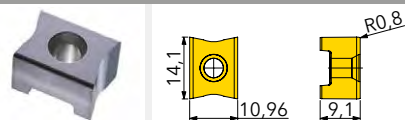


Artikel-Nr. Designation	D	d	d1	LT	b	Z	Zeff	kg
4VJ5V100013F2R00	100	27	47	45	13-17	6	3	0,94
4VJ5V125013E9R00	125	32	58	45	13-17	8	4	1,27
4VJ5V160013E5R00	160	40	70	45	13-17	12	6	1,97
4VJ5V200013E5R00	200	40	90	45	13-17	14	7	3,58
4VJ5V250013F6R00	250	60	130	45	13-17	18	9	5,80
4VJ5V315013F6R00	315	60	130	45	13-17	20	10	8,35

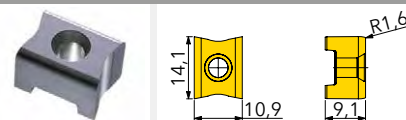
IXH416-G01



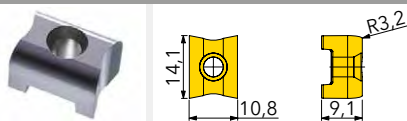
IXH416-G02



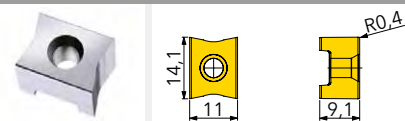
IXH416-G03



IXH416-G04



IXH416-G01-P



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN4005	IN4030	IN4035				
IXH416-G01	0,08/0,25	positive Geometrie R0,4 / positive geometry R0,4			●	●					
IXH416-G02	0,08/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●				
IXH416-G03	0,08/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●				
IXH416-G04	0,08/0,25	positive Geometrie R3,2 / positive geometry R3,2				●					
IXH416-G01-P	0,05/0,2	positive Geometrie R0,4, poliert / positive geometry, polished R0,4	●								

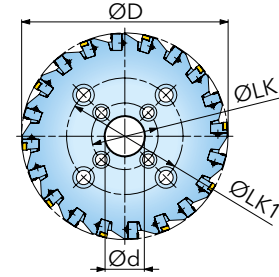
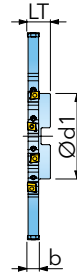
● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④	⑤	⑥	⑦
	SM40-110-00 (4,5Nm)	TX15x90-B	4W121R00	4W121L00	SC080-01	SB040-07	2K0410-02

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter RH / Cartridge RH ④ = Wendeplattenhalter LH / Cartridge LH ⑤ = Stellschraube / Setting screw ⑥ = Differentialschraube / Differential screw ⑦ = Klemmkeil / Locking wedge

SMAX SCHEIBENFRÄSER 4SJ6E...F/E SCHNITTBREITE 15-18 MM (LINKS RECHTS MONTIERT)
3-SIDE SLOT MILL 4SJ6...F/E 15-18 MM CUTTING WIDTH (LEFT AND RIGHT MOUNTED)

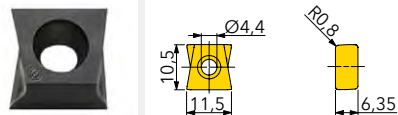
AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030



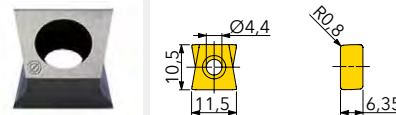
Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6E100015F2R00	100	27	47	45	-	-	15-18	6	3	0,91
4SJ6E125015E9R00	125	32	58	45	-	-	15-18	8	4	1,28
4SJ6E160015E5R00	160	40	70	45	-	-	15-18	12	6	2,06
4SJ6E200015E5R00	200	40	90	45	-	-	15-18	14	7	3,74
4SJ6E250015F6R00	250	60	130	45	101,6	-	15-18	18	9	5,70
4SJ6E315015F6R00	315	60	130	45	101,6	-	15-18	20	10	7,70
4SJ6E400015F7R00	400	60	221	45	101,6	177,8	15-18	22	11	14,00

Schnittbreite "b" bei Bestellung definieren! / Define cutting with "b" in case of order.

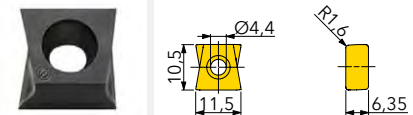
DPM314-001



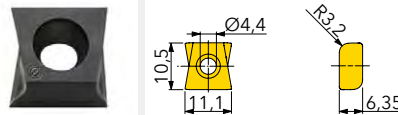
DPM314-001 - P



DPM314-002



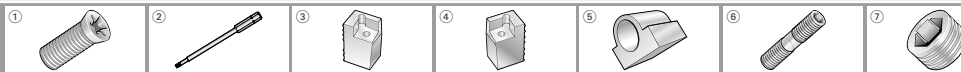
DPM314-004



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515			
DPM314-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●			
DPM314-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8		●							
DPM314-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●			
DPM314-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●			

● = P ● = M ● = K ● = N ● = S ○ = H

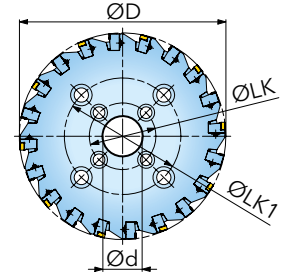
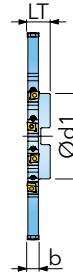
**ZUBEHÖR
SPARE PARTS**



SM40-120-20 (4,5Nm) TX15x90-B 4SE132R00 4SE132L00 2K0610-01 SB060-01 SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendplattenhalter RH / Cartridge RH ④ = Wendplattenhalter LH / Cartridge LH ⑤ = Klemmkeil / Locking wedge ⑥ = Differentialschraube / Differential screw ⑦ = Stellschraube / Setting screw

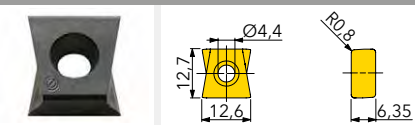
AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030



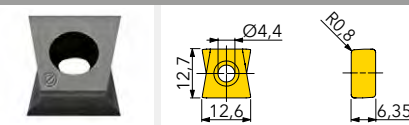
Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6H100018F2R00	100	27	47	45	-	-	18-23	6	3	1,00
4SJ6H125018E9R00	125	32	58	45	-	-	18-23	8	4	1,46
4SJ6H160018E5R00	160	40	70	45	-	-	18-23	12	6	2,39
4SJ6H200018E5R00	200	40	90	45	-	-	18-23	14	7	4,26
4SJ6H250018F6R00	250	60	130	45	101,6	-	18-23	18	9	7,50
4SJ6H315018F6R00	315	60	130	45	101,6	-	18-23	20	10	9,00
4SJ6H400018F7R00	400	60	221	45	101,6	177,8	18-23	22	11	17,00

Schnittbreite "b" bei Bestellung definieren! / Define cutting width "b" in case of order.

