

PARTING & GROOVING

INDUSTRY 4.0

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











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Insert Designation System	B110
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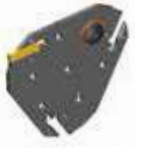

Tool Selection Guide

Parting and grooving holders

				CUTSPEED			
				SFGB	SFGB-TB	SFER/L	SFER/L-TB
Series							
Pages				B30	B31	B32	B33
Application	External	Parting		●	●	●	●
		Grooving		●	●	●	●
		Turning					
	Facing	Grooving					
		Turning					
	Internal	Grooving					
		Turning					
	Profiling						
	Threading						
	Undercut						

Tool Selection Guide















Parting and grooving holders

				
				
B34	B36	B37	B38	B39-B41
●	●	●	●	●
●	●	●	●	●

● Recommended, ○ Suitable


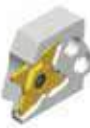




Tool Selection Guide

Parting and grooving holders

				T-CLAMP <small>FOR FINE & SUPERFINE</small>			
				<u>TGBFR/L</u>	<u>TGER/L</u>	<u>TCAER/L</u>	<u>TCAER/L-TB</u>
Series							
Pages				B42	B43	B47	B48
Application	External	Parting			●	●	●
		Grooving			●	●	●
		Turning				●	●
	Facing	Grooving		●			
		Turning					
	Internal	Grooving					
		Turning					
	Profiling				●	●	
	Threading						
	Undercut						

Tool Selection Guide











Parting and grooving holders

T-CLAMP <small>PARTING & GROOVING</small>	QUADRUSH <small>COOLBURST</small>		FLEXTURN <small>COOLBURST</small>		T-CLAMP <small>PARTING & GROOVING</small>
<u>TCAFR/L</u>	<u>TCAQR/L</u>	<u>TCAQR/L-TB</u>	<u>QE1 TTER/L</u> <u>QE1 TTER/L-TB</u>	<u>QE1 TQHR</u> <u>QE1 TQHR-TB</u>	<u>TTER/L-SH</u>
					
B49	B50	B51	B58- B59	B60	B63
	●	●	●	●	●
	●	●	●	●	●
	○	○	●	●	●
●					
●					
	○	○	●	○	●
	●	●		●	

● Recommended, ○ Suitable

Tool Selection Guide







Parting and grooving holders

Series			T-CLAMP <small>FOR FINE & SUPERFINE</small>				
			COOLBURST <u>TTER/L-SH-TB</u>	<u>TTER/L-D</u>	<u>TTER/L</u>	COOLBURST <u>TTER/L-TB</u>	
Pages			B64	B65-B66	B67-B68	B69	
Application	External	Parting		●	●	●	●
		Grooving		●	●	●	●
		Turning		●	●	●	●
	Facing	Grooving					
		Turning					
	Internal	Grooving					
		Turning					
	Profiling			●	●	●	●
	Threading						
	Undercut						

Tool Selection Guide

Parting and grooving holders

















<u>TTSER/L</u>	<u>TGFR/L</u>	<u>TTFR/L</u>	<u>TTFR/L-RN</u>	<u>TGFPR/L</u>	<u>TTFPR/L</u>
					
B70	B71	B72	B73-B74	B75	B76
○					
●	●			●	
●	○			○	
	●	●	●	●	●
	○	●	●	○	●
○					

● Recommended, ○ Suitable

Tool Selection Guide







Parting and grooving holders

				T-CLAMP <small>Parting & Grooving</small>			
				<u>TGIFR/L</u>	<u>TTFIR/L</u>	<u>TTIR/L-C</u> <u>TTIR/L</u>	COOLBURST <u>TTIR/L-TB</u>
Series							
Pages				B77	B78	B79-B80	B81
Application	External	Parting					
		Grooving					
		Turning					
	Facing	Grooving		●	●		
		Turning		○	●		
	Internal	Grooving				●	●
		Turning				●	●
	Profiling						
	Threading						
	Undercut						

Tool Selection Guide

Parting and grooving holders

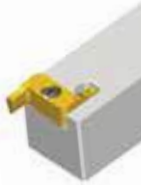


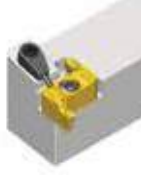










T-CLAMP
PARTING & GROOVING

<u>TTSIR/L</u>	<u>TGSIR/L</u>	<u>TGEUR/L</u>	<u>TGIUR/L</u>	<u>TTER/L-15A</u>	<u>TGIUR/L-15A</u>
					
B82	B83	B84	B85	B86	B87
●	●				
●			○		
				●	●
		●	●		

● Recommended, ○ Suitable






Tool Selection Guide

Parting and grooving holders

				<i>FACE RUSH</i>			
				<u>TXFR/L</u>	<i>COOLBURST</i> <u>TXFR/L-TB</u>	<u>TXFPR/L</u>	<i>COOLBURST</i> <u>TXFPR/L-TB</u>
Series							
Pages				B88	B89	B90	B91
Application	External	Parting					
		Grooving		○	○		
		Turning		○	○		
	Facing	Grooving		●	●	●	●
		Turning		●	●	●	●
	Internal	Grooving					
		Turning					
	Profiling						
	Threading			○	○		
	Undercut						

Tool Selection Guide















Parting and grooving holders

<i>T</i> GROOVE	<i>TOP</i> CUT		<i>QUAD</i> RUSH	
<u>TTLEN</u>	<u>TTVER/L</u>	<u>TTVBR/L</u>	<u>TQHR/L-20</u>	<i>COOL</i> BURST <u>TQHR/L-20-TB</u>
				
B92	B93	B94	B95	B96
	●		●	●
●	●		●	●
	●	●	●	●
			○	○
		●	●	●

● Recommended, ○ Suitable






Tool Selection Guide

Parting and grooving holders

				QUADRUSH			
				<u>TQBR/L-27</u>	<u>TQHR/L-27</u>	COOLBURST <u>TQHR/L-27-TB</u>	<u>TQHPR/L-27</u>
Series							
Pages				B97	B98	B99	B100
Application	External	Parting		●	●	●	●
		Grooving		●	●	●	●
		Turning			○	○	○
	Facing	Grooving					
		Turning					
	Internal	Grooving					
		Turning					
	Profiling				○	○	○
	Threading				●	●	●
	Undercut						

Tool Selection Guide

Parting and grooving holders

QUAD RUSH			QUAD RUSH	MINI RUSH
<u>TQHR/L-34</u>	COOLBURST <u>TQHR/L-34-TB</u>	<u>TQHPR/L-34</u>	<u>TQHIR/L</u>	<u>TMIHN</u> <u>TMIHN-C</u>
				
B101	B102	B103	B104	B105
●	●	●		
●	●	●		
○	○	○		
			●	●
			○	○
○	○	○		

● Recommended, ○ Suitable















Tool Selection Guide

Internal application by diameter

Internal diameter (mm)	TOP <i>MICRO</i>	MINI <i>RUSH</i>	TOP <i>CAP</i>	T- <i>CLAMP</i> <small>INTERNAL & EXTERNAL</small>	QUAD <i>RUSH</i>	T- <i>CLAMP</i> <small>INTERNAL & EXTERNAL</small>
	MIN	TMIHN	TCAP	TTSIR/L	TQHIR/L	TTIR/L
0						
0.6						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
12.5						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						

Tool Selection Guide

Parting and grooving inserts

			CUT SPEED				T-CLAMP <small>PARTING & GROOVING</small>															
			SFC		SFJ		TDC		TSC													
Series																						
Material			P	M	K	N	S	P	M	N	S	P	M	K	N	S	P	M	K	N	S	
Pages			B112				B112				B113				B114							
Application	External	Parting			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Grooving			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Turning																				
	Facing	Grooving							○													○
		Turning																				
	Internal	Grooving											○									○
		Turning																				
	Profiling																					
	Threading																					
	Undercut																					

● Recommended, ○ Suitable

Tool Selection Guide

Parting and grooving inserts

Series			T-CLAMP <small>PARTING & GROOVING</small>																	
			TDJ				TSJ				TDUF				TDV					
Material			P	M	N	S	P	M	N	S	P						P	M	N	S
Pages			B115				B116				B117				B117					
Application	External	Parting		●	●	●	●													
		Grooving		●	●	●	●													
		Turning																		
	Facing	Grooving		○	○	○	○													
		Turning																		
	Internal	Grooving		○	○	○	○													
		Turning																		
	Profiling																			
	Threading																			
	Undercut																			

Tool Selection Guide

Parting and grooving inserts

















TDXU	TDXT	TDXY	TDT	TDT (Round Type)	TDT - RS (Round Type)	TDT - RU (Round Type)
P M K N S	P M K N S	P M K S	P M K N S	P M K N S	P M K N S	P M K S
B118	B118	B119	B120-B121	B122	B122	B123
○	○	○	○			
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	○			
●	●	●	○			
●	●	●	○			
●	●	●	○			
				●	●	●
				●	●	●

● Recommended, ○ Suitable








Tool Selection Guide

Parting and grooving inserts

Series			T-CLAMP <small>PARTING & GROOVING</small>				
			TDFT	TDIT	TDIM	TDIP	
							
Material			P M K N S	P M K N S	P M K N	P M K N S	
Pages			B123	B124	B125	B125	
Application	External	Parting					
		Grooving				●	●
		Turning				○	○
	Facing	Grooving		●		○	○
		Turning		●			
	Internal	Grooving			●	●	●
		Turning			●	●	●
	Profiling					○	
	Threading						
	Undercut				○		

Tool Selection Guide















Parting and grooving inserts

T-CLAMP <small>PARTING & GROOVING</small>			FACE RUSH			T-GROOVE	TOP MICRO
TDA	TSA (PCD)	TSG-HF (CBN)	TDFX	TDGX	TGUX	MIN.	
							
N	N		H P M K N S	P M N S	P M K N	P M N S	
B126	B126	B126	B127	B127	B128	B132-B141	
○		○	○			●	
●		●	○				
			●				
			●				
							●
							●
●	●						●
				●			●
○							

● Recommended, ○ Suitable









Tool Selection Guide

Parting and grooving inserts

			TOPCUT		QUADRUSH			
			TV..	TQJ 20	TQS 20	TQS 20-MT		
Series								
Material			P M N S	P M N S	P M K N S	P M N S		
Pages			B143-B145	B147	B147	B148		
Application	External	Parting		●	●	●		
		Grooving		●	●	●		
		Turning		●	●	●		
	Facing	Grooving						
		Turning						
	Internal	Grooving						
		Turning						
	Profiling				○			
	Threading		●			●		
	Undercut							

Tool Selection Guide

Parting and grooving inserts

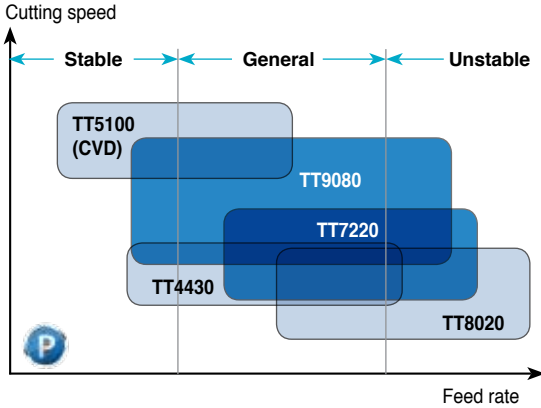
QUADRUSH					QUADRUSH	MINIRUSH	
TQJ 27	TQC 27	TQS 27	TQS 27-MT TQS 27-WT	TQS 27-ISO TQS 27-UN TQS 27-W	TQC 34	TQIS 14	TMIS 8
							
P M N S	P M K N S	P M K N S	P M N S	P M N S	P M K N S	P M K N S	P M K N S
B149-B151	B152-B153	B154	B155	B156-B157	B157-B159	B160	B161
●	●	●			●		
●	●	●			●		
●	●	●			●		
						●	●
						○	○
○	○	○			○		
			●	●			

● Recommended, ○ Suitable

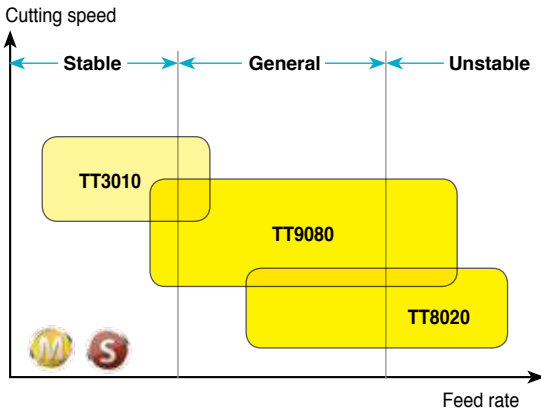
Grades

Selection guide for parting and grooving grades

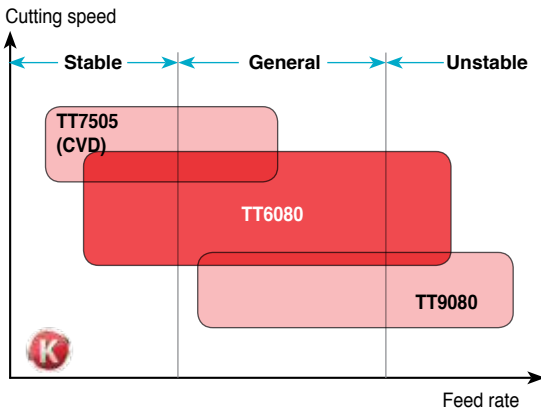
For steel (PVD & CVD coated)



For stainless steel & super alloy (PVD coated)



For cast iron (PVD & CVD coated)




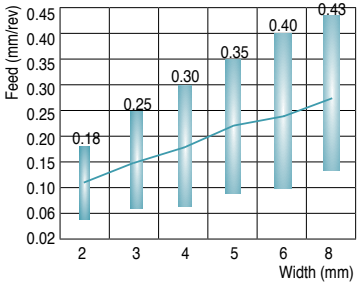

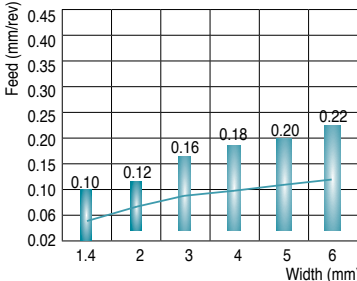

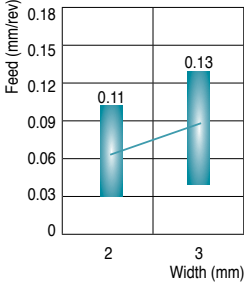

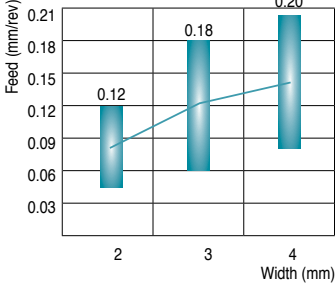
Grades

Parting and grooving grades

Grades	ISO	Characteristics & applications
TT7505 CVD coated	K05 – K15	<ul style="list-style-type: none"> High speed grooving and turning of gray and ductile cast iron
TT6080 PVD coated	K05 – K25 H05 – H25	<ul style="list-style-type: none"> General machining of gray and ductile cast iron for grooving and turning Finish and medium machining of hardened steel
TT3010 PVD coated	S05 – S20	<ul style="list-style-type: none"> High speed grooving and turning of heat-resistant super alloy
TT5100 CVD coated	P20 – P35 M20 – M35	<ul style="list-style-type: none"> Medium grooving and turning of mild steel, low carbon steel and low carbon alloy steel Low to medium speed machining of stainless steel
TT9080 PVD coated	P20 – P40 M20 – M40 S20 – S40	<ul style="list-style-type: none"> General machining of steel, stainless steel and heat-resistant super alloy for parting, grooving and turning Continuous cut and medium cutting speed
TT4430 PVD coated	P20 – P40 M20 – M40 S20 – S40	<ul style="list-style-type: none"> General machining of steel, stainless steel and heat-resistant super alloy for small parts Grooving, turning and parting
TT7220 PVD coated	P25 – P45 M25 – M45	<ul style="list-style-type: none"> Rough machining of steel and stainless steel for parting, grooving and turning
TT8020 PVD coated	P30 – P50 M30 – M50 S30 – S50	<ul style="list-style-type: none"> Low speed or rough and interrupted machining of steel, stainless steel and heat-resistant super alloy for parting, grooving and turning
CT3000 Cermet	P10 – P20 M10 – M20 K10 – K20	<ul style="list-style-type: none"> Good surface finish turning of steel, stainless steel and cast iron
K10 Carbide	K05 – K15 N05 – N15 S05 – S15	<ul style="list-style-type: none"> General machining of cast iron, aluminum alloys, non-ferrous materials and titanium alloys
TB2015 CBN	H10 – H20	<ul style="list-style-type: none"> Continuous and light interrupted machining of hardened steel
KP300 PCD	N10 – N25	<ul style="list-style-type: none"> General machining of aluminum alloys


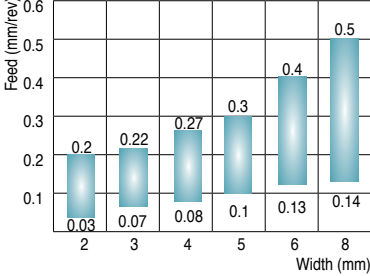
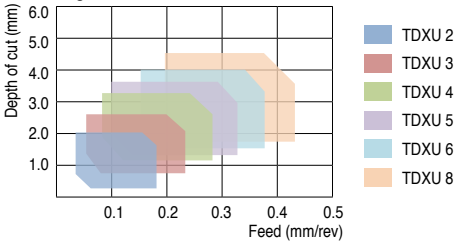

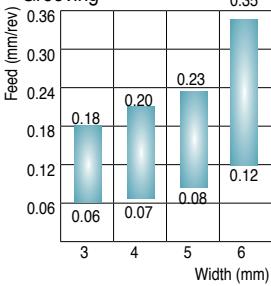
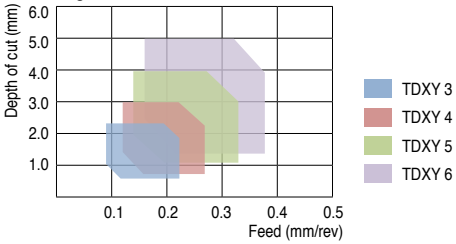
Chip Breakers

Parting and grooving

Chip breakers	Applications and features														
<p>C-Type</p> 	 <table border="1"> <caption>Feed vs Width for C-Type</caption> <thead> <tr> <th>Width (mm)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr><td>2</td><td>0.18</td></tr> <tr><td>3</td><td>0.25</td></tr> <tr><td>4</td><td>0.30</td></tr> <tr><td>5</td><td>0.35</td></tr> <tr><td>6</td><td>0.40</td></tr> <tr><td>8</td><td>0.45</td></tr> </tbody> </table> <ul style="list-style-type: none"> • 1st choice for general use in parting and deep grooving • Stable cutting edge & interrupted cut • Medium-to-high feed • For carbon steel, alloy steel and cast iron • For hard materials 	Width (mm)	Feed (mm/rev)	2	0.18	3	0.25	4	0.30	5	0.35	6	0.40	8	0.45
Width (mm)	Feed (mm/rev)														
2	0.18														
3	0.25														
4	0.30														
5	0.35														
6	0.40														
8	0.45														
<p>J-Type</p> 	 <table border="1"> <caption>Feed vs Width for J-Type</caption> <thead> <tr> <th>Width (mm)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr><td>1.4</td><td>0.10</td></tr> <tr><td>2</td><td>0.12</td></tr> <tr><td>3</td><td>0.16</td></tr> <tr><td>4</td><td>0.18</td></tr> <tr><td>5</td><td>0.20</td></tr> <tr><td>6</td><td>0.22</td></tr> </tbody> </table> <ul style="list-style-type: none"> • 1st choice for soft materials in parting and deep grooving • Sharp cutting edge & low cutting force • Low-to-medium feed • Tubes, small diameter and thin-wall parts • For stainless steel & low carbon steel • For heat resistant super alloy 	Width (mm)	Feed (mm/rev)	1.4	0.10	2	0.12	3	0.16	4	0.18	5	0.20	6	0.22
Width (mm)	Feed (mm/rev)														
1.4	0.10														
2	0.12														
3	0.16														
4	0.18														
5	0.20														
6	0.22														
<p>UF-Type</p> 	 <table border="1"> <caption>Feed vs Width for UF-Type</caption> <thead> <tr> <th>Width (mm)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr><td>2</td><td>0.11</td></tr> <tr><td>3</td><td>0.13</td></tr> </tbody> </table> <ul style="list-style-type: none"> • Narrow chip breaker • Good chip control in low feed of ductile materials and low carbon steel • For Cr-Ni alloy steel and bearing steel 	Width (mm)	Feed (mm/rev)	2	0.11	3	0.13								
Width (mm)	Feed (mm/rev)														
2	0.11														
3	0.13														
<p>V-Type</p> 	 <table border="1"> <caption>Feed vs Width for V-Type</caption> <thead> <tr> <th>Width (mm)</th> <th>Feed (mm/rev)</th> </tr> </thead> <tbody> <tr><td>2</td><td>0.12</td></tr> <tr><td>3</td><td>0.18</td></tr> <tr><td>4</td><td>0.20</td></tr> </tbody> </table> <ul style="list-style-type: none"> • Sharp cutting edge and wide groove with minimized burrs • For tubes of small size workpieces • For stainless steel and mild steel 	Width (mm)	Feed (mm/rev)	2	0.12	3	0.18	4	0.20						
Width (mm)	Feed (mm/rev)														
2	0.12														
3	0.18														
4	0.20														


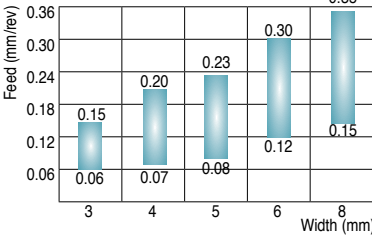
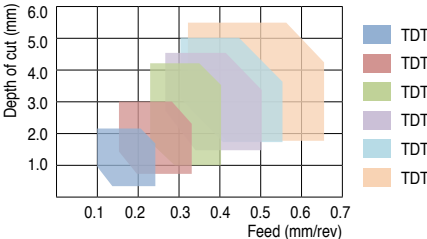

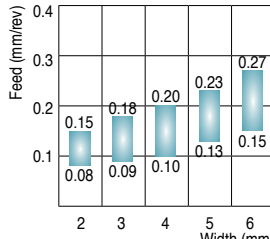
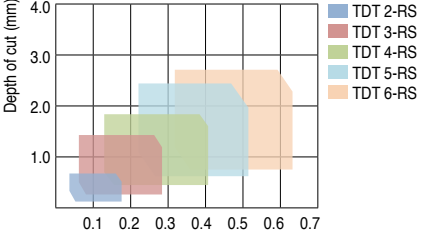

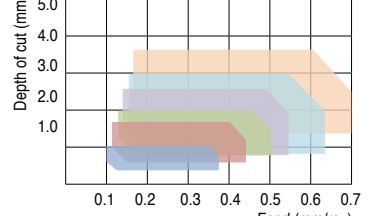
Chip Breakers

Groove-Turn

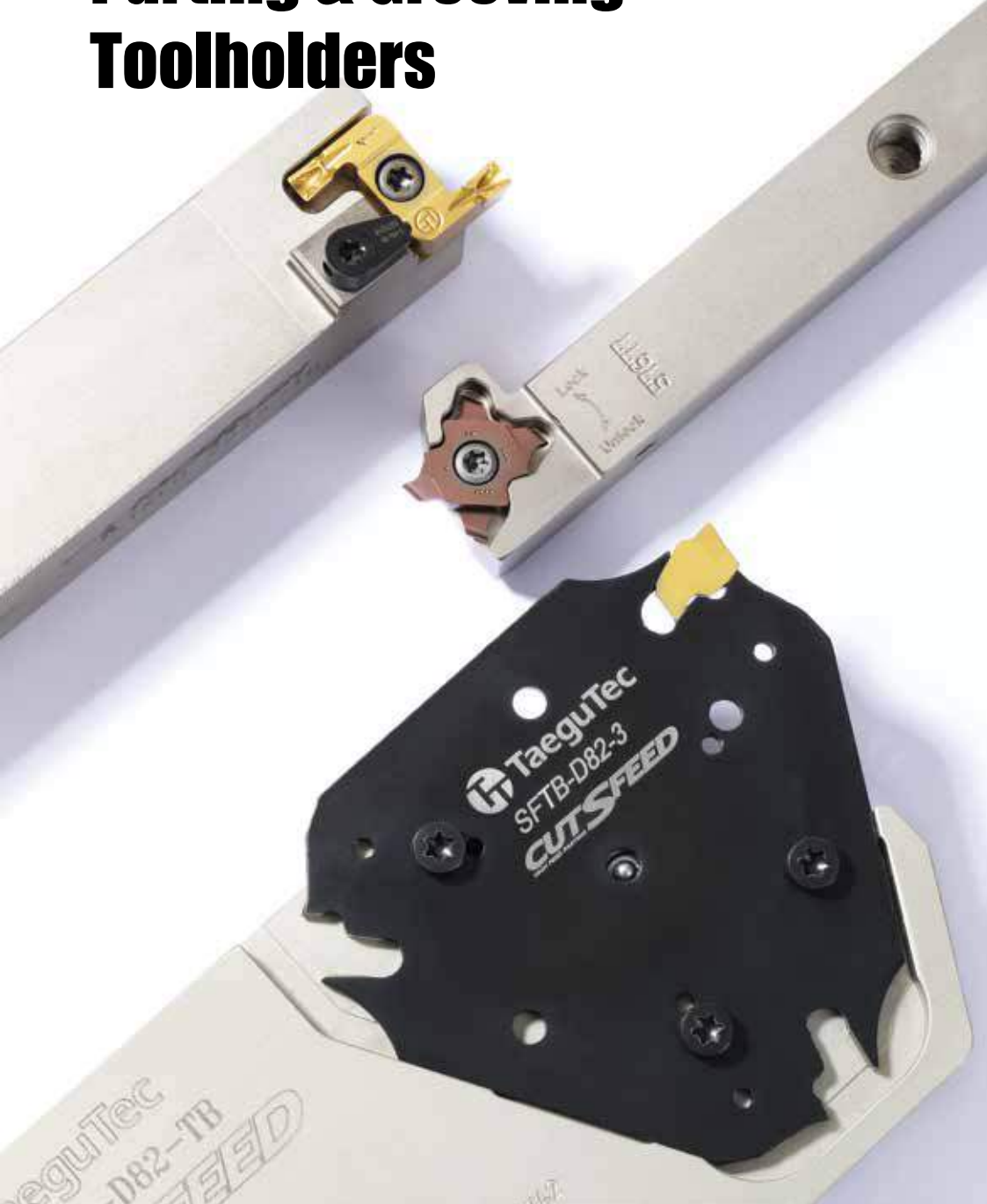
Chip breakers	Applications and features
<p>XU-Type</p> 	<p>■ Grooving</p>  <p>■ Turning</p>  <ul style="list-style-type: none"> • 1st choice for general use in groove-turn • Multi functional chip breaker for external, internal and face machining • Low cutting force and good chip control • Medium-to-high feed grooving, low-to-medium feed turning • Steel, stainless steel and heat resistant alloy
<p>XY-Type</p> 	<p>■ Grooving</p>  <p>■ Turning</p>  <ul style="list-style-type: none"> • For external and internal grooving as well as turning applications • Good chip control when external face grooving and turning • Flat bottom surface machining • Low-to-medium feed grooving, medium-to-high feed turning • Ideal for steel, stainless steel, cast iron and super alloys machining

Chip Breakers

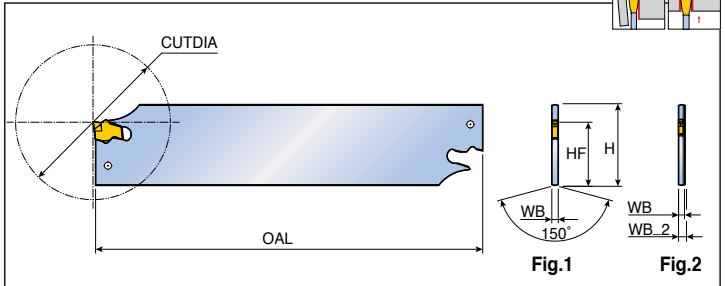
Groove-Turn

Chip breakers	Applications and features	
<p>T-Type</p> 	<p>■ Grooving</p>  <ul style="list-style-type: none"> • 1st choice for side turning of cast iron • Turning and grooving with various geometry • Steel and cast iron • High feed rate 	<p>■ Turning</p> 
<p>RS-Type</p> 	<p>■ Grooving</p>  <ul style="list-style-type: none"> • 1st choice for medium to finishing machining of heat-resistant super alloys • For external and internal profiling, turning and grooving applications • Low cutting force and good surface finish due to the sharp edge • Precision machining and excellent repeatability 	<p>■ Turning</p> 
<p>RU-Type</p> 	<p>■ Turning</p> 	<ul style="list-style-type: none"> • Profiling in steel and cast iron • Tough cutting edge • Good chip control even in low depth • Good surface finish • High feed rate and low depth of cut

Parting & Grooving Toolholders



Blades for parting and deep grooving



Designation	Insert seat size	Dimension (mm)						Fig.	Block	Insert
		H	HF	OAL	WB	WB_2	CUTDIA			
SFGB 32-1.6	1*	32	24.8	150	1.3	2.5	38	2	TTBN/U..32 B44-B45	SFC
32-2	2	32	24.8	150	1.8	2.5	50	2		SFJ
32-3	3	32	24.8	150	2.5	-	100	1		B112

* : SFC 1.6 insert only

Spare parts

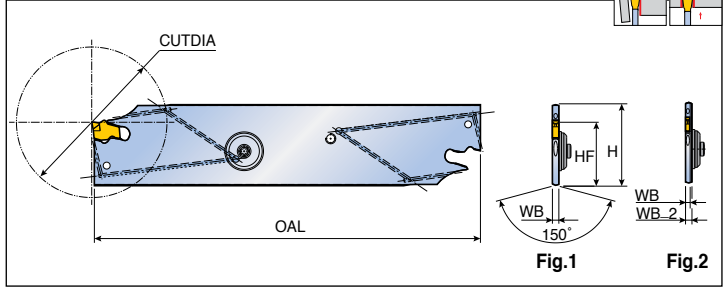
Designation	Extractor			
SFGB	ETG 3-4			

• Extractor should be ordered separately

SFGB-TB



Blades for parting and deep grooving with high pressure coolant



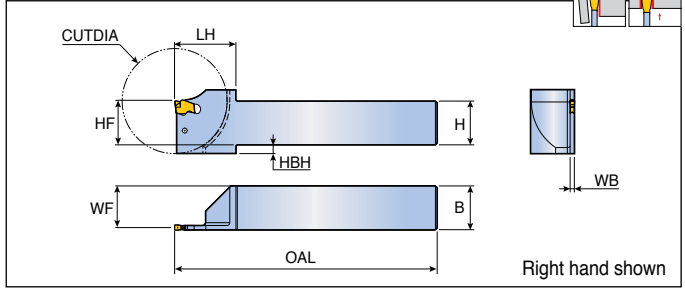
Designation	Insert seat size	Dimension (mm)						Fig.	Block	Insert
		H	HF	OAL	WB	WB_2	CUTDIA			
SFGB 32-2-TB	2	32	24.8	150	1.8	2.5	50	2	TTBU...-TB B46	SFC
32-3-TB	3	32	24.8	150	2.5	-	100	1		SFJ
										B112

Spare parts

Designation	Sealing screw set	Extractor		
SFGB -TB	SGC 340	ETG 3-4		

• Extractor should be ordered separately

Holders for parting and deep grooving



Designation	Insert seat size	Dimension (mm)									Insert
		H	HF	B	OAL	LH	WF	WB	HBH	CUTDIA	
SFER/L 2020-1.6T22-D45	1*	20	20	20	150	29.5	19.4	1.3	2.5	45	SFC
2525-2T25-D50	2	25	25	25	150	32	24.1	1.8	-	50	SFJ
2525-3T30-D60	3	25	25	25	150	35	23.8	2.4	5	60	B112

