



WINSFEED

TMMODULAR
EXCHANGEABLE HEAD SYSTEM

MODULAR TYPE SHANKS FOR VARIOUS TURNING APPLICATIONS

- Excellent machining stability
- Very strong increase in productivity
- Compatible with T-ABSORBER heads
- Excellent chip evacuation
- Y-axis turning heads

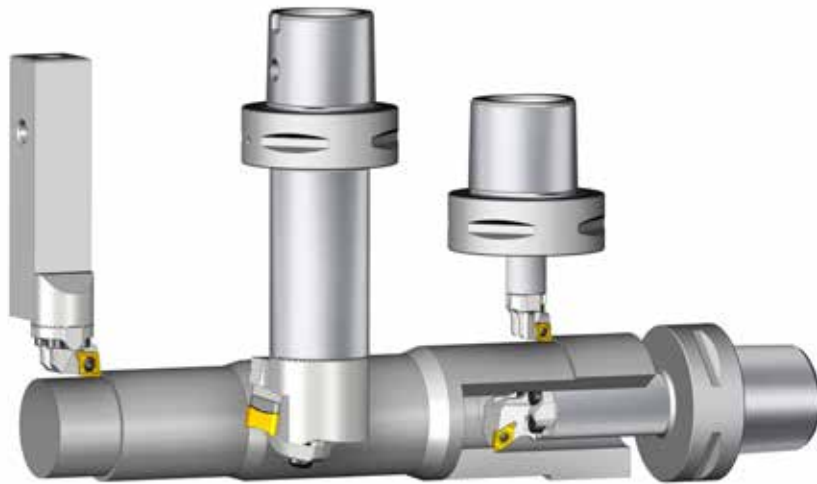


Product Overview

New T-MODULAR line of head changeable shanks for various turning operations.

Ingersoll has introduced a new modular type of head changeable holders compatible with both external and internal turning applications. The line is available in two modular types: a square shank for external turning and a C-adapter for internal, external and Y-axis operations. In addition, the current T-ABSORBER head can be mounted to the T-MODULAR shanks, thereby widening the range of applications even further.

The T-MODULAR's Y-axis turning head provides excellent machining stability and a dramatic productivity increase. Further, the new Y-axis head demonstrates high performance machining as it is compatible with our TNMV and ZNMV insert lines.



Head changeable T-MODULAR shanks

Square shanks

TMODULAR



C-Adapter shanks

TMODULAR



DTA shank features

- Square type modular shank for external turning
- Compatible with **T-ABSORBER** heads
- Available shank sizes: 20x20, 25x25, 32x32, 40x40 mm
- One holder for both right and left handed machining



DTA-2525N-D32-TB

1 2 3 4 5

1: T-MODULAR square shank
3: Hand type (N: Neutral)
5: CoolBurst

2: Shank size (Height x Width)
4: Head connection size (Ø20, 25, 32, 40 mm)

C...DTA shank features

- **C-Adapter** type modular shank for external, internal and Y-axis turning
- Compatible with existing **T-ABSORBER** heads and the new **T-MODULAR** Y-axis turning heads
- Available shank diameter sizes: Ø16, 20, 25, 32, 40 mm
- One holder for both right and left handed machining



















