



**WINSFEED**

**TCLAMP<sup>ULTRA+</sup>**

GROOVING AND PROFILING CBN INSERTS  
FOR HARD MATERIAL MACHINING

## GROOVING AND PROFILING CBN INSERTS FOR HARD MATERIAL MACHINING

- Compatible with **TClamp<sup>Ultra+</sup>** holders for a diverse range of applications •
- Excellent surface finish •
- TB2015 grade •
- High wear resistance and optimal toughness •



## Product Overview

Ingersoll introduces TClamp<sup>Ultra+</sup> grooving and profiling CBN inserts for hard material machining

Ingersoll's TClamp<sup>Ultra+</sup> TB2015 grade CBN inserts provide excellent machining performance even in continuous as well as intermittent machining of hard materials. Following the current line of the high-feed turning TSG-HF insert, other TSG inserts suitable for grooving and profiling have been added to provide more diverse machining solutions for hard materials.



TSG



TSG (Full-Radius)



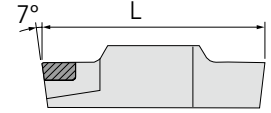
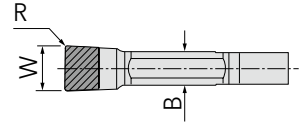
TSG-HF

## Features & Advantages

- Grooving and profiling CBN insert for hard material machining
- Compatible with TClamp<sup>Ultra+</sup> holders for a diverse range of applications
- Excellent surface finish
- TB2015 grade
  - CBN grade with high wear resistance and optimal toughness
  - Appropriate for intermittent and continuous cutting of hard materials

# TCLAMP<sup>ULTRA+</sup> TSG H

SINGLE-SIDED CBN INSERTS FOR TURNING AND GROOVING

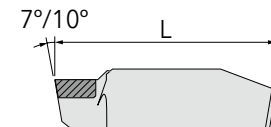
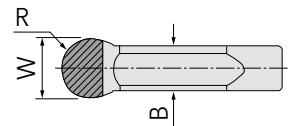
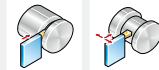


Designation	Z	R	B	L	W ± 0,02	insert-S	Grade	TB2015
TSG 3.00H-0.20	1	0,2	2,25	20	3,0	3		<input type="radio"/>
TSG 4.00H-0.20	1	0,2	3,0	20	4,0	4		<input type="radio"/>
TSG 5.00H-0.40	1	0,4	4,0	25	5,0	5		<input type="radio"/>
TSG 6.00H-0.40	1	0,4	5,0	25	6,0	6		<input type="radio"/>
TSG 8.00H-0.40	1	0,4	6,0	30	8,0	8		<input type="radio"/>

● = P ● = M ● = K ● = N ● = S ○ = H

# TCLAMP<sup>ULTRA+</sup> TSG H (FULL-RADIUS)

SINGLE-SIDED CBN INSERTS FOR FULL RADIUS TURNING AND GROOVING GRAD



Designation	Z	R	B	L	W ± 0,02	insert-S	Grade	TB2015
TSG 3.00H-1.50	1	1,5	2,4	20,0	3,0	3		<input type="radio"/>
TSG 4.00H-2.00	1	2,0	3,0	20	4,0	4		<input type="radio"/>
TSG 5.00H-2.50	1	2,5	4,0	25	5,0	5		<input type="radio"/>
TSG 6.00H-3.00	1	3,0	5,0	25	6,0	6		<input type="radio"/>
TSG 8.00H-4.00	1	4,0	6,0	30	8,0	8		<input type="radio"/>

● = P ● = M ● = K ● = N ● = S ○ = H

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**TCLAMP<sup>ULTRA+</sup>**