* : SFC 1.6 insert only

Spare parts

Designation	Extractor			
SFER/L	ETG 3-4			

• Extractor should be ordered separately

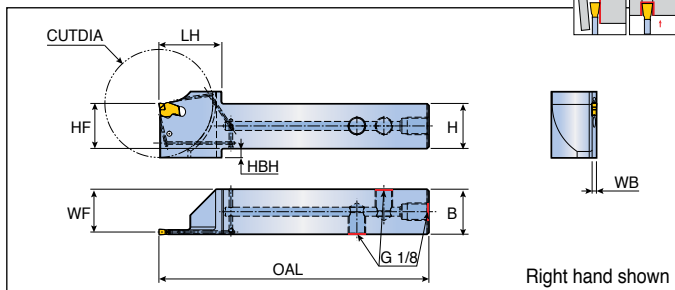
SFER/L-TB



Holders for parting and deep grooving with high pressure coolant



COOLBURST






Right hand shown

Designation	Insert seat size	Dimension (mm)										Insert
		H	HF	B	OAL	LH	WF	WB	HBH	CUTDIA		
SFER/L 2525-2T25-D50-TB	2	25	25	25	150	32	24.1	1.8	-	50	SFC	
2525-3T30-D60-TB	3	25	25	25	150	35	23.8	2.4	5	60	SFJ	
											B112	

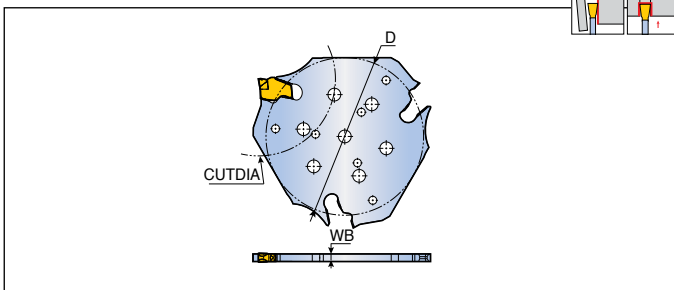
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Plug	Wrench	Extractor	
SFER/L-TB	 PLG G1/8-L6.5	 L-W 5	 ETG 3-4	

• Extractor should be ordered separately

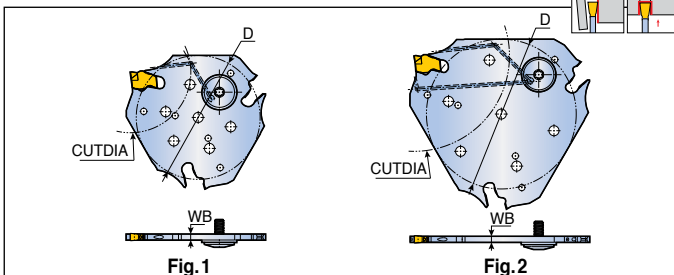
Triangular blades for parting and deep grooving



Designation	Insert seat size	Dimension (mm)			Block	Insert
		D	WB	CUTDIA		
SFTB D52-2	2	53.2	1.8	52	THTBR/L-TB B35	SFC SFJ B112
D52-3	3	53.2	2.5	52		
D82-2	2	64.3	1.8	82	THTBR/L-TB B35	SFC SFJ B112
D82-3	3	64.3	2.5	82		
D120-2	2	85.5	1.8	120	THTBR/L-TB B35	SFC SFJ B112
D120-3	3	85.5	2.5	120		

SFTB-TB

Triangular blades for parting and deep grooving with high pressure coolant



Designation	Insert seat size	Dimension (mm)			Fig.	Block	Insert
		D	WB	CUTDIA			
SFTB D52-2-TB	2	53.2	1.8	52	1	THTBR/L-TB B35	SFC SFJ B112
D52-3-TB	3	53.2	2.5	52	1		
D82-2-TB	2	64.3	1.8	82	2	THTBR/L-TB B35	SFC SFJ B112
D82-3-TB	3	64.3	2.5	82	2		
D120-2-TB	2	85.5	1.8	120	2	THTBR/L-TB B35	SFC SFJ B112
D120-3-TB	3	85.5	2.5	120	2		

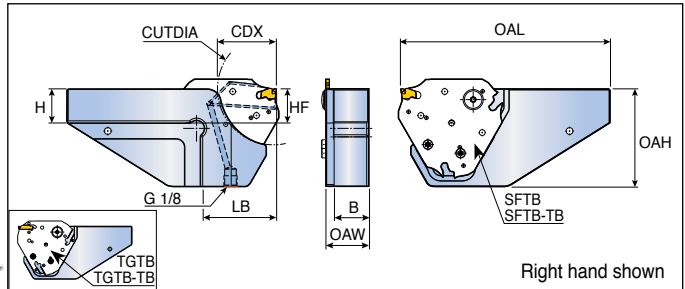
Spare parts

Designation	Sealing screw set	Extractor		
	SFTB	-	ETG 3-4	
SFTB-TB	SGC 340-Q	ETG 3-4		

• Extractor should be ordered separately

THTBR/L-TB

Blocks for triangular blade



Designation	Dimension (mm)								Blade
	H	HF	B	OAL	OAH	OAW	LB	CUTDIA	
THTBR/L 20-D52-TB	20	20	17.5	125	52	23.5	40	52	SFTB/SFTB-TB TGTB/TGTB-TB B34, B38
25-D52-TB	25	25	22.5	135	52	28.5	40	52	
20-D82-TB	20	20	17.5	140	72	23.5	51.5	82	
25-D82-TB	25	25	22.5	150	72	28.5	51.5	82	
25-D120-TB	25	25	22.5	165	95	28.5	67	120	
32-D120-TB	32	32	29.0	165	95	35.0	67	120	

• Please refer to B106 page for COOL-BURST accessories

Table determining depth of cut for grooving as function of workpiece diameter

Designation	CUTDIA											
	CDX	5	6	7	8	9	10	11	12	13	14	15
SFTB/TGTB D52	240	164	137	118	105	94	86	80	74	70	66	
D82	N.L.	N.L.	3686	1126	734	524	408	335	284	247	219	
SFTB D120	N.L.	N.L.	7752	2581	1548	1105	860	704	597	518	458	

• N.L.: No limit

Designation	CUTDIA											
	CDX	16	17	18	19	20	21	22	23	24	25	26
SFTB/TGTB D52	64	61	59	57	56	55	54	53	52	52	52	
D82	197	180	166	154	144	135	128	122	116	112	108	
SFTB D120	411	373	342	316	294	276	259	245	233	222	212	

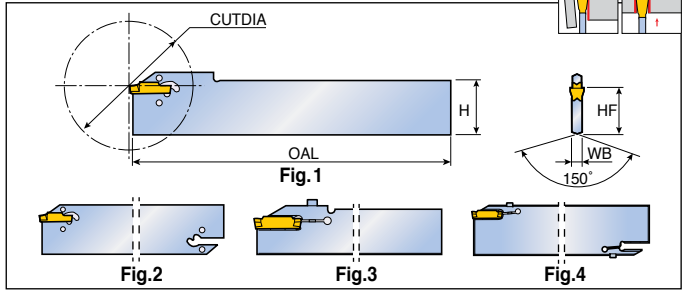
Designation	CUTDIA															
	CDX	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
SFTB/TGTB D82	104	101	98	96	93	91	90	88	87	86	85	84	83	82	82	
SFTB D120	203	195	188	182	176	171	166	162	158	154	151	148	145	143	140	

Designation	CUTDIA														
	CDX	42	43	44	45	46	47	48	49	51	52	55	54-53	57-56	58-60
SFTB D120	136	134	133	131	130	128	127	126	125	124	122	123	121	120	

Spare parts

Designation	Locating pin	Screw	O-Ring	Wrench
	THTBR/L-TB	SIDE THRUST PIN 3MM	SH M4X0.7X10-TX	O-RING ID10X2

Blades for parting and deep grooving



Designation	Insert seat size	Dimension (mm)					Fig.	Block	Insert
		H	HF	OAL	WB	CUTDIA			
TGB 26-1.4S⁽¹⁾	1 *	26	21.4	150	1.0 ⁽²⁾	26	1	TTBN/U...26	TDC / J / T TDXU / XT / XY TSC / J TDUF/TDV B113-B121
26-2S⁽¹⁾	2	26	21.4	150	1.8 ⁽²⁾	40	1	TTBN/U...26	
26-3S⁽¹⁾	3	26	21.4	150	2.4	50	1	TTBN/U...26	
26-4S⁽¹⁾	4	26	21.4	150	3.2	80	1	TTBN/U...26	
32-1.4	1 *	32	24.9	150	1.0 ⁽²⁾	26	2	TTBN/U...32	
32-2	2	32	24.9	150	1.8 ⁽²⁾	50	2	TTBN/U...32	
32-3	3	32	24.9	150	2.4	100	2	TTBN/U...32	
32-4	4	32	24.9	150	3.2	100	2	TTBN/U...32	
32-5	5	32	24.9	150	4.0	120	2	TTBN/U...32	
32-6	6	32	24.9	150	5.2	120	2	TTBN/U...32	
45-4	4	45	38.1	150	3.2	120	2	TTBN/U...45	
32-8S-CL⁽¹⁾	8	32	24.9	150	6.2	80	3	TTBN/U...32	
52-8-CL	8	52	45.2	250	7.4	200	4	TTBN/U...52 B44-B45	

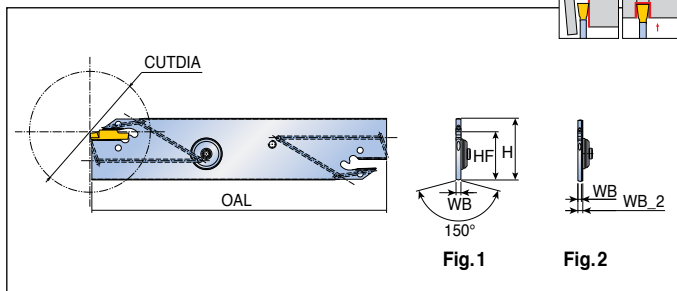
- ⁽¹⁾ Single ended blade
- ⁽²⁾ Thickness at DOC area only. Overall thickness is 2.4mm
- * TDJ 1.4 insert only

Spare parts

Designation	Extractor	Screw	Wrench	
TGB 26-1.4S / 32-1.4	EDG 23B	-	-	
TGB 26 / 32 / 45	EDG 33B	-	-	
TGB 32-8S-CL	-	SH M4x0.7x20-MO	L-W 3	
TGB 52-8-CL	-	SH M4x0.7x20-MO	L-W 3	

• Extractor should be ordered separately

Blades for parting and deep grooving with high pressure coolant



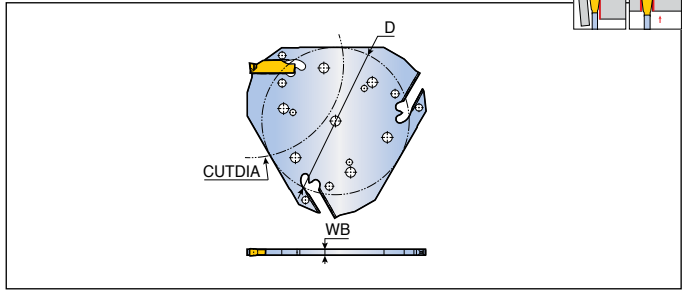
Designation	Insert seat size	Dimension (mm)						Fig.	Block	Insert
		H	HF	OAL	WB	WB_2	CUTDIA			
TGB 32-2-TB	2	32	24.9	150	1.8	2.5	50	2	TTBU...-TB	TDC / J / T
32-3-TB	3	32	24.9	150	2.5	-	100	1	B46	TDXU / XT / XY
32-4-TB	4	32	24.9	150	3.2	-	100	1		TSC / J
32-5-TB	5	32	24.9	150	4.0	-	120	1		TDFU/TDV
32-6-TB	6	32	24.9	150	5.2	-	120	1		B113-B121

Spare parts

Designation	Sealing screw set	Extractor		
TGB-TB	SGC 340	EDG 33B		

• Extractor should be ordered separately

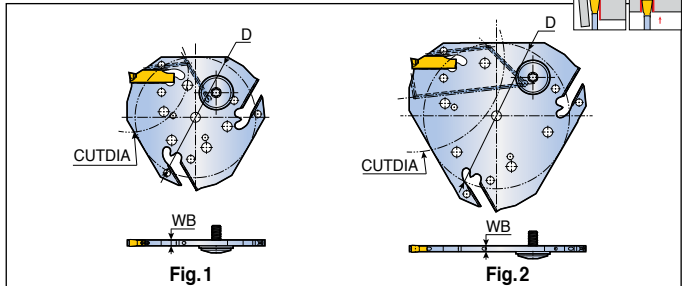
Triangular blades for parting and deep grooving



Designation	Insert seat size	Dimension (mm)			Block	Insert
		D	WB	CUTDIA		
TGTB D52-2	2	53.2	1.8	52	THTBR/L-TB	TDC / J / T
D52-3	3	53.2	2.5	52	B35	TDXU / XT / XY
D82-2	2	64.3	1.8	82		TSC / J / TDUF / TDV
D82-3	3	64.3	2.5	82		B113-B121

TGTB-TB

Triangular blades for parting and deep grooving with high pressure coolant



Designation	Insert seat size	Dimension (mm)			Fig.	Block	Insert
		D	WB	CUTDIA			
TGTB D52-2-TB	2	53.2	1.8	52	1	THTBR/L-TB	TDC / J / T
D52-3-TB	3	53.2	2.5	52	1	B35	TDXU / XT / XY
D82-2-TB	2	64.3	1.8	82	2		TSC / J / TDUF / TDV
D82-3-TB	3	64.3	2.5	82	2		B113-B121

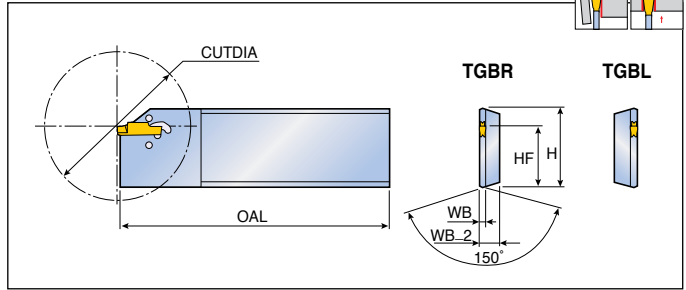
Spare parts

Designation	Sealing screw set	Extractor		
	TGTB	-	EDG 33B	
TGTB-TB	SGC 340-Q	EDG 33B		

• Extractor should be ordered separately


TGBR/L

Reinforced blades for parting and deep grooving



Designation	Insert seat size	Dimension (mm)						Block	Insert
		H	HF	OAL	WB	WB_2	CUTDIA		
TGBR/L 32T24-2	2	32	24.9	110	1.8	8.0	42	TTBN/U..32 B44-B45	TDC / J / T TDXU / XT / XY TSC / J TDUF / TDV B113-B121
32T33-3	3	32	24.9	110	2.4	8.0	60		
32T41-4	4	32	24.9	110	3.2	10.0	80		

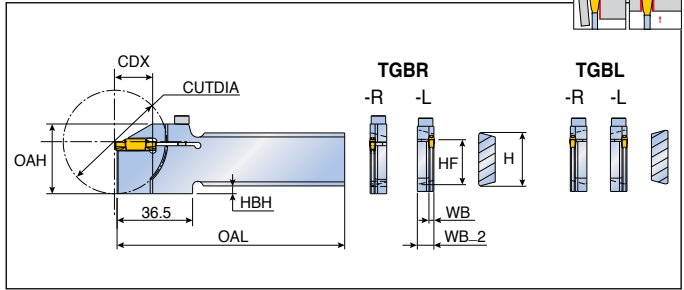
Spare parts

Designation	Extractor			
				
TGBR/L	EDG 33B			

• Extractor should be ordered separately

TGBR/L -D..R/L

Reinforced blades for parting and deep grooving with screw clamping



Designation	Insert seat size	Dimension (mm)									Block	Insert
		H	HF	OAL	OAH	WB	WB_2	HBH	CDX	CUTDIA		
TGBR 26-2-D50R ⁽¹⁾	2	26	21.4	110	33.7	1.8	8	3.6	18	50	TTBN/U...26	TDC / J / T
26-2-D50L ⁽²⁾	2	26	21.4	110	33.7	1.8	8	3.6	18	50	TTBN/U...26	TDXU / XT / XY
TGBL 26-2-D50R ⁽²⁾	2	26	21.4	110	33.7	1.8	8	3.6	18	50	TTBN/U...26	TSC / J
26-2-D50L ⁽¹⁾	2	26	21.4	110	33.7	1.8	8	3.6	18	50	TTBN/U...26	TDUF / TDV
TGBR 26-3-D50R ⁽¹⁾	3	26	21.4	110	33.7	2.4	8	3.6	18	50	TTBN/U...26	B113-B121
26-3-D50L ⁽²⁾	3	26	21.4	110	33.7	2.4	8	3.6	18	50	TTBN/U...26	
TGBL 26-3-D50R ⁽²⁾	3	26	21.4	110	33.7	2.4	8	3.6	18	50	TTBN/U...26	
26-3-D50L ⁽¹⁾	3	26	21.4	110	33.7	2.4	8	3.6	18	50	TTBN/U...26	
TGBR 32-2-D50R ⁽³⁾	2	32	24.9	120	33.7	1.8	8	-	18	50	TTBN/U...32	
32-2-D50L ⁽²⁾	2	32	24.9	120	33.7	1.8	8	-	18	50	TTBN/U...32	
TGBL 32-2-D50R ⁽²⁾	2	32	24.9	120	33.7	1.8	8	-	18	50	TTBN/U...32	
32-2-D50L ⁽³⁾	2	32	24.9	120	33.7	1.8	8	-	18	50	TTBN/U...32	
TGBR 32-3-D50R ⁽³⁾	3	32	24.9	120	33.7	2.4	8	-	18	50	TTBN/U...32	
32-3-D50L ⁽²⁾	3	32	24.9	120	33.7	2.4	8	-	18	50	TTBN/U...32	
TGBL 32-3-D50R ⁽²⁾	3	32	24.9	120	33.7	2.4	8	-	18	50	TTBN/U...32	
32-3-D50L ⁽³⁾	3	32	24.9	120	33.7	2.4	8	-	18	50	TTBN/U...32	
												B44-B45

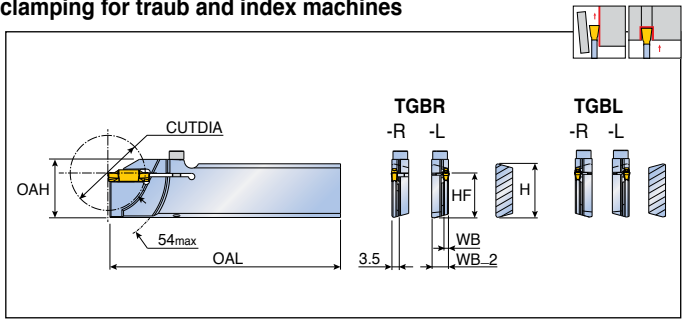
- ⁽¹⁾ for Traub machines, model TNC 30, TNM 28, TNS 26/30/42/112, TNA 300, TNK 260
- ⁽²⁾ for Tornos Bechler, model Emco 2000/20, 2000/26
- ⁽³⁾ for Traub machines, model TNC 42/65, TNM 42/65, TNS 42/60/65, TNA 300/400

Spare parts

Designation	Screw	Wrench		
	TGBR/L -DR/L	SH M4x0.7x16	L-W 3	

TGBR/L -TI-D..R/L

Reinforced blades with screw clamping for traub and index machines

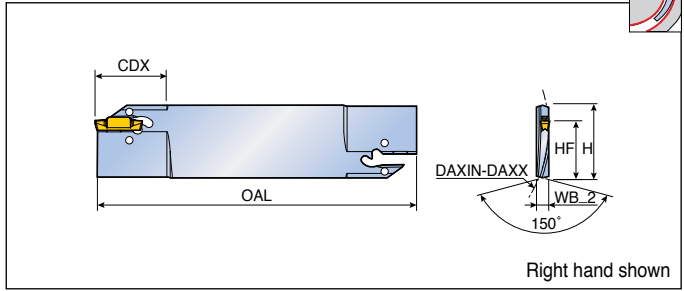


Designation	Insert seat size	Dimension (mm)							Block	Insert
		H	HF	OAL	OAH	WB	WB_2	CUTDIA		
TGBR/L 26-2TI-D36R	2	26	21.4	110	27.9	1.6	8	36	TTBN/U..-26 B44-B45	TDC / J / T TDXU / XT / XY TSC / J TDUF / TDV B113-B121
26-2TI-D36L	2	26	21.4	110	27.9	1.6	8	36		
26-3TI-D36R	3	26	21.4	110	27.9	2.4	8	36		
26-3TI-D36L	3	26	21.4	110	27.9	2.4	8	36		

Spare parts

Designation	Screw	Wrench		
	TGBR/L -TI-DR/L	SH M4x0.7x16	L-W 3	

Blades for face grooving



Designation	Insert seat size	Dimension (mm)								Block	Insert
		H	HF	OAL	WB_2	CDX	DAXIN	DAXX			
TGBFR/L 32T 20-40-60-3	3	32	24.9	150	5.2	20	40	60	TTBN/U...32 B44-B45	TDC / J / T	
32T 20-54-80-3	3	32	24.9	150	5.2	20	54	80		TDXU / XT / XY	
32T25-74-120-3	3	32	24.9	150	5.2	25	74	120		TDFT	
32T25-114-180-3	3	32	24.9	150	5.2	25	114	180		TSC / J	
32T25-40-60-4	4	32	24.9	150	5.2	25	40	60		TDUF / TDV	
32T25-50-80-4	4	32	24.9	150	5.2	25	50	80		B113-B121	
32T30-70-130-4	4	32	24.9	150	5.2	30	70	130			
32T30-120-200-4	4	32	24.9	150	5.2	30	120	200			
32T30-200-4	4	32	24.9	150	5.2	30	200	∞			
32T32-60-95-5	5	32	24.9	150	5.2	32	60	95			
32T35-85-140-5	5	32	24.9	150	5.2	35	85	140			
32T35-130-250-5	5	32	24.9	150	5.2	35	130	250			
32T35-250-5	5	32	24.9	150	5.2	35	250	∞			
32T32-80-180-6	6	32	24.9	150	5.2	32	80	180			
32T38-168-300-6	6	32	24.9	150	5.2	38	168	300			
32T38-300-6	6	32	24.9	150	5.2	38	300	∞			

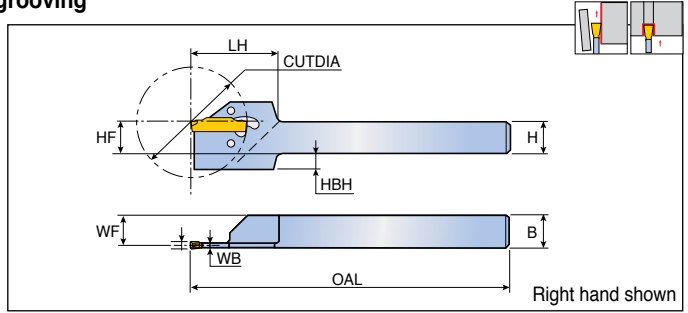
• Please check insert min. dia for face grooving B74 page

Spare parts

Designation	Extractor			
TGBFR/L	EDG 33B			

• Extractor should be ordered separately


Holders for parting and deep grooving



Designation	Insert seat size	Dimension (mm)									CUTDIA		Insert
		H	HF	B	OAL	LH	WF	WB	HBH	TDJ/C	TSJ/C		
TGER/L 2020-1.4T10	1 *	20	20	20	125	31	19.5	1.0	-	20	20	TDC / J / T	
1010-2	2	10	10	10	150	31	9.1	1.8	8	33	33	TDXU / XT / XY	
1212-2	2	12	12	12	150	31	11.1	1.8	6	35	35	TSC / J	
1616-2	2	16	16	16	150	31	15.1	1.8	2	35	35	TDUF / TDV	
2012-2	2	20	20	12	150	31	11.1	1.8	-	35	35	B113-B121	
2020-2	2	20	20	20	125	31	19.1	1.8	-	35	35		
1212-3	3	12	12	12	150	31	10.8	2.4	6	38	40		
1616-3	3	16	16	16	150	31	14.8	2.4	2	38	45		
2020-3	3	20	20	20	125	31	18.8	2.4	-	38	45		
2525-3	3	25	25	25	150	31	23.8	2.4	-	38	45		
2020-4	4	20	20	20	125	33	18.4	3.2	-	38	55		
2525-4	4	25	25	25	150	33	23.4	3.2	-	38	55		

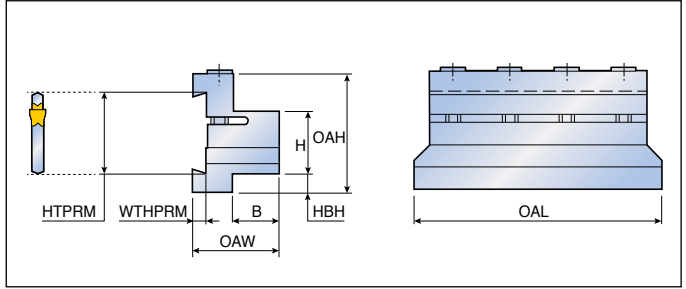
* TDJ 1.4 insert only

Spare parts

Designation	Extractor			
TGER/L.....-1.4T10	 EDG 23B			
TGER/L.....-2	EDG 33B			
TGER/L.....-3	EDG 33B			
TGER/L.....-4	EDG 33B			

• Extractor should be ordered separately

Blocks for blades



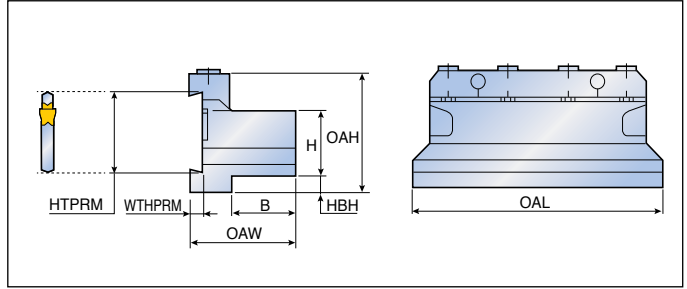
Designation	Dimension (mm)							
	HTPRM	H	HBH	OAH	WTHPRM	OAL	B	OAW
TTBN 16-26	26	16	12	38	4.0	87	15	29
20-26	26	20	8	38	4.0	87	19	33
25-26	26	25	3	38	4.0	110	20	34
20-32	32	20	13	48	5.5	100	19	35
25-32	32	25	8	48	5.5	110	20	36
32-32	32	32	3	48	5.5	120	28	44
25-45	45	25	25	66	5.5	110	22	40
32-45	45	32	18	66	5.5	120	28	45
40-52	52	40	21	82	8.0	160	40	65

Spare parts

Designation	Screw	Wrench		
TTBN...26	SH M6x1x25	L-W 5		
TTBN...32	SH M6x1x30	L-W 5		
TTBN...45	SH M6x1x40	L-W 5		
TTBN...52	SH M8x1.25x45	L-W 6		



Blocks for blades with clamp



Designation	Dimension (mm)							
	HTPRM	H	HBH	OAH	WTHPRM	OAL	B	OAW
TTBU 20-26	26	20	9	43	4.0	86	21	38
25-26	26	25	5	45	4.0	110	23	43
20-32	32	20	13	50	5.3	100	19	38
25-32	32	25	8	50	5.3	110	23	42
32-32	32	32	5	54	5.3	110	29	48
25-45	45	25	27	70	5.3	110	23	42
32-45	45	32	20	70	5.3	110	29	48

Spare parts

Designation	Screw	Clamp	Wrench	
TTBU 20-26	SR M6X30 DIN912	BKU 86	L-W 5	
TTBU 25-26	SR M6X30 DIN912	BKU 105	L-W 5	
TTBU 20-32	SR M6X25 DIN912	BKU 100	L-W 5	
TTBU 25-32	SR M6X25 DIN912	BKU 110	L-W 5	
TTBU 32-32	SR M6X30 DIN912	BKU 110	L-W 5	
TTBU 25/32-45	SR M6X30 DIN912	BKU 110	L-W 5	



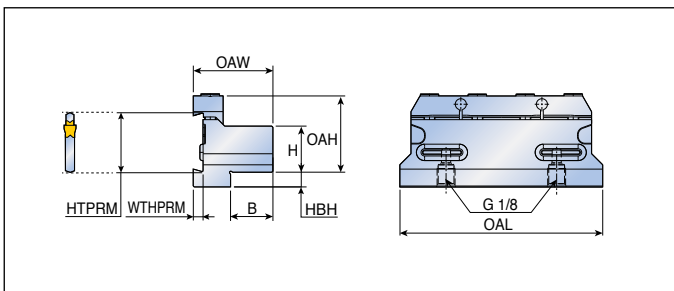
B30-B42

TTBU-TB

Blocks for blades with high pressure coolant



COOLBURST



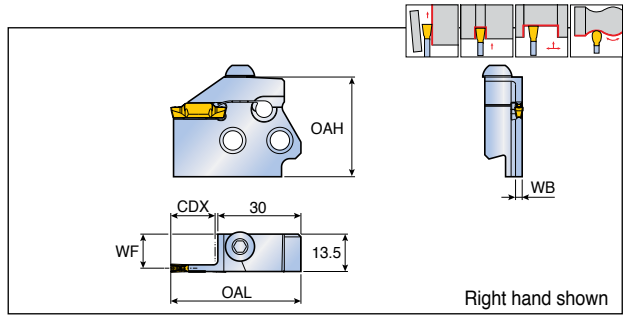
Designation	Dimension (mm)							
	HTPRM	H	HBH	OAH	WTHPRM	OAL	B	OAW
TTBU 20-32-TB	32	20	15	36.4	5.3	100	19	39.2
25-32-TB	32	25	8	41.4	5.3	110	23	43.2
32-32-TB	32	32	5	48.4	5.3	110	29	49.2

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



Cartridges for external grooving



Designation	Insert seat size	Dimension (mm)					Holder	Insert
		OAL	WF	WB	OAH	CDX		
TCAER/L 1.4T12	1*	47	13.0	1.0	36	12	TCAHR/L	TDJ 1.4
2T16	2	47	12.6	1.8	36	16	TCAHPL/R	TDC / J / T
2T22	2	53	12.6	1.8	36	22	C...TCAHN	TDXU / XT / XY
3T16	3	47	12.3	2.4	36	16	C...TCAHPN	TSC / J
3T22	3	53	12.3	2.4	36	22	B52-B55	TDUF / TDV
4T16	4	47	12.0	3.0	36	16		B113-B121
4T22	4	53	12.0	3.0	36	22		
5T20	5	51.5	11.6	3.9	36	20		
5T25	5	56	11.6	3.9	36	25		
6T20	6	51.5	11.1	4.9	36	20		
6T25	6	56	11.1	4.9	36	25		

* TDJ 1.4 insert only

Spare parts

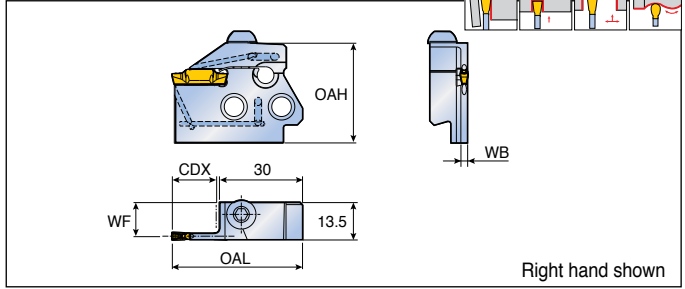
Designation	Screw	Wrench		
TCAER/L	BH M6x1x16	L-W 4		

TCAER/L-TB

Cartridges for external grooving with high pressure coolant



COOLBURST

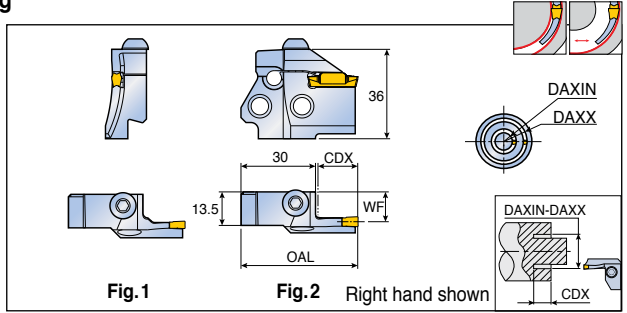


Designation	Insert seat size	Dimension (mm)					Holder	Insert
		OAL	WF	WB	OAH	CDX		
TCAER/L 2T16-TB	2	47	12.6	1.8	36	16	TCAHR/L-TB TCAHPL/R-TB C...TCAHN-TB C...TCAHPN-TB B52-B55	TDC / J / T TDXU / XT / XY TSC / J TDUF / TDV B113-B121
3T16-TB	3	47	12.3	2.4	36	16		
4T16-TB	4	47	12.0	3.0	36	16		
5T20-TB	5	51	11.5	3.9	36	20		

