TaeguTec Parting & Grooving Line

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# NPN

New Product News

new

COOLBURST
PINPOINTED COOLANT

## New High Pressure Coolant Line for Parting and Internal Grooving Applications



ADVANCE MACHINING
TaeguTec Industry 4.0

INDUSTRY 4.0
TaeguTec
Member IMC Group

# KEY POINT

**High pressure coolant COOL-BURST line heightens T-CLAMP family with release of two new tools.**

TaeguTec has added new parting and grooving blades as well as internal boring bars to the **COOL-BURST** product line expanding the capabilities of the T-CLAMP family of cutting tools.

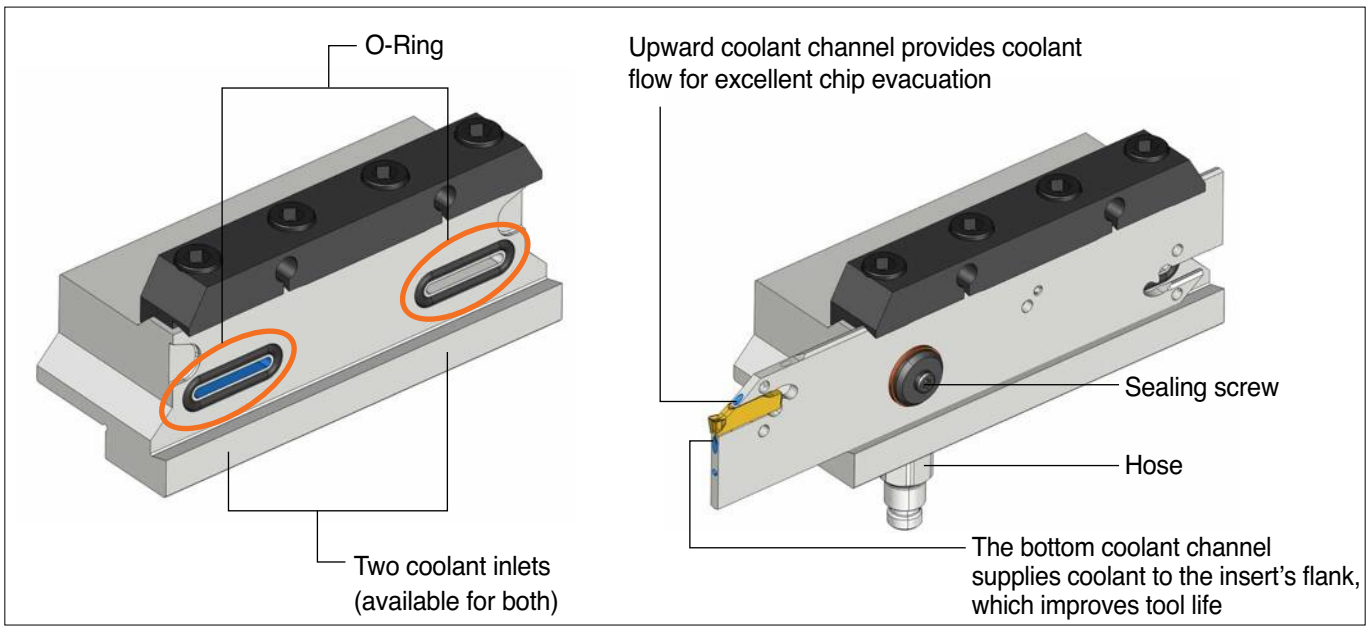
**TGB-TB** blades are designed for parting and deep grooving applications. The new blade includes upper and lower coolant channels for superior chip evacuation and insert tool life.
The speed and feed can be increased, resulting in reduced machining time and a significant increase in productivity with longer service life.
Moreover, tool life is increased even under normal coolant pressure conditions. The new **COOL-BURST** line can withstand coolant pressure of up to 140 bar making it suitable for machining HRSA difficult-to-cut materials such as titanium and Inconel.

The **TTIR/L-TB** boring bar for internal grooving and boring includes two optimized coolant channels located on the top and the side.
With the use of coolant, this line achieves very smooth chip segmenting and chip evacuation during internal machining. Available in Ø20-32 shaft diameter range, the boring bar can be applied to 2-4 mm inserts while the bar's unique geometry design strengthens insert rigidity ensuring stable tool life.

For further technical questions, please contact TaeguTec's product manager.