C6-DTA-D32A-4D

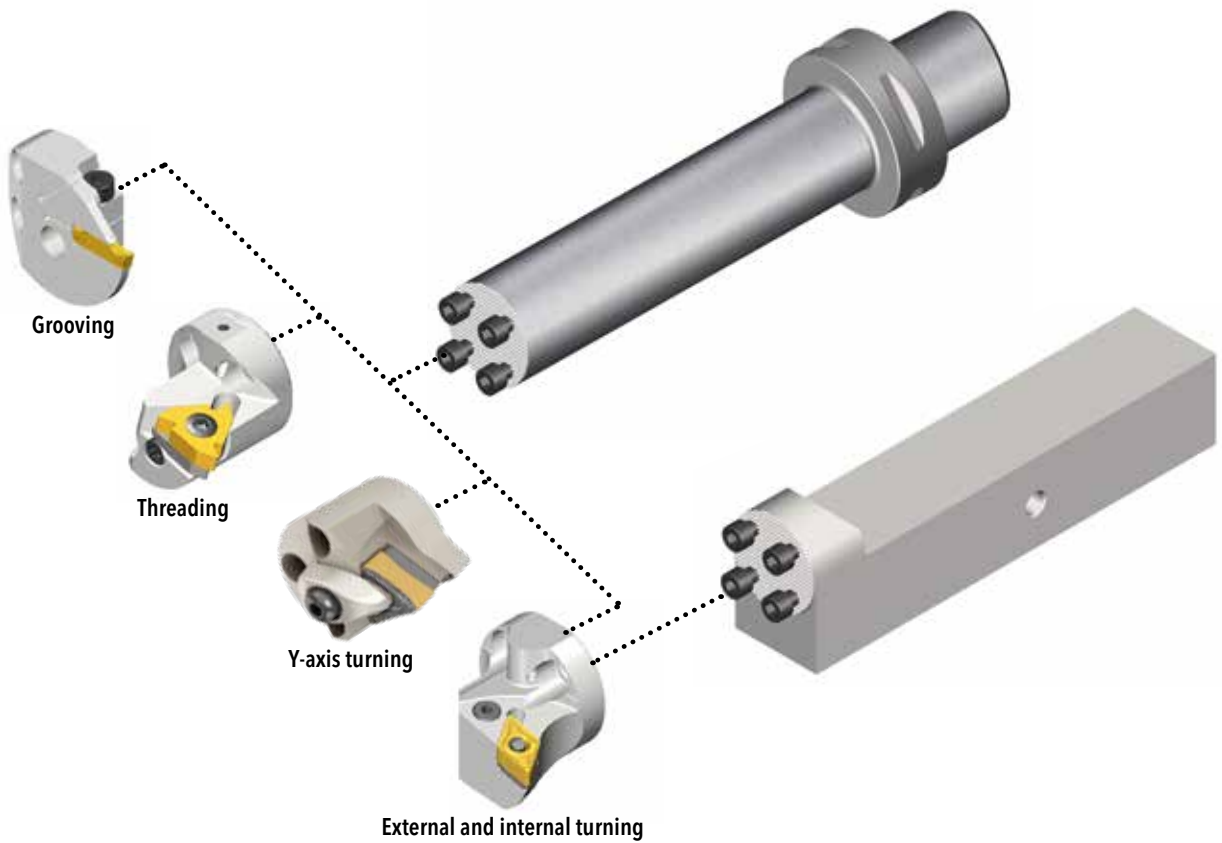
1 2 3 4 5

1: C-Adapter size
3: Shank size (Ø16, 20, 25, 32, 40 mm)
5: Tool length (2.5xBD, 3xBD, 4xBD, 5xBD)

2: T-MODULAR C-Adapter shank
4: Shank type (A: Steel, E: Carbide core)

Heads by application

| For external and internal turning | | | | | |
|--|--|---|---|--|--|
|  TABSORBER DTC-HCLNR/L |  TABSORBER DTC-HDUNR/L |  TABSORBER DTC-HVUNR/L |  TABSORBER DTC-SCLCR/L |  TABSORBER DTC-SCLNR/L |  TABSORBER DTC-SDUCR/L |
|  TABSORBER DTC-SDUNR/L |  TABSORBER DTC-STFCR/L |  TABSORBER DTC-SVUBR/L |  TABSORBER DTC-SWLNRL/L |  TABSORBER DTC-SXUNR/L |  TABSORBER DTC-TCLNR/L |
| For threading | For grooving | For Y-axis turning | | | |
|  TABSORBER DTC-SIR/L |  TABSORBER DTC-TTIR/L |  NEW TMODULAR DTC-D..Y-TTXNN |  NEW TMODULAR DTC-D..Y-TZXNN | | |