Spare parts

Designation	Screw	Wrench		
TCAER/L-TB	BH M6X1X16	L-W 4		

Cartridges for external face grooving



Designation	Insert seat size	Dimension (mm)					Fig.	Holder	Insert
		OAL	WF	CDX	DAXIN	DAXX			
TCAFR/L 3T10-29-40 RN	3	40	12.4	10	29	40	1	TCAHL/R	TDC / J / T
3T12-40-55 RN	3	47	12.4	12	40	55	1	TCAHPR/L	TDXU / XT / XY
3T12-55-75 RN	3	47	12.4	12	55	75	1	C.-TCAHN	TDFT
3T12-75-100 RN	3	47	12.4	12	75	100	1	C.-TCAHPN	TSC / J
3T12-100-140 RN	3	47	12.4	12	100	140	1	B52-B55	TDUF / TDV
3T12-140-200 RN	3	47	12.4	12	140	200	1		B113-B121, B123
4T16-34-50 RN	4	47	12.0	16	34	50	2		
4T16-50-70 RN	4	47	12.0	16	50	70	2		
4T16-70-100 RN	4	47	12.0	16	70	100	2		
4T16-100-150 RN	4	47	12.0	16	100	150	2		
4T16-150-250 RN	4	47	12.0	16	150	250	2		
4T16-250 RN	4	47	12.0	16	250	∞	2		
5T20-55-80 RN	5	51.5	11.5	20	55	80	2		
5T20-80-120 RN	5	51.5	11.5	20	80	120	2		
5T20-120-180 RN	5	51.5	11.5	20	120	180	2		
5T20-180-300 RN	5	51.5	11.5	20	180	300	2		
5T20-300 RN	5	51.5	11.5	20	300	∞	2		
6T25-60-90 RN	6	56	11.0	25	60	90	2		
6T25-90-150 RN	6	56	11.0	25	90	150	2		
6T25-150-250 RN	6	56	11.0	25	150	250	2		
6T25-250-400 RN	6	56	11.0	25	250	400	2		
6T25-400 RN	6	56	11.0	25	400	∞	2		

• Please check insert min. dia for face grooving B74 page

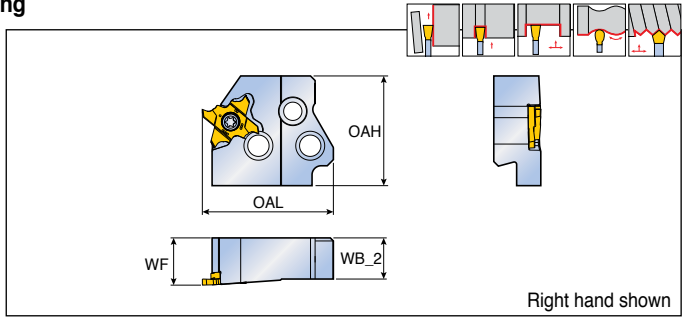
Spare parts

Designation	Screw	Wrench		
TCAFR/L	BH M6x1x16	L-W 4		

TCAQR/L 20



Cartridges for external grooving

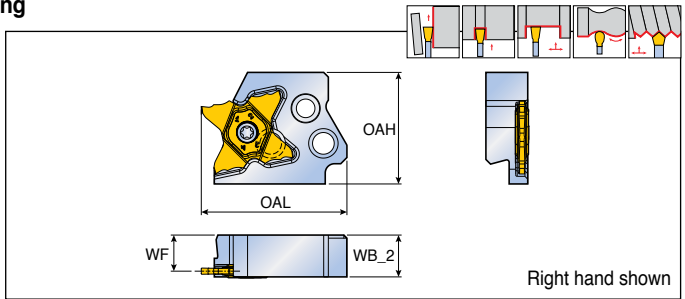


Designation	Dimension (mm)				Holder	Insert
	OAL	WF	WB_2	OAH		
TCAQR/L 20	43	15.5	13.5	36	TCAHR/L, TCAHPL/R C...TCAHN, C...TCAHPN B52-B55	TQ...20 B147-B148

TCAQR/L 27/34



Cartridges for external grooving



Designation	Dimension (mm)				Holder	Insert
	OAL	WF	WB_2	OAH		
TCAQR/L 27	47	12.3	13.5	36	TCAHR/L, TCAHPL/R	TQ... 27
34	47	11.7	13.5	36	C...TCAHN, C...TCAHPN B52-B55	TQ... 34 B149-B159

Spare parts

Designation	Screw	Wrench	Designation	Screw	Wrench
TCAQR 20	TS 40A100L	T-1508/5	TCAQR 27/34	TS 50125IL	T 10/20
TCAQL 20	TS 40A100	T-1508/5	TCAQL 27/34	TS 50125I	T 10/20

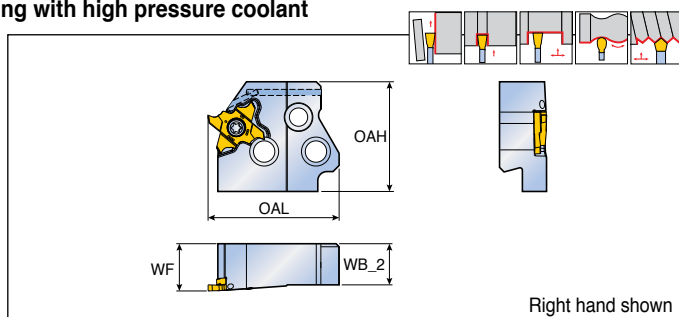
TCAQR/L 20-TB



Cartridges for external grooving with high pressure coolant



COOLBURST



Designation	Dimension (mm)				Holder	Insert
	OAL	WF	WB_2	OAH		
TCAQR/L 20-TB	43	15.5	13.5	36	TCAHR/L-TB, TCAHPL/R-TB C...TCAHN-TB, C...TCAHPN-TB B52-B55	TQ...20 B147-B148

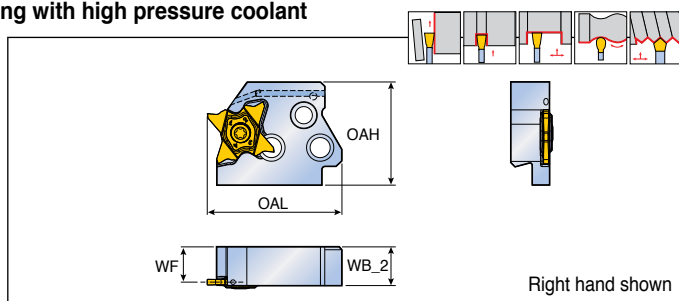
TCAQR/L 27-TB



Cartridges for external grooving with high pressure coolant



COOLBURST

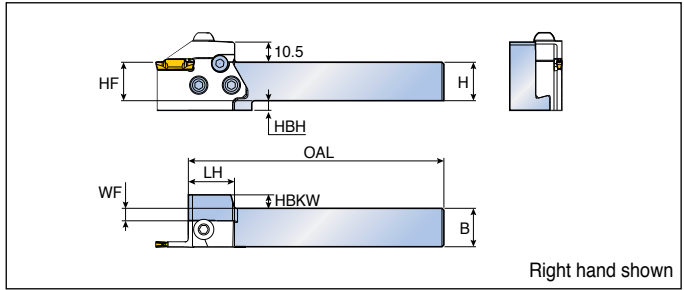


Designation	Dimension (mm)				Holder	Insert
	OAL	WF	WB_2	OAH		
TCAQR/L 27-TB	47	12.3	13.5	36	TCAHR/L-TB, TCAHPL/R-TB C...TCAHN-TB, C...TCAHPN-TB B52-B55	TQ...27 B149-B157

Spare parts

Designation	Screw	Wrench	Designation	Screw	Wrench
TCAQR 20-TB	TS 40A100L	T-1508/5	TCAQR 27-TB	TS 50125IL	T 10/20
TCAQL 20-TB	TS 40A100	T-1508/5	TCAQL 27-TB	TS 50125I	T 10/20

Parallel type holders for cartridge

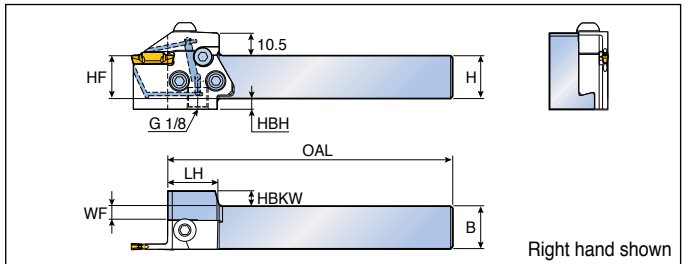


Designation	Dimension (mm)								Cartridge
	H	HF	B	OAL	WF	HBH	HBKW	LH	
TCAHR/L 2020	20	20	20	133	6.5	5	7	24	TCAER/L, TCAFL/R TCAQR/L B47, B49, B50
2525	25	25	25	133	11.5	-	2	24	
3232	32	32	32	153	18.5	-	-	24	

• Cartridge should be ordered separately

TCAHR/L-TB

Parallel type holders for cartridge with high pressure coolant



Designation	Dimension (mm)								Cartridge
	H	HF	B	OAL	WF	HBH	HBKW	LH	
TCAHR/L 2020-TB	20	20	20	133	6.5	5	7	24	TCAER/L-TB TCAQR/L-TB B48, B51
2525-TB	25	25	25	133	11.5	-	2	24	

• Cartridge should be ordered separately

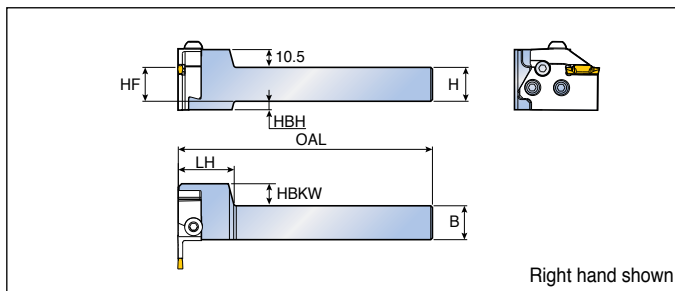
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw	Security Screw	Sealing Screw	O-Ring	Wrench	
TCAHR/L	TS 60190I	SH M5X0.8X16	-	-	L-W 4	-
TCAHR/L-TB	TS 60190I	SH M5X0.8X16	SS M4X0.7X4-NL	O-RING ID5X1T	L-W 4	L-W 2

TCAHPR/L

Perpendicular type holders for cartridge

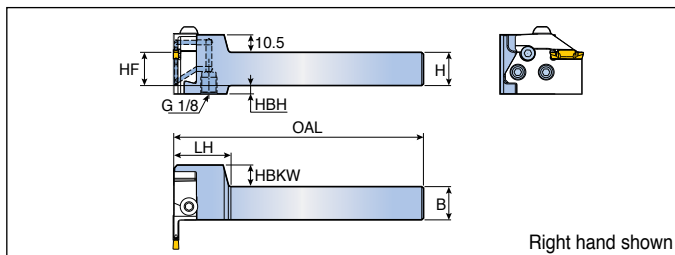


Designation	Dimension (mm)							Cartridge
	H	HF	B	OAL	HBH	HBKW	LH	
TCAHPR/L 2020	20	20	20	150	5	13	33	TCAEL/R, TCAFR/L TCAQL/R B47, B49, B50
2525	25	25	25	150	-	8	33	
3232	32	32	32	170	-	1	33	

• Cartridge should be ordered separately

TCAHPR/L-TB

Perpendicular type holders for cartridge with high pressure coolant



Designation	Dimension (mm)							Cartridge
	H	HF	B	OAL	HBH	HBKW	LH	
TCAHPR/L 2020-TB	20	20	20	150	5	13	33	TCAEL/R-TB TCAQL/R-TB B48, B51
2525-TB	25	25	25	150	-	8	33	

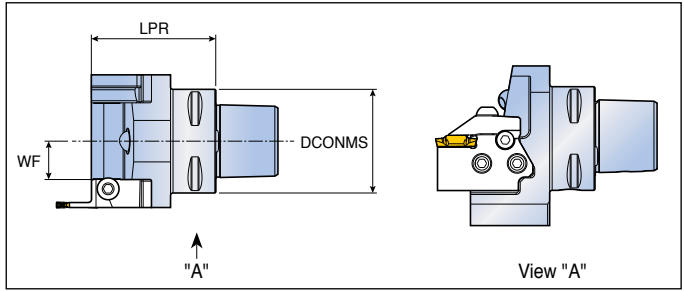
• Cartridge should be ordered separately
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw	Security Screw	Sealing Screw	O-Ring	Wrench	
TCAHPR/L	TS 60190I	SH M5X0.8X16	-	-	L-W 4	-
TCAHPR/L-TB	TS 60190I	SH M5X0.8X16	SS M4X0.7X4-NL	O-RING ID5X1T	L-W 4	L-W 2

C-TCAHN

Parallel type C-Adapters

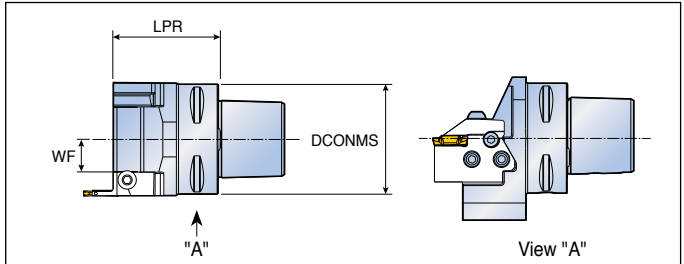


Designation	Dimension (mm)			Cartridge
	DCONMS	LPR	WF	
C4-TCAHN	40	60	18.7	TCAER/L, TCAFR/L
C5-TCAHN	50	60	18.5	TCAQR/L
C6-TCAHN	63	60	19	B47, B49, B50

• Cartridge should be ordered separately

C-TCAHN-TB

Parallel type C-Adapters with high pressure coolant



Designation	Dimension (mm)			Cartridge
	DCONMS	LPR	WF	
C4-TCAHN-TB	40	55	11.5	TCAER/L-TB
C5-TCAHN-TB	50	58	13.7	TCAQR/L-TB
C6-TCAHN-TB	63	60	18.7	B48, B51

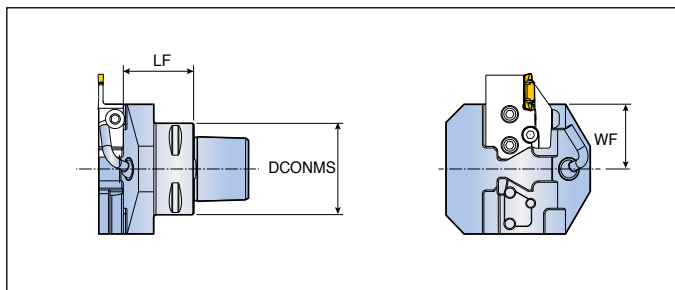
• Cartridge should be ordered separately

Spare parts

Designation	Screw	Security Screw	Sealing Screw	Nozzle	O-Ring	Wrench
C-TCAHN	TS 60190I	SH M5X0.8X16	-	NZ 125	-	L-W 4
C-TCAHN-TB	TS 60190I	SH M5X0.8X16	SS M4X0.7X4-NL	-	O-RING ID5X1T	L-W 4 / L-W 2

C-TCAHPN

Perpendicular type C-Adapters

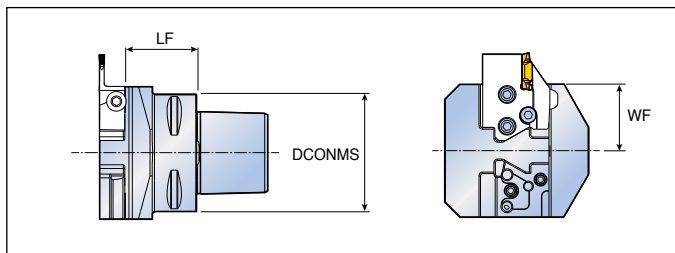


Designation	Dimension (mm)			Cartridge
	DCONMS	LF	WF	
C4-TCAHPN	40	40.5	34	TCAER/L, TCAFR/L
C5-TCAHPN	50	38.5	35.5	TCAQR/L
C6-TCAHPN	63	38.5	36	B47, B49, B51

• Cartridge should be ordered separately

C-TCAHPN-TB

Perpendicular type C-Adapters with high pressure coolant



Designation	Dimension (mm)			Cartridge
	DCONMS	LF	WF	
C4-TCAHPN-TB	40	36.5	34	TCAER/L-TB
C5-TCAHPN-TB	50	36.5	35	TCAQR/L-TB
C6-TCAHPN-TB	63	38.5	35.5	B48, B51

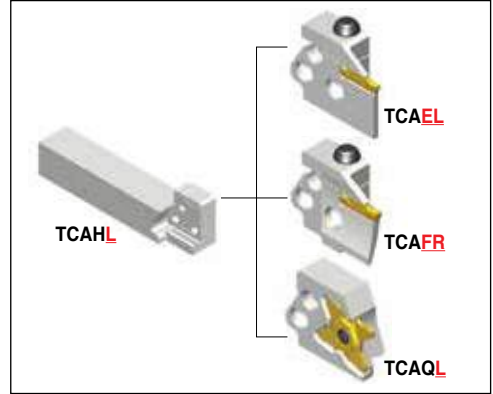
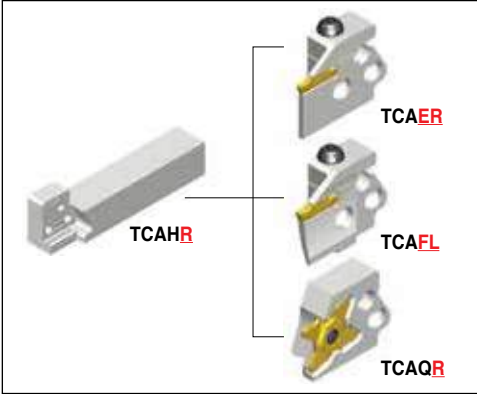
• Cartridge should be ordered separately

Spare parts

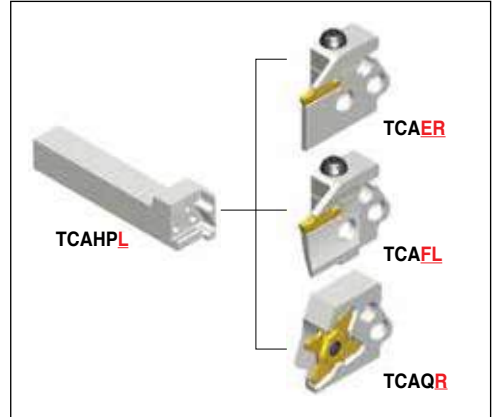
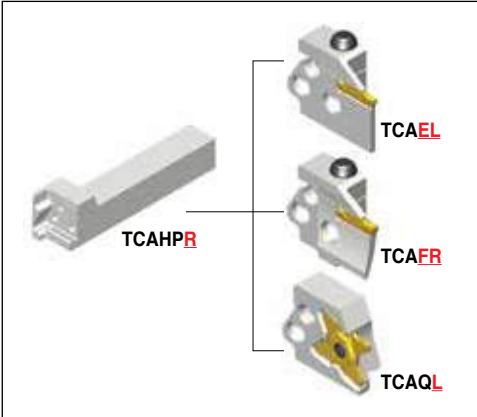
Designation	Screw	Security Screw	Sealing Screw	Nozzle	O-Ring	Pipe	Wrench
C-TCAHPN	TS 60190I	SH M5X0.8X16	-	NZ 125	-	NZP 5	L-W 4
C-TCAHPN-TB	TS 60190I	SH M5X0.8X16	SS M4X0.7X4-NL	-	O-RING ID5X1T	-	L-W 4 / L-W 2

Cartridge and Holder Selection

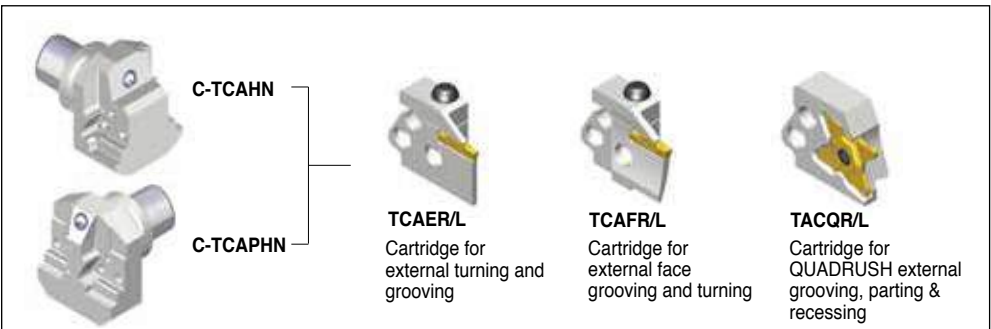
Parallel type



Perpendicular type

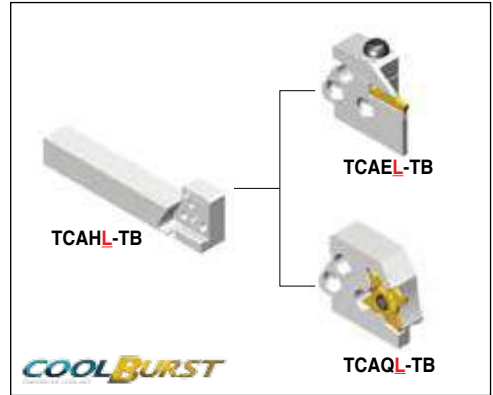
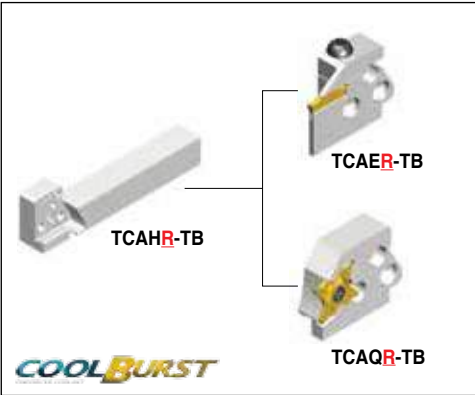


C-ADAPTER

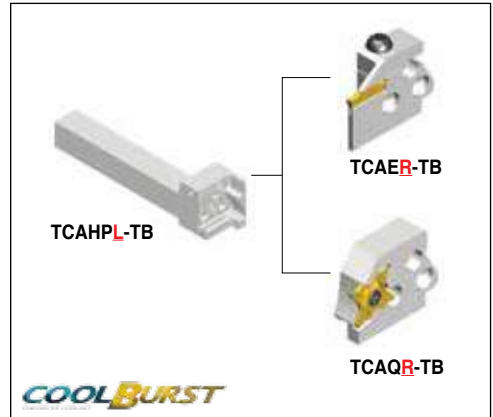
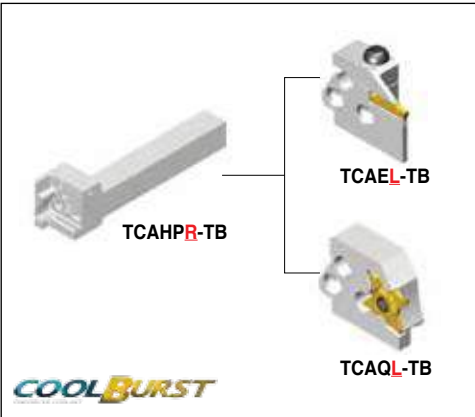


Cartridge and Holder Selection

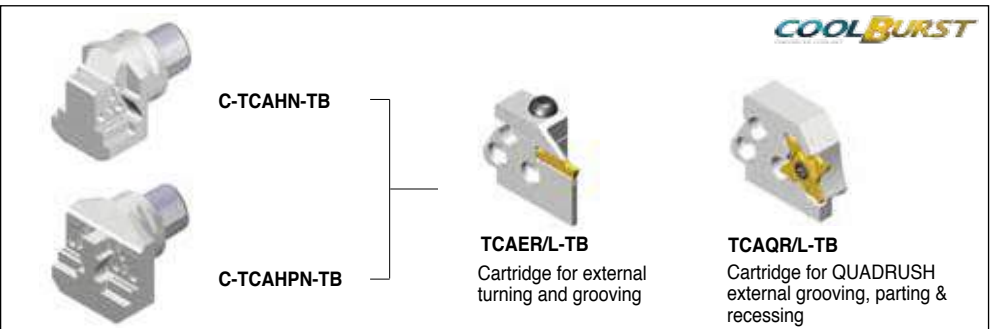
Parallel type with high pressure coolant



Perpendicular type with high pressure coolant

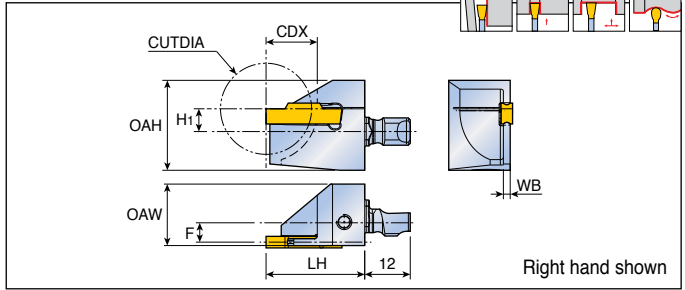


C-ADAPTER with high pressure coolant



QE1 TTER

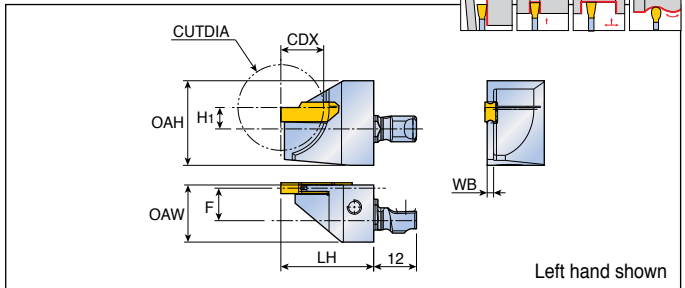
Modular heads for external turning and grooving



Designation	Insert seat size	Dimension (mm)								Shank	Insert
		OAH	LH	OAW	WB	CDX	CUTDIA	H ₁	F		
QE1 TTER 2-16-32	2	23.7	26.0	16.2	1.8	16.0	32.0	6.0	6.1	QE1 S12N-TB	TDC / J / T
2-12-24	2	23.7	26.0	16.2	1.8	12.0	24.0	6.0	6.1	QE1 S16R-TB	TDXU / XT / XY
3-16-32	3	23.7	26.0	16.2	2.4	16.0	32.0	6.0	5.8	B61, B62	TSC / J
3-12-24	3	23.7	26.0	16.2	2.4	12.0	24.0	6.0	5.8		TDUF / TDV
											B113-B121

QE1 TTEL

Modular heads for external turning and grooving



Designation	Insert seat size	Dimension (mm)								Shank	Insert
		OAH	LH	OAW	WB	CDX	CUTDIA	H ₁	F		
QE1 TTEL 2-16-32	2	23.7	26.0	16.0	1.8	16.0	32.0	6.0	8.1	QE1 S12N-TB	TDC / J / T
2-12-24	2	23.7	26.0	16.0	1.8	12.0	24.0	6.0	8.1	QE1 S16R-TB	TDXU / XT / XY
3-16-32	3	23.7	26.0	16.0	2.4	16.0	32.0	6.0	7.8	B61, B62	TSC / J
3-12-24	3	23.7	26.0	16.0	2.4	12.0	24.0	6.0	7.8		TDUF / TDV
											B113-B121

Spare parts

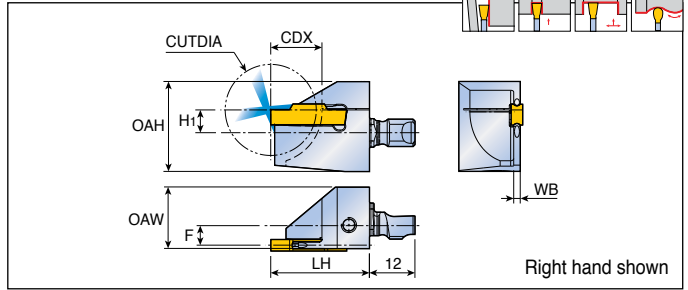
Designation	Screw	Wrench		
	QE1 TTER/L	SH M4X0.7X16	L-W 3	

QE1 TTER-TB

Modular heads for external turning and grooving with high pressure coolant



COOLBURST



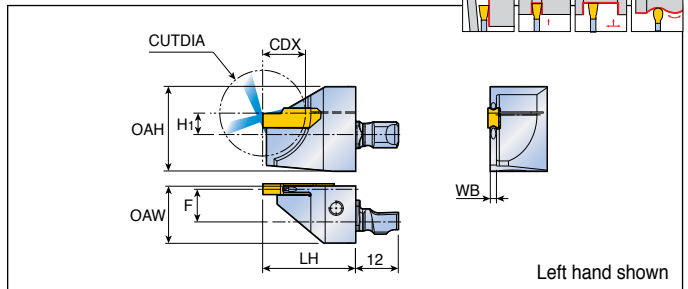
Designation	Insert seat size	Dimension (mm)									Shank	Insert
		OAH	LH	OAW	WB	CDX	CUTDIA	H ₁	F			
QE1 TTER 2-16-32-TB	2	23.7	26.0	16.2	1.8	16.0	32.0	6.0	6.1	QE1 S12N-TB	TDC / J / T	
2-12-24-TB	2	23.7	26.0	16.2	1.8	12.0	24.0	6.0	6.1	QE1 S16R-TB	TDXU / XT / XY	
3-16-32-TB	3	23.7	26.0	16.2	2.4	16.0	32.0	6.0	5.8	B61, B62	TSC / J	
3-12-24-TB	3	23.7	26.0	16.2	2.4	12.0	24.0	6.0	5.8	B113, B121	TDUF / TDV	

QE1 TTEL-TB

Modular heads for external turning and grooving with high pressure coolant





COOLBURST



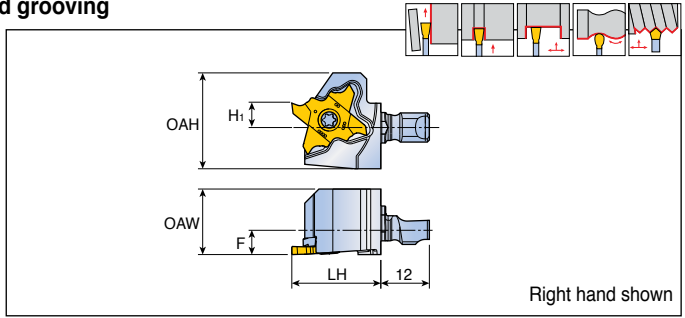
Designation	Insert seat size	Dimension (mm)									Shank	Insert
		OAH	LH	OAW	WB	CDX	CUTDIA	H ₁	F			
QE1 TTEL 2-16-32-TB	2	23.7	26.0	16.0	1.8	16.0	32.0	6.0	8.1	QE1 S12N-TB	TDC / J / T	
2-12-24-TB	2	23.7	26.0	16.0	1.8	12.0	24.0	6.0	8.1	QE1 S16R-TB	TDXU / XT / XY	
3-16-32-TB	3	23.7	26.0	16.0	2.4	16.0	32.0	6.0	7.8	B61, B62	TSC / J	
3-12-24-TB	3	23.7	26.0	16.0	2.4	12.0	24.0	6.0	7.8	B113, B121	TDUF / TDV	

Spare parts

Designation	Screw	Wrench		
	QE1 TTER/L-TB	 SH M4X0.7X16	 L-W 3	

QE1 TQHR

Modular heads for parting and grooving



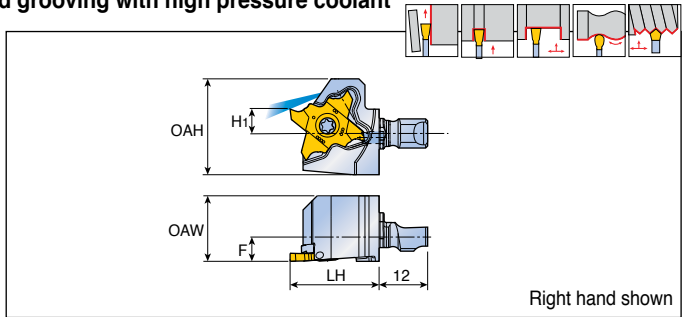
Designation	Dimension (mm)					Shank	Insert
	OAH	LH	OAW	H ₁	F		
QE1 TQHR 20	23.7	22.0	16.2	6.0	6.0	QE1 S12N-TB QE1 S16R-TB B61, B62	TQS 20 TQJ 20 B147-B148

QE1 TQHR-TB

Modular heads for parting and grooving with high pressure coolant



COOLBURST



Designation	Dimension (mm)					Shank	Insert
	OAH	LH	OAW	H ₁	F		
QE1 TQHR 20-TB	23.7	22.0	16.2	6.0	6.0	QE1 S12N-TB QE1 S16R-TB B61, B62	TQS 20 TQJ 20 B147-B148