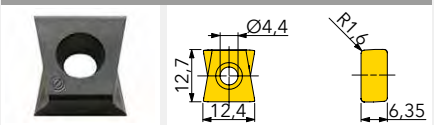
DPM324-001



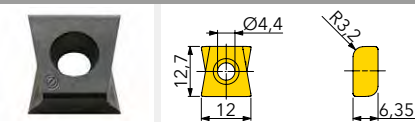
DPM324-001 - P



DPM324-002



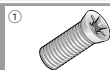
DPM324-004



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515		
DPM324-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●		
DPM324-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●							
DPM324-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●		
DPM324-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●		

● = P ● = M ● = K ● = N ● = S ○ = H

**ZUBEHÖR
SPARE PARTS**



SM40-120-20 (4,5Nm)

TX15x90-B

4SH172R00

4SH172L00

2K0610-02

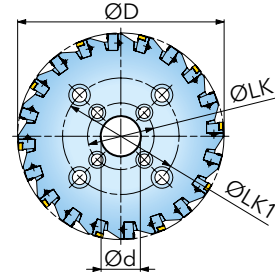
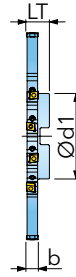
SB060-01

SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter RH / Cartridge RH ④ = Wendeplattenhalter LH / Cartridge LH ⑤ = Klemmkeil / Locking wedge ⑥ = Differentialschraube / Differential screw ⑦ = Stellschraube / Setting screw

SMAX SCHEIBENFRÄSER 4SJ6L...F/E SCHNITTBREITE 23-28 MM (LINKS RECHTS MONTIERT)
3-SIDE SLOT MILL 4SJ6...F/E 23-28 MM CUTTING WIDTH (LEFT AND RIGHT MOUNTED)

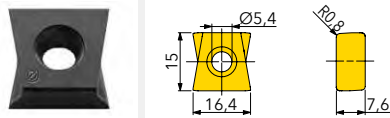
AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030



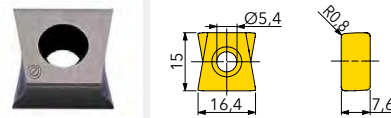
Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6L100023F2R00	100	27	47	45	-	-	23-28	6	3	1,21
4SJ6L125023E9R00	125	32	58	45	-	-	23-28	8	4	1,78
4SJ6L160023E5R00	160	40	70	45	-	-	23-28	12	6	2,94
4SJ6L200023E5R00	200	40	90	45	-	-	23-28	14	7	5,13
4SJ6L250023F6R00	250	60	130	45	101,6	-	23-28	18	9	10,00
4SJ6L315023F6R00	315	60	130	45	101,6	-	23-28	20	10	12,00
4SJ6L400023F7R00	400	60	221	45	101,6	177,8	23-28	22	11	22,00

Schnittbreite "b" bei Bestellung definieren! / Define cutting with "b" in case of order.

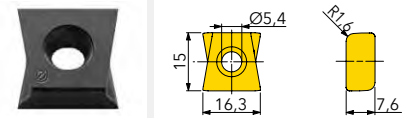
DPM424-001



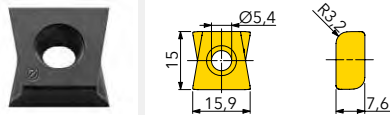
DPM424-001 - P



DPM424-002



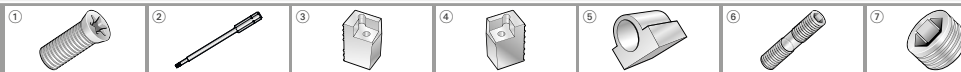
DPM424-004



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515			
DPM424-001	0,1/0,3	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●			
DPM424-001 - P	0,1/0,3	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●								
DPM424-002	0,1/0,3	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●			
DPM424-004	0,1/0,3	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●			

● = P ● = M ● = K ● = N ● = S ○ = H

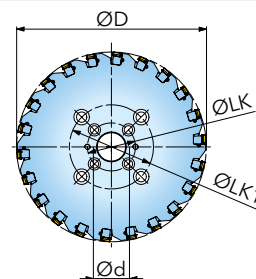
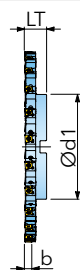
**ZUBEHÖR
SPARE PARTS**



SM50-160-10 (6,0Nm) TX20x90-B 4SL222R00 4SL222L00 2K0610-03 SB060-01 SC080-01

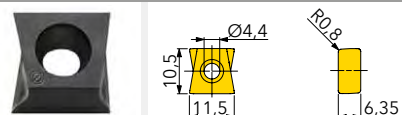
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendplattenhalter RH / Cartridge RH ④ = Wendplattenhalter LH / Cartridge LH ⑤ = Klemmkeil / Locking wedge ⑥ = Differentialschraube / Differential screw ⑦ = Stellschraube / Setting screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030

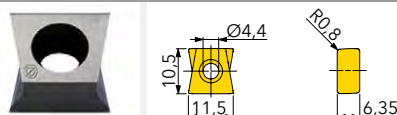


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6E100045F2R01	100	27	47	45	-	-	9	6	6	0,91
4SJ6E125045E9R01	125	32	58	45	-	-	9	8	8	1,28
4SJ6E160045E5R01	160	40	70	45	-	-	9	12	12	2,06
4SJ6E200045E5R01	200	40	90	45	-	-	9	14	14	3,74
4SJ6E250045F6R01	250	60	130	45	101,6	-	9	18	18	5,70
4SJ6E315045F6R01	315	60	130	45	101,6	-	9	20	20	7,70
4SJ6E400045F7R01	400	60	221	45	101,6	177,8	9	22	22	14,00