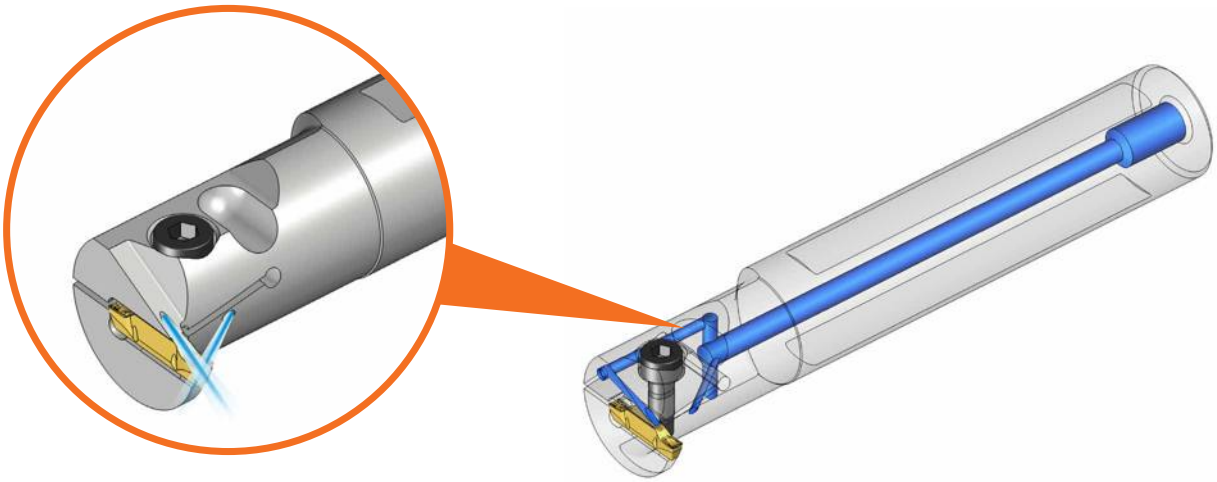
## TGB-TB blade features

- For parting and deep grooving applications
- 2 efficient coolant channels
- Recommended for machining HRSA difficult-to-cut materials such as titanium and Inconel
- Excellent chip evacuation and long tool life even in low feed rate machining
- Increased speed and feed reduces machining time and increases productivity
- Tool life increase even under normal coolant pressure conditions
- Up to 140 bar pressure
- Stable tool life even under higher feeds and speeds



## TTIR/L-TB boring bar features

- Ø20-32 boring bar range can be applied to 2-4 mm inserts
- Excellent chip evacuation design during internal machining eliminates troubleshooting caused by chips during operation
- Increased tool life for internal grooving and boring applications due to 2 coolant channels
- Boring bar's unique geometry design enhances tool stiffness and clamping force
- Up to 140 bar pressure
- Boring bar's unique design enhances insert rigidity for stable tool life



✓ Upper and lower coolant channels
✓ Increased clamping force due to the dimple design on top of the holder

# TGB-TB

## Blades for parting and deep grooving with high pressure coolant

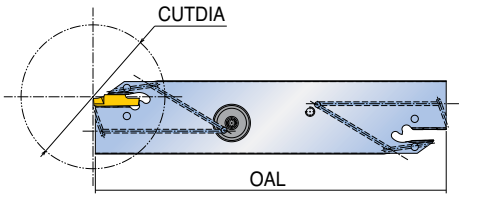




Fig.1

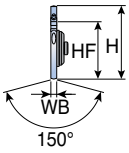
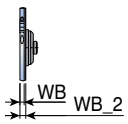



Fig.2




| Designation | | Insert seat size | Dimension (mm) | | | | | | Fig. | Block | Insert |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | H | HF | OAL | WB | WB_2 | CUTDIA | | | |
| **TGB** | **32-2-TB** | 2 | 32 | 24.9 | 150 | 1.8 | 2.5 | 50 | 2 | TTBU..-TB | TDC / J / T<br>TDXU / XT / XY<br>TSC / J<br>TDUF / TDV |
| | **32-3-TB** | 3 | 32 | 24.9 | 150 | 2.5 | - | 100 | 1 | TTBU..-TB | |
| | **32-4-TB** | 4 | 32 | 24.9 | 150 | 3.2 | - | 100 | 1 | TTBU..-TB | |
| | **32-5-TB** | 5 | 32 | 24.9 | 150 | 4.0 | - | 120 | 1 | TTBU..-TB | |
| | **32-6-TB** | 6 | 32 | 24.9 | 150 | 5.2 | - | 120 | 1 | TTBU..-TB | |
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| | | 70 bar flow rate (ℓ/min) | 100 bar flow rate (ℓ/min) | 140 bar flow rate (ℓ/min) |
|---|---|---|---|---|
| **TGB** | **32-2-TB** | 10-12 | 12-14 | 15-17 |
| | **32-3-TB** | 19-21 | 23-25 | 27-29 |
| | **32-4-TB** | 24-26 | 29-31 | 35-37 |
| | **32-5-TB** | 24-26 | 29-31 | 35-37 |
| | **32-6-TB** | 24-26 | 29-31 | 35-37 |
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## Spare parts

| Designation | Extractor | Sealing screw set | | | |
|---|---|---|---|---|---|
| |  |  | | | |
| **TGB-TB** | EDG 33B | SGC 340 | | | |
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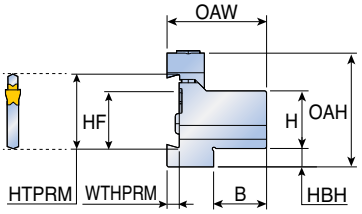
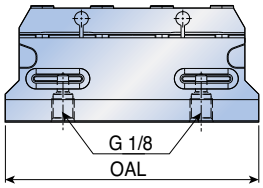
• Extractor should be ordered separately

# TTBU-TB

## Blocks for blades with high pressure coolant


| Designation | Dimension (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | HTPRM | HF | H | HBH | OAH | WTHPRM | OAL | B | OAW |
| **TTBU 20-32-TB** | 32 | 24.8 | 20 | 15 | 36.4 | 5.3 | 100 | 19 | 39.2 |
| **25-32-TB** | 32 | 24.8 | 25 | 8 | 41.4 | 5.3 | 110 | 23 | 43.2 |
| **32-32-TB** | 32 | 24.8 | 32 | 5 | 48.4 | 5.3 | 110 | 29 | 49.2 |
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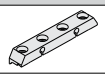
## Spare parts

| Designation | Screw | Clamp | O-ring | Wrench | |
|---|---|---|---|---|---|
| |  |  |  |  | |
| **TTBU 20-32-TB** | SR M6X16 DIN912 | BKU 100 | O-RING ID14X2.5 | L-W 5 | |
| **TTBU 25-32-TB** | SR M6X16 DIN912 | BKU 110 | O-RING ID14X2.5 | L-W 5 | |
| **TTBU 32-32-TB** | SR M6X16 DIN912 | BKU 110 | O-RING ID14X2.5 | L-W 5 | |
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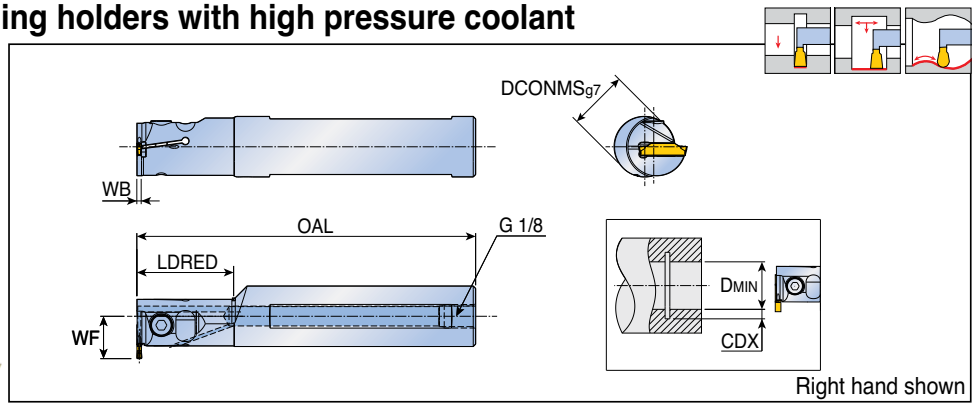
# TTIR/L-TB

## Internal grooving and turning holders with high pressure coolant


| Designation | | Insert seat size | Dimension (mm) | | | | | | | Insert |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | DCONMS | OAL | LDRED | WF | WB | CDX | DMIN | |
| TTIR/L | 20-2T06-TB | 2 | 20 | 120 | 40 | 17 | 1.8 | 6 | 27 | TDC / J / T<br>TDXU / XT / XY<br>TSC / J<br>TDUF / TDV |
| | 25-2T06-TB | 2 | 25 | 150 | 40 | 19.5 | 1.8 | 6 | 29 | |
| | 20-3T06-TB | 3 | 20 | 120 | 40 | 17 | 2.4 | 6 | 27 | |
| | 25-3T06-TB | 3 | 25 | 150 | 40 | 19.5 | 2.4 | 6 | 29 | |
| | 32-3T10-TB | 3 | 32 | 150 | 60 | 27 | 2.4 | 10 | 40 | |
| TTIR | 20-4T06-TB | 4 | 20 | 120 | 40 | 17 | 3 | 6 | 27 | |
| | 25-4T06-TB | 4 | 25 | 150 | 40 | 19.5 | 3 | 6 | 29 | |
| | 32-4T10-TB | 4 | 32 | 150 | 60 | 27 | 3 | 10 | 40 | |
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| | | 70 bar flow rate (ℓ/min) | 100 bar flow rate (ℓ/min) | 140 bar flow rate (ℓ/min) |
|---|---|---|---|---|
| TTIR/L | 20-2T06-TB | 12-14 | 15-17 | 18-20 |
| | 25-2T06-TB | 12-14 | 15-17 | 18-20 |
| | 20-3T06-TB | 14-16 | 17-19 | 21-23 |
| | 25-3T06-TB | 14-16 | 17-19 | 21-23 |
| | 32-3T10-TB | 14-16 | 17-19 | 21-23 |
| TTIR | 20-4T06-TB | 24-26 | 29-31 | 35-37 |
| | 25-4T06-TB | 24-26 | 29-31 | 35-37 |
| | 32-4T10-TB | 24-26 | 29-31 | 35-37 |
| | | | | |

## Spare parts

| Designation | Screw | Wrench | | | |
|---|---|---|---|---|---|
| |  |  | | | |
| TTIR/L-20-TB | SH M5X0.8X12 | L-W 4 | | | |
| TTIR/L-25/32-TB | SH M5X0.8X16 | L-W 4 | | | |
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