

NPA

New Product Announcement No. 2026-03



T-CLAMP
PARTING & GROOVING

CBN and PCD Inserts



KEY POINT

TaeguTec has expanded its single-ended insert line for turning, grooving, and profiling by introducing CBN and PCD inserts.

The CBN lineup for grooving and profiling hard materials now includes a 2 mm cutting width. Additionally, the enhanced PCD inserts deliver outstanding machining performance and superior surface finish in both continuous and interrupted cutting of non-ferrous metals.

Both CBN and PCD inserts are available in cutting widths of 2, 3, 4, 5, 6, and 8 mm. They are fully compatible with existing T-Clamp holders, supporting turning, grooving, and profiling across external, internal, and face applications.

For further inquiries, please contact the product manager.

Features

- Single-ended inserts for grooving and profiling
 - TSG: CBN inserts for hard material machining
 - TSA: PCD inserts for non-ferrous machining
- Cutting widths: 2, 3, 4, 5, 6, and 8 mm
- Compatible with existing T-Clamp holders
- Suitable for external, internal, and face applications
- Delivers excellent surface finish

Availability

In stock

Price

Available in the GAL system

Sincerely,
TaeguTec



Bae Dae-wi

Non-Rotating
Adviser

ADVANCECUTTING
TaeguTec

Sincerely,
TaeguTec



Cha Byung-jae

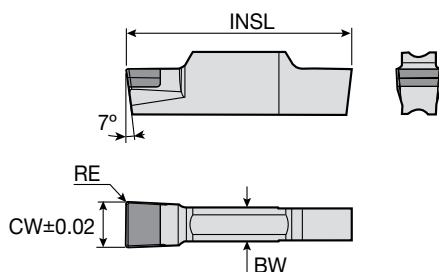
T-Clamp & Threading
Product Manager

 **TaeguTec**
Member IMC Group

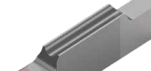
TSG



Single-ended CBN inserts for turning and grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
2	2.0	0.2	1.7	20.0
3	3.0	0.2	2.25	20.0
4	4.0	0.2	3.0	20.0
5	5.0	0.4	4.0	25.0
6	6.0	0.4	5.0	25.0
8	8.0	0.4	6.0	30.0

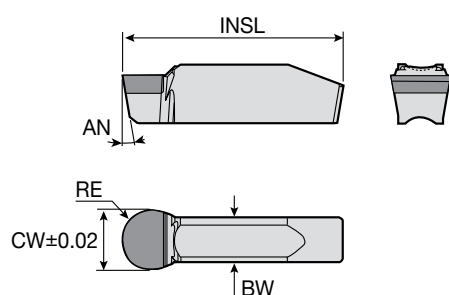
Insert	Designation	Insert seat size	Turning		Grooving	CBN						PCD		
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TB610	TB650	TB670	TB2015	TB7015	TB7020	TD1010	TD1020	TD1030
	TSG 2.00H-0.20 new	2	0.0-0.3	0.02-0.07	0.02-0.05				●					
	3.00H-0.20	3	0.0-0.3	0.02-0.07	0.02-0.05				●					
	4.00H-0.20	4	0.0-0.4	0.03-0.09	0.02-0.07				●					
	5.00H-0.40	5	0.0-0.5	0.05-0.13	0.03-0.10				●					
	6.00H-0.40	6	0.0-0.6	0.05-0.15	0.04-0.12				●					
	8.00H-0.40	8	0.0-0.8	0.07-0.20	0.05-0.16				●					

●: Standard items

TSG (Full-Radius)



Single-ended CBN inserts for turning, grooving and profiling



Size	Dimension (mm)				
	CW	RE	BW	INSL	AN
2	2.0	1.0	1.7	20.0	7
3	3.0	1.5	2.4	20.0	7
4	4.0	2.0	3.0	20.0	7
5	5.0	2.5	4.0	25.0	7
6	6.0	3.0	5.0	25.0	7
8	8.0	4.0	6.0	30.0	10

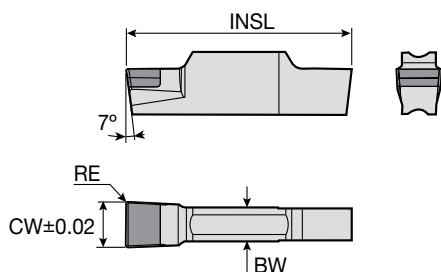
Insert	Designation	Insert seat size	Turning		Grooving	CBN					PCD			
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TB610	TB650	TB670	TB2015	TB7015	TB7020	TD1010	TD1020	TD1030
	TSG 2.00H-1.00 new	2	0.0-0.3	0.03-0.10	0.02-0.06				●					
	3.00H-1.50	3	0.0-0.3	0.03-0.10	0.02-0.06				●					
	4.00H-2.00	4	0.0-0.4	0.04-0.14	0.02-0.09				●					
	5.00H-2.50	5	0.0-0.5	0.05-0.18	0.03-0.11				●					
	6.00H-3.00	6	0.0-0.6	0.06-0.22	0.04-0.13				●					
	8.00H-4.00	8	0.0-0.8	0.08-0.29	0.05-0.17				●					