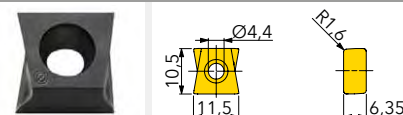
DPM314-001



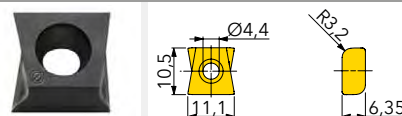
DPM314-001 - P



DPM314-002



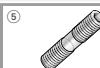
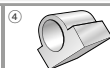
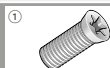
DPM314-004



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515		
DPM314-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●		
DPM314-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●							
DPM314-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●		
DPM314-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●		

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
SPARE PARTS



SM40-120-20 (4,5Nm)

TX15x90-B

4SE132R00

2K0610-01

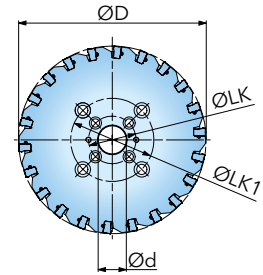
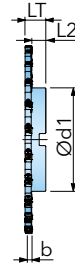
SB060-01

SC080-01

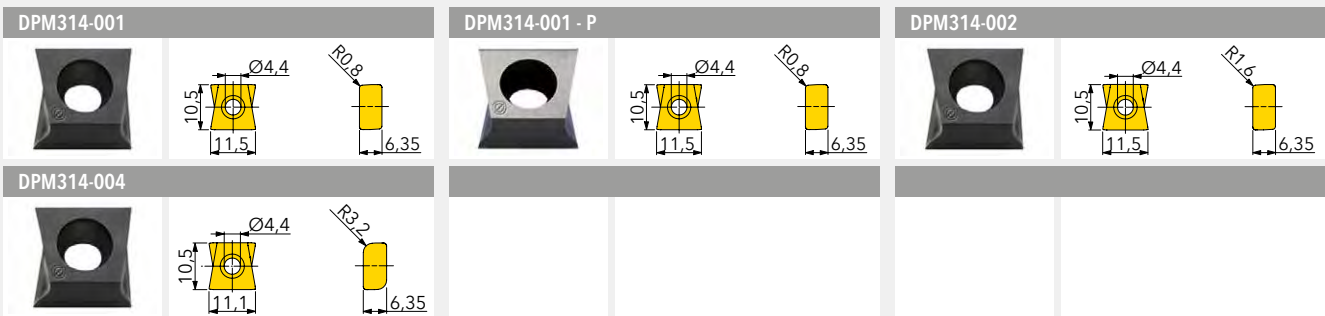
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter RH / Cartridge RH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

SMAX SCHEIBENFRÄSER 4SJ6E...F/E SCHNITTBREITE 9 MM (RECHTS MONTIERT)
 2-SIDE SLOT MILL 4SJ6...F/E 9 MM CUTTING WIDTH (RIGHT MOUNTED)

AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	L2	LK	LK1	b	Z	Zeff	kg
4SJ6E100030F2R01	100	27	47	45	30	-	-	9	6	6	0,91
4SJ6E125030E9R01	125	32	58	45	30	-	-	9	8	8	1,28
4SJ6E160030E5R01	160	40	70	45	30	-	-	9	12	12	2,06
4SJ6E200030E5R01	200	40	90	45	30	-	-	9	14	14	3,74
4SJ6E250030F6R02	250	60	130	45	30	101,6	-	9	18	18	5,70
4SJ6E315030F6R02	315	60	130	45	30	101,6	-	9	20	20	7,70
4SJ6E400030F7R02	400	60	221	45	30	101,6	177,8	9	22	22	14,00



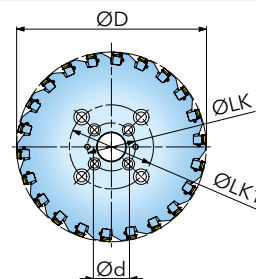
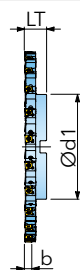
Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515			
DPM314-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●			
DPM314-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●								
DPM314-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●			
DPM314-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●			

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④	⑤	⑥
	SM40-120-20 (4,5Nm)	TX15x90-B	4SE132L00	2K0610-01	SB060-01	SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter LH / Cartridge LH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6H100045F2R01	100	27	47	45	-	-	11	6	6	1,00
4SJ6H125045E9R01	125	32	58	45	-	-	11	8	8	1,44
4SJ6H160045E5R01	160	40	70	45	-	-	11	12	12	2,39
4SJ6H200045E5R01	200	40	90	45	-	-	11	14	14	4,26
4SJ6H250045F6R01	250	60	130	45	101,6	-	11	18	18	7,50
4SJ6H315045F6R01	315	60	130	45	101,6	-	11	20	20	9,00
4SJ6H400045F7R01	400	60	221	45	101,6	177,8	11	22	22	17,00

DPM324-001	DPM324-001 - P	DPM324-002

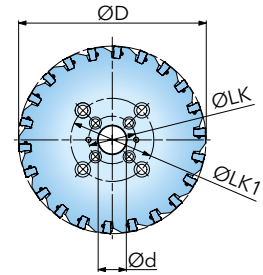
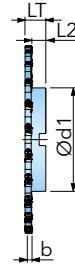
Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515		
DPM324-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●		
DPM324-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●							
DPM324-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●		
DPM324-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●		

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④	⑤	⑥
	SM40-120-20 (4,5Nm)	TX15x90-B	4SH172R00	2K0610-02	SB060-01	SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter RH / Cartridge RH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	L2	LK	LK1	b	Z	Zeff	kg
4SJ6H100027F2R01	100	27	47	45	27	-	-	11	6	6	1,00
4SJ6H125027E9R01	125	32	58	45	27	-	-	11	8	8	1,46
4SJ6H160027E5R01	160	40	70	45	27	-	-	11	12	12	2,40
4SJ6H200027E5R01	200	40	90	45	27	-	-	11	14	14	4,25
4SJ6H250027F6R02	250	60	130	45	27	101,6	-	11	18	18	7,50
4SJ6H315027F6R02	315	60	130	45	27	101,6	-	11	20	20	9,00
4SJ6H400027F7R02	400	60	221	45	27	101,6	177,8	11	22	22	17,00

DPM324-001	DPM324-001 - P	DPM324-002
DPM324-004		

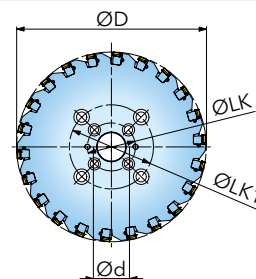
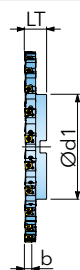
Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515			
DPM324-001	0,1/0,25	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●			
DPM324-001 - P	0,1/0,25	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●								
DPM324-002	0,1/0,25	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●			
DPM324-004	0,1/0,25	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●			

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④	⑤	⑥
	SM40-120-20 (4,5Nm)	TX15x90-B	4SH172L00	2K0610-02	SB060-01	SC080-01

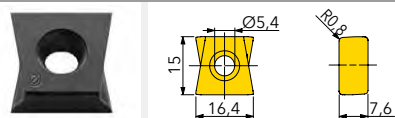
① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter LH / Cartridge LH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030

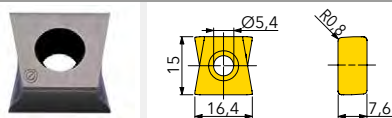


Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	b	Z	Zeff	kg
4SJ6L100045F2R01	100	27	47	45	-	-	13	6	6	1,21
4SJ6L125045E9R01	125	32	58	45	-	-	13	8	8	1,78
4SJ6L160045E5R01	160	40	70	45	-	-	13	12	12	2,05
4SJ6L200045E5R01	200	40	90	45	-	-	13	14	14	3,74
4SJ6L250045F6R01	250	60	130	45	101,6	-	13	18	18	10,00
4SJ6L315045F6R01	315	60	130	45	101,6	-	13	20	20	12,00
4SJ6L400045F7R01	400	60	221	45	101,6	177,8	13	22	22	22,00

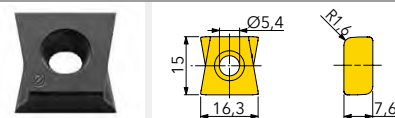
DPM424-001



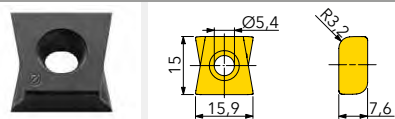
DPM424-001 - P



DPM424-002



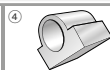
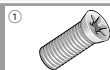
DPM424-004



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515		
DPM424-001	0,1/0,3	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●		
DPM424-001 - P	0,1/0,3	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●							
DPM424-002	0,1/0,3	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●		
DPM424-004	0,1/0,3	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●		

● = P ● = M ● = K ● = N ● = S ○ = H

**ZUBEHÖR
 SPARE PARTS**



SM50-160-10 (6,0Nm)

TX20x90-B

4SL222R00

2K0610-03

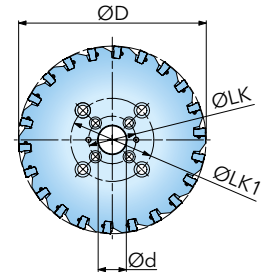
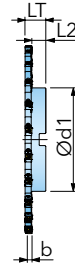
SB060-01

SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter RH / Cartridge RH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

SMAX SCHEIBENFRÄSER 4SJ6L...F/E SCHNITTBREITE 13 MM (RECHTS MONTIERT)
 2-SIDE SLOT MILL 4SJ6...F/E 13 MM CUTTING WIDTH (RIGHT MOUNTED)

AUFNAHME NACH DIN 8030
 ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	L2	LK	LK1	b	Z	Zeff	kg
4SJ6L100022F2R01	100	27	47	45	22	-	-	13	6	6	1,21
4SJ6L125022E9R01	125	32	58	45	22	-	-	13	8	8	1,78
4SJ6L160022E5R01	160	40	70	45	22	-	-	13	12	12	2,95
4SJ6L200022E5R01	200	40	90	45	22	-	-	13	14	14	5,13
4SJ6L250022F6R02	250	60	130	45	22	101,6	-	13	18	18	10,00
4SJ6L315022F6R02	315	60	130	45	22	101,6	-	13	20	20	12,00
4SJ6L400022F7R02	400	60	221	45	22	101,6	177,8	13	22	22	22,00

DPM424-001	DPM424-001 - P	DPM424-002
DPM424-004		

Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN05S	IN2005	IN2015	IN2040	ZA IN6515			
DPM424-001	0,1/0,3	positive Geometrie R0,8 / positive geometry R0,8			●	●	●	●			
DPM424-001 - P	0,1/0,3	NE-Geometrie, poliert R0,8 / non-ferrous geometry, polished R0,8	●								
DPM424-002	0,1/0,3	positive Geometrie R1,6 / positive geometry R1,6			●	●	●	●			
DPM424-004	0,1/0,3	positive Geometrie R3,2 / positive geometry R3,2			●	●	●	●			

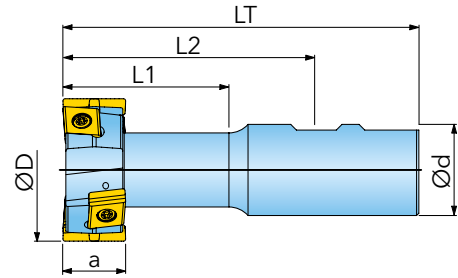
● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR SPARE PARTS	①	②	③	④	⑤	⑥
	SM50-160-10 (6,0Nm)	TX20x90-B	4SL222L00	2K0610-03	SB060-01	SC080-01

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit ③ = Wendeplattenhalter LH / Cartridge LH ④ = Klemmkeil / Locking wedge ⑤ = Differentialschraube / Differential screw ⑥ = Stellschraube / Setting screw

POWERMAX T-NUTENFRÄSER 16T1A...W
T-SLOT MILL 16T1A...W

AUFNAHME NACH DIN 1835 B
ADAPTION ACC. TO DIN 1835 B (WELDON)



Artikel-Nr. Designation	D	d	d8	LT	L1	L2	a	Z	Zeff		 kg	Passende WSP Related Insert
16T1A040018W5R00	40	25	20	110	48	78	18	4	2	✓	0,373	A B C D E F
16T1A050022W6R00	50	32	26	125	58	89	22	4	2	✓	0,720	G H I J K L
16T1A060028W6R00	60	32	33	140	73	104	28	6	3	✓	1,079	M N O P Q R

ZUBEHÖR
SPARE PARTS



SM40-140-R0 (4,5Nm)



TX15x90-B

① = Spannschraube / Insert screw ② = Torx-Bit / Torx-Bit

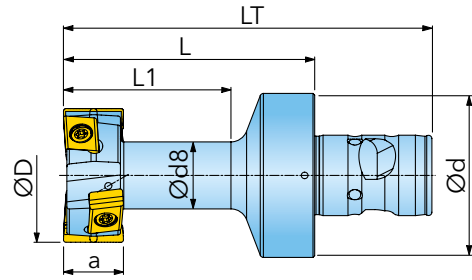


Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN4005	IN4015	IN4030					
DPD314-201-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD314-202-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD314-203-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE314-201-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE314-202-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE314-203-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					
DPD324-201-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD324-202-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD324-203-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE324-201-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE324-202-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE324-203-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					
DPD324-301-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD324-302-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD324-303-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE324-301-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE324-302-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE324-303-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					

¹⁾ auf Anfrage / on request

● = P ● = M ● = K ● = N ● = S ○ = H

MODULARE INNOFIT AUFNAHME
MODULAR MILLING ADAPTOR INNOFIT



Artikel-Nr. Designation	D	d	d8	LT	L	L1	a	MOD	Z	Zeff		kg	Passende WSP Related Insert
16T1A040018Z4R00	40	49	20	103	68	48	18	40	4	2	✓	0,52	A B C D E F
16T1A050022Z5R00	50	78	26	125	78	58	22	50	4	2	✓	1,23	G H I J K L
16T1A060028Z5R00	60	78	33	139	93	73	28	50	6	3	✓	1,64	M N O P Q R

ZUBEHÖR
SPARE PARTS



SM40-140-R0 (4,5Nm) TX15x90-B

① = Spanschraube / Insert screw ② = Torx-Bit / Torx-Bit

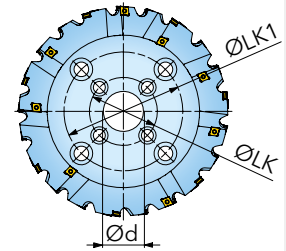
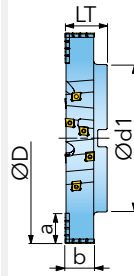


Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN4005	IN4015	IN4030					
DPD314-201-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD314-202-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD314-203-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE314-201-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE314-202-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE314-203-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					
DPD324-201-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD324-202-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD324-203-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE324-201-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE324-202-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE324-203-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					
DPD324-301-S	0,1/0,2	positive Geometrie R0,8 / positive geometry R0,8		●	●	●					
DPD324-302-S	0,1/0,2	positive Geometrie R1,6 / positive geometry R1,6		●	●	●					
DPD324-303-S	0,1/0,2	positive Geometrie R2,4 / positive geometry R2,4		●	●	●					
DNE324-301-S ¹⁾	0,1/0,25	negative Geometrie R0,8 / negative geometry R0,8		●	●	●					
DNE324-302-S ¹⁾	0,1/0,25	negative Geometrie R1,6 / negative geometry R1,6		●	●	●					
DNE324-303-S ¹⁾	0,1/0,25	negative Geometrie R2,4 / negative geometry R2,4		●	●	●					

¹⁾ auf Anfrage / on request

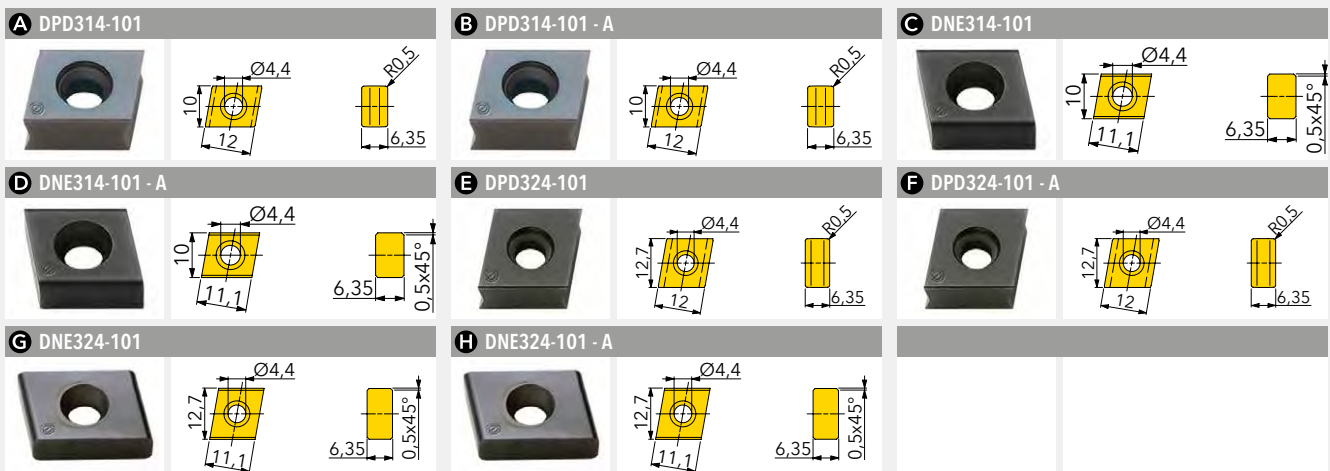
● = P ● = M ● = K ● = N ● = S ○ = H

AUFNAHME NACH DIN 8030
ADAPTION ACC. TO DIN 8030



Artikel-Nr. Designation	D	d	d1	LT	LK	LK1	a	b	Z	Z _{eff}	Z _s	kg	Passende WSP Related Insert
36URN085025E8R00	85	27	60	40	-	-	16	25	8	2	1	1,10	A B C D
36URN125025E5R00	125	40	90	45	-	-	16	25	13	3	2	2,40	A B C D
36URR160032F8R00	160	40	130	50	66,7	-	32	32	18	4	2	5,50	E F G H
36URR200040F6R00	200	60	160	63	101,6	-	32	40	26	5	2	10,40	E F G H
36URR250040F6R00	250	60	160	63	101,6	-	43	40	32	6	2	15,20	E F G H
36URR315040F7R00	315	60	221	63	101,6	177,8	43	40	36	7	2	25,00	E F G H
36URR400040F7R00	400	60	221	63	101,6	177,8	54	40	46	9	2	38,00	E F G H
36URR500040F7R00	500	60	221	63	101,6	177,8	54	40	54	11	2	58,00	E F G H