Spare parts

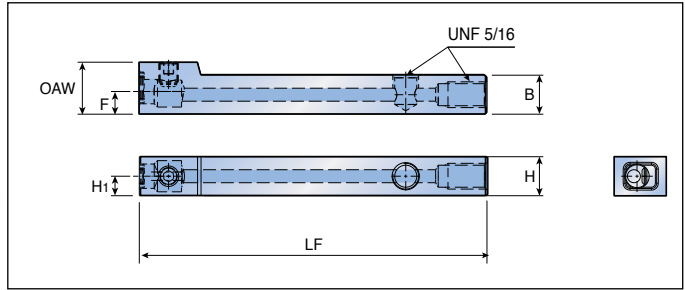
Designation	Screw	Wrench		
	QE1 TQHR(-TB)	 TS 40A100L	 T-1508/5	

QE1 S12N-TB

High pressure coolant shanks for FLEX-TURN modular head



COOLBURST



Designation	Dimension (mm)						Modular head
	H	H ₁	B	LF	OAW	F	
QE1 S12N-TB	12	6	12	107	16	7	QE1...R/L(-TB) B58-B60

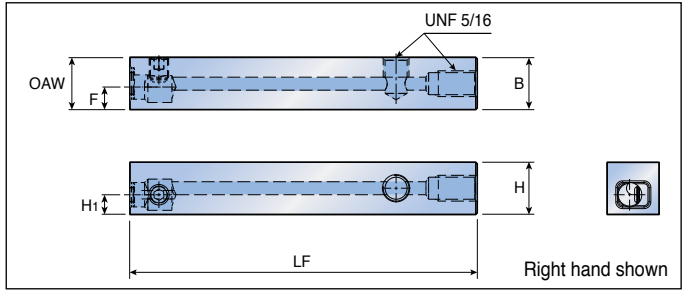
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw	Plug	Wrench	
QE1 ...-TB	SS M6F-7	PLG 5/16 UNF	L-W 3	L-W 5/32

QE1 S16R-TB

High pressure coolant shanks for FLEX-TURN modular head



Designation	Dimension (mm)						Modular head
	H	H ₁	B	LF	OAW	F	
QE1 S16R-TB	16	6	16	107	16	7	QE1...R/L(-TB) B58-B60

• Please refer to B106 page for COOL-BURST accessories

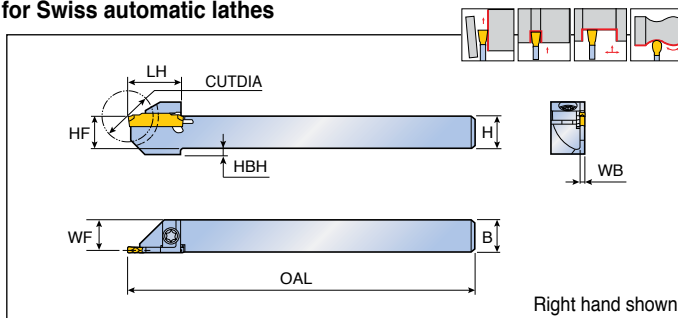
Spare parts

Designation	Screw	Plug	Wrench	
QE1 ...-TB	SS M6F-7	PLG 5/16 UNF	L-W 3	L-W 5/32

TTER/L-SH



Parting and grooving holders for Swiss automatic lathes



Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	HBH	CUTDIA	
TTER/L 10-20-1.4SH	1 *	10	10	125	18	9.5	1.0	-	20	TDC / J / T
12-24-1.4SH	1 *	12	12	125	19.5	11.5	1.0	-	24	TDXU / XT / XY
14-24-1.4SH	1 *	14	14	125	19.5	13.5	1.0	-	24	TSC / J
16-32-1.4SH	1 *	16	16	125	24	15.5	1.0	-	32	TDUF / TDV
10-20-2SH	2	10	10	125	19	9.1	1.8	2	20	B113-B123
12-24-2SH	2	12	12	125	19	11.1	1.8	2	24	
14-24-2SH	2	14	14	125	19	13.1	1.8	-	24	
16-32-2SH	2	16	16	125	24	15.1	1.8	-	32	
12-24-3SH	3	12	12	125	19	10.8	2.4	2	24	
16-32-3SH	3	16	16	125	24	14.8	2.4	-	32	
16-38-3SH	3	16	16	125	27	14.8	2.4	-	38	
20-45-3SH	3	20	20	125	30.5	18.8	2.4	-	45	

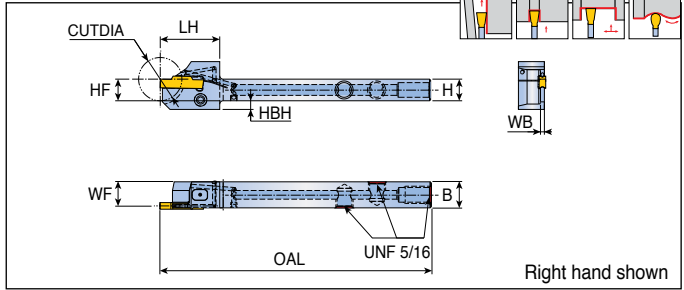
* TDJ 1.4 insert only

Spare parts

Designation	Screw	Wrench		
TTER/L- SH	TS 40A115I	T 15		

TTER/L-SH-TB

Side lock holders with high pressure coolant for Swiss automatic lathes



Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	HBH	CUTDIA	
TTER/L 12-24-2SH-TB	2	12	12	125	27.5	11.1	1.8	2	24	TDC / J / T / A
16-32-2SH-TB	2	16	16	125	31.5	15.1	1.8	-	32	TDXU / XT / XY
12-24-3SH-TB	3	12	12	125	27.5	10.8	2.4	2	24	TSC / J
16-32-3SH-TB	3	16	16	125	31.5	14.8	2.4	-	32	TDFU / TDV
16-38-3SH-TB	3	16	16	125	34.5	14.8	2.4	-	38	B113-B123
20-45-3SH-TB	3	20	20	125	38	18.8	2.4	-	45	

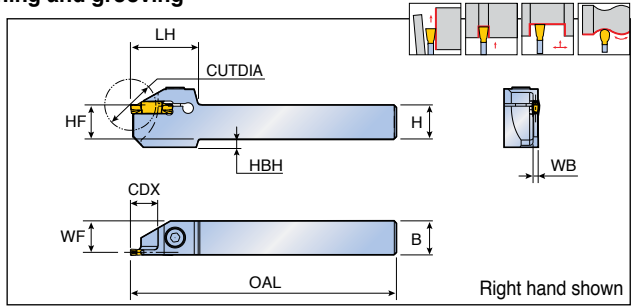
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Pin	Clamping screw	Pin plug	Inlet plug	Wrench	
TTER/L...SH-TB	PIN-SH-TB-L21	SS M5-24145	SS M5x3.5 ULTEM 2300	PLG 5/16 UNF	L-W 2.5F	L-W 5/32

TTER/L-D

Reinforced holders for external turning and grooving



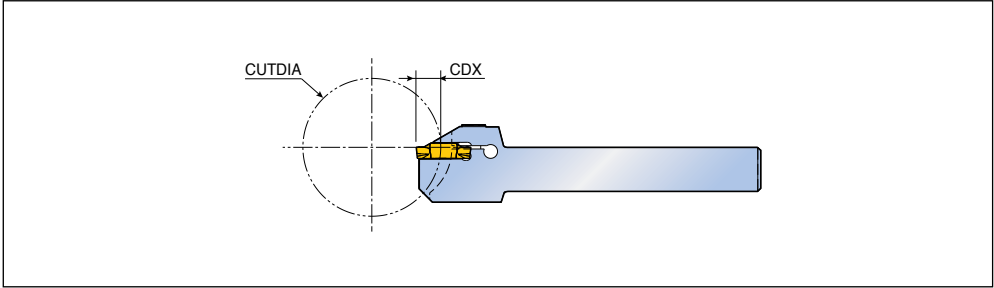
Designation	Insert seat size	Dimension (mm)									Insert	
		H(HF)	B	OAL	LH	WF	WB	HBH	CDX	CUTDIA		
TTER/L 1010-1.4T15-D40	1 *	10	10	125	32	9.5	1.0	6	15	40	TDC / J / T	
1212-1.4T15-D40	1 *	12	12	125	32	11.5	1.0	4	15	40	TDXU / XT / XY	
1616-1.4T20-D45	1 *	16	16	125	38	15.5	1.0	4	20	45	TSC / J	
2020-1.4T20-D45	1 *	20	20	125	38	19.5	1.0	-	20	45	TDUF / TDV	
1010-2T15-D40	2	10	10	125	32	9.1	1.8	6	15	40	 B113-B123	
1212-2T15-D40	2	12	12	125	32	11.1	1.8	4	15	40		
1616-2T20-D45	2	16	16	125	38	15.1	1.8	4	20	45		
2020-2T20-D45	2	20	20	125	38	19.1	1.8	-	20	45		
2525-2T20-D45	2	25	25	150	38	24.1	1.8	-	20	45		
1212-3T15-D40	3	12	12	125	32	10.8	2.4	4	15	40		
1616-3T20-D45	3	16	16	125	38	14.8	2.4	4	20	45		
2020-3T20-D45	3	20	20	125	38	18.8	2.4	-	20	45		
2525-3T20-D45	3	25	25	150	38	23.8	2.4	-	20	45		
2525-3T25-D60	3	25	25	150	43	23.8	2.4	-	25	60		

* TDJ 1.4 insert only

Spare parts

Designation	Screw	Wrench		
TTER/L-D	SH M5x0.8x16	L-W 4		

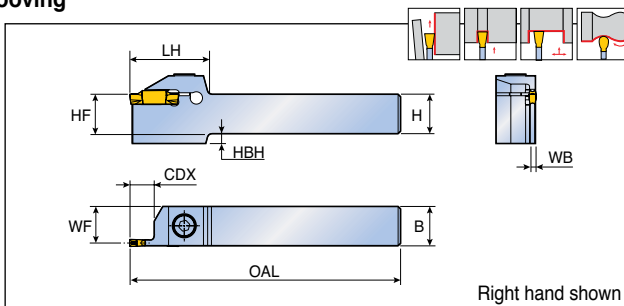
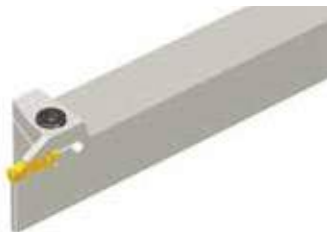
Machining depth for diameter of workpiece



Designation	CUTDIA	CDX												
		1	2	3	4	5	6	7	8	9	10	11	12	13
TTER/L 1010-1.4T15-D40	CUTDIA					∞						269	120	79
1212-1.4T15-D40						∞						269	120	79
1616-1.4T20-D45						∞								432
2020-1.4T20-D45						∞								432
1010-2T15-D40						∞						269	120	79
1212-2T15-D40						∞						269	120	79
1616-2T20-D45						∞								432
2020-2T20-D45						∞								432
2525-2T20-D45						∞				1468	339	193	136	106
1212-3T15-D40						∞						269	120	79
1616-3T20-D45						∞								432
2020-3T20-D45						∞								432
2525-3T20-D45						∞				1468	339	193	136	106
2525-3T25-D60						∞								

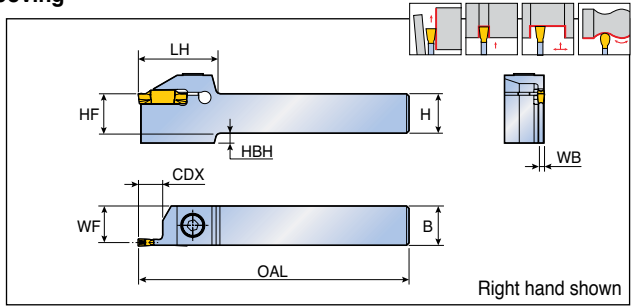
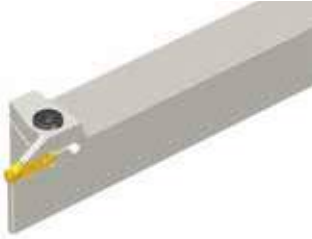
Designation	CUTDIA	CDX												
		14	15	16	17	18	19	20	21	22	23	24	25	
TTER/L 1010-1.4T15-D40	CUTDIA	59	40											
1212-1.4T15-D40		59	40											
1616-1.4T20-D45		193	125	94	76	64	57	45						
2020-1.4T20-D45		193	125	94	76	64	57	45						
1010-2T15-D40		59	40											
1212-2T15-D40		59	40											
1616-2T20-D45		193	125	94	76	64	57	45						
2020-2T20-D45		193	125	94	76	64	57	45						
2525-2T20-D45		87	75	67	60	56	52	45						
1212-3T15-D40		59	40											
1616-3T20-D45		193	125	94	76	64	57	45						
2020-3T20-D45		193	125	94	76	64	57	45						
2525-3T20-D45		87	75	67	60	56	52	45						
2525-3T25-D60					1810	418	237	167	130	107	91	81	73	60

Holders for external turning and grooving



Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	HBH	CDX	
TTER/L 1616-2T08	2	16	16	110	33.0	15.1	1.8	4	8	TDC / J / T / A
2020-2T08	2	20	20	125	33.0	19.1	1.8	-	8	TDXU / XT / XY
2525-2T08	2	25	25	150	33.0	24.1	1.8	-	8	TSC / J / A
1616-2	2	16	16	110	32.0	15.1	1.8	4	12	TDUF / TDV
2020-2	2	20	20	125	32.0	19.1	1.8	-	12	
2525-2	2	25	25	150	32.0	24.1	1.8	-	12	B113-B123,B126
1616-2T17	2	16	16	110	37.0	15.1	1.8	4	17	
2020-2T17	2	20	20	125	37.0	19.1	1.8	-	17	
2525-2T17	2	25	25	150	37.0	24.1	1.8	-	17	
TTER/L 1616-3T09	3	16	16	110	32.0	14.8	2.4	4	9	
2020-3T09	3	20	20	125	32.0	18.8	2.4	-	9	
2525-3T09	3	25	25	150	32.0	23.8	2.4	-	9	
1616-3	3	16	16	110	32.0	14.8	2.4	4	12	
2020-3	3	20	20	125	32.0	18.8	2.4	-	12	
2525-3	3	25	25	150	32.0	23.8	2.4	-	12	
1616-3T20	3	16	16	110	38.5	14.8	2.4	-	20	
2020-3T20	3	20	20	125	38.5	18.8	2.4	-	20	
2525-3T20	3	25	25	150	38.5	23.8	2.4	-	20	
2525-3T25	3	25	25	150	44.5	23.8	2.4	-	25	
3232-3T20	3	32	32	170	38.5	30.8	2.4	-	20	
TTER/L 1616-4T10	4	16	16	110	32.0	14.5	3.0	4	10	
2020-4T10	4	20	20	125	32.0	18.5	3.0	-	10	
2525-4T10	4	25	25	150	32.0	23.5	3.0	-	10	
1616-4	4	16	16	110	33.0	14.5	3.0	4	15	
2020-4	4	20	20	125	33.0	18.5	3.0	-	15	
2525-4	4	25	25	150	33.0	23.5	3.0	-	15	
1616-4T25	4	16	16	110	45.0	14.5	3.0	-	25	
2020-4T25	4	20	20	125	45.0	18.5	3.0	-	25	
2525-4T25	4	25	25	150	45.0	23.5	3.0	-	25	
2525-4T30	4	25	25	150	51.0	23.5	3.0	-	30	
3232-4T25	4	32	32	170	45.0	30.5	3.0	-	25	
TTER/L 2020-5T12	5	20	20	125	37.0	18.1	3.9	-	12	
2525-5T12	5	25	25	150	37.0	23.1	3.9	-	12	
2020-5	5	20	20	125	37.0	18.1	3.9	-	20	
2525-5	5	25	25	150	37.0	23.1	3.9	-	20	
2525-5T32	5	25	25	150	56.0	23.0	3.9	-	32	
3232-5T20	5	32	32	170	39.0	30.0	3.9	-	20	
3232-5T32	5	32	32	170	56.0	30.0	3.9	-	32	

HOLDERS FOR external turning and grooving



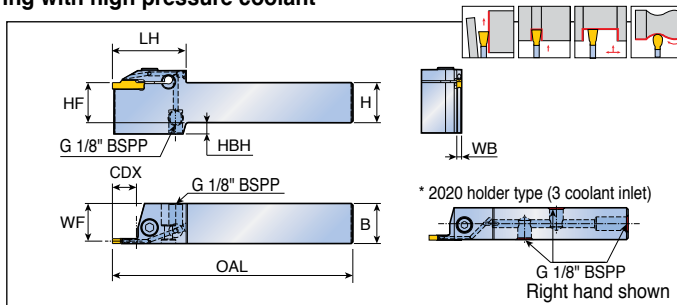
Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	HBH	CDX	
TTER/L 2020-6T12	6	20	20	125	37	17.6	4.9	-	12	TDC / J / T / A
2525-6T12	6	25	25	150	37	22.6	4.9	7	12	TDXU / XT / XY
2020-6	6	20	20	125	41	17.6	4.9	-	20	TSC / J / A
2525-6	6	25	25	150	41	22.6	4.9	7	20	TDUF / TDV
2525-6T32	6	25	25	150	56	22.5	4.9	7	32	
3232-6T20	6	32	32	170	41	29.5	4.9	-	20	B113-B123, B126
3232-6T25	6	32	32	170	46	29.5	4.9	-	25	
3232-6T32	6	32	32	170	56	29.5	4.9	-	32	
TTER/L 2525-8T16	8	25	25	150	47	22.1	5.9	7	16	
2525-8	8	25	25	150	47	22.1	5.9	7	25	
3232-8	8	32	32	170	47	29.1	5.9	-	25	
2525-8T36	8	25	25	150	60	22.1	5.9	7	36	
3232-8T36	8	32	32	170	60	29.1	5.9	-	36	
TTER/L 2525-10T25	10	25	25	150	50	21.1	7.9	7	25	
3232-10T25	10	32	32	170	50	28.1	7.9	-	25	
4040-10T25	10	40	40	200	50	36.1	7.9	-	25	

Spare parts

Designation	Screw	Wrench		
TTER/L 1616-2/3	SH M5x0.8x16	L-W 4		
TTER/L 2020-2/3	SH M5x0.8x20	L-W 4		
TTER/L 2525-2/3	SH M5x0.8x25	L-W 4		
TTER/L 3232-3	SH M5x0.8x25	L-W 4		
TTER/L 1616-4/5	SH M6x1x16	L-W 5		
TTER/L 2020-4/5	SH M6x1x20	L-W 5		
TTER/L 2525-4/5	SH M6x1x25	L-W 5		
TTER/L 3232-4/5	SH M6x1x25	L-W 5		
TTER/L 2020-6	SH M8x1.25x20	L-W 6		
TTER/L 2525-6/8	SH M8x1.25x25	L-W 6		
TTER/L 3232-6/8/10	SH M8x1.25x25	L-W 6		
TTER/L 4040-10	SH M8x1.25x25	L-W 6		

TTER/L-TB

Holders for turning and grooving with high pressure coolant



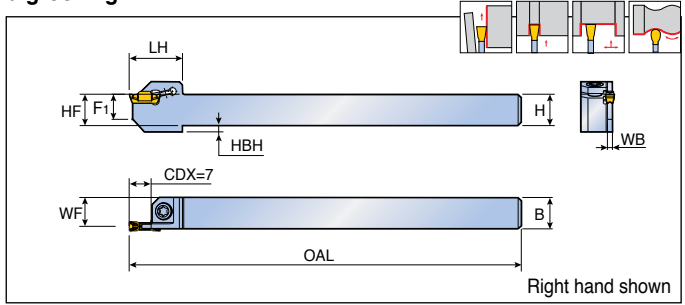
Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	HBH	CDX	
TTER/L 2020-2T12-TB	2	20	20	125	43	19.1	1.8	-	12	TDC / J / T / A
2525-2T12-TB	2	25	25	150	43	24.1	1.8	-	12	TDXU / XT / XY
2020-3-TB	3	20	20	125	43	18.8	2.4	-	12	TSC / J / A
2020-4-TB	4	20	20	125	46	18.5	3.0	-	15	TDUF / TDV
2525-3-TB	3	25	25	150	43	23.8	2.4	-	12	 B113-B123, B126
2525-4-TB	4	25	25	150	46	23.5	3.0	-	15	
2525-5-TB	5	25	25	150	49	23.1	3.9	-	20	
2525-6-TB	6	25	25	150	52	22.6	4.9	7	20	
2525-8-TB	8	25	25	150	58	22.1	5.9	7	25	

• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw	Plug		Wrench
TTER/L 2020-2T12-TB	SH M5x0.8x20	PLG G1/8-L6.5	-	L-W 4, L-W 5
TTER/L 2525-2T12-TB	SH M5x0.8x20	-	PLG G1/8-T8.0-L12.3	L-W 4, L-W 5
TTER/L 2020-3-TB	SH M5x0.8x20	PLG G1/8-L6.5	-	L-W 4, L-W 5
TTER/L 2020-4-TB	SH M6x1.0x20	PLG G1/8-L6.5	-	L-W 5
TTER/L 2525-3-TB	SH M5x0.8x20	-	PLG G1/8-T8.0-L12.3	L-W 4, L-W 5
TTER/L 2525-4 / 5-TB	SH M6x1.0x20	-	PLG G1/8-T8.0-L12.3	L-W 5
TTER/L 2525-6 / 7-TB	SH M8x1.25x20	-	PLG G1/8-T8.0-L12.3	L-W 5, L-W 6

Holders for external turning and grooving

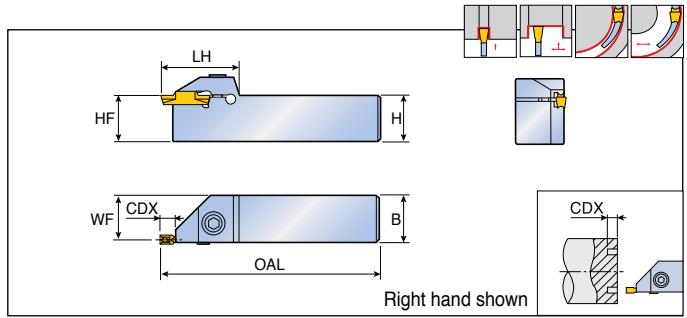


Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	WB	F1	HBH	
TTSER/L 1010-2T7	2	10	10	125	17	9.2	1.6	8	2	TDIM / TDIP B125
1212-2T7	2	12	12	125	17	11.2	1.6	8	-	
1616-2T7	2	16	16	125	20	15.2	1.6	11	-	
2020-2T7	2	20	20	125	20	19.2	1.6	14	-	
2525-2T7	2	25	25	125	20	24.2	1.6	18	-	
1010-3T7	3	10	10	125	17	8.8	2.4	8	2	
1212-3T7	3	12	12	125	17	10.8	2.4	8	-	
1616-3T7	3	16	16	125	20	14.8	2.4	11	-	
2020-3T7	3	20	20	125	20	18.8	2.4	14	-	
2525-3T7	3	25	25	125	20	23.8	2.4	18	-	

Spare parts

Designation	Screw	Wrench		
TTSER/L	TS 400971	T 15		

Holders for shallow grooving



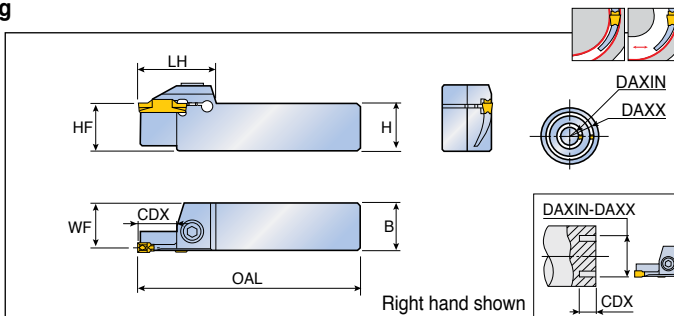
Designation	Insert seat size	Dimension (mm)						Insert
		H(HF)	B	OAL	LH	WF	CDX	
TGFR/L 1616-4	2, 3, 4	16	16	110	33	14.5	4.8	TDC / J / T
2020-4	2, 3, 4	20	20	125	33	18.5	4.8	TDXU / XT / XY / FT
2525-4	2, 3, 4	25	25	150	33	23.5	4.8	TSC / J
2020-6	5, 6	20	20	125	37	17.6	4.8	TDUF / TDV
2525-6	5, 6	25	25	150	37	22.6	4.8	B113-B121,B123

- External turning & grooving is available depending on the insert type
- Please check insert min. dia for face grooving [B74](#) page

Spare parts

Designation	Screw	Wrench		
TGFR/L 1616	SH M6x1x16	L-W 5		
TGFR/L 2020	SH M6x1x20	L-W 5		
TGFR/L 2525	SH M6x1x25	L-W 5		

HOLDERS for deep face grooving



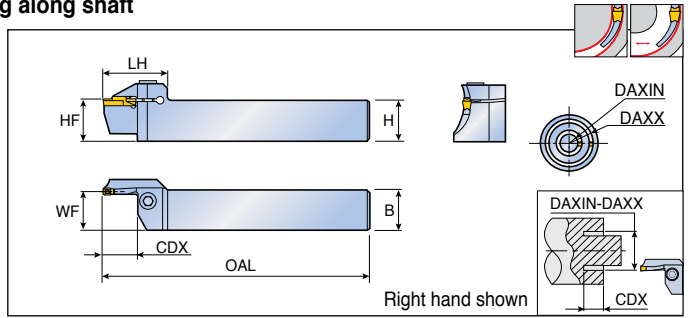
Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	CDX	DAXIN	DAXX	
TTFR/L 25-30-3	3	25	25	150	32	24.0	10	24	35	TDC / J / T TDXU / XT / XY / FT TSC / J TDUF / TDV B113-B121,B123
25-35-3	3	25	25	150	32	24.0	10	29	40	
25-40-3	3	25	25	150	32	24.0	10	34	50	
25-50-3	3	25	25	150	32	24.0	15	44	60	
25-60-3	3	25	25	150	32	24.0	15	54	85	
25-30-4	4	25	25	150	33	23.6	12	22	40	
25-40-4	4	25	25	150	33	23.6	15	32	50	
25-50-4	4	25	25	150	33	23.6	15	42	60	
25-60-4	4	25	25	150	33	23.6	15	52	85	
25-60-5	5	25	25	150	41	23.1	20	50	80	
25-80-5	5	25	25	150	41	23.1	20	70	110	
25-110-5	5	25	25	150	41	23.1	20	110	150	
25-150-5	5	25	25	150	41	23.1	20	140	200	
25-60-6	6	25	25	150	41	22.6	20	48	85	
25-85-6	6	25	25	150	41	22.6	20	73	150	
25-150-6	6	25	25	150	41	22.6	20	138	250	
25-250-6	6	25	25	150	41	22.6	20	250	∞	

• Please check insert min. dia for face grooving [B74](#) page

Spare parts

Designation	Screw	Wrench		
TTFR/L...-3	SH M5x0.8x25	L-W 4		
TTFR/L...-4	SH M6x1x25	L-W 5		
TTFR/L...-5	SH M8X1.25X25	L-W 5		
TTFR/L...-6	SH M8X1.25X25	L-W 5		

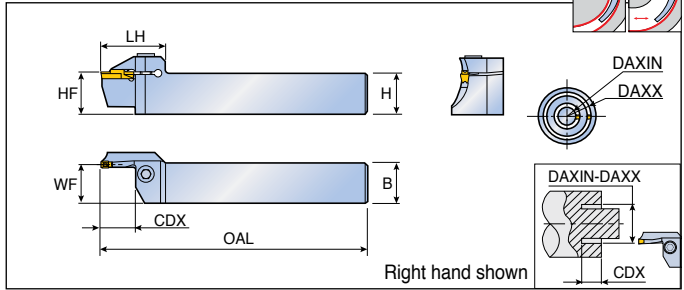
Holders for deep face grooving along shaft



Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	CDX	DAXIN	DAXX	
TTFR/L 20-21-30-3T10 RN	3	20	20	140	31	19.0	10	21	30	TDC / J / T
20-24-35-3T10 RN	3	20	20	140	31	19.0	10	24	35	TDXU / XT / XY
20-29-40-3T10 RN	3	20	20	140	31	19.0	10	29	40	TDFT
20-34-50-3T10 RN	3	20	20	140	31	19.0	10	34	50	TSC / J
20-44-70-3T15 RN	3	20	20	140	35	19.0	15	44	70	TDUF / TDV
20-64-100-3T15 RN	3	20	20	140	35	19.0	15	64	100	
25-30-3 RN	3	25	25	150	38	24.0	10	24	35	B113-B121,B123
25-35-3 RN	3	25	25	150	38	24.0	10	29	40	
25-40-3 RN	3	25	25	150	38	24.0	10	34	50	
25-50-3 RN	3	25	25	150	38	24.0	15	44	70	
25-70-3 RN	3	25	25	150	38	24.0	15	64	100	
20-19-30-4T10 RN	4	20	20	140	31	18.6	10	19	30	
20-22-36-4T10 RN	4	20	20	140	31	18.6	10	22	36	
20-28-42-4T16 RN	4	20	20	140	36	18.6	16	28	42	
20-34-50-4T16 RN	4	20	20	140	36	18.6	16	34	50	
20-42-70-4T16 RN	4	20	20	140	36	18.6	16	42	70	
20-62-120-4T16 RN	4	20	20	140	36	18.6	16	62	120	
20-112-200-4T16 RN	4	20	20	140	36	18.6	16	112	200	
25-30-4 RN	4	25	25	150	39	23.6	10	22	36	
25-36-4 RN	4	25	25	150	39	23.6	20	28	42	
25-42-4 RN	4	25	25	150	39	23.6	20	34	50	
25-50-4 RN	4	25	25	150	39	23.6	20	42	70	
25-70-4 RN	4	25	25	150	39	23.6	20	62	120	
25-120-4 RN	4	25	25	150	39	23.6	20	112	200	
25-200-4 RN	4	25	25	150	39	23.6	20	200	∞	
25-60-5T15 RN	5	25	25	150	41	23.1	15	50	80	
25-60-5 RN	5	25	25	150	49	23.1	25	50	80	
25-80-5T15 RN	5	25	25	150	41	23.1	15	70	110	
25-80-5 RN	5	25	25	150	49	23.1	25	70	110	
25-110-5 RN	5	25	25	150	49	23.1	25	100	150	
25-150-5 RN	5	25	25	150	49	23.1	25	140	200	
25-200-5 RN	5	25	25	150	49	23.1	25	200	∞	

• Please check insert min. dia for face grooving B74 page

Holders for deep face grooving along shaft



Designation	Insert seat size	Dimension (mm)								Insert
		H(HF)	B	OAL	LH	WF	CDX	DAXIN	DAXX	
TTFR/L 25-60-6 RN	6	25	25	150	49	22.6	25	48	70	TDC / J / T
25-70-6 RN	6	25	25	150	49	22.6	25	58	100	TDXU / XT / XY / FT
25-100-6 RN	6	25	25	150	49	22.6	25	88	180	TSC / J
25-180-6 RN	6	25	25	150	49	22.6	25	168	400	TDUF / TDV
25-400-6 RN	6	25	25	150	49	22.6	25	400	∞	B113-B121,B123

• Please check insert min. dia for face grooving [B74](#) page

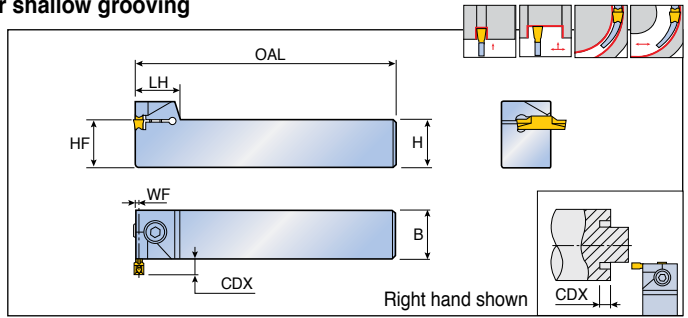
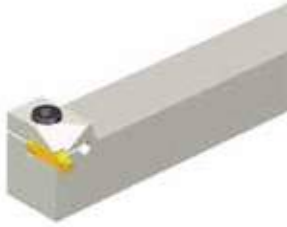
Insert initial min.Dia (Dmin) for face grooving


Machining	Insert	Size (mm)	Min. dia. (mm)	Insert	Size (mm)	Min. dia. (mm)
Facing Min. dia. of face machining 	TDJ/C TDUF / TDV	3	54	TDT RU TDT RS	3	41
		4	34		4	36
		5	49		5	54
		6	46		6	54
	TDT	3	44	TDXU TDXT TDXY TDFT	3	18
		4	42		4	18
5		50	5		20	
6		48	6		18	

