

# NPN

New Product News



## T-CLAMP

PARTING & GROOVING

### High Feed CBN Inserts for Hardened Materials



## KEY POINT

**TaeguTec has released T-Clamp CBN inserts for high feed turning and excellent machining surface finish of high-hardened workpiece materials.**

When excellent machining surface roughness is required in the high feed turning of high-hardened workpiece materials, the conventional solution is to use CBN turning inserts with a wiper. However, due to the excessive contact and bending by radial cutting forces at low depths of cut, there is a tendency to experience the issue of surface roughness deterioration of the workpiece.

To solve this problem, TaeguTec has developed a T-Clamp CBN insert which is designed to enable bi-directional high feed turning and obtain the effect of superior surface finish due to the natural bending of the T-Clamp holder during machining.

With a maximum feed rate from 0.8 to 1.2 mm/rev, this new line greatly contributes to the productivity improvement of high-hardened automotive parts such as shafts, gears and transmissions. Furthermore, it enables at least more than twice of the high feed machining performance when compared to conventional turning CBN wiper inserts.

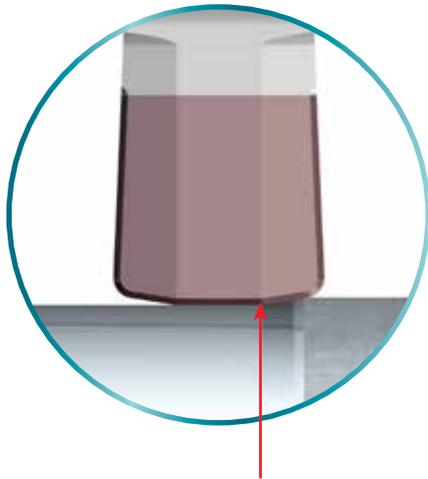
\* As part of the new campaign, the design for the new **T-CLAMP** line highlights TaeguTec's new direction.

### Features

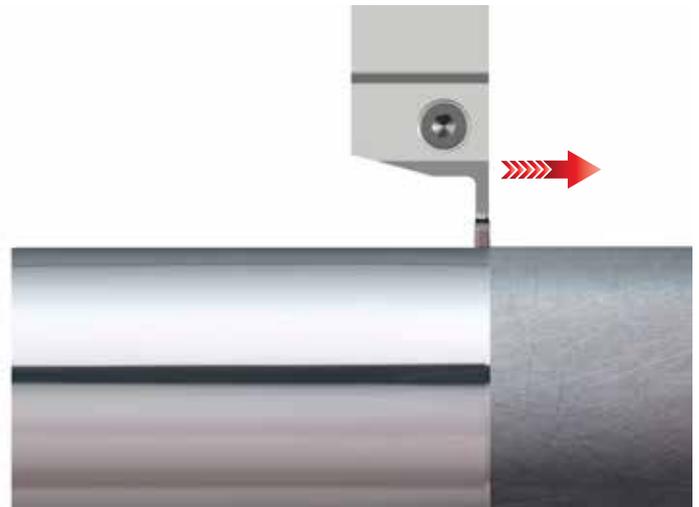
- T-Clamp CBN inserts for high feed turning of high-hardened workpiece materials
- Inclined chip breaker for good chip control at shallow depths of cut up to 0.12 mm
- Optimized cutting edge design for high feed bi-directional turning
- Excellent surface finish
- Significantly improved productivity with a maximum feed rate from 0.8 to 1.2 mm/rev
- TB2015 CBN grade
  - Excellent combination of high hardness and moderate fracture toughness
  - Continuous and light interrupted machining of hardened steel



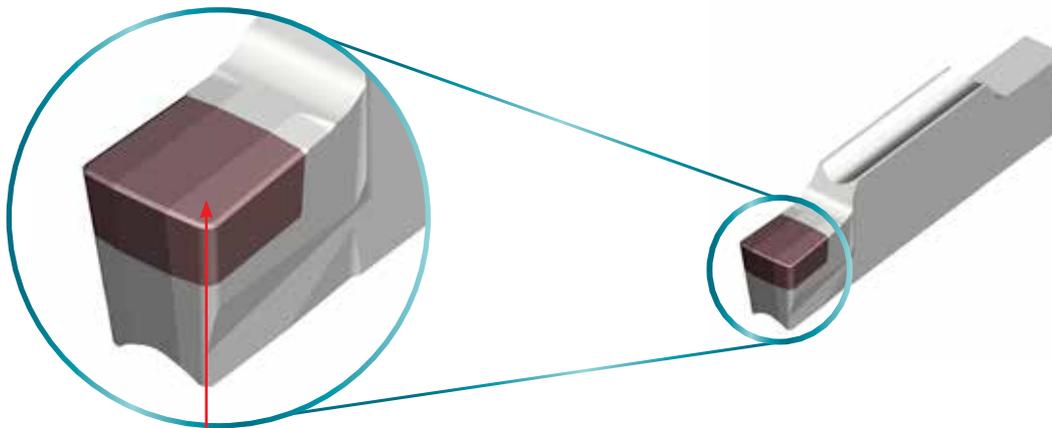
## Insert features



Optimized cutting edge design for high feed turning



High feed turning with excellent surface finish



Inclined chip breaker design for chip control at low depths of cut



## KIT COLLECTIONS

These kit products are available in the format listed below.



| Cat. No. | Designation                    | Bill of materials     | Qty. |
|----------|--------------------------------|-----------------------|------|
| 6334883  | <b>KISFT-TSG 3-HF-25R-3T20</b> | TTER 2525-3T20        | 1    |
|          |                                | TSG 3.0-0.3-HF TB2015 | 2    |
| 6334884  | <b>KISFT-TSG 5-HF-25R-5T20</b> | TTER 2525-5           | 1    |
|          |                                | TSG 5.0-0.3-HF TB2015 | 2    |



| Cat. No. | Designation                    | Bill of materials     | Qty. |
|----------|--------------------------------|-----------------------|------|
| 6337944  | <b>KISFS-TSG 3-HF-25R-3T20</b> | TTER 2525-3T20        | 1    |
|          |                                | TSG 3.0-0.3-HF TB2015 | 5    |
| 6337945  | <b>KISFS-TSG 5-HF-25R-5T20</b> | TTER 2525-5           | 1    |
|          |                                | TSG 5.0-0.3-HF TB2015 | 5    |