Maß b entspricht maximaler Tauchtiefe. / Dimension "b" is equivalent to maximum plunging depth



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN2010	IN2015	ZA IN6530				
DPD314-101	0,1/0,3	positive Geometrie R0,5 / positive geometry R0,5		●	●	●				
DPD314-101 - A	0,1/0,3	positive Stahlgeometrie R0,5 / positive steel geometry R0,5			●	●				
DNE314-101	0,1/0,4	neutrale Geometrie / neutral geometry			●	●				
DNE314-101 - A	0,1/0,4	neutrale Stahlgeometrie / neutral steel geometry			●	●				
DPD324-101	0,1/0,3	positive Geometrie R0,5 / positive geometry R0,5		●	●	●				
DPD324-101 - A	0,1/0,3	positive Stahlgeometrie R0,5 / positive steel geometry R0,5			●	●				
DNE324-101	0,1/0,3	neutrale Geometrie / neutral geometry			●	●				
DNE324-101 - A	0,1/0,4	neutrale Stahlgeometrie / neutral steel geometry			●	●				

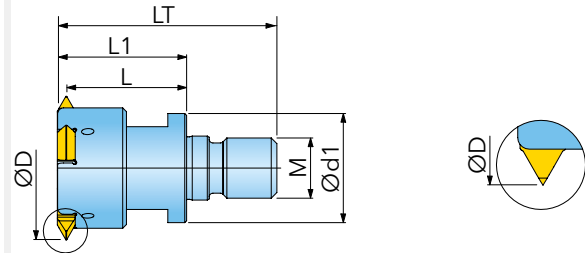
● = P ● = M ● = K ● = N ● = S ○ = H



SM40-110-00 (4,5Nm) DS-T15S

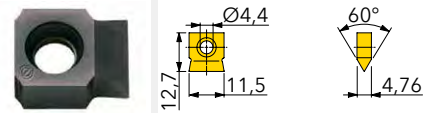
① = Spannschraube / Insert screw ② = Schraubendreher / Screw driver

MIT EINSCHRAUBANSCHLUSS
 SCREW-IN TYPE ADAPTION

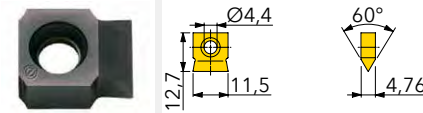


Artikel-Nr. Designation	D	d	LT	L	L1	M	Std.-Gew.	Z	WSP			Passende WSP Related Insert
17Y1B038050X8R00	38	29	58,381	32	34,3	M16	43-51	3	XNL323	✓	0,19	A B
17Y1B041055X8R00	41	29	58,381	32	34,3	M16	52-63	4	XNL323	✓	0,20	C D
17Y1E051064X8R00	51	29	69,175	42	45,1	M16	64-76	4	XNL434	✓	0,31	E F

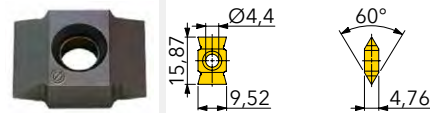
A XNL323-100



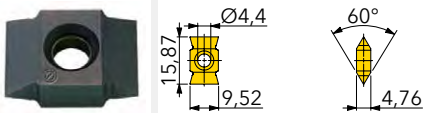
B XNL323-101



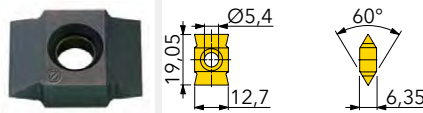
C XNL323-102



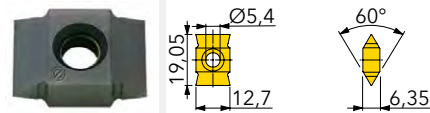
D XNL323-103



E XNL434-100



F XNL434-101



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN0545							
XNL323-100	0,05/0,1	für Steigung 1,5 - 2,5 mm / for pitch 1,5-2,5									
XNL323-101	0,05/0,1	für Steigung 2 - 5 mm / for pitch 2-5									
XNL323-102	0,05/0,2	für Steigung 1,5 - 2,5 mm / for pitch 1,5-2,5									
XNL323-103	0,05/0,2	für Steigung 2 - 5 mm / for pitch 2-5									
XNL434-100	0,08/0,25	für Steigung 1,5 - 3,2 mm / for pitch 1,5-3,2									
XNL434-101	0,08/0,25	für Steigung 3,0 - 6,5 mm / for pitch 3-6,5									

● = P ● = M ● = K ● = N ● = S ○ = H

ZUBEHÖR
 SPARE PARTS

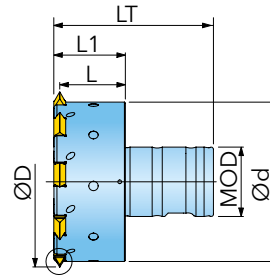


WSP Typ / Insert Type

XNL323	SM40-090-00 (4,5Nm)	DS-T15S
XNL434	SM50-160-00 (6,0Nm)	DS-T15S

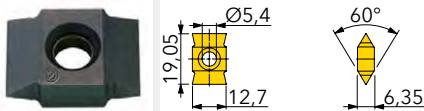
① = Spannschraube / Insert screw ② = Schraubendreher / Screw driver

MODULARE INNOFIT AUFNAHME
 MODULAR MILLING ADAPTOR INNOFIT

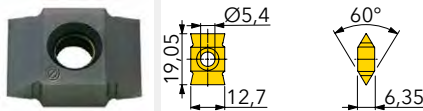


Artikel-Nr. Designation	D	d	LT	L	L1	MOD	Std.-Gew.	Z	WSP	IK	kg	Passende WSP Related Insert
17Y1E060064Z4R00	60	50	73,175	35	38,1	40	77-95	5	XNL434	✓	1,10	A B
17Y1E080064Z4R00	80	69	73,175	35	38,1	40	96-115	8	XNL434	✓	0,62	A B
17Y1E096064Z5R00	96	85	85,175	35	38,1	50	116-141	9	XNL434	✓	1,80	A B
17Y1E112064Z5R00	112	101	95,175	45	48,1	50	142-	11	XNL434	✓	3,10	A B
17Y1L112010Z5R00	112	95,5	96,763	45	49,7	50	142-	11	XNL446	✓	2,70	C D

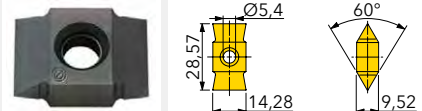
A XNL434-100



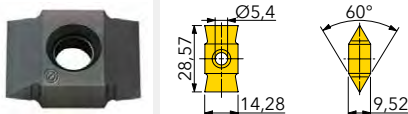
B XNL434-101



C XNL446-100



D XNL446-101



Artikel-Nr. Designation	fz(min/max)	Ausführung Design	Qualität Grade	IN0545						
XNL434-100	0,08/0,25	für Steigung 1,5 - 3,2 mm / for pitch 1,5-3,2								
XNL434-101	0,08/0,25	für Steigung 3,0 - 6,5 mm / for pitch 3-6,5								
XNL446-100	0,1/0,3	für Steigung 4 - 6,5 mm / for pitch 4-6,5								
XNL446-101	0,1/0,3	für Steigung 6 - 10 mm / for pitch 6-10								

● = P ● = M ● = K ● = N ● = S ○ = H

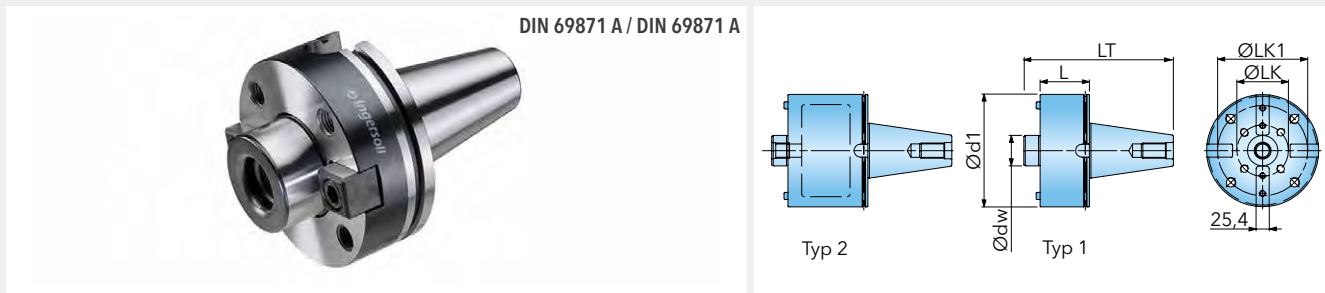
ZUBEHÖR
 SPARE PARTS




WSP Typ / Insert Type

XNL434	SM50-160-00 (6,0Nm)	DS-T15S
XNL446	SM50-190-00 (6,0Nm)	DS-T15S

① = Spannschraube / Insert screw ② = Schraubendreher / Screw driver



Artikel-Nr. Designation	dw	d1	LT	L	LK	LK1	SK	
69871A50FM128SA50	60	128	151,75	50	101,6	-	50	6,60
69871A50FM128SA100	60	128	201,75	100	101,6	-	50	11,70
69871A50FM128SA160	60	128	261,75	160	101,6	-	50	17,70
69871A50FM128SA250	60	128	351,75	250	101,6	-	50	26,80
69871A50FM155SA50	60	155	151,75	50	101,6	-	50	8,10
69871A50FM155SA100	60	155	201,75	100	101,6	-	50	15,50
69871A50FM155SA160	60	155	261,75	160	101,6	-	50	24,40
69871A50FM155SA250	60	155	351,75	250	101,6	-	50	37,70
69871A50FM221SA50	60	221	151,75	50	101,6	177,8	50	12,80
69871A50FM221SA100	60	221	201,75	100	101,6	177,8	50	27,90
69871A50FM221SA160 ¹⁾	60	221	261,75	160	101,6	177,8	50	38,30
69871A50FM221SA250 ¹⁾	60	221	351,75	250	101,6	177,8	50	51,80
69871A60FM155SA50	60	155	211,8	50	101,6	-	60	14,80
69871A60FM155SA100	60	155	261,8	100	101,6	-	60	22,20
69871A60FM155SA160	60	155	321,8	160	101,6	-	60	31,10
69871A60FM155SA250	60	155	411,8	250	101,6	-	60	44,40
69871A60FM221SA50	60	221	211,8	50	101,6	177,8	60	19,50
69871A60FM221SA100	60	221	261,8	100	101,6	177,8	60	34,60
69871A60FM221SA160 ¹⁾	60	221	321,8	160	101,6	177,8	60	45,00
69871A60FM221SA250 ¹⁾	60	221	411,8	250	101,6	177,8	60	58,50