Spare parts

Designation	Screw	Wrench		
TTFR/L 20...RN	SH M6x1x20	L-W 5		
TTFR/L 25...3/4 RN	SH M6x1x25	L-W 5		
TTFR/L 25...5/6 RN	SH M8x1.25x25	L-W 6		



Perpendicular type holders for shallow grooving



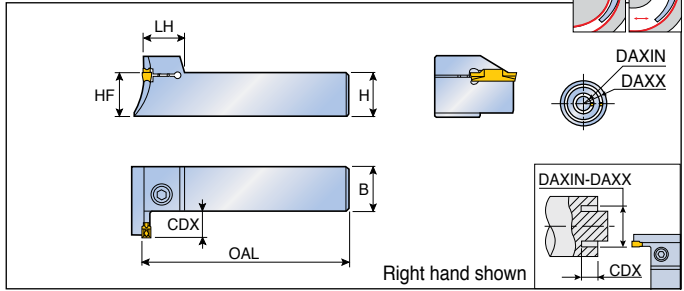
Designation	Insert seat size	Dimension (mm)							Insert
		H	HF	B	OAL	LH	WF	CDX	
TGFPR/L 2020-4	2, 3, 4	20	20	20	125	18	1.5	4.8	TDC / J / T
2525-4	2, 3, 4	25	25	25	150	18	1.5	4.8	TDXU / XT / XY / FT
2525-6	5, 6	25	25	25	150	22	2.5	4.8	TSC / J
									TDUF / TDV
									
									B113-B121, B123

- External Turning & Grooving is available depending on the insert
- Please check insert min. dia for face grooving [B74](#) page

Spare parts

Designation	Screw	Wrench		
				
TGFPR/L 2020	SH M6x1x20	L-W 5		
TGFPR/L 2525	SH M6x1x25	L-W 5		
TGFPR/L 2525	SH M6x1x25	L-W 5		

Perpendicular type holders for deep face grooving



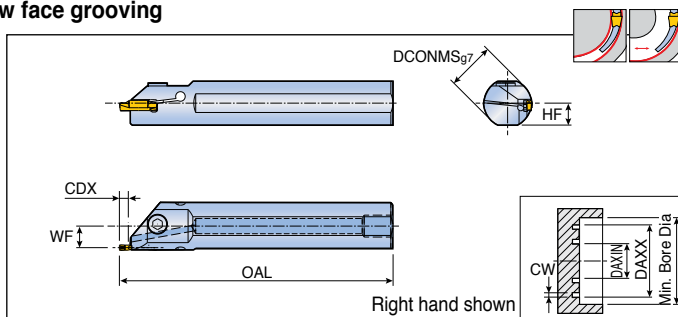
Designation	Insert seat size	Dimension (mm)							Insert
		H(HF)	B	OAL	LH	CDX	DAXIN	DAXX	
TTFPR/L 25-30-3	3	25	25	150	18.0	10	24	35	TDC / J / T
25-35-3	3	25	25	150	18.0	10	29	40	TDXU / XT / XY / FT
25-40-3	3	25	25	150	18.0	10	34	50	TSC / J
25-50-3	3	25	25	150	18.0	15	44	60	TDFU / TDV
25-60-3	3	25	25	150	18.0	15	54	85	B113-B121,B123
25-30-4	4	25	25	150	18.5	12	22	40	
25-40-4	4	25	25	150	18.5	15	32	50	
25-50-4	4	25	25	150	18.5	15	42	60	
25-60-4	4	25	25	150	18.5	15	52	85	
25-60-5	5	25	25	150	22.0	20	50	80	
25-80-5	5	25	25	150	22.0	20	70	110	
25-110-5	5	25	25	150	22.0	20	100	150	
25-150-5	5	25	25	150	22.0	20	140	200	
25-200-5	5	25	25	150	22.0	20	200	∞	
25-60-6	6	25	25	150	22.0	20	48	85	
25-85-6	6	25	25	150	22.0	20	73	150	
25-150-6	6	25	25	150	22.0	20	138	250	
25-250-6	6	25	25	150	22.0	20	250	∞	

• Please check insert min. dia for face grooving B74 page

Spare parts

Designation	Screw	Wrench		
TTFPR/L...-3	SH M5x0.8x25	L-W 4		
TTFPR/L...-4	SH M6x1x25	L-W 5		
TTFPR/L...-5	SH M8x1.25x25	L-W 6		
TTFPR/L...-6	SH M8x1.25x25	L-W 6		

Internal boring bars for shallow face grooving

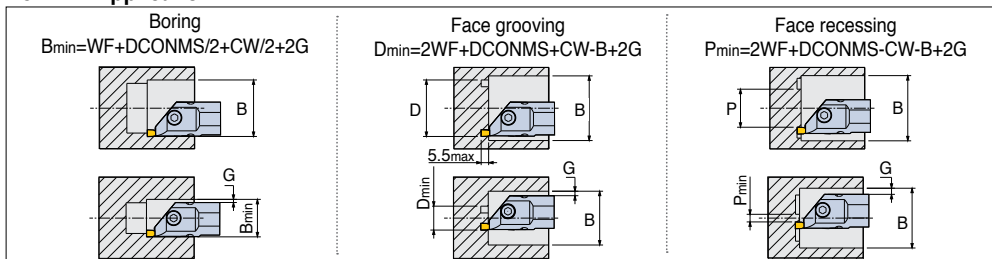


Designation	Insert seat size	Dimension (mm)					Insert
		DCONMS	OAL	WF	HF	CDX	
TGIFR/L 25-4C-T5.5	3, 4	25	200	11.3	11.5	5.5	TDC / J / T
32-4C-T5.5	3, 4	32	250	14.8	15.0	5.5	TDXU / XT / XY / FT
25-6C-T5.5	5, 6	25	200	10.3	11.5	5.5	TSC / J
32-6C-T5.5	5, 6	32	250	13.8	15.0	5.5	TDUF / TDV
							B113-B121, B123

• Please check insert min. dia for face grooving [B74](#) page

CW	Min. Bore Dia		DAXIN				DAXX
	DCONMS ø25	DCONMS ø32	TDC/J/U/F/V	TDFT / TDXU / TDXT	TDT	TDT-RU/RS	
3	26.3	33.3	54	18	44	41	∞
4	26.8	33.8	34	18	42	36	
5	26.3	33.3	49	20	50	54	
6	26.8	33.8	46	18	48	54	

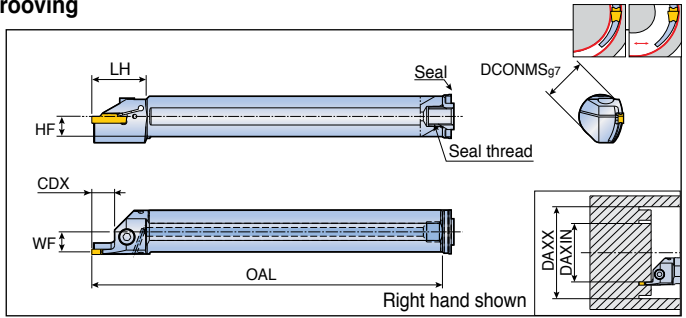
TGIFR/L Application



Spare parts

Designation	Screw	Wrench	Seal	
TGIFR/L 25	SH M6x1x16	L-W 5	PL 25 (R1/8")	
TGIFR/L 32	SH M6x1x16	L-W 5	PL 32 (R1/8")	

Internal boring bars for face grooving



Designation	Insert seat size	Dimension (mm)									Insert
		DCONMS	OAL	LH	WF	HF	CDX	DAXIN	DAXX		
TTFIR/L 25-3T12 20-33	3	25	200	31	11.5	11.5	12	20	33	TDC / J / T	
25-3T12 26-39	3	25	200	31	11.5	11.5	12	26	39	TDXU / XT / XY	
25-3T12 33-48	3	25	200	31	11.5	11.5	12	33	48	TDFT	
25-3T12 42-60	3	25	200	31	11.5	11.5	12	42	60	TSC / J	
25-3T12 54-85	3	25	200	31	11.5	11.5	12	54	85	TDUF / TDV	
25-3T12 79-150	3	25	200	31	11.5	11.5	12	79	150		
25-4T12 18-34	4	25	200	31	11.0	11.5	12	18	34	B113-B121, B123	
25-4T12 26-42	4	25	200	31	11.0	11.5	12	26	42		
25-4T12 34-55	4	25	200	31	11.0	11.5	12	34	55		
32-4T12 47-70	4	32	250	31	14.5	15.0	12	47	70		
32-4T12 62-100	4	32	250	31	14.5	15.0	12	62	100		
32-4T12 92-180	4	32	250	31	14.5	15.0	12	92	180		

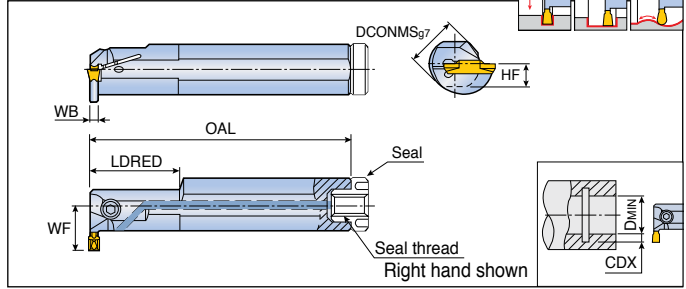
• Please check insert min. dia for face grooving [B74](#) page

Spare parts

Designation	Screw	Wrench	Seal	
TTFIR/L 25	SH M5x0.8x16	L-W 4	PL 25 (R1/8")	
TTFIR/L 32	SH M5x0.8x16	L-W 4	PL 32 (R1/8")	

TTIR/L-C

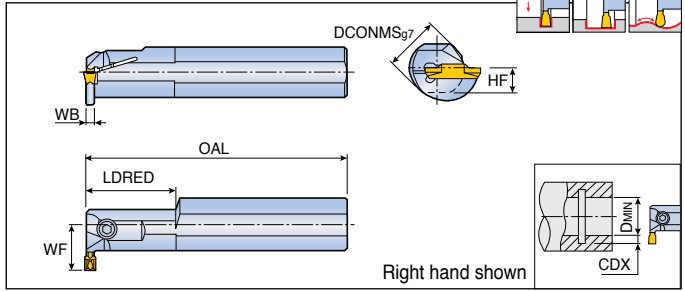
Internal boring bars for turning and grooving with coolant hole



Designation	Insert seat size	Dimension (mm)								Insert
		DCONMS	OAL	LDRED	WF	HF	WB	CDX	DMIN	
TTIR/L 16-2C	2	16	125	-	16.5	7.5	1.8	8.5	25	TDC / J / T
20-2C	2	20	160	40	15.8	9.0	1.6	6.0	25	TDXU / XT / XY / IT
25-2C	2	25	200	40	17.5	11.5	1.6	5.0	25	TSC / J
32-2C-T8	2	32	250	40	24.8	14.0	1.8	8.0	36	TDUF / TDV
20-3C	3	20	160	40	15.8	9.0	2.1	6.0	25	B113-B124
25-3C	3	25	200	40	17.5	11.5	2.1	5.1	25	
25-3C-T8	3	25	200	40	21.5	11.5	2.4	8	32	
32-3C	3	32	250	60	20.8	14.0	2.1	4.7	31	
32-3C-T10	3	32	250	60	27.0	15.0	2.4	10	40	
40-3C-T12	3	40	300	65	33.0	19.0	2.4	12	50	
20-4C	4	20	160	40	15.8	9.0	2.9	6.0	25	
25-4C	4	25	200	40	17.5	11.5	2.9	5.2	25	
25-4C-T8	4	25	200	40	21.5	11.5	3.0	8	32	
32-4C	4	32	250	60	20.8	14.0	2.9	4.7	31	
32-4C-T10	4	32	250	60	27.0	15.0	3.0	10	40	
40-4C-T12	4	40	300	65	33.0	19.0	3.0	12	50	
50-4C-T14	4	50	350	70	40.0	23.5	3.0	14	60	
25-5C	5	25	200	40	17.3	11.5	3.9	5.2	31	
32-5C	5	32	250	60	20.8	14.0	3.9	4.7	31	
32-5C-T10	5	32	250	60	27.0	15.0	3.9	10	40	
40-5C-T12	5	40	300	65	33.0	19.0	3.9	12	50	
50-5C-T14	5	50	350	70	40.0	23.5	3.9	14	60	
32-6C	6	32	250	60	20.8	14.0	4.9	4.7	31	
32-6C-T10	6	32	250	60	27.0	15.0	4.9	10	40	
40-6C-T12	6	40	300	65	33.0	19.0	4.9	12	50	
50-6C-T14	6	50	350	70	40.0	23.5	4.9	14	60	
32-8C	8	32	250	60	21.3	14.5	5.9	5.5	37	
40-8C	8	40	300	65	25.8	19.0	5.9	5.8	42	

• Please check insert min. dia for internal grooving B80 page

Internal boring bars for turning and grooving



Designation	Insert seat size	Dimension (mm)								Insert
		DCONMS	OAL	LDRED	WF	HF	WB	CDX	DMIN	
TTIR/L 16-2	2	16	125	-	16.5	7.5	1.8	8.5	25	TDC / J / T TDUX / XT / XY / IT TSC / J TDUF / TDV B113-B124
20-2	2	20	160	40	15.8	9.0	1.6	6.0	25	
25-2	2	25	200	40	17.5	11.5	1.6	5.0	25	
32-2	2	32	250	60	20.8	14.0	1.5	4.7	31	
20-3	3	20	160	40	15.8	9.0	2.1	6.0	25	
25-3	3	25	200	40	17.5	11.5	2.1	5.1	25	
32-3	3	32	250	60	20.8	14.0	2.1	4.7	31	
20-4	4	20	160	40	15.8	9.0	2.9	6.0	25	
25-4	4	25	200	40	17.5	11.5	2.9	5.2	25	
32-4	4	32	250	60	20.8	14.0	2.9	4.7	31	

- Without "C" on the description: non-coolant hole type
- Please check insert min. dia for internal grooving [B80](#) page

Machining	TDJ/C/UF/V		TDT		TDT RU/RS		TDUX / TDIT / TDXT / TDXY	
	Size (mm)	Min. dia. (mm)	Size (mm)	Min. dia. (mm)	Size (mm)	Min. dia. (mm)	Size (mm)	Min. dia. (mm)
Internal grooving Min. dia. of internal machining 	2	40	3	40	2	41	2	24
	3	50	4	40	3	38	3	24
	4	50	5	50	4	38	4	21
	5	60	6	50	5	43	5	30
	6	60	8	62	6	46	6	31
	8	70			8	56	8	33

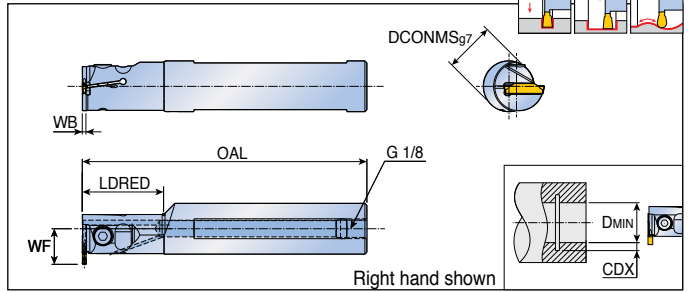
Spare parts

Designation	Screw	Wrench	Seal *
TTIR/L 16-2	SH M5x0.8x10	L-W 4	PL 16 (M6)
TTIR/L 20-2/3/4	SH M5x0.8x12	L-W 4	PL 20 (M6)
TTIR/L 25-2/3/4	SH M5x0.8x16	L-W 4	PL 25 (R1/8")
TTIR/L 32-2/3/4	SH M5x0.8x16	L-W 4	PL 32 (R1/8")
TTIR/L 40-3/4	SH M5x0.8x16	L-W 4	PL 40 (R1/8")
TTIR/L 50-4	SH M5x0.8x20	L-W 4	PL 40 (R1/8")
TTIR/L 25-5/6	SH M6x1x16	L-W 5	PL 25 (R1/8")
TTIR/L 32-5/6	SH M6x1x20	L-W 5	PL 32 (R1/8")
TTIR/L 40/50-5/6	SH M6x1x25	L-W 5	PL 40 (R1/8")

* For through coolant type only

TTIR/L-TB

Internal boring bars for turning and grooving with high pressure coolant



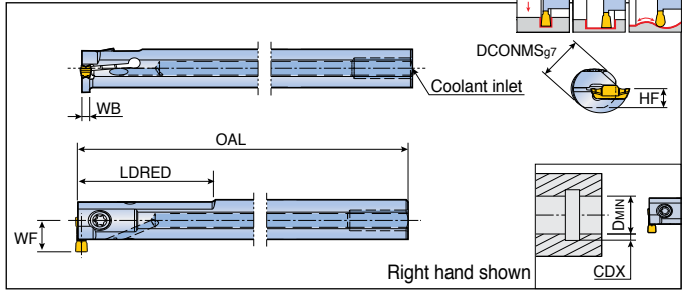
Designation	Insert seat size	Dimension (mm)								Insert
		DCONMS	OAL	LDRED	WF	WB	CDX	DMIN		
TTIR/L 20-2T06-TB	2	20	120	40	17	1.8	6	27	TDC / J / T	
25-2T06-TB	2	25	150	40	19.5	1.8	6	29	TDXU / XT / XY	
20-3T06-TB	3	20	120	40	17	2.4	6	27	TSC / J	
25-3T06-TB	3	25	150	40	19.5	2.4	6	29	TDUF / TDV	
32-3T10-TB	3	32	150	60	27	2.4	10	40	B113-B124	
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		

- Please refer to B106 page for COOL-BURST accessories
- Please check insert min. dia for internal grooving B80 page

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		

Internal boring bars for turning and grooving on small diameter

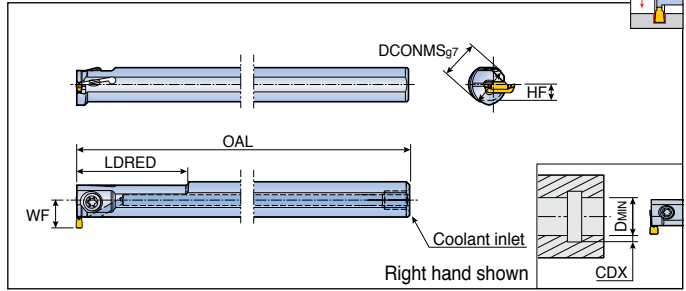


Designation	Insert seat size	Dimension (mm)								Coolant inlet	Insert
		DCONMS	OAL	LDRED	WF	HF	WB	CDX	DMIN		
TTSIR/L 10-12.5-2	2	10	125	25	7.5	4.5	1.6	2.4	12.5	Ø4	TDIM / TDIP B125
12-14-2	2	12	125	35	9.1	5.5	1.6	2.6	14.0	Ø6	
16-12.5-2	2	16	150	20	10.5	7.5	1.6	2.4	12.5	-	
16-14-2	2	16	150	25	11.0	7.5	1.6	2.6	14.0	-	
16-16-2	2	16	150	40	11.0	7.5	1.6	3.0	16.0	-	
12-14-3	3	12	125	35	9.1	5.5	2.0	2.6	14.0	Ø6	
16-12.5-3	3	16	150	20	10.5	7.5	2.0	2.4	12.5	-	
16-14-3	3	16	150	25	11.0	7.5	2.0	2.6	14.0	-	
16-16-3	3	16	150	40	11.0	7.5	2.0	3.0	16.0	-	
20-20-3	3	20	150	40	14.0	9.0	2.0	4.0	20.0	-	

Spare parts

Designation	Screw	Wrench	Seal	
TTSIR/L 10/12	TS 40093I	T 15	-	
TTSIR/L 16-12/14	TS 40093I	T 15	PL 16 (M6)	
TTSIR/L 16-16	TS 50125I	T 20	PL 16 (M6)	
TTSIR/L 20	TS 50125I	T 20	PL 20 (M6)	

Internal boring bars for shallow grooving on small diameter

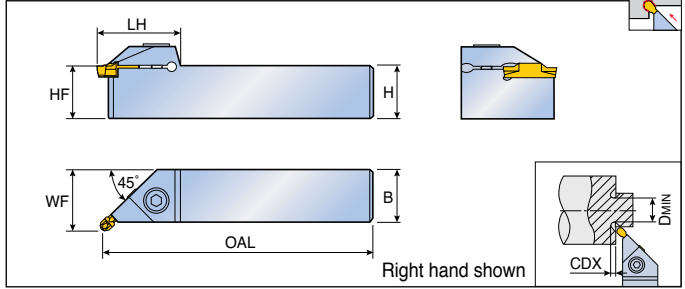


Designation	Insert seat size	Dimension (mm)								Coolant inlet	Insert
		DCONMS	OAL	LDRED	WF	HF	CDX	DMIN			
TGSIR/L 10-13-2	2, 3	10	125	25	7.6	5	2.5	12.5	Ø4	TDIM / TDIP	
12-14-2	2, 3	12	125	32	9.0	6	2.5	14.0	Ø6	B125	
16-13-2	2, 3	16	150	20	10.6	8	2.5	13.0	-		
16-14-2	2, 3	16	150	25	10.9	8	2.5	14.0	-		
16-16-2	2, 3	16	150	40	10.5	8	2.5	16.0	-		

Spare parts

Designation	Screw	Wrench	Seal	
TGSIR/L 10/12	TS 40093I	T 15	-	
TGSIR/L 16	TS 40093I	T 15	PL 16 (M6)	

Holders for external undercutting

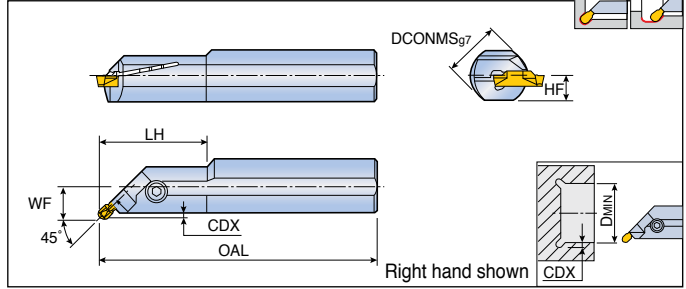


Designation	Insert seat size	Dimension (mm)								Insert
		H	HF	B	OAL	LH	WF	CDX	DMIN	
TGEUR/L 1616-3	3	16	16	16	110	30	19.3	2.8	32	TDT(Full R)
2020-3	3	20	20	20	125	30	23.3	2.8	32	TDIT(Full R)
2525-3	3	25	25	25	150	30	28.3	2.8	32	TDT-RU/RS
1616-4	4	16	16	16	110	31	19.5	2.8	32	 B122-B124
2020-4	4	20	20	20	125	31	23.5	2.8	32	
2525-4	4	25	25	25	150	31	28.5	2.8	32	
2525-6	5, 6	25	25	25	150	35	28.9	3.4	34	

Spare parts

Designation	Screw	Wrench		
TGEUR/L 1616-3	SH M5x0.8x16	L-W 4		
TGEUR/L 2020-3	SH M5x0.8x20	L-W 4		
TGEUR/L 2525-3	SH M5x0.8x25	L-W 4		
TGEUR/L 1616-4	SH M6x1x16	L-W 5		
TGEUR/L 2020-4	SH M6x1x20	L-W 5		
TGEUR/L 2525-4/6	SH M6x1x25	L-W 5		

Internal boring bars for undercutting



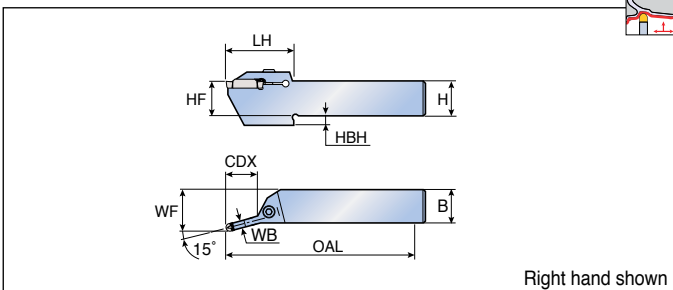
Designation	Insert seat size	Dimension (mm)							Insert
		DCONMS	OAL	LH	WF	HF	CDX	DMIN	
TGIUR/L 20-3	3	20	160	-	12.8	9.5	2.8	38	TDT(Full R)
25-3	3	25	200	40	14.8	11.5	2.8	38	TDIT(Full R)
20-4	4	20	160	-	12.9	9.5	2.8	38	TDT-RU/RS
25-4	4	25	200	40	14.9	11.5	2.8	38	B122-B124
25-6	5, 6	25	200	-	15.2	11.5	2.8	46	

Spare parts

Designation	Screw	Wrench		
TGIUR/L 20-3	SH M5x0.8x12	L-W 4		
TGIUR/L 20-4	SH M5x0.8x16	L-W 4		
TGIUR/L 25-3/4	SH M5x0.8x16	L-W 4		
TGIUR/L 25-6	SH M6x1x16	L-W 5		

TTER/L-15A

Holders for external aluminum wheel machining



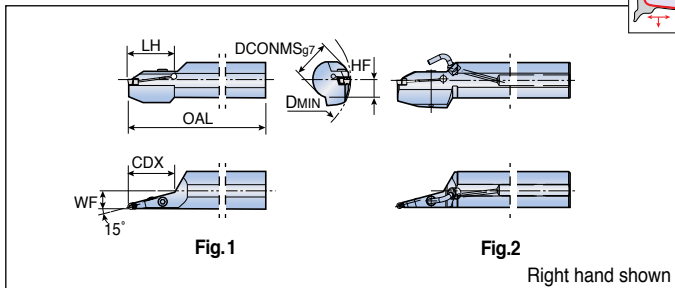
Designation	Insert seat size	Dimension (mm)										Insert
		H	HF	B	OAL	LH	WF	WB	HBH	CDX		
TTER/L 2525-6-15A	6	25	25	25	150	51	30	4.90	7	25.0	TDA / TSA	
2525-8-15A	8	25	25	25	150	55	30	5.90	7	30.0	B126	

Spare parts

Designation	Screw	Wrench		
TTER/L	SH M6x1x25	L-W 5		

TGIUR/L-15A

Internal boring bars for aluminum wheel machining

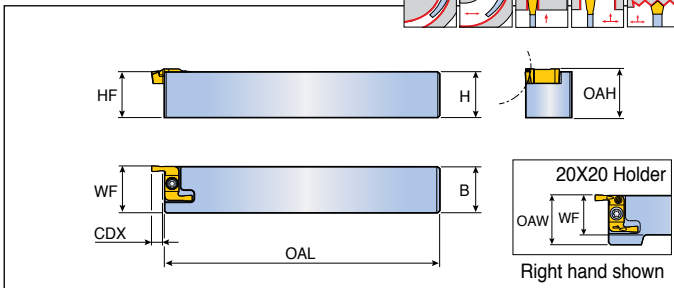


Designation	Insert seat size	Dimension (mm)							Fig.	Coolant	Insert
		DCONMS	OAL	LH	WF	HF	CDX	DMIN			
TGIUR/L 40-6-15A	6	40	320	60	19.8	19.0	50.00	160	1	External	TDA / TSA B126
40-6C-15A	6	40	320	60	19.8	19.0	50.00	160	2	Internal	
50-6C-15A	6	50	350	85	25.2	23.5	85.00	200	2	Internal	
40-8-15A	8	40	320	65	20.2	19.0	81.35	160	1	External	
40-8C-15A	8	40	320	85	20.2	19.0	83.00	160	2	Internal	
50-8C-15A	8	50	350	85	25.9	23.5	85.00	200	2	Internal	

Spare parts

Designation	Screw	Wrench	Seal	Pipe	Nozzle
TGIUR/L	SH M6x1x25	L-W 5	PL 40 (R1/8")	NZP 5	NZ 125

Holders for shallow face grooving and turning



Designation	Dimension (mm)								Insert
	H	HF	B	OAL	OAH	WF	CDX	OAW	
TXFR/L 2020	20	20	20	125	21.5	20.5	6	25.5	TDF(G)X ...R ⁽¹⁾ TDF(G)X ...L ⁽²⁾ B127
2525	25	25	25	150	26.5	25.5	6	25.5	

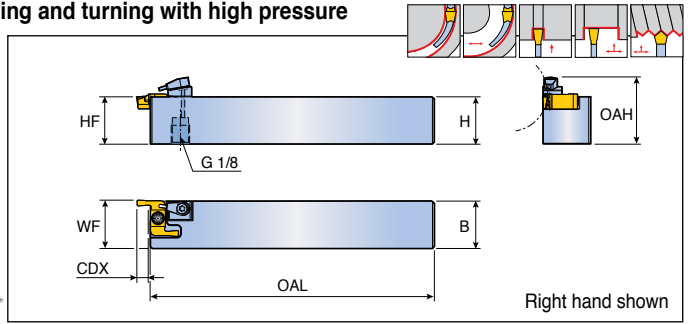
• ⁽¹⁾ For TXFR ⁽²⁾ For TXFL

Spare parts

Designation	Screw	Wrench		
TXFR	TS 35110I	T 15		
TXFL	TS 35110IL	T 15		

TXFR/L-TB

Holders for shallow face grooving and turning with high pressure coolant



Designation	Dimension (mm)							Insert
	H	HF	B	OAL	OAH	WF	CDX	
TXFR 2525-TB	25	25	25	150	35.5	25.5	6	TDF(G)X ...R
TXFL 2525-TB	25	25	25	150	35.5	25.5	6	TDF(G)X ...L B127

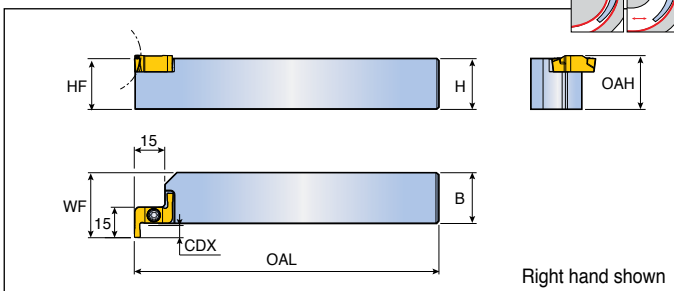
• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw	Wrench	Cooling unit	
TXFR-TB	 TS 35110I	 T 15	 S-CU-TB	
TXFL-TB	 TS 35110IL	 T 15	 S-CU-TB	

TXFPR/L

Perpendicular holders for shallow face grooving and turning



Designation	Dimension (mm)							Insert
	H	HF	B	OAL	OAH	WF	CDX	
TXFPR/L 2020	20	20	20	125	21.5	27	6	TDFX ...R ⁽¹⁾
2525	25	25	25	150	26.5	32	6	TDFX ...L ⁽²⁾

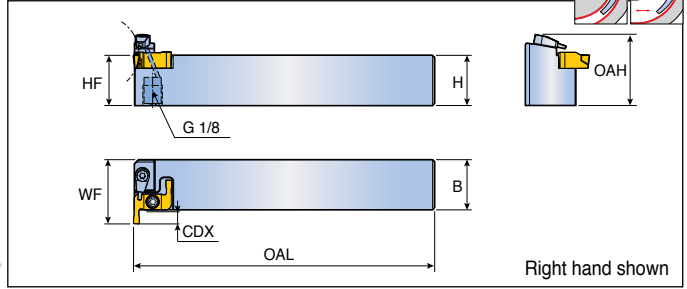
• ⁽¹⁾ For TXFPR ⁽²⁾ For TXFPL

Spare parts

Designation	Screw	Wrench		
TXFPR	TS 35110I	T 15		
TXFPL	TS 35110IL	T 15		

TXFPR/L-TB

Perpendicular holders for shallow face grooving and turning with high pressure coolant



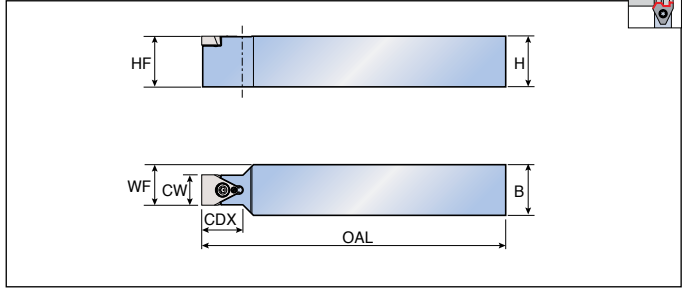
Designation	Dimension (mm)							Insert
	H	HF	B	OAL	OAH	WF	CDX	
TXFPR 2525-TB	25	25	25	150	35.5	32	6	TDFX ...R
TXFPL 2525-TB	25	25	25	150	35.5	32	6	TDFX ...L B127