DTC-D.Y head features

• **Y-axis turning heads**

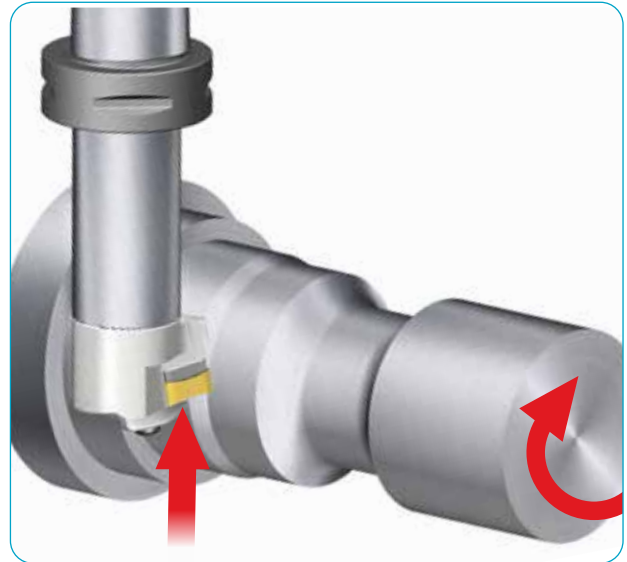
- High rigidity head design enables excellent machining stability

General Turning



Perpendicular cutting force to the holder: **Vibration**

Y-axis Turning



Parallel cutting force to the holder: **Stable machining**

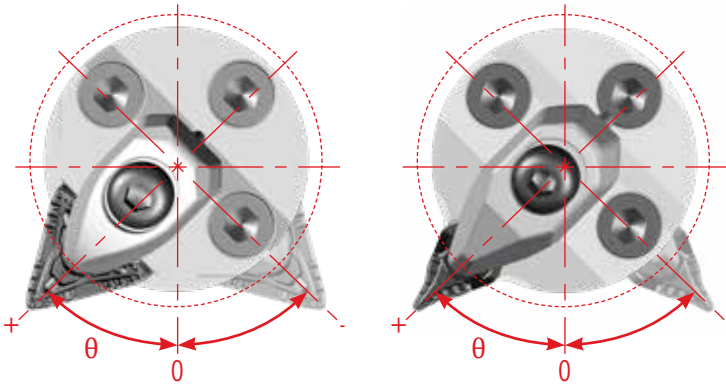
- Excellent chip evacuation design minimizes workpiece damage by chips

Y-axis turning means chips fall to the ground thus avoiding collision with the workpiece



Technical Features & Advantages

- Compatible with the TNMV and ZNMV high productivity insert lines
- Maximize productivity by applying one tool to all turning applications

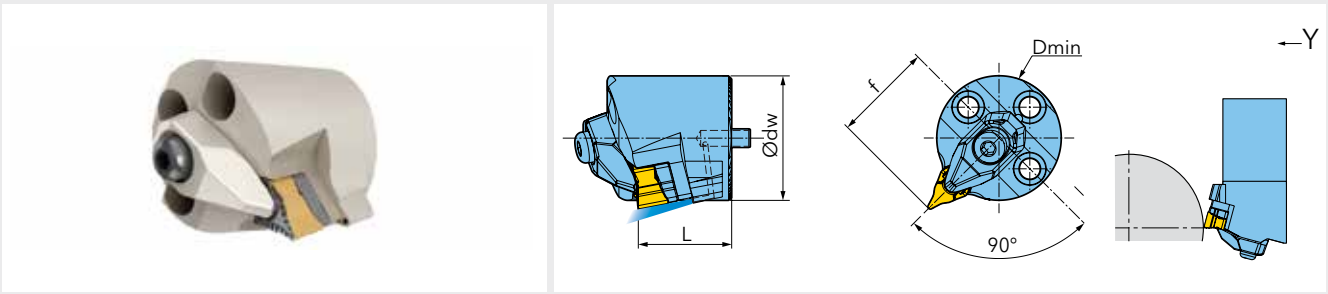


Various applications

| TNMV inserts and Y-TXNN holder | | | |
|---|---|--|---------------------------------------|
| High feed backward turning $\theta = 45^\circ$ | Profiling $\theta = 45 \sim -45^\circ$ | Forward turning $\theta = 45^\circ$ | Forward facing $\theta = 45^\circ$ |
| | | | |

| ZNMV inserts and Y-TZXNN holder | | | |
|---|-------------------------------------|--|--|
| High feed backward turning $\theta = 45^\circ$ | Undercutting $\theta = 45^\circ$ | Grooving and turning $\theta = 0^\circ$ | Forward turning $\theta = 20^\circ$ |
| | | | |

