

TDT

ZANHO Cutting Tools



TDT

—— carbide Inserts ——

Feature

ZANHO **TDT series**: Double-ended **precision-pressed inserts** optimized for external grooving and lateral profiling. The unique **T-type island chipbreaker** ensures stable chip curling in narrow

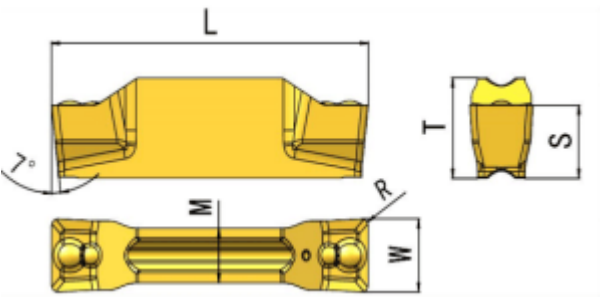
spaces, preventing chip packing. Engineered for **high-precision bearing grooves** and complex contouring with a strict width tolerance of $W\pm0.05\text{mm}$.

Descriptions

Technical Advantages

- **T-Type Island Chipbreaker:** Specialized island structure provides multi-directional chip control, specifically solving chip packing issues in narrow or complex profiling spaces.
- **Profiling Excellence:** Optimized for lateral profiling within grooves and high-efficiency contouring, ideal for bearing housing and shaft seal applications.
- **High Precision Tolerance:** Strict manufacturing standards achieve a width tolerance of $W\pm0.05\text{mm}$, ensuring consistent groove accuracy for high-end components.
- **Double-Ended Economy:** Symmetrical design allows both ends to be used, providing superior tool economy and minimizing machine downtime.
- **Superior Finish:** Designed for semi-finishing to medium load operations, delivering high surface quality in carbon steel, alloy steel, and mold steel.

Technical Specifications (mm)



Model Type	Width ($W\pm0.05$)	M	Length (L)	Radius (R)	t	S
TDT 3E-0.4	3.0	2.2	20.0	0.4	5.5	4.0
TDT 4E-0.4	4.0	3.0	20.0	0.4	5.5	4.0

Min Processing Diameter (mm)

Face Grooving Min Ø

W3: 41mm | W4: 36mm | W5: 54mm | W6: 48mm

Internal Grooving Min Ø

W2: 41mm | W3: 38mm | W4: 38mm | W5: 43mm | W6: 46mm

Precision Contouring for High-Performance Parts

ZANHO TDT series is the reliable choice for bearing groove profiling. Contact us for bulk B2B pricing and tool holder compatibility.