¹⁾Typ 2 Hohlkörper

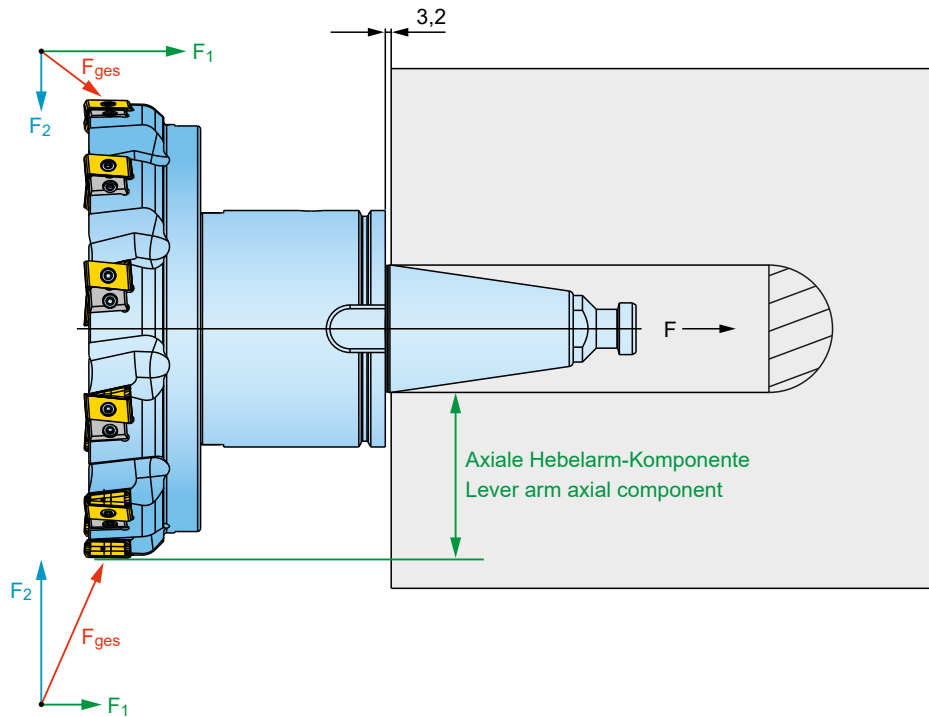
ZUBEHÖR
SPARE PARTS



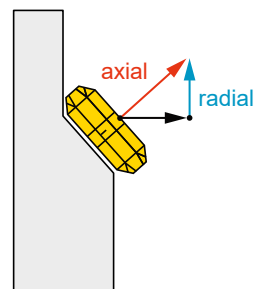
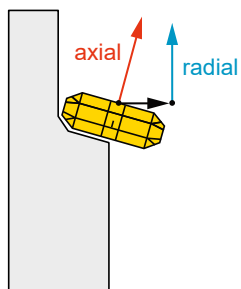
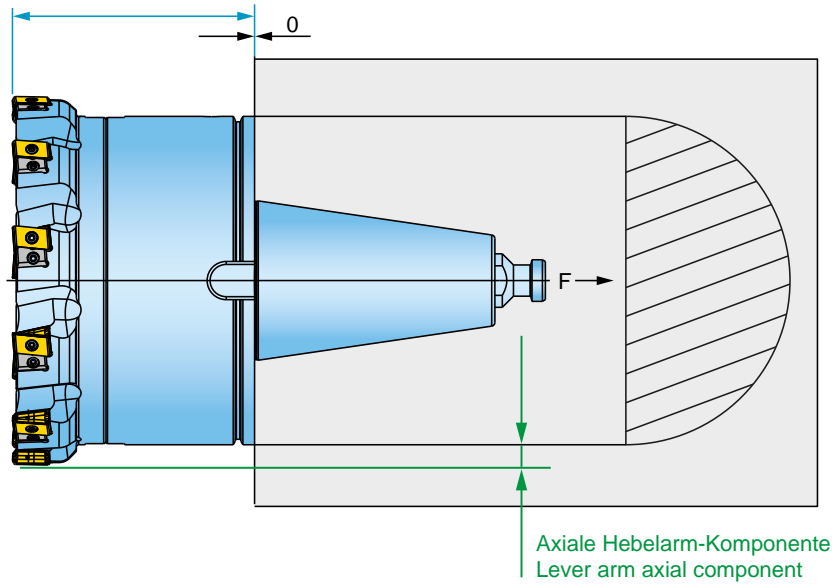
Z01

① = Anzugsbolzen DIN_/ISO_/ Draw bolt DIN_/ISO_

DIN / ISO-Kegel überträgt die Kräfte eines großen Wz.-Ø mittels Hebelarm / DIN / ISO-taper transfers forces of a big tool dia by lever arm



Radiale Hebelarm-Komponente
Lever arm radial component



■ ALLGEMEINE VERKAUFSBEDINGUNGEN / GENERAL TERMS OF SALE AND DELIVERY

Unsere Leistungen und Lieferungen erfolgen ausschließlich auf der Grundlage unserer Allgemeine Geschäfts- und Lieferbedingungen. Diese sind Vertragsbestandteil. Diese gelten auch für alle künftigen Geschäfte, soweit es sich um solche gleicher Art handelt. Der Kunde bestätigt mit seiner Vertragserklärung zum Abschluss des Vertrags, unsere Allgemeine Geschäfts- und Lieferbedingungen zur Kenntnis genommen zu haben. Der Kunde bestätigt mit seiner Vertragserklärung zum Abschluss des Vertrags, mit der Einbeziehung unserer Allgemeine Geschäfts- und Lieferbedingungen in den Vertrag und mit deren Inhalt Einverstanden zu sein.

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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 section 'Others' and then 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.



Ingersoll Werkzeuge ist weltweit präsent - auf Messen und Kongressen der Zerspanungs- und Maschinenindustrie sowie auf Hausmessen führender Maschinenhersteller.

Um den direkten Kontakt zu unseren Kunden intensiver zu gestalten, veranstalten wir in unseren Kundencentern in Haiger und Horrheim/Deutschland und Rockford/USA spezielle Seminare und anwendungsbezogene Schulungen.

Aktuelle Termine und Informationen zu unseren Seminaren finden Sie unter: www.ingersoll-imc.de und www.ingersoll-imc.com



CUSTOMERS - INTENSIFY CONTACTS



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



Ingersoll ist ein weltweit operierender Hersteller von Fräs-, Bohr-, Dreh- und Stechwerkzeugen für die anspruchsvolle Zerspanung.

Von unseren Hauptproduktionsstätten in Haiger und Horrheim in Deutschland sowie in Rockford in den USA werden die internationalen Märkte flächendeckend beliefert. Die Vorortberatung und -betreuung sichert ein Netzwerk an erfahrenen und qualifizierten Vertretungen in über 45 Ländern. Unsere Kunden verfügen somit über das komplette Leistungs- und Servicespektrum von Ingersoll – wo immer sie auch produzieren.



Marketing Standort Haiger (Deutschland)



Marketing office Rockford (USA)

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.

Ingersoll Cutting Tools

Marketing- & Technologie-Standorte

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