EXCHANGEABLE HEAD FOR TURNING WITH Y-AXIS FOR NEGATIVE ZNMV INSERTS



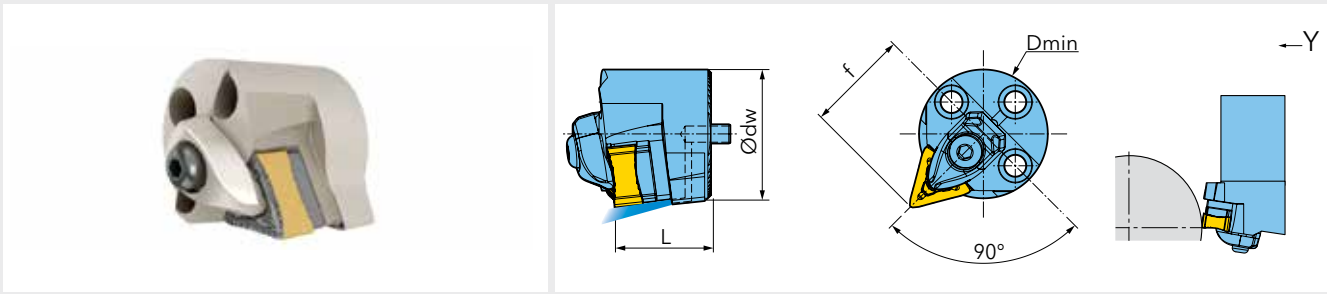
| Designation | D min. | dw | L | f | | |
|------------------------|--------|----|----|----|-------|---|
| DTC-D40Y-TZXNN-1410-TB | 40 | 40 | 30 | 32 | 0,335 | ✓ |

| Designation | | | | | | | | |
|------------------------|------------|-------------|-------|-------|------------|--------------|-------|------|
| DTC-D40Y-TZXNN-1410-TB | ZNMV 1410_ | DLM 3.3Z-NV | DLS 5 | DSP 5 | TSZ 140310 | TS 35083I/HG | L-W 4 | T 10 |

① = clamp ② = clamp screw ③ = spring ④ = shim ⑤ = insert screw ⑥ = wrench ⑦ = wrench

TMODULAR DTC-TTXNN-TB

EXCHANGEABLE HEAD FOR DRILLING WITH Y-AXIS
FOR NEGATIVE 60° TNMV INSERTS

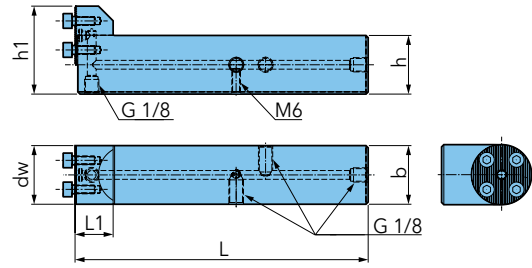


| Designation | D min. | dw | L | f | kg | IK |
|------------------------|--------|----|----|----|-------|----|
| DTC-D40Y-TTXNN-2109-TB | 40 | 40 | 30 | 32 | 0,335 | ✓ |

| Designation | | | | | | | | |
|------------------------|------------|-------------|-------|-------|-------------|--------------|-------|------|
| DTC-D40Y-TTXNN-2109-TB | TNMV 2109_ | DLM 4.4T-NV | DLS 5 | DSP 5 | TSTV 210510 | TS 35083I/HG | L-W 4 | T 10 |

① = clamp ② = clamp screw ③ = spring ④ = shim ⑤ = insert screw ⑥ = wrench ⑦ = wrench

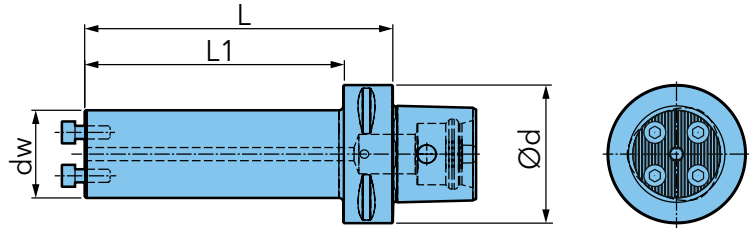
SHANK ADAPTION FOR MODULAR HEADS



| Designation | 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 ② = adjusting screw ③ = plug ④ = wrench

CAPTO ADAPTION FOR MODULAR HEADS



| Designation | 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 ② = wrench