• Please refer to B106 page for COOL-BURST accessories

Spare parts

Designation	Screw 	Wrench 	Cooling unit 	
TXFPR-TB	TS 35110I	T 15	S-CU-TB	
TXFPL-TB	TS 35110IL	T 15	S-CU-TB	

Holders for external wide grooving and profiling



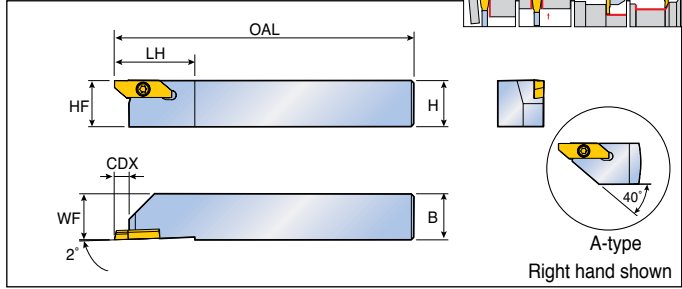
Designation	Dimension (mm)							Insert ⁽¹⁾
	H	HF	B	OAL	WF	CDX	CW	
TTLEN 1212 K10	12	12	12	125	11.0	20	10	TGUX B128
1616 K10	16	16	16	125	13.0	20	10	
2020 M10	20	20	20	150	15.0	20	10	
2525 M10	25	25	25	150	17.5	20	10	
1616 K15	16	16	16	125	15.5	20	15	
2020 M15	20	20	20	150	17.5	20	15	
2525 M15	25	25	25	150	20.0	20	15	
2020 K20	20	20	20	125	20.0	35	20	
2525 M20	25	25	25	150	22.5	35	20	
3232 P20	32	32	32	170	26.0	35	20	
2020 K25	20	20	20	125	22.5	35	25	
2525 M25	25	25	25	150	25.0	35	25	
3232 P25	32	32	32	170	28.5	35	25	

• ⁽¹⁾ Designation of final insert will be different to the semi finished blank

Spare parts

Designation	Screw	Wrench		
TTLEN ...K10/K15/M10/M15	TS 40B100I	T 15		
TTLEN ...K20/M20/P20	TS 45120I	T 20		
TTLEN ...K25/M25/P25	TS 45120I	T 20		

Holders for grooving, parting, turning & reverse turning



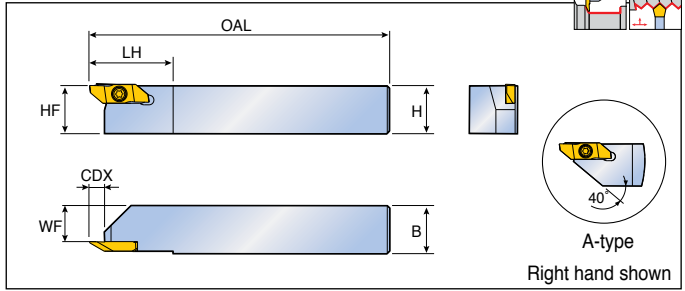
Designation	Dimension (mm)							Insert
	H	HF	B	OAL	LH	WF	CDX	
TTVER/L 1010-4-A	10	10	10	125	29	10	6.7	TVER/L TVRR/L TVPR/L B143,B145
1212-4-A	12	12	12	125	29	12	6.7	
1616-4	16	16	16	125	29	16	6.5	
2020-4	20	20	20	125	29	20	6.5	
2525-4	25	25	25	125	29	25	6.5	

• Please keep in your mind selecting right insert

Spare parts

Designation	Screw	Wrench		
	TTVER/L	CSTB-4SD	T 8	

Holders for back turning & threading



Designation	Dimension (mm)							Insert
	H	HF	B	OAL	LH	WF	CDX	
TTVBR/L 1010-4-A	10	10	10	125	29	5.7	6.7	TVBR/L TVTR/L B144
1212-4-A	12	12	12	125	29	7.7	6.7	
1616-4	16	16	16	125	29	11.7	6.4	
2020-4	20	20	20	125	29	15.7	6.4	
2525-4	25	25	25	125	29	20.7	6.4	

• Please keep in your mind selecting right insert

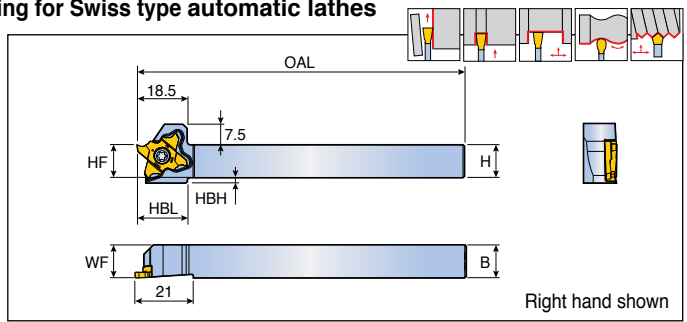
Spare parts

Designation	Screw	Wrench		
TTVBR/L	 CSTB-4SD	 T 8		

TQHR/L-20



Holders for parting and grooving for Swiss type automatic lathes



Designation	Dimension (mm)							Insert
	H	HF	B	WF	OAL	HBL	HBH	
TQHR/L 10-20	10	10	10	10	120	18.5	4	TQS 20
12-20	12	12	12	12	120	18.5	2	TQJ 20
16-20	16	16	16	16	120	-	-	B147-B148
20-20	20	20	20	20	120	-	-	
25-20	25	25	25	25.3	135	-	-	

Spare parts

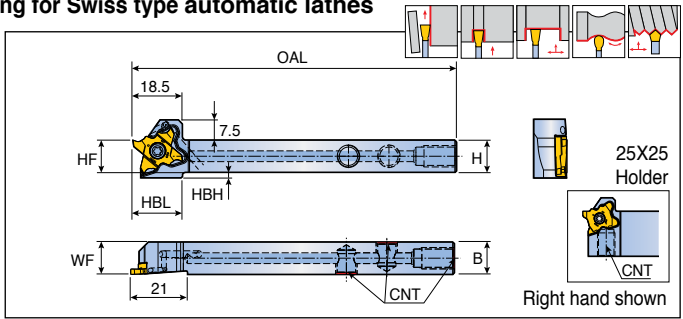
Designation	Screw	Wrench		
TQHR/L...20	TS 40A100L ⁽¹⁾ TS 40A100 ⁽²⁾	T-1508/5		

• ⁽¹⁾ For TQHR • ⁽²⁾ For TQHL

TQHR/L-20-TB



Holders for parting and grooving for Swiss type automatic lathes with high pressure coolant



Designation	Dimension (mm)							CNT	Insert
	H	HF	B	WF	OAL	HBL	HBH		
TQHR/L 12-20-TB	12	12	12	12	120	18.5	2	UNF 5/16	TQS 20 TQJ 20 B147-B148
16-20-TB	16	16	16	16	120	-	-	UNF 5/16	
20-20-TB	20	20	20	20	120	-	-	G 1/8	
25-20-TB	25	25	25	25.3	135	-	-	G 1/8	

• Please refer to B106 page for COOL-BURST accessories

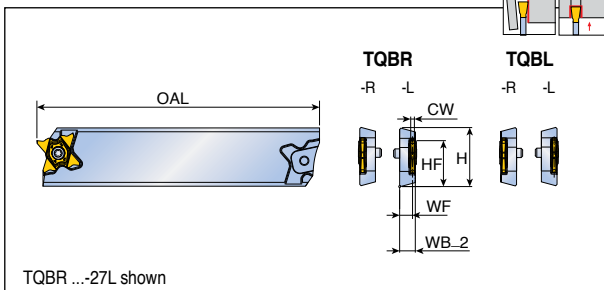
Spare parts

Designation	Screw	Plug	Wrench	
TQHR/L 12/16-20-TB	TS 40A100L ⁽¹⁾ TS 40A100 ⁽²⁾	PLG 5/16 UNF	T-1508/5	L-W 5/32
TQHR/L 20-20-TB		PLG G1/8-L6.5	T-1508/5	L-W 5
TQHR/L 25-20-TB		-	T-1508/5	-

• ⁽¹⁾ For TQHR • ⁽²⁾ For TQHL

TQBR/L-27

Blades for parting and grooving



Designation	Dimension (mm)						Block	Insert
	H	HF	OAL	WF *	WB_2	CW range		
TQBR/L 26-27R	26	21.4	150	7	8.5	$0.5 \leq CW < 5.3$	TTBN/U...-26	TQ. 27
26-27L	26	21.4	150	7	8.5	$0.5 \leq CW < 5.3$	TTBN/U...-26	
32-27R	32	24.9	150	7	8.5	$0.5 \leq CW < 5.3$	TTBN/U...-32	B149-B157
32-27L	32	24.9	150	7	8.5	$0.5 \leq CW < 5.3$	TTBN/U...-32	B44-B45

* : To the center of inserts up to 3.2mm width

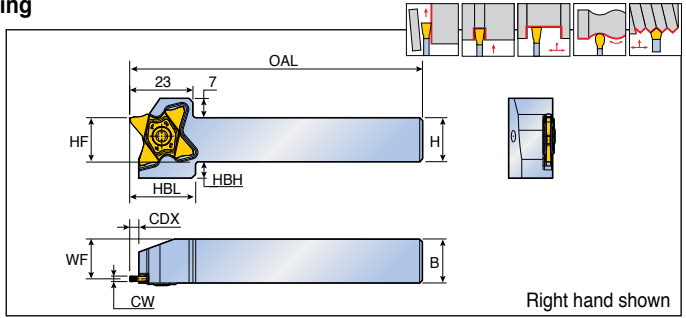
Spare parts

Designation	Screw	Wrench		
TQBR/L 26-27R	TS 50125I	T 10/20		
TQBR/L 26-27L	TS 50125IL	T 10/20		
TQBR/L 32-27R	TS 50125I	T 10/20		
TQBR/L 32-27L	TS 50125IL	T 10/20		

TQHR/L-27



Holders for parting and grooving



Designation	Dimension (mm)								Insert
	H	HF	B	OAL	WF	HBL	HBH	CW range	
TQHR/L 10-27	10	10	10	120	8.5	24	9	0.5 ≤ CW < 5.3	TQ.. 27
12-27	12	12	12	120	10.5	24	8	0.5 ≤ CW < 5.3	B149-B157
16-27	16	16	16	120	14.5	24	6	0.5 ≤ CW < 5.3	
20-27	20	20	20	120	18.5	24	2	0.5 ≤ CW < 5.3	
25-27	25	25	25	135	23.5	-	-	0.5 ≤ CW < 5.3	TQS 27 Special
16-27-8⁽¹⁾	16	16	16	120	14.0	24	6	5.3 ≤ CW ≤ 8.2	
20-27-8⁽¹⁾	20	20	20	120	18.0	24	2	5.3 ≤ CW ≤ 8.2	
25-27-8⁽¹⁾	25	25	25	135	23.0	-	-	5.3 ≤ CW ≤ 8.2	

⁽¹⁾ Only for TQS wider inserts from 5.3mm-8.2mm width

Spare parts

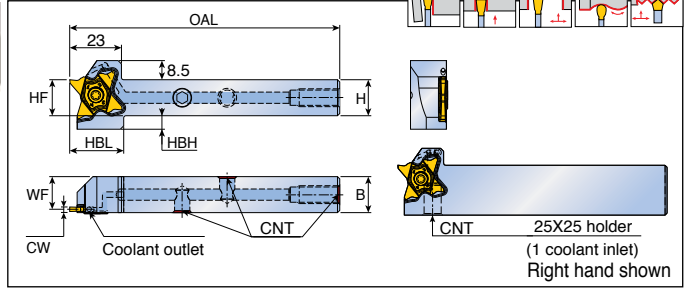
Designation	Screw	Wrench		
TQHR/L 10/12/16/20/25	TS 50125I ⁽¹⁾	T 10/20		
	TS 50125IL ⁽²⁾	T 10/20		
TQHR/L 16/20/25-27-8	TS 50170I-IC ⁽³⁾	T 15		
	TS 50170IL-IC ⁽⁴⁾	T 15		

⁽¹⁾⁽³⁾ For left holder ⁽²⁾⁽⁴⁾ For right holder

TQHR/L-27-TB



Holders for parting and grooving with high pressure coolant



Designation	Dimension (mm)							CNT	Insert
	H(HF)	B	OAL	WF	HBL	HBH	CW range		
TQHR/L 12-27-TB	12	12	120	10.5	24	8	$0.5 \leq CW < 5.3$	UNF 5/16	TQ. 27
16-27-TB	16	16	120	14.5	24	6	$0.5 \leq CW < 5.3$	UNF 5/16	B149-B157
20-27-TB	20	20	120	18.5	24	2	$0.5 \leq CW < 5.3$	G1/8 BSPP	
25-27-TB	25	25	135	23.5	-	-	$0.5 \leq CW < 5.3$	G1/8 BSPP	

• Please refer to B106 page for COOL-BURST accessories

Spare parts

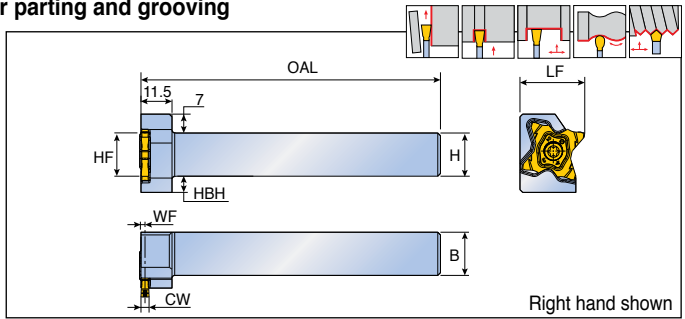
Designation	Screw	Plug	Wrench	
TQHR/L 12-27-TB	TS 50125I ⁽¹⁾ TS 50125IL ⁽²⁾	PLG 5/16 UNF	T 10/20	L-W 5/32
TQHR/L 16-27-TB		PLG 5/16 UNF	T 10/20	L-W 5/32
TQHR/L 20-27-TB		PLG G1/8-L6.5	T 10/20	L-W 5
TQHR/L 25-27-TB		-	T 10/20	-

• ⁽¹⁾ For TQHL • ⁽²⁾ For TQHR

TQHPR/L-27



Perpendicular type holders for parting and grooving



Designation	Dimension (mm)								Insert
	H	HF	B	WF	OAL	LF	HBH	CW range	
TQHPR/L 16-27	16	16	16	1.5	120	24	6	$0.5 \leq CW < 5.3$	TQ. 27
20-27	20	20	20	1.5	120	28	2	$0.5 \leq CW < 5.3$	B149-B157
25-27	25	25	25	1.5	135	33	-	$0.5 \leq CW < 5.3$	
20-27-8⁽¹⁾	20	20	20	2.0	120	28	2	$5.3 \leq CW \leq 8.2$	TQS 27 Special
25-27-8⁽¹⁾	25	25	25	2.0	135	33	-	$5.3 \leq CW \leq 8.2$	

⁽¹⁾ Only for TQS wider inserts from 5.3mm-8.2mm width

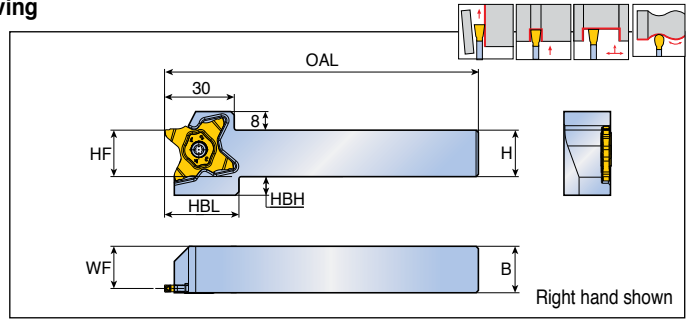
Spare parts

Designation	Screw	Wrench		
TQHPR/L 16/20/25	TS 50125I ⁽¹⁾	T 20		
	TS 50125IL ⁽²⁾	T 20		
TQHPR/L 16/20/25-8	TS 50170I-IC ⁽³⁾	T 15		
	TS 50170IL-IC ⁽⁴⁾	T 15		

⁽¹⁾⁽³⁾ For right holder ⁽²⁾⁽⁴⁾ For left holder

TQHR/L-34

Holders for parting and grooving



Designation	Dimension (mm)							Insert
	H	HF	B	WF	OAL	HBL	HBH	
TQHR/L 16-34	16	16	16	14.2	135	32	12	TQC 34
20-34	20	20	20	18.2	135	32	8	B157-B159
25-34	25	25	25	23.2	135	32	3	
32-34	32	32	32	30.2	135	-	-	

Spare parts

Designation	Screw	Wrench		
	TQHR/L-34	 TS 50125I ⁽¹⁾ TS 50125IL ⁽²⁾	 T 10/20	

• ⁽¹⁾ For left holder, ⁽²⁾ For right holder

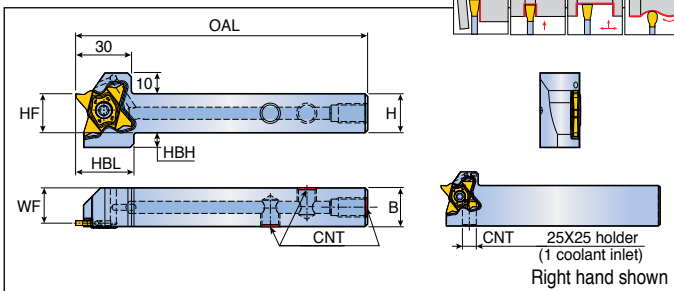
TQHR/L-34-TB



Holders for parting and grooving with high pressure coolant



COOLBURST



Designation	Dimension (mm)							CNT	Insert
	H	HF	B	WF	OAL	HBL	HBH		
TQHR/L 16-34-TB	16	16	16	14.2	135	32	12	UNF 5/16	TQC 34
20-34-TB	20	20	20	18.2	135	32	8	G 1/8	B157-B159
25-34-TB	25	25	25	23.2	135	32	3	G 1/8	

• Please refer to B106 page for COOL-BURST accessories

Spare parts

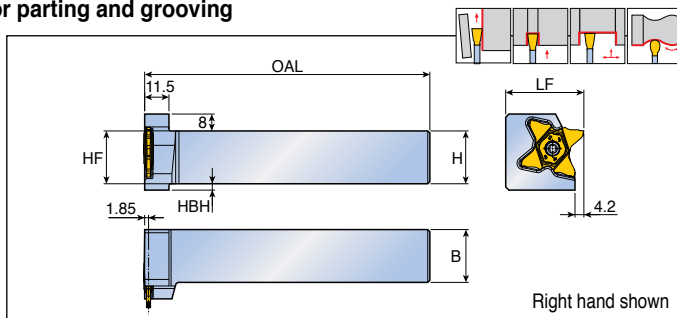
Designation	Screw	Plug	Wrench	
TQHR/L 16-34-TB	TS 50125I ⁽¹⁾ TS 50125IL ⁽²⁾	PLG 5/16 UNF	T 10/20	L-W 5/32
TQHR/L 20-34-TB		PLG G1/8-L6.5	T 10/20	L-W 5
TQHR/L 25-34-TB		-	T 10/20	-


• ⁽¹⁾ For left holder, ⁽²⁾ For right holder

TQHPR/L-34





Perpendicular type holders for parting and grooving



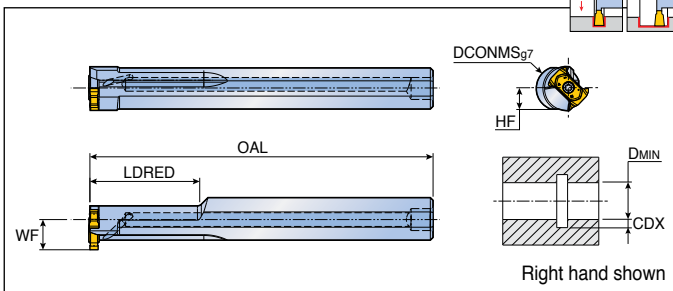
Designation	Dimension (mm)						Insert
	H	HF	B	OAL	LF	HBH	
TQHPR/L 20-34	20	20	20	135	32	8	TQC 34
25-34	25	25	25	135	37	3	 B157-B159

Spare parts

Designation	Screw	Wrench		
	TQHPR/L-34	 TS 50125I ⁽¹⁾ TS 50125IL ⁽²⁾	 T 10/20	

• ⁽¹⁾ For right holder, ⁽²⁾ For left holder

Internal boring bars for shallow grooving with coolant hole



Designation	Dimension (mm)						Insert
	DCONMS	OAL	LDRED	WF	DMIN	HF	
TQHIR/L 16-16.5-14	16	125	40	11	16.5	7.5	TQIS 14
20-16.5-14	20	125	40	13	16.5	9	B160
16-20-14	16	125	-	11	20	7.5	
20-24-14	20	125	-	13	24	9	
25-29-14	25	200	-	15.5	29	11.5	
32-36-14	32	200	-	19	36	15	

• CDX: Refer to insert dimension

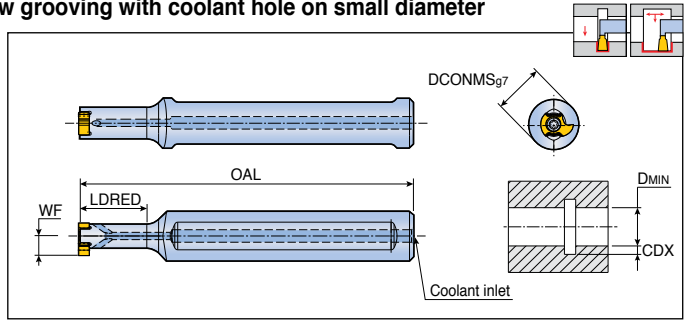
Spare parts

Designation	Screw	Wrench	Seal	
TQHIR/L 16	TS 25075I/HG	T 8	PL 16 (M6)	
TQHIR/L 20	TS 25075I/HG	T 8	PL 20 (M6)	
TQHIR/L 25	TS 25075I/HG	T 8	PL 25 (R1/8")	
TQHIR/L 32	TS 25075I/HG	T 8	PL 32 (R1/8")	

TMIHN



Internal boring bars for shallow grooving with coolant hole on small diameter



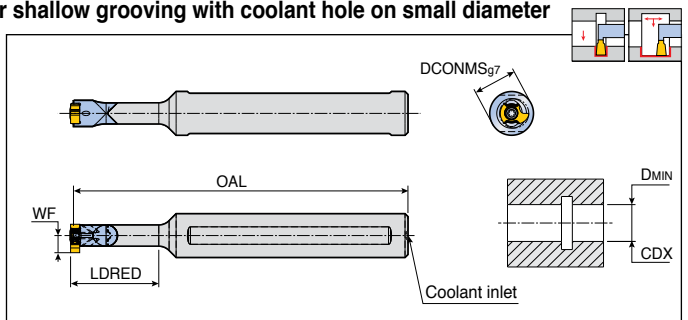
Designation	Dimension (mm)					Coolant inlet	Insert
	DCONMS	OAL	LDRED	WF	D _{MIN}		
TMIHN 12-16-8	12	80	16	4.7	10	Ø3	TMIS 8 B161

• CDX: Refer to insert dimension

TMIHN-C



Internal carbide boring bars for shallow grooving with coolant hole on small diameter



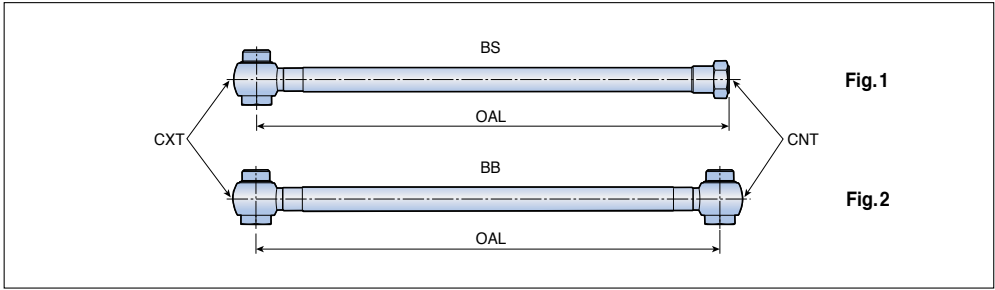
Designation	Dimension (mm)					Coolant inlet	Insert
	DCONMS	OAL	LDRED	WF	D _{MIN}		
TMIHN 12C-24-8	12	92	24	4.7	10	Ø2	TMIS 8
12C-32-8	12	100	32	4.7	10	Ø2	B161

• CDX: Refer to insert dimension

Spare parts

Designation	Screw	Wrench		
TMIHN	TS 220521/HG	T 7		
TMIHN -C	TS 220521/HG	T 7		

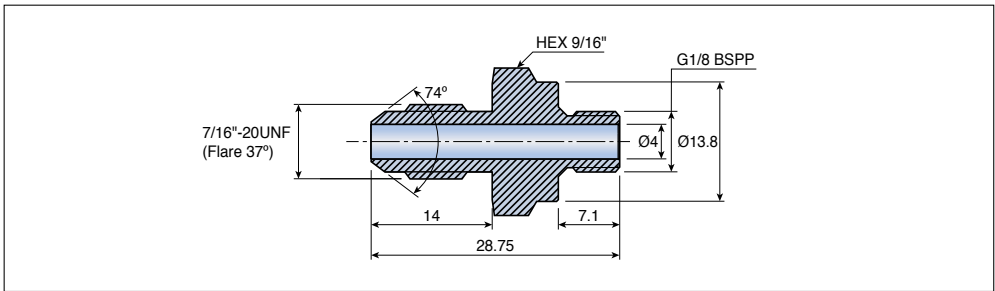
Hose



Designation	Dimension				Max.pressure (Bar)	Fig.
	OAL (mm)	CXT	CNT			
TB HOSE G1/8-7/16-200BS	200	G1/8"-28 BSPP	7/16"-20 UNF (Flare 37°)		260	1
G1/8-7/16-250BS	250	G1/8"-28 BSPP	7/16"-20 UNF (Flare 37°)		260	1
G1/8-G1/8-200BB	200	G1/8"-28 BSPP	G1/8"-28 BSPP		260	2
G1/8-G1/8-250BB	250	G1/8"-28 BSPP	G1/8"-28 BSPP		260	2
5/16-7/16-200BS	200	5/16"-24 UNF	7/16"-20 UNF (Flare 37°)		200	1
5/16-G1/8-200BS	200	5/16"-24 UNF	G1/8"-28 BSPP		200	1

• Hose is ordered separately

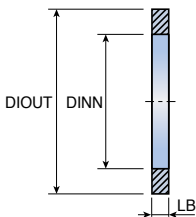
Adapter



Designation
TB NIPPLE G1/8-7/16 UNF

• Adapter is ordered separately

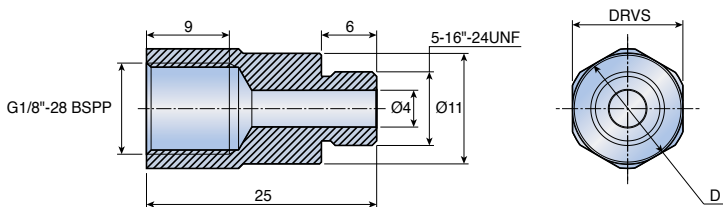
Seal washer



Designation	Dimension (mm)		
	DIOUT	DINN	LB
TB COPPER SEAL 1/8"	15	10	1
SEAL 5/16"	12	8	1

- Seal washer is ordered separately

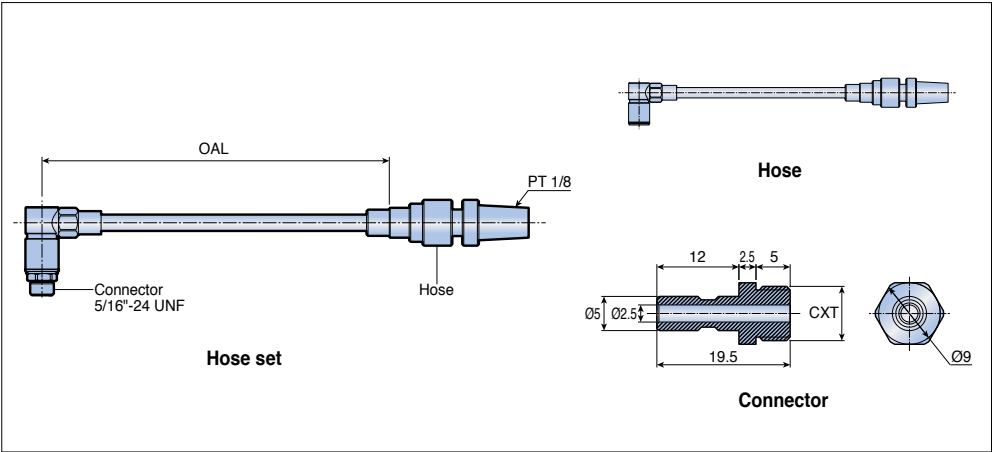
Connector



Designation	Dimension (mm)	
	D	DRVS
TB CONECTOR 5/16"-G1/8"	13	12
5/16"-G1/8"-12	12	11

- Connector is ordered separately

Coupling system



Components	Designation		Dimension		
			OAL (mm)	CXT	Maximum pressure (Bar)
Hose set	S-TB HOSE	R1/8-COUPLE-100	100	-	140
		R1/8-COUPLE-200	200	-	140
		R1/8-COUPLE-300	300	-	140
Hose	TB HOSE	R1/8-COUPLE-200	200	-	140
		R1/8-COUPLE-300	300	-	140
Connector	TB CONECTOR	5/16-COUPLE	-	5/16"-24 UNF	-
		G1/8-COUPLE	-	G1/8"-28 BSPP	-
		R1/8-COUPLE	-	PT 1/8"	-

• Hose set, hose and connector are ordered separately

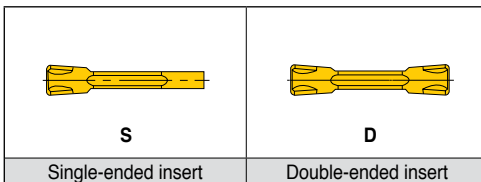
Parting & Grooving Inserts and Solid Bars



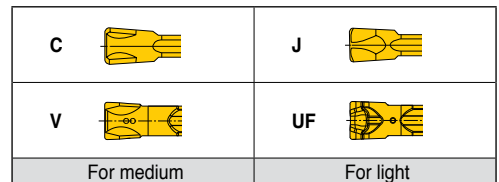


1 TaeguTec

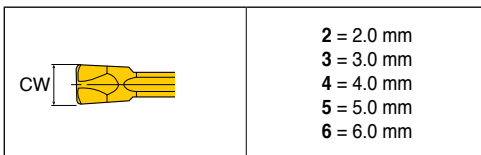
2 Cutting edge type



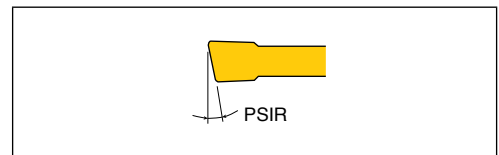
3 Chip breaker type



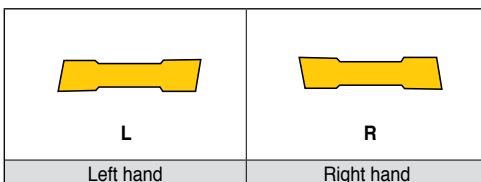
4 Width of insert



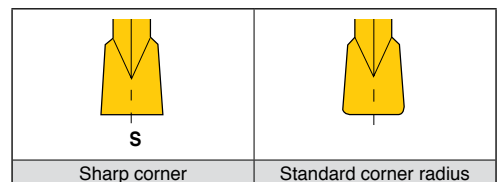
5 Lead angle



6 Hand of insert



7 Corner type



Insert Designation System



Turning, grooving and face machining

T **D** **(F)** **T** **3.00** **E** - **0.40** **R**

1 2 3 4 5 6 7 8

1 TaeguTec

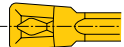
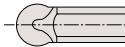
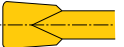
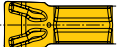

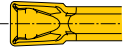

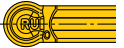
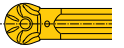
2 Cutting edge type

S 	D 
Single-ended insert	Double-ended insert

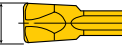
3 Application type

F Face turning and grooving
I Internal turning and grooving
X Universal

4 Chip breaker type

T 	A 	G 	M 	P 
For steel, high-temp. alloy and cast iron	For aluminum	Without chip breaker	Pressed for small diameter	Ground for small diameter
XU 	XY 	RU 	RS 	
Universal chip breaker (General)	Universal chip breaker (Roughing)	General profiling	Precision profiling	

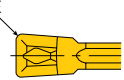
5 Width of insert (mm)

CW 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Precision insert
	<input type="checkbox"/> Pressed insert