●: Standard items

TSA new



Single-ended PCD inserts for turning and grooving



Size	Dimension (mm)				
	CW	RE	BW	INSL	
2	2.0	0.2	1.7	20.0	
3	3.0	0.2	2.25	20.0	
4	4.0	0.2	3.0	20.0	
5	5.0	0.2	4.0	25.0	
6	6.0	0.2	5.0	25.0	

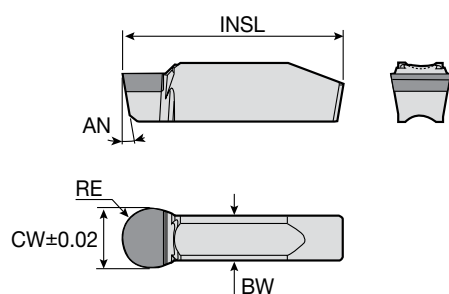
Insert	Designation	Insert seat size	Turning		Grooving	CBN						PCD		
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TB610	TB650	TB670	TB2015	TB7015	TB7020	TD1010	TD1020	TD1030
	TSA 2.00-0.20	2	0.2-1.2	0.10-0.22	0.07-0.13								●	
	3.00-0.20	3	0.2-1.8	0.12-0.25	0.08-0.14								●	
	4.00-0.20	4	0.5-2.4	0.14-0.31	0.10-0.20								●	
	5.00-0.20	5	0.5-3.0	0.16-0.34	0.11-0.23								●	
	6.00-0.20	6	0.5-3.6	0.19-0.41	0.11-0.20								●	

●: Standard items

TSA (Full-Radius)



Single-ended PCD inserts for turning, grooving and profiling



Size	Dimension (mm)				
	CW	RE	BW	INSL	AN
2	2.0	1.0	1.7	20.0	7
3	3.0	1.5	2.4	20.0	7
4	4.0	2.0	3.0	20.0	7
5	5.0	2.5	4.0	25.0	7
6	6.0	3.0	5.0	25.0	7
8	8.0	4.0	6.0	30.0	10

Insert	Designation	Insert seat size	Turning		Grooving	CBN						PCD		
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TB610	TB650	TB670	TB2015	TB7015	TB7020	TD1010	TD1020	TD1030
	TSA 2.00-1.00 new	2	0.0-1.0	0.07-0.20	0.05-0.12								●	
	3.00-1.50 new	3	0.0-1.5	0.10-0.25	0.05-0.15								●	
	4.00-2.00 new	4	0.0-2.0	0.18-0.35	0.08-0.18								●	
	5.00-2.50 new	5	0.0-5.5	0.20-0.42	0.10-0.20								●	
	6.00-3.00	6	0.0-3.0	0.26-0.72	0.13-0.36								●	
	8.00-4.00	8	0.0-4.0	0.24-0.67	0.14-0.38								●	

●: Standard items

Recommended Cutting Conditions

Grooving and Turning

ISO	Material		Condition	Tensile strength (N/mm ²)	Hardness HB	Material No.	Cutting speed Vc(m/min)	
							TD1020	TB2015
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1		
		>=0.25%C	Annealed	650	190	2		
		<0.55%C	Quenched and tempered	850	250	3		
		>=0.55%C	Annealed	750	220	4		
			Quenched and tempered	1000	300	5		
	Low alloy steel and cast steel (Less than 5% of alloying elements)	Annealed		600	200	6		
				930	275	7		
		Quenched and tempered		1000	300	8		
				1200	350	9		
	High alloy steel, cast steel and tool steel	Annealed		680	200	10		
		Quenched and tempered		1100	325	11		
M	Stainless steel and cast steel	Ferritic / martensitic		680	200	12		
		Martensitic		820	240	13		
		Austenitic		600	180	14		
K	Gray cast iron (GG)	Ferritic			160	15		
		Pearlitic			250	16		
	Cast iron nodular (GGG)	Ferritic			180	17		
		Pearlitic			260	18		
	Malleable cast iron	Ferritic			130	19		
		Pearlitic			230	20		
N	Aluminum - Wrought alloy	Not cureable			60	21	150-2500	
		Cured			100	22	150-2500	
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	150-2500	
			Cured		90	24	150-2500	
		>12% Si	High temp.		130	25	330-800	
	Copper alloys	>1% Pb	Free cutting		110	26		
			Brass		90	27	330-800	
			Electrolitic copper		100	28	190-400	
	Non-metallic	Duroplastics, fiber plastics			70 Shore D	29		
		Hard rubber			55 Shore D	30		
S	High temp. alloys	Fe based	Annealed		200	31		
			Cured		280	32		
		Ni or Co based	Annealed		250	33		
			Cured		350	34		
			Cast		320	35		
	Titanium, Ti alloys	Pure		Rm 400	190	36		
		Alpha+beta alloys cured		Rm 1050	310	37		
H	Hardened steel	Hardened			55HRC	38		90-110
		Hardened			60HRC	39		80-100
	Chilled cast iron	Cast			400	40		180-200
	Cast iron nodular	Hardened			55HRC	41		90-110

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel