

TDC

Feature

ZANHO TDC series is a professional **Flat-top Carbide Insert** designed for versatile **Grooving, Parting-off, and Turning** operations. With a precision-ground flat edge and optimized chip control, it excels in internal and face grooving applications. Available in widths from 2.0mm to 6.0mm, it ensures high stability, clean evacuation, and exceptional surface finish even in demanding steel machining environments. Universal geometry ensures compatibility with standard grooving tool holders.

Descriptions

Key Features & Applications

- **Multi-Functional Performance:** Highly efficient for grooving, parting, and turning in one setup, reducing cycle time.
- **Flat-Top Design (TDC):** Optimized for smooth surface finishing and high dimensional precision across various groove widths.
- **Advanced Internal & Face Grooving:** Specialized geometry for deep internal grooves and face grooving with excellent chip evacuation.
- **Durable Carbide Grade:** Enhanced wear resistance ensures longer tool life and consistent results in carbon and alloy steel.

TDC Dimensions (mm)

Model Number	Width (W)±0.05	Height (M)	Length (L)	Radius (R)	Thickness (t)	Side Width (S)
TDC 2	2.0	1.7	20.0	0.2	3.98	5.2
TDC 3	3.0	2.4	20.0	0.2	4.10	5.45
TDC 4	4.0	3.0	20.0	0.3	4.10	5.45
TDC 5	5.0	4.0	25.0	0.3	4.92	6.35
TDC 6	6.0	5.0	25.0	0.3	4.85	6.40

Internal Grooving Min. Diameter (mm)

Process	Insert Type	Insert Width	Min. Machining Diameter (Dmin)
Internal Grooving	TDC (Straight)	2	40
		3	50
		4	50
		5	60
		6	60

Face Grooving Min. Diameter (mm)

Process	Insert Type	Insert Width	Min. Machining Diameter (Dmin)
Face Grooving	TDC (Straight)	3	54
		4	34
		5	49
		6	46

Precision Machining, Factory Direct

ZANHO TDC series inserts are compatible with major brand holders. Contact us for bulk discount quotes or technical consultation on grooving depth and feed rates.