6 Application type

E	For turning and grooving
No designation	For precision grooving

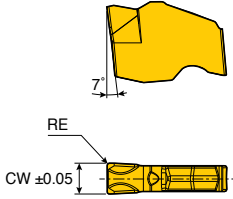
7 Corner radius (mm)

RE 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Precision insert
	<input type="checkbox"/> <input type="checkbox"/> Pressed insert

8 Hand of insert - For face machining

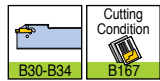
L 	R 
Left hand insert on left hand holder	Right hand insert on right hand holder

Single-ended inserts for parting and deep grooving with C-Type chip breaker



Size	Dimension (mm)			
	CW	RE		
1.6	1.6	0.2		
2	2.0	0.2		
3	3.0	0.2		

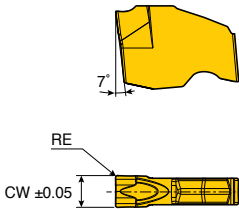
Insert	Designation	Insert seat size	Feed (mm/rev)	Cermet		Coated				Uncoated		
				CT3000		TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	SFC 1.6	1	0.05-0.15						●	●		
	2	2	0.08-0.20						●	●		
	3	3	0.10-0.25						●	●		



●: Standard items

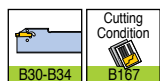
SFJ

Single-ended inserts for parting and deep grooving with J-Type chip breaker



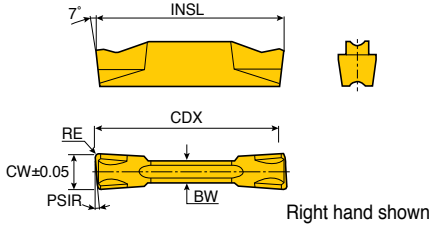
Size	Dimension (mm)			
	CW	RE		
2	2.0	0.2		
3	3.0	0.2		

Insert	Designation	Insert seat size	Feed (mm/rev)	Cermet		Coated				Uncoated		
				CT3000		TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	SFJ 2	2	0.05-0.15						●	●		
	3	3	0.08-0.20						●	●		



●: Standard items

Double-ended inserts for parting and grooving with C-Type chip breaker



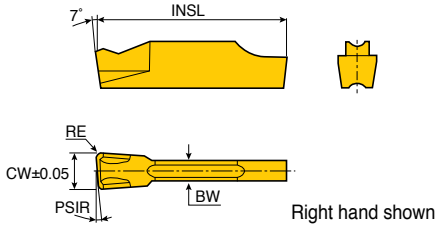
Size	Dimension (mm)					
	CW	RE	BW	INSL	PSIR	CDX
2 (.R/L)	2.0	0.20	1.7	20.0	0-15	19
2 RS/LS	2.0	0.02	1.7	19.6	15	19
3 (.R/L)	3.0	0.20	2.4	20.0	0-15	19
3 RS/LS	3.0	0.02	2.4	19.6	6-15	19
3.18	3.18	0.20	2.4	20.0	-	19
4 (.R/L)	4.0	0.30	3.0	20.0	0-15	19
5 (.R/L)	5.0	0.30	4.0	25.0	0-4	24
6	6.0	0.30	5.0	25.0	-	24
8	8.0	0.40	6.0	30.0	-	29

Insert	Designation	Insert seat size	Feed (mm/rev)	Cermet		Coated				Uncoated		
				CT3000		TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDC 2	2	0.05-0.18	●					●	●	●	●
	2-6R/L	2	0.04-0.14						●	●	●	●
	2-8R/L	2	0.04-0.14							●	●	
	2-15R/L	2	0.04-0.12						●	●	●	
	2-15RS/LS	2	0.02-0.12						●	●	●	
	3	3	0.07-0.25	●			●		●	●	●	●
	3-6R/L	3	0.06-0.18						●	●	●	●
	3-6RS/LS	3	0.03-0.18						●	●		
	3-15R/L	3	0.06-0.16						●	●	●	
	3-15RS/LS	3	0.03-0.16							●	●	
	3.18	3	0.07-0.25						●		●	
	4	4	0.08-0.30	●					●	●	●	●
	4-4R/L	4	0.06-0.24						●	●	●	●
	4-15R/L	4	0.06-0.22							●	●	
	5	5	0.09-0.35						●	●	●	●
	5-4R/L	5	0.07-0.28						●	●	●	●
	6	6	0.12-0.40						●	●	●	●
	8	8	0.14-0.43						●		●	



●: Standard items

Single-ended inserts for parting and deep grooving with C-Type chip breaker



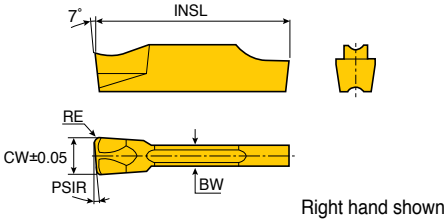
Size	Dimension (mm)				
	CW	RE	BW	INSL	PSIR
2 (.R/L)	2.0	0.20	1.7	19.7	0-15
2 RS/LS	2.0	0.02	1.7	19.5	15
3 (.R/L)	3.0	0.20	2.4	19.6	0-15
3 RS/LS	3.0	0.02	2.4	19.4	15
4 (.R/L)	4.0	0.30	3.0	19.7	0-15
5 (.R/L)	5.0	0.30	4.0	24.6	0-4
6	6.0	0.30	5.0	24.7	-
8	8.0	0.40	6.0	30.1	-

Insert	Designation	Insert seat size	Feed (mm/rev)	Cermet		Coated				Uncoated		
				CT3000		TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TSC 2	2	0.05-0.18						●	●	●	●
	2-6R/L	2	0.04-0.14						●	●	●	●
	2-8R	2	0.04-0.14								●	
	2-15R/L	2	0.04-0.12							●	●	
	2-15RS/LS	2	0.02-0.12							●	●	
	3	3	0.07-0.25						●	●	●	●
	3-6R/L	3	0.06-0.18						●	●	●	●
	3-15R/L	3	0.06-0.16								●	
	3-15RS	3	0.03-0.16							●	●	
	4	4	0.08-0.30						●	●	●	
	4-4R/L	4	0.06-0.24						●	●	●	
	4-6R	4	0.06-0.23							●		
	4-15R/L	4	0.06-0.22							●	●	
	5	5	0.09-0.35						●	●	●	●
	5-4R/L	5	0.07-0.28							●	●	
	6	6	0.12-0.40						●	●	●	●
8	8	0.14-0.43						●		●		

●: Standard items



Single-ended inserts for parting and deep grooving with J-Type chip breaker



Size	Dimension (mm)				
	CW	RE	BW	INSL	PSIR
2 (.R/L)	2.0	0.20	1.7	19.8	0-15
2 RS/LS	2.0	0.02	1.7	19.6	15
3 (.R/L)	3.0	0.20	2.4	19.6	0-15
3 RS/LS	3.0	0.02	2.4	19.4	6-15
4 (.R/L)	4.0	0.30	3.0	19.7	0-15
5 (.R/L)	5.0	0.30	4.0	24.6	-
6	6.0	0.30	5.0	24.5	-

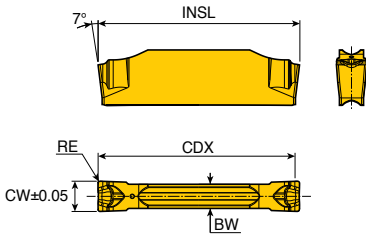
Insert	Designation	Insert seat size	Feed (mm/rev)	Cermet		Coated				Uncoated		
				CT3000		TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TSJ 2	2	0.04-0.12						●	●	●	●
	2-6R/L	2	0.03-0.08							●	●	●
	2-15R/L	2	0.03-0.08							●	●	
	2-15RS/LS	2	0.03-0.08								●	
	2-8R	2	0.03-0.07								●	
	3	3	0.04-0.16						●	●	●	●
	3-6R/L	3	0.03-0.12						●	●	●	●
	3-6RS	3	0.03-0.10						●	●	●	
	3-15R/L	3	0.03-0.12							●	●	
	3-15RS/LS	3	0.03-0.10								●	
	4	4	0.05-0.18						●	●	●	●
	4-4R/L	4	0.05-0.14							●	●	
	4-15R/L	4	0.05-0.12								●	
	5	5	0.05-0.20						●	●	●	●
	6	6	0.05-0.22						●	●	●	●

●: Standard items




TDF

Double-ended inserts for parting and grooving with UF-Type chip breaker



Size	Dimension (mm)				
	CW	RE	BW	INSL	CDX
2	2.0	0.2	1.5	20	19
3	3.0	0.2	2.4	20	19

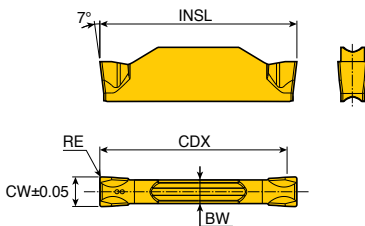
Insert	Designation	Insert seat size	Feed (mm/rev)	Material							
				Cermet		Coated				Uncoated	
				CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDF 2	2	0.03-0.11					●			
	3	3	0.04-0.13					●			




● Standard items

TDV

Double-ended inserts for parting and grooving with V-Type chip breaker



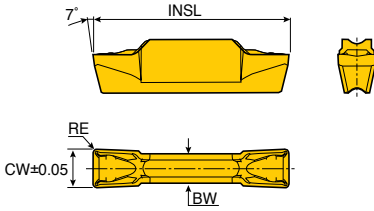
Size	Dimension (mm)				
	CW	RE	BW	INSL	CDX
2	2.0	0.2	1.7	20	19
3	3.0	0.2	2.4	20	19
4	4.0	0.3	3.0	20	19

Insert	Designation	Insert seat size	Feed (mm/rev)	Material							
				Cermet		Coated				Uncoated	
				CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDV 2	2	0.04-0.12					●	●		
	3	3	0.06-0.18					●	●		
	4	4	0.08-0.20					●	●		



● Standard items

Double-ended inserts for grooving, turning, face grooving and parting



Size	Dimension (mm)			
	CW	RE	BW	INSL
2E-0.3	2.0	0.3	1.7	20.0
3E-0.3	3.0	0.3	2.2	20.0
4E-0.4	4.0	0.4	3.0	20.0
4E-0.8	4.0	0.8	3.0	20.0
5E-0.4	5.0	0.4	4.0	25.0
5E-0.8	5.0	0.8	4.0	25.0
6E-0.4	6.0	0.4	5.0	25.0
6E-0.8	6.0	0.8	5.0	25.0
8E-0.8	8.0	0.8	6.0	30.0

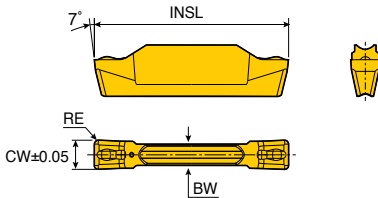
Insert	Designation	Insert seat size	Turning		Grooving	Coated							Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	Cermet	TT7505	TT6080	TT3010	TT5100	TT9080	TT7220	TT8020	K10
	TDXU 2E-0.3	2	0.4-1.2	0.12-0.18	0.03-0.20	CT3000	●	●		●	●		●	●
	3E-0.3	3	0.4-1.8	0.15-0.19	0.07-0.22	●	●	●	●	●	●	●	●	●
	4E-0.4	4	0.5-2.4	0.18-0.24	0.08-0.27	●	●	●	●	●	●	●	●	●
	4E-0.8	4	1.0-2.4	0.18-0.24	0.08-0.27	●	●	●	●	●	●	●	●	●
	5E-0.4	5	0.5-3.0	0.20-0.30	0.10-0.30	●	●	●	●	●	●	●	●	●
	5E-0.8	5	1.0-3.0	0.23-0.35	0.10-0.30	●	●	●	●	●	●	●	●	●
	6E-0.4	6	0.5-3.6	0.22-0.36	0.13-0.40		●	●	●	●	●	●	●	●
	6E-0.8	6	1.0-3.6	0.24-0.42	0.13-0.40		●	●	●	●	●	●	●	●
8E-0.8	8	1.0-4.8	0.30-0.56	0.14-0.50		●	●		●	●	●	●	●	



●: Standard items

TDXT

Double-ended inserts for grooving, turning and face grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
3E-0.4	3.0	0.4	2.2	20.0
4E-0.4	4.0	0.4	3.0	20.0
5E-0.4	5.0	0.4	4.0	25.0
6E-0.8	6.0	0.8	5.0	25.0
8E-0.8	8.0	0.8	6.0	30.0

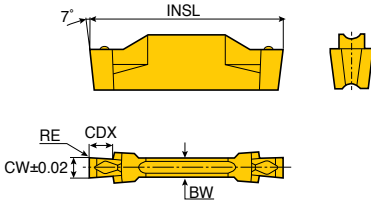
Insert	Designation	Insert seat size	Turning		Grooving	Coated							Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	Cermet	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10	
	TDXT 3E-0.4	3	0.5-1.8	0.15-0.22	0.06-0.15	CT3000	●	●	●	●	●		●	●
	4E-0.4	4	0.5-2.4	0.18-0.30	0.07-0.20	●	●	●	●	●	●		●	●
	5E-0.4	5	0.5-3.0	0.20-0.35	0.08-0.23	●	●	●	●	●	●		●	●
	6E-0.8	6	1.0-3.6	0.24-0.42	0.12-0.30		●	●	●	●	●		●	●
	8E-0.8	8	1.0-4.8	0.30-0.56	0.15-0.35		●	●	●	●	●		●	●



●: Non-standard grade production available at the customer's request

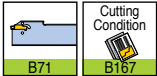
●: Standard items

Precision double-ended inserts for external grooving only



Size	Dimension (mm)				
	CW	RE	BW	INSL	CDX
1.00	1.00	0.00	2.2	20.0	2.5
1.30	1.30	0.00	2.2	20.0	2.5
1.60	1.60	0.10	2.2	20.0	2.5
1.85	1.85	0.10	2.2	20.0	3.5
2.15	2.15	0.15	2.2	20.0	3.5

Insert	Designation	Insert seat size	Grooving	Cermet	Coated					Uncoated
			Feed (mm/rev)	CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020
	TDT 1.00-0.00*	2	0.02-0.04					●	●	●
	1.30-0.00*	2	0.02-0.05					●	●	●
	1.60-0.10*	2	0.03-0.07					●	●	●
	1.85-0.10*	2	0.03-0.09					●	●	●
	2.15-0.15	2	0.03-0.10					●	●	●

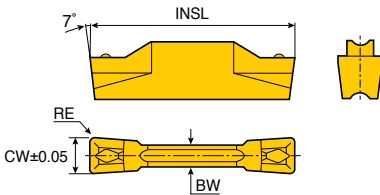


*: Only for grooving. Please use TGFR/L ...-4 holder

●: Standard items

TDT-E

Double-ended inserts for turning and grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
3	3.0	0.4	2.2	20.0
4	4.0	0.4	3.0	20.0
6	6.0	0.8	5.0	25.0

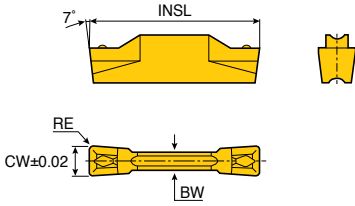
Insert	Designation	Insert seat size	Turning	Grooving	Cermet	Ceramic	Coated					Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	AB30	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020
	TDT 3E-0.4	3	0.5-1.8	0.15-0.22	0.07-0.15	●		●	●	●	●	●	●
	4E-0.4	4	0.5-2.4	0.18-0.30	0.09-0.18	●		●	●	●	●	●	●
	4E-0.4T CE⁽¹⁾	4	0.5-2.4	0.18-0.30	0.09-0.35		●						
	6E-0.8T CE⁽¹⁾	6	1.0-3.6	0.24-0.42	0.13-0.40		●						



⁽¹⁾This insert is a pressed ceramic insert

●: Standard items

Precision double-ended inserts for turning and grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
2.65 / 3.00 / 3.15	2.65-3.15	0.15-0.40	2.2	20.0
4.00 / 4.15	4.00-4.15	0.15-0.80	3.0	20.0
4.78 / 5.00 / 5.15	4.78-5.15	0.15-0.80	4.0	25.0
6.00	6.00	0.80-1.20	5.0	25.0
8.00	8.00	0.80-1.20	6.0	30.0
10.00	10.00	0.80-2.00	8.0	30.0

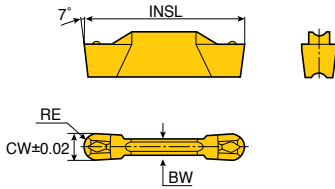
Insert	Designation	Insert seat size	Turning		Grooving	Cermet		Coated				Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDT 2.65E-0.15	3	0.2-1.8	0.10-0.18	0.05-0.12			●	●	●	●	●	●
	3.00E-0.20	3	0.3-2.0	0.12-0.20	0.07-0.13			●	●	●	●	●	●
	3.00E-0.40	3	0.5-2.0	0.15-0.22	0.07-0.15			●	●	●	●	●	●
	3.15E-0.15	3	0.2-2.0	0.15-0.22	0.07-0.15			●	●	●	●	●	●
	4.00E-0.40	4	0.5-2.4	0.18-0.30	0.09-0.18			●	●	●	●	●	●
	4.00E-0.80	4	1.0-2.4	0.18-0.30	0.09-0.18			●	●	●	●	●	●
	4.15E-0.15	4	0.5-2.4	0.18-0.30	0.09-0.18			●	●				
	4.78E-0.55	5	0.7-2.8	0.20-0.35	0.10-0.20			●	●	●			
	5.00E-0.40	5	0.5-2.3	0.20-0.35	0.11-0.20			●	●	●	●	●	●
	5.00E-0.80	5	1.0-3.0	0.23-0.35	0.11-0.21			●	●	●	●	●	●
	5.15E-0.15	5	0.2-3.0	0.23-0.35	0.11-0.21			●	●				
	6.00E-0.80	6	1.0-3.6	0.24-0.42	0.13-0.30			●	●	●	●	●	●
	6.00E-1.20	6	1.3-3.6	0.24-0.42	0.13-0.30			●	●	●	●	●	●
	8.00E-0.80	8	1.0-4.8	0.30-0.56	0.15-0.40			●	●	●	●	●	●
	8.00E-1.20	8	1.3-4.8	0.30-0.56	0.15-0.40			●	●	●	●	●	●
	10.00E-0.80	10	1.0-6.0	0.35-0.65	0.20-0.45			●	●				
10.00E-1.20	10	1.0-6.0	0.40-0.80	0.20-0.45			●	●					
10.00E-2.00	10	1.0-6.0	0.35-0.80	0.20-0.45			●	●					



●: Standard items

TDT-E (Full-Radius)

Precision double-ended inserts for external turning, grooving and profiling



Size	Dimension (mm)			
	CW	RE	BW	INSL
3	3.00	1.50	2.2	20.0
4	4.00	2.00	3.0	20.0
4.78	4.78	2.39	4.0	25.0
5	5.00	2.50	4.0	25.0
6	6.00	3.00	5.0	25.0
8	8.00	4.00	6.0	30.0
10	10.00	5.00	8.0	30.0

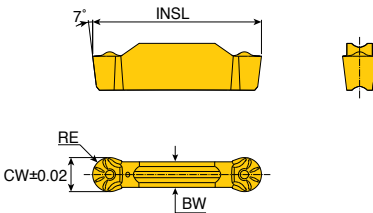
Insert	Designation	Insert seat size	Turning		Grooving	Cermet		Coated			Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT15100	TT9080	TT7220	TT8020
	TDT 3.00E-1.50	3	0.0-1.5	0.15-0.28	0.08-0.18			●	●	●	●	
	4.00E-2.00	4	0.0-2.0	0.18-0.35	0.10-0.20			●	●	●	●	
	4.78E-2.39	5	0.0-2.4	0.20-0.42	0.12-0.23			●	●	●		
	5.00E-2.50	5	0.0-2.5	0.20-0.42	0.12-0.23			●	●	●		●
	6.00E-3.00	6	0.0-3.0	0.25-0.54	0.15-0.27			●	●	●		●
	8.00E-4.00	8	0.0-4.0	0.30-0.67	0.18-0.35			●	●	●		
	10.00E-5.00	10	0.0-5.0	0.35-0.80	0.22-0.40			●	●			



●: Standard items

TDT-RS (Full-Radius)

Precision double-ended inserts for external turning, grooving and profiling



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

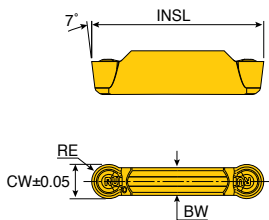
Insert	Designation	Insert seat size	Turning		Grooving	Cermet		Coated			Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT15100	TT3010	TT9080	TT7220
	TDT 2.00E-1.00-RS	2	0.0-1.0	0.10-0.22	0.08-0.15							●
	3.00E-1.50-RS	3	0.0-1.5	0.15-0.28	0.09-0.18				●	●		●
	4.00E-2.00-RS	4	0.0-2.0	0.18-0.35	0.10-0.20				●	●		●
	5.00E-2.50-RS	5	0.0-2.5	0.25-0.54	0.13-0.23				●	●		●
	6.00E-3.00-RS	6	0.0-3.0	0.30-0.67	0.15-0.27				●	●		●



●: Standard items

TDT-RU (Full-Radius)

Double-ended inserts for external turning, grooving and profiling



Size	Dimension (mm)			
	CW	RE	BW	INSL
2	2.0	1.0	1.7	20.0
3	3.0	1.5	2.2	20.0
4	4.0	2.0	3.0	20.0
5	5.0	2.5	4.0	25.0
6	6.0	3.0	5.0	25.0
8	8.0	4.0	6.0	30.0

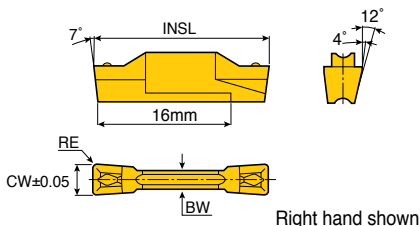
Insert	Designation	Insert seat size	Turning		Grooving	Cermet		Coated				Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT15100	TT3010	TT9080	TT7220	TT8020
	TDT 2E-1.0-RU	2	0.0-1.0	0.10-0.25	0.05-0.15			●	●	●	●	●	●
	3E-1.5-RU	3	0.0-1.5	0.15-0.28	0.08-0.18	●		●	●	●	●	●	●
	4E-2.0-RU	4	0.0-2.0	0.18-0.35	0.10-0.20	●		●	●	●	●	●	●
	5E-2.5-RU	5	0.0-2.5	0.20-0.42	0.12-0.23	●		●	●	●	●	●	●
	6E-3.0-RU	6	0.0-3.0	0.25-0.54	0.15-0.27	●		●	●	●	●	●	●
	8E-4.0-RU	8	0.0-4.0	0.30-0.67	0.18-0.35			●	●	●	●	●	●



●: Standard items

TDFT-E

Double-ended inserts for face grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
3E	3.0	0.40	2.2	20.0
4E	4.0	0.40	3.0	20.0

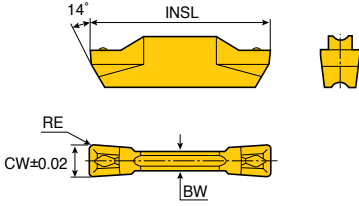
Insert	Designation	Insert seat size	Turning		Grooving	Cermet		Coated				Uncoated
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT15100	TT9080	TT7220	TT8020
	TDFT 3E-0.4R/L	3	0.5-2.0	0.15-0.22	0.07-0.15				●	●		●
	4E-0.4R/L	4	0.5-2.4	0.18-0.30	0.09-0.18				●	●		●



● Apply R insert on R tool and L insert on L tool

●: Standard items

Precision double-ended inserts for internal turning and grooving



Size	Dimension (mm)			
	CW	RE	BW	INSL
3	3.00	0.40	2.2	20.0
4	4.00	0.40-0.80	3.0	20.0
5	5.00	0.40-0.80	4.0	25.0
6	6.00	0.80-1.20	5.0	25.0
8	8.00	1.20	6.0	30.0

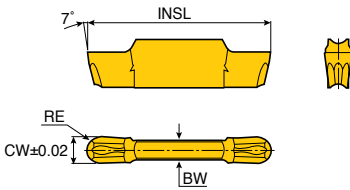
Insert	Designation	Insert seat size	Turning		Grooving	Cermet	Coated					Uncoated
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)		CT3000	TT7505	TT6080	TT5100	TT9080	
	TDIT 3.00E-0.40	3	0.5-1.8	0.15-0.22	0.07-0.15				●	●		●
	4.00E-0.40	4	0.5-2.4	0.18-0.30	0.09-0.18				●	●		●
	4.00E-0.80	4	1.0-2.4	0.18-0.30	0.09-0.18				●	●		●
	5.00E-0.40	5	0.5-2.3	0.20-0.35	0.11-0.20				●	●		●
	5.00E-0.80	5	1.0-3.0	0.23-0.35	0.11-0.21				●	●		●
	6.00E-0.80	6	1.0-3.6	0.24-0.42	0.13-0.30				●	●		●
	6.00E-1.20	6	1.3-3.6	0.24-0.42	0.13-0.30				●	●		●
	8.00E-0.80	8	1.0-4.8	0.30-0.56	0.15-0.40				●	●		●
	8.00E-1.20	8	1.3-4.8	0.30-0.56	0.15-0.40				●	●		●



●: Standard items

TDIT-E (Full-Radius)

Precision double-ended inserts for internal turning, grooving, profiling and undercutting



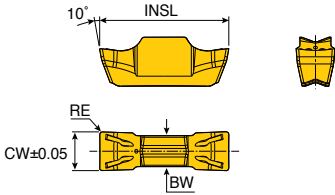
Size	Dimension (mm)			
	CW	RE	BW	INSL
3	3.00	1.50	2.2	20.0
4	4.00	2.00	3.0	20.0
5	5.00	2.50	4.0	25.0
6	6.00	3.00	5.0	25.0

Insert	Designation	Insert seat size	Turning		Grooving	Cermet	Coated					Uncoated
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)		CT3000	TT7505	TT6080	TT5100	TT9080	
	TDIT 3.00E-1.50	3	0.0-1.5	0.15-0.28	0.08-0.18				●	●		●
	4.00E-2.00	4	0.0-2.0	0.18-0.35	0.10-0.20				●	●		●
	5.00E-2.50	5	0.0-2.5	0.20-0.42	0.12-0.23				●	●		●
	6.00E-3.00	6	0.0-3.0	0.25-0.54	0.15-0.27				●	●		●



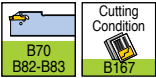
●: Standard items

Double-ended inserts for internal turning and grooving on small diameter



Size	Dimension (mm)			
	CW	RE	BW	INSL
2	2.0	0.15	1.6	10
3	3.0	0.20	2.4	10

Insert	Designation	Insert seat size	Turning		Grooving	Cermet	Coated				Uncoated		
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDIM 2E-0.15	2	0.2-0.6	0.05-0.08	0.03-0.05								
	3E-0.2	3	0.3-1.3	0.10-0.14	0.05-0.09								

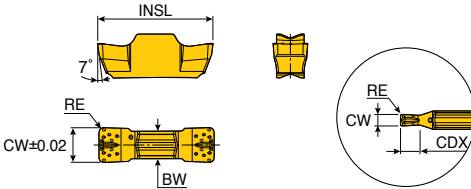


• Used holder TTSER/L, TTSIR/L, TGSIR/L

● Standard items

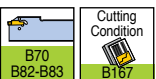
TDIP

Precision double-ended inserts for internal turning and grooving on small diameter



Size	Dimension (mm)				
	CW	RE	BW	INSL	CDX
1.00	1.00	0.10-0.50	1.6	10	1.6
1.20	1.20	0.00	1.6	10	1.8
1.40	1.40	0.00	1.6	10	2.0
1.50	1.50	0.10	1.6	10	2.0
2.00	2.00	0.10-1.00	1.6	10	-
2.15	2.15	0.15	1.6	10	-
2.50	2.50	0.20	2.4	10	-
3.00	3.00	0.20-1.50	2.4	10	-

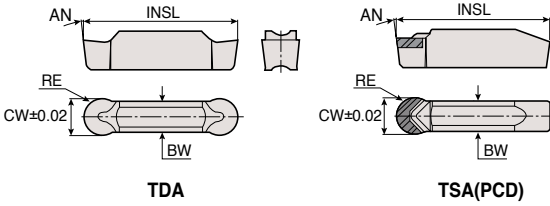
Insert	Designation	Insert seat size	Turning		Grooving	Cermet	Coated				Uncoated		
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDIP 1.00-0.10*	2	-	-	0.01-0.03								
	1.00-0.50*	2	-	-	0.01-0.04								
	1.20-0.00*	2	-	-	0.01-0.03								
	1.40-0.00*	2	-	-	0.02-0.04								
	1.50-0.10*	2	-	-	0.02-0.04								
	2.00E-0.10	2	0.2-0.6	0.05-0.07	0.03-0.05								
	2.00E-0.20	2	0.2-0.6	0.05-0.07	0.03-0.05								
	2.00E-1.00	2	0.0-0.6	0.08-0.12	0.04-0.07								
	2.15E-0.15	2	0.2-0.6	0.06-0.08	0.04-0.06								
	2.50E-0.20	3	0.2-1.1	0.07-0.09	0.04-0.07								
	3.00E-0.20	3	0.3-1.3	0.11-0.14	0.05-0.09								
3.00E-1.50	3	0.0-1.5	0.13-0.20	0.05-0.11									



• * Only for grooving: Please use TGSIR/L holder

● Standard items

Inserts for aluminum wheel machining



Size	Dimension (mm)				
	CW	RE	BW	INSL	AN
3	3.00	1.5	2.4	20.0	7
4	4.00	2.0	3.0	20.0	7
5	5.00	2.5	4.0	25.0	7
6	6.00	3.0	5.0	25.0	7
8	8.00	4.0	6.0	30.0	10

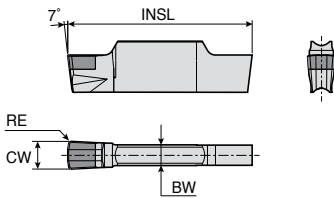
Insert	Designation	Insert seat size	Turning		Grooving	PCD					Coated		Uncoated	
			ap (mm)	Feed (mm/rev)	Feed (mm/rev)	KP300	TT7505	TT6080	TT15100	TT9080	TT7220	TT8020	K10	
 TDA	TDA 3.00-1.50	3	0.0-1.5	0.15-0.30	0.08-0.16									●
	4.00-2.00	4	0.0-2.0	0.20-0.43	0.10-0.22									●
	5.00-2.50	5	0.0-2.5	0.20-0.48	0.10-0.25									●
	6.00-3.00	6	0.0-3.0	0.21-0.58	0.11-0.29									●
	8.00-4.00	8	0.0-4.0	0.24-0.67	0.14-0.38									●
 TSA	TSA 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

TSG-HF

Single-ended CBN inserts for high feed turning



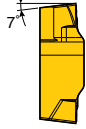
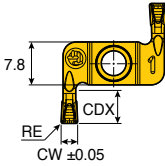
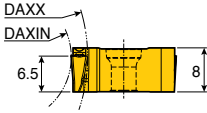
Size	Dimension (mm)				
	CW	RE	BW	INSL	
3	3.0	0.3	2.2	20	
5	5.0	0.3	4.0	25	

Insert	Designation	Insert seat size	ap (mm)	Feed (mm/rev)	CBN
					TB2015
	TSG 3.0-0.3-HF	3	0.08-0.12	0.40-0.80	●
	5.0-0.3-HF	5	0.08-0.12	0.40-1.20	●



● : Standard items

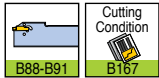
Double-ended inserts for face grooving and turning



Right hand shown

Size	Dimension (mm)				
	CW	RE	CDX	DAXIN	DAXX
3	3	0.3	6	24	N.L.
4	4	0.4	6	32	N.L.

Insert	Designation	Turning		Grooving	Cermet		Coated				Uncoated	
		ap (mm)	Feed (mm/rev)	Feed (mm/rev)	CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020	K10
	TDFX 3E-0.3-D24R/L	0.4-1.8	0.15-0.20	0.07-0.20					●			
	4E-0.4-D32R/L	0.5-2.4	0.15-0.24	0.09-0.25					●			

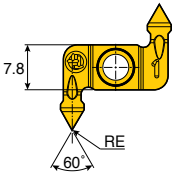


● N.L.: No limit

●: Standard items

TDX

Double-ended threading inserts with 60° partial profile



Right hand shown

Size	Dimension (mm)				
	RE	TPN	TPX	TPIX	TPIN
4	0.05	0.45	3.5	56	8

Insert	Designation	Cermet		Coated				Uncoated
		CT3000	TT7505	TT6080	TT5100	TT9080	TT7220	TT8020
	TDX 4MT-0.05-R/L					●		

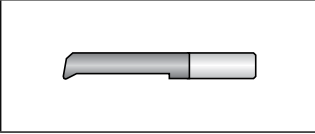


- TPN : Thread pitch minimum (mm)
- TPX : Thread pitch maximum (mm)
- TPIX : Thread per inch maximum
- TPIN : Thread per inch minimum

●: Standard items

MIN	T	R	04	040	005	D010
1	7	2	3	4	5	6

1 TOP-MICRO series



2 Hand of tool

R Right-hand
L Left-hand

3 Shank dia.

04 4.0mm
07 7.0mm

4 Max. depth

050 5.0mm
140 14.0mm

5 Corner radius

010 0.10mm
020 0.20mm

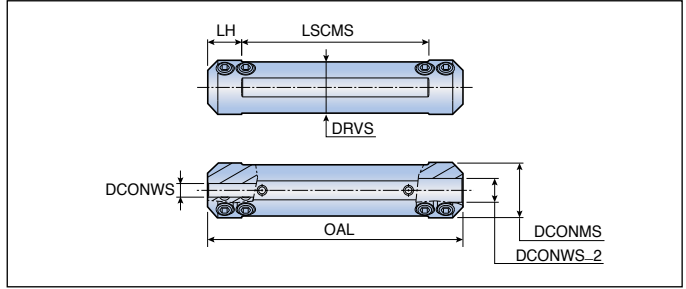
6 Min. bore dia.

D010 1.0mm

7 Application type

T	Turning and chamfering
B	Back turning
P	Turning and profiling
U	Undercutting and chamfering
C	Turning and 45° chamfering
G	Grooving and turning
S	Grooving along shaft
F	Face grooving
R	Full radius for internal boring and profiling
I	ISO full profile internal threading
SL	Sleeve for MINS

Sleeves

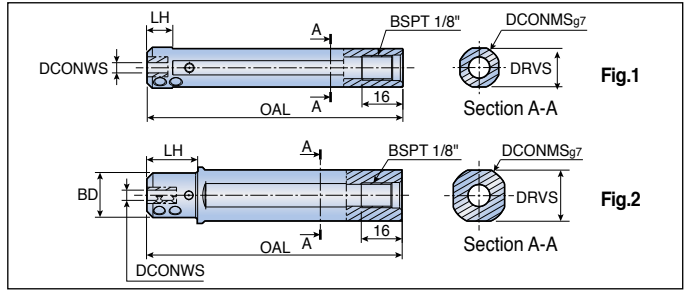


Designation	Dimension (mm)						
	DCONMS	DCONWS	DCONWS_2	OAL	LH	LSCMS	DRVS
MINSL 12-4-4	12.00	4.00	4.00	75.00	13.00	49.00	10.30
14-4-4	14.00	4.00	4.00	75.00	13.00	49.00	12.00
16-4-7	16.00	4.00	7.00	75.00	10.00	55.00	15.00
20-4-7	20.00	4.00	7.00	90.00	10.00	70.00	18.00
22-4-7	22.00	4.00	7.00	90.00	10.00	70.00	20.00
25-4-7	25.00	4.00	7.00	90.00	10.00	70.00	23.40

Spare parts

Designation	Set screw	Wrench		
MINSL 12	SS M5x0.8x4-MG	L-W 2.5		
MINSL 14/16/20/22/25	SS M5x0.8x6-MG	L-W 2.5		

Sleeves for direct connection for coolant



Designation	Dimension (mm)						Fig.
	DCONMS	DCONWS	BD	OAL	LH	DRVS	
MINS 16-4-L100C	16.00	4.00	-	100.00	10.00	15.00	1
16-7-L100C	16.00	7.00	-	100.00	10.00	15.00	1
20-4-L100C	20.00	4.00	17.50	100.00	20.00	18.00	2
20-7-L100C	20.00	7.00	17.50	100.00	20.00	18.00	2
22-4-L100C	22.00	4.00	17.50	100.00	20.00	20.00	2
22-7-L100C	22.00	7.00	17.50	100.00	20.00	20.00	2
25-4-L100C	25.00	4.00	18.00	100.00	23.00	23.00	2
25-7-L100C	25.00	7.00	18.00	100.00	23.00	23.00	2

• All sleeves applicable for Citizen Swiss type machine

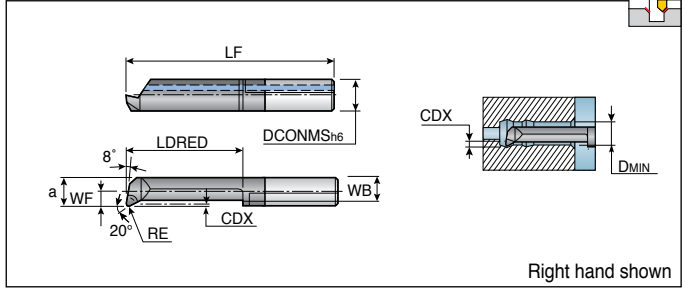
Spare parts

Designation	Set screw	Wrench		
MINS ...-L100C	SS M5x0.8x6-MG	L-W 2.5		

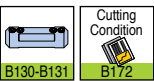
MINT R/L 04



Mini carbide bars for internal turning and chamfering



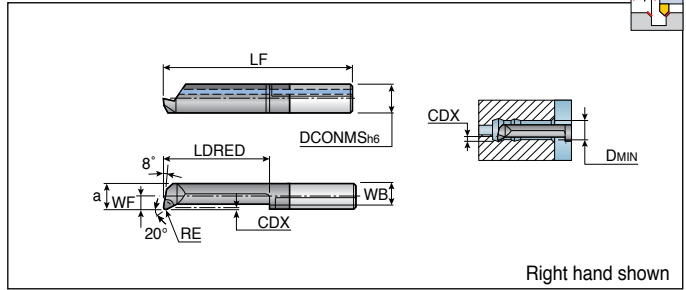
Designation	Dimension (mm)									R/L	Grade TT9030
	DCONMS	WF	a	WB	LF	LDRED	RE	CDX	DMIN		
MINTR04-020004D006*	4.00	-	0.50	0.35	18.50	3.50	0.04	0.08	0.60	R	●
030004D006*	4.00	-	0.50	0.35	19.50	4.50	0.04	0.08	0.60	R	●
045005D010	4.00	-	0.90	0.70	21.00	6.00	0.05	0.10	1.00	R	●
065005D010	4.00	-	0.90	0.70	23.00	8.00	0.05	0.10	1.00	R	●
040005D020	4.00	-	1.70	1.45	20.50	5.50	0.05	0.10	2.00	R	●
090005D020	4.00	-	1.70	1.45	25.50	10.50	0.05	0.10	2.00	R	●
140005D020	4.00	-	1.70	1.45	30.50	15.50	0.05	0.10	2.00	R	●
090010D028	4.00	0.90	2.60	2.20	25.50	10.50	0.10	0.20	2.80	R	●
150010D028	4.00	0.90	2.60	2.20	31.50	16.50	0.10	0.20	2.80	R	●
190010D028	4.00	0.90	2.60	2.20	35.50	20.50	0.10	0.20	2.80	R	●
090010D040	4.00	1.50	3.50	2.90	25.50	10.50	0.10	0.30	4.00	R	●
150010D040	4.00	1.50	3.50	2.90	31.50	16.50	0.10	0.30	4.00	R	●
190010D040	4.00	1.50	3.50	2.90	35.50	20.50	0.10	0.30	4.00	R	●
230010D040	4.00	1.50	3.50	2.90	39.50	24.50	0.10	0.30	4.00	R	●
270010D040	4.00	1.50	3.50	2.90	43.50	28.50	0.10	0.30	4.00	R	●
MINTL04-090010D028	4.00	0.90	2.60	2.20	25.50	10.50	0.10	0.20	2.80	L	●
150010D028	4.00	0.90	2.60	2.20	31.50	16.50	0.10	0.20	2.80	L	●
190010D028	4.00	0.90	2.60	2.20	35.50	20.50	0.10	0.20	2.80	L	●
090010D040	4.00	1.50	3.50	2.90	25.50	10.50	0.10	0.30	4.00	L	●
150010D040	4.00	1.50	3.50	2.90	31.50	16.50	0.10	0.30	4.00	L	●
190010D040	4.00	1.50	3.50	2.90	35.50	20.50	0.10	0.30	4.00	L	●



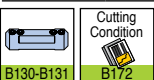
* Max D.O.C: 0.01 - 0.03, max feed 0.01mm/rev

●: Standard items

Mini carbide bars for internal turning and chamfering



Designation	Dimension (mm)									R/L	Grade TT9030
	DCONMS	WF	a	WB	LF	LDRED	RE	CDX	DMIN		
MINTR07-090015D050	7.00	0.90	4.40	3.65	25.00	10.00	0.15	0.50	5.00	R	●
140015D050	7.00	0.90	4.40	3.65	30.00	15.00	0.15	0.50	5.00	R	●
190015D050	7.00	0.90	4.40	3.65	35.00	20.00	0.15	0.50	5.00	R	●
240015D050	7.00	0.90	4.40	3.65	40.00	25.00	0.15	0.50	5.00	R	●
290015D050	7.00	0.90	4.40	3.65	45.00	30.00	0.15	0.50	5.00	R	●
340015D050	7.00	0.90	4.40	3.65	50.00	35.00	0.15	0.50	5.00	R	●
140015D060	7.00	1.80	5.30	4.40	30.00	15.00	0.15	0.50	6.00	R	●
210015D060	7.00	1.80	5.30	4.40	37.00	22.00	0.15	0.50	6.00	R	●
240015D060	7.00	1.80	5.30	4.40	40.00	25.00	0.15	0.50	6.00	R	●
290015D060	7.00	1.80	5.30	4.40	45.00	30.00	0.15	0.50	6.00	R	●
340015D060	7.00	1.80	5.30	4.40	50.00	35.00	0.15	0.50	6.00	R	●
410015D060	7.00	1.80	5.30	4.40	57.00	42.00	0.15	0.50	6.00	R	●
190015D068	7.00	2.80	6.30	5.40	35.00	20.00	0.15	0.60	6.80	R	●
240015D068	7.00	2.80	6.30	5.40	40.00	25.00	0.15	0.60	6.80	R	●
290015D068	7.00	2.80	6.30	5.40	45.00	30.00	0.15	0.60	6.80	R	●
340015D070	7.00	2.80	6.30	5.40	50.00	35.00	0.15	0.60	7.00	R	●
390015D070	7.00	2.80	6.30	5.40	55.00	40.00	0.15	0.60	7.00	R	●
440015D070	7.00	2.80	6.30	5.40	60.00	45.00	0.15	0.60	7.00	R	●
490015D070	7.00	2.80	6.30	5.40	65.00	50.00	0.15	0.60	7.00	R	●
MINTL07-090015D050	7.00	0.90	4.40	3.65	25.00	10.00	0.15	0.50	5.00	L	●
140015D050	7.00	0.90	4.40	3.65	30.00	15.00	0.15	0.50	5.00	L	●
190015D050	7.00	0.90	4.40	3.65	35.00	20.00	0.15	0.50	5.00	L	●
240015D050	7.00	0.90	4.40	3.65	40.00	25.00	0.15	0.50	5.00	L	●
290015D050	7.00	0.90	4.40	3.65	45.00	30.00	0.15	0.50	5.00	L	●
140015D060	7.00	1.80	5.30	4.40	30.00	15.00	0.15	0.50	6.00	L	●
210015D060	7.00	1.80	5.30	4.40	37.00	22.00	0.15	0.50	6.00	L	●
240015D060	7.00	1.80	5.30	4.40	40.00	25.00	0.15	0.50	6.00	L	●
290015D060	7.00	1.80	5.30	4.40	45.00	30.00	0.15	0.50	6.00	L	●
190015D068	7.00	2.80	6.30	5.40	35.00	20.00	0.15	0.60	6.80	L	●
290015D068	7.00	2.80	6.30	5.40	45.00	30.00	0.15	0.60	6.80	L	●
340015D070	7.00	2.80	6.30	5.40	50.00	35.00	0.15	0.60	7.00	L	●

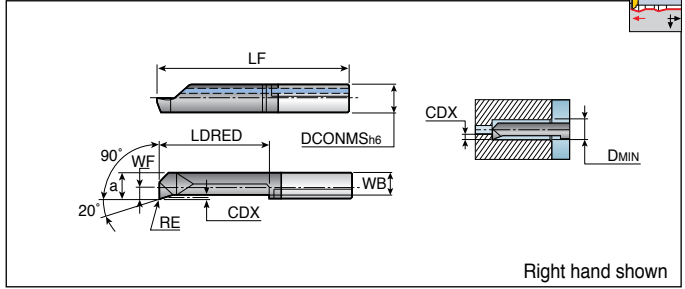


●: Standard items

MINP R 04/07

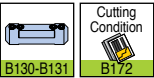


Mini carbide bars for internal turning and profiling



Designation	Dimension (mm)									R/L	Grade TT9030
	DCONMS	WF	a	WB	LF	LDRED	RE	CDX	DMIN		
MINPR04-090010D028	4.00	0.90	2.60	2.20	25.50	10.50	0.10	0.20	2.80	R	●
150010D028	4.00	0.90	2.60	2.20	31.50	16.50	0.10	0.20	2.80	R	●
090010D040	4.00	1.50	3.50	2.90	25.50	10.50	0.10	0.30	4.00	R	●
150010D040	4.00	1.50	3.50	2.90	31.50	16.50	0.10	0.30	4.00	R	●
MINPR07-140015D050	7.00	0.90	4.40	3.65	30.00	15.00	0.15	0.50	5.00	R	●
190015D050	7.00	0.90	4.40	3.65	35.00	20.00	0.15	0.50	5.00	R	●

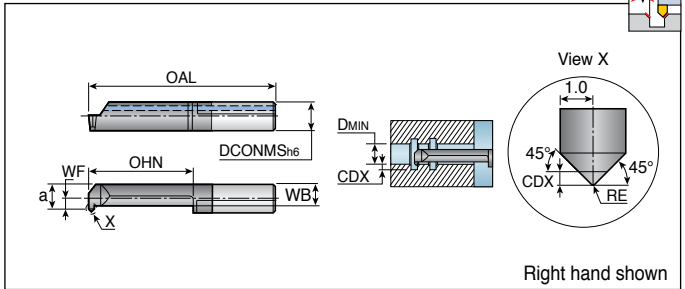
●: Standard items



MINC R 07

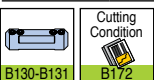


Mini carbide bars for internal turning and 45° chamfering



Designation	Dimension (mm)									R/L	Grade TT9030
	DCONMS	WF	a	WB	OAL	OHN	RE	CDX	DMIN		
MINCR07-140020D050	7.00	0.90	4.40	3.20	30.00	15.00	0.20	0.70	5.00	R	●
190020D050	7.00	0.90	4.40	3.20	35.00	20.00	0.20	0.70	5.00	R	●
190020D068	7.00	2.80	6.30	3.80	35.00	20.00	0.20	0.70	6.80	R	●

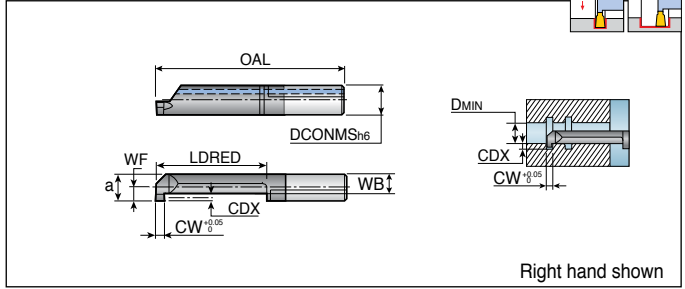
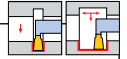
●: Standard items



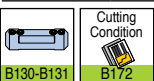
MING R/L 07



Mini carbide bars for grooving and turning



Designation	Dimension (mm)									R/L	Grade TT9030
	DCONMS	CW	WF	a	WB	OAL	LDRED	CDX	DMIN		
MINGR07- 090100D050	7.00	1.00	0.90	4.40	3.00	25.00	10.00	1.00	5.00	R	●
140100D050	7.00	1.00	0.90	4.40	3.00	30.00	15.00	1.00	5.00	R	●
090150D050	7.00	1.50	0.90	4.40	3.00	25.00	10.00	1.00	5.00	R	●
140150D050	7.00	1.50	0.90	4.40	3.00	30.00	15.00	1.00	5.00	R	●
090200D050	7.00	2.00	0.90	4.40	3.00	25.00	10.00	1.00	5.00	R	●
190200D050	7.00	2.00	0.90	4.40	3.00	35.00	20.00	1.00	5.00	R	●
090100D060	7.00	1.00	1.80	5.30	3.10	25.00	10.00	1.80	6.00	R	●
140100D060	7.00	1.00	1.80	5.30	3.10	30.00	15.00	1.80	6.00	R	●
210100D060	7.00	1.00	1.80	5.30	3.10	37.00	22.00	1.80	6.00	R	●
290100D060	7.00	1.00	1.80	5.30	3.10	45.00	30.00	1.80	6.00	R	●
090150D060	7.00	1.50	1.80	5.30	3.10	25.00	10.00	1.80	6.00	R	●
140150D060	7.00	1.50	1.80	5.30	3.10	30.00	15.00	1.80	6.00	R	●
210150D060	7.00	1.50	1.80	5.30	3.10	37.00	22.00	1.80	6.00	R	●
240150D060	7.00	1.50	1.80	5.30	3.10	40.00	25.00	1.80	6.00	R	●
290150D060	7.00	1.50	1.80	5.30	3.10	45.00	30.00	1.80	6.00	R	●
090200D060	7.00	2.00	1.80	5.30	3.10	25.00	10.00	1.80	6.00	R	●
140200D060	7.00	2.00	1.80	5.30	3.10	30.00	15.00	1.80	6.00	R	●
210200D060	7.00	2.00	1.80	5.30	3.10	37.00	22.00	1.80	6.00	R	●
240200D060	7.00	2.00	1.80	5.30	3.10	40.00	25.00	1.80	6.00	R	●
290200D060	7.00	2.00	1.80	5.30	3.10	45.00	30.00	1.80	6.00	R	●
090100D068	7.00	1.00	2.70	6.20	3.30	25.00	10.00	2.50	6.80	R	●
140100D068	7.00	1.00	2.70	6.20	3.30	30.00	15.00	2.50	6.80	R	●
210100D068	7.00	1.00	2.70	6.20	3.30	37.00	22.00	2.50	6.80	R	●
090150D068	7.00	1.50	2.70	6.20	3.30	25.00	10.00	2.50	6.80	R	●
140150D068	7.00	1.50	2.70	6.20	3.30	30.00	15.00	2.50	6.80	R	●
210150D068	7.00	1.50	2.70	6.20	3.30	37.00	22.00	2.50	6.80	R	●
290150D068	7.00	1.50	2.70	6.20	3.30	45.00	30.00	2.50	6.80	R	●
090200D068	7.00	2.00	2.70	6.20	3.30	25.00	10.00	2.50	6.80	R	●
140200D068	7.00	2.00	2.70	6.20	3.30	30.00	15.00	2.50	6.80	R	●
210200D068	7.00	2.00	2.70	6.20	3.30	37.00	22.00	2.50	6.80	R	●
290200D068	7.00	2.00	2.70	6.20	3.30	45.00	29.00	2.50	6.80	R	●
MINGL07- 090100D060	7.00	1.00	1.80	5.30	3.10	25.00	10.00	1.80	6.00	L	●
090150D060	7.00	1.50	1.80	5.30	3.10	25.00	10.00	1.80	6.00	L	●
140200D068	7.00	2.00	2.70	6.20	3.30	30.00	15.00	2.50	6.80	L	●



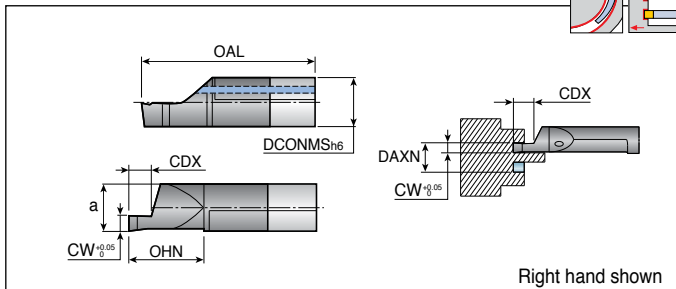
• The corner radius is less than 0.1mm

●: Standard items

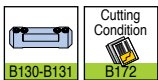
MINS R 07



Mini carbide bars for grooving along shaft



Designation	Dimension (mm)							R/L	Grade TT9030
	DCONMS	CW	a	OAL	OHN	CDX	DAXN		
MINSR07-200200D060	7.00	2.00	5.20	36.00	21.00	4.00	6.00	R	●



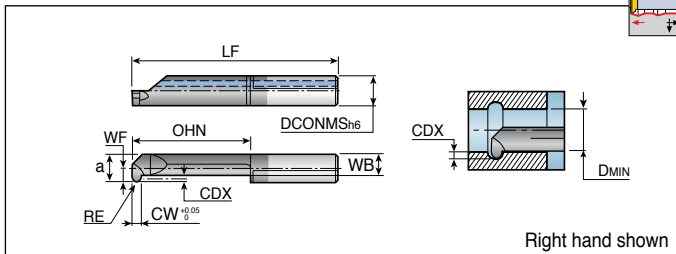
• The corner radius is less than 0.1mm

● Standard items

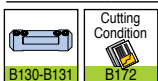
MINR R 07



Mini carbide bars, full radius for internal turning and profiling



Designation	Dimension (mm)										R/L	Grade TT9030
	DCONMS	CW	WF	a	WB	RE	LF	OHN	CDX	DMIN		
MINRR07-190050D050	7.00	1.00	0.90	4.40	3.10	0.50	35.00	20.00	1.00	5.00	R	●
240050D060	7.00	1.00	1.80	5.30	3.20	0.50	40.00	25.00	1.80	6.00	R	●
290050D068	7.00	1.00	2.80	6.30	3.55	0.50	45.00	30.00	2.50	6.80	R	●



● Standard items

TV **E** **R** **4** **07** **010** **45**
1 2 3 4 5 6 7

1 TaeguTec TOP-CUT series

2 Application type

E External turning
R Reverse turning
B Back turning
T Threading
P Parting

3 Hand of tool

R Right-hand
L Left-hand

4 Insert thickness

4 3.97mm

5 Width of insert

07 0.7mm
10 1.0mm
12 1.2mm
15 1.5mm
18 1.8mm
20 2.0mm

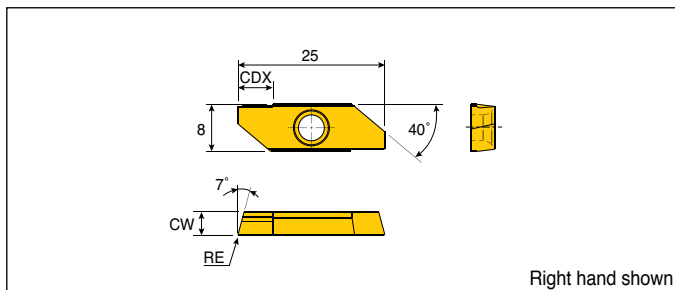
6 Corner radius

000 0mm
003 0.03mm
005 0.05mm
010 0.10mm
015 0.15mm

7 CDX (TVPR/L only)

45 4.5mm
50 5.0mm
60 6.0mm

General turning inserts



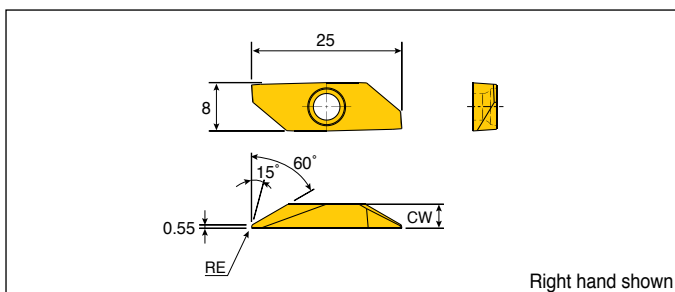
Designation	ap (mm)	Feed (mm/rev)	Dimension (mm)			Grade (TT9010)	
			CW	RE	CDX	R	L
TVER/L 40003	0.1-5.5	0.01-0.15	3.97	0.03	5.5	●	
40010	0.1-5.5	0.01-0.15	3.97	0.10	5.5	●	



●: Standard items

TVRR/L

Reverse turning inserts

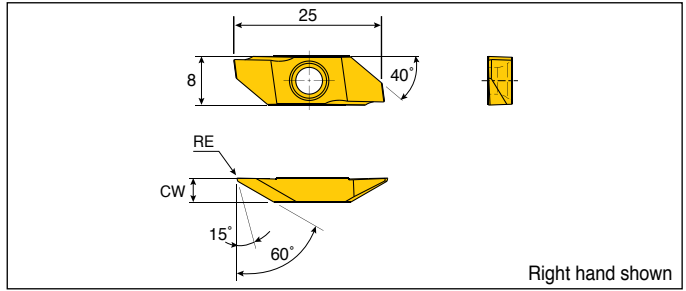


Designation	ap (mm)	Feed (mm/rev)	Dimension (mm)			Grade (TT9010)	
			CW	RE	CDX	R	L
TVRR/L 40003-60	0.1-5.5	0.01-0.15	3.97	0.03	5.5	●	
40010-60	0.1-5.5	0.01-0.15	3.97	0.10	5.5	●	



●: Standard items

Back turning inserts



Designation	ap (mm)	Feed (mm/rev)	Dimension (mm)			Grade (TT9010)	
			CW	RE	CDX	R	L
TVBR/L 40003	0.1-5.5	0.01-0.15	3.97	0.03	5.5	●	●
40005	0.1-5.5	0.01-0.15	3.97	0.05	5.5	●	●
40010	0.1-5.5	0.01-0.15	3.97	0.10	5.5	●	●
40015	0.1-5.5	0.01-0.15	3.97	0.15	5.5	●	●
40005-H⁽¹⁾	0.1-5.5	0.01-0.15	3.97	0.05	5.5	●	●
40015-H⁽¹⁾	0.1-5.5	0.01-0.15	3.97	0.15	5.5	●	●

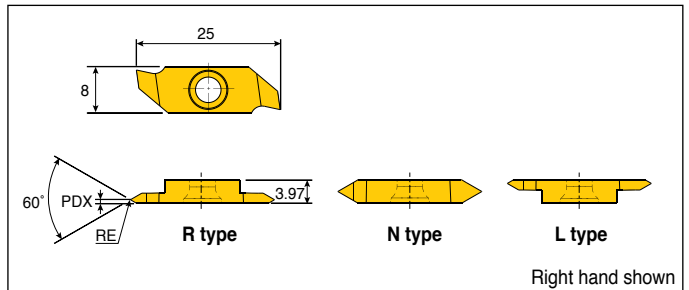


• ⁽¹⁾ With honed edges

●: Standard items

TVTR/L

Threading inserts



Designation	Dimension (mm)				Grade (TT9010)	
	TPN	TPX	PDX	RE	R	L
TVTR/L 41203-R	0.5	1.0	0.6	0.03	●	
40003-N	0.5	2.0	2.1	0.03	●	
41203-L	0.5	1.0	0.6	0.03		



• TVTR 41203-R/L → pitch range: 0.5 - 1.0mm

• TVTR 40003-N → pitch range: 0.5 - 2.0mm

• TPN: Thread pitch minimum (mm), TPX: Thread pitch maximum (mm)

●: Standard items

T **Q** **J** - **27** - **3** - **0.2** - **6** - **R**

1 2 3 4 5 6 7 8

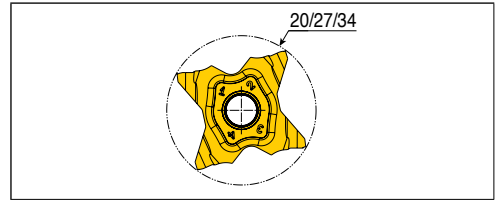
1 TaeguTec

2 QUAD-RUSH

3 Chip breaker type

C	J	S
For medium	For light	For light & tailor made

4 Circular circumference of the insert



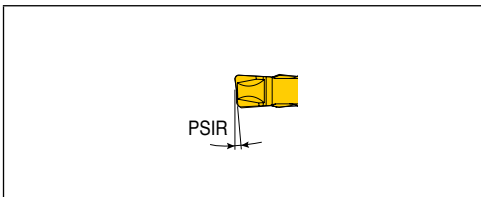
5 Width of insert

	<p>1.00 = 1.0 mm</p> <p>1.50 = 1.5 mm</p> <p>2.53 = 2.53 mm</p> <p>3.18 = 3.18 mm</p>
--	---

6 Corner radius

	<p>0.10 = 0.1 mm</p> <p>0.20 = 0.2 mm</p> <p>0.30 = 0.3 mm</p> <p>0.40 = 0.4 mm</p>
--	---

7 Lead angle



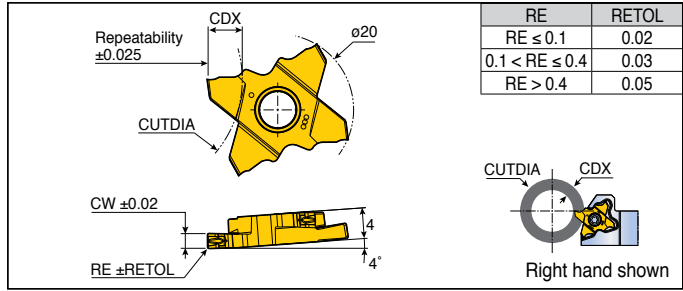
8 Hand of insert

L	R
Left-hand	Right-hand

TQJ 20

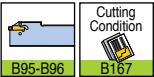


Precision grooving and parting inserts with J-Type chip breaker



RE	RETOL
RE ≤ 0.1	0.02
0.1 < RE ≤ 0.4	0.03
RE > 0.4	0.05

Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA					Grade
					CDX ≤ 2.7	CDX ≤ 3.5	CDX ≤ 4.0	CDX ≤ 4.5	CDX ≤ 5.0	
TQJ 20-1.00-0.10-R/L	0.03-0.07	1.00	0.10	2.7	N.L.	-	-	-	-	●
20-1.50-0.20-R/L	0.03-0.08	1.50	0.20	5.0	N.L.	70	50	30	16	●
20-2.00-0.20-R/L	0.04-0.10	2.00	0.20	5.0	N.L.	70	50	30	16	●



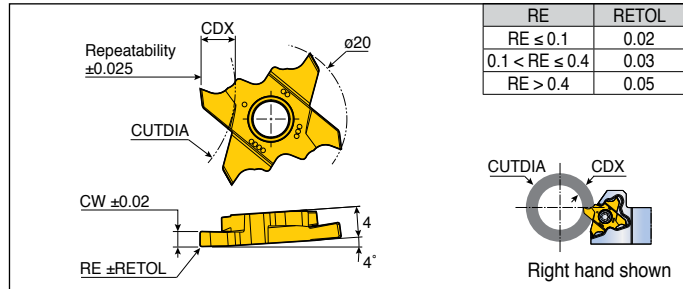
● N.L.: No limit

●: Standard items

TQS 20

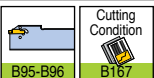


Precision grooving and parting inserts with ground chip breaker



RE	RETOL
RE ≤ 0.1	0.02
0.1 < RE ≤ 0.4	0.03
RE > 0.4	0.05

Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA					Grade	
					CDX ≤ 2.2	CDX ≤ 2.7	CDX ≤ 3.5	CDX ≤ 4.0	CDX ≤ 4.5		CDX ≤ 5.0
TQS 20-0.50-0.05-R/L	0.03-0.07	0.50	0.05	2.2	N.L.	-	-	-	-	●	
20-1.00-0.10-R/L	0.03-0.07	1.00	0.10	2.7	N.L.	N.L.	-	-	-	●	
20-1.50-0.10-R/L	0.03-0.10	1.50	0.10	5.0	N.L.	N.L.	70	50	30	16	●
20-2.00-0.10-R/L	0.04-0.12	2.00	0.10	5.0	N.L.	N.L.	70	50	30	16	●
20-2.00-1.00-R/L*	0.05-0.13	2.00	1.00	5.0	N.L.	N.L.	70	50	30	16	●
20-2.50-0.10-R/L	0.04-0.15	2.50	0.10	5.0	N.L.	N.L.	70	50	30	16	●
20-3.00-0.10-R/L	0.04-0.16	3.00	0.10	5.0	N.L.	N.L.	70	50	30	16	●
20-3.00-1.50-R/L*	0.04-0.16	3.00	1.50	5.0	N.L.	N.L.	70	50	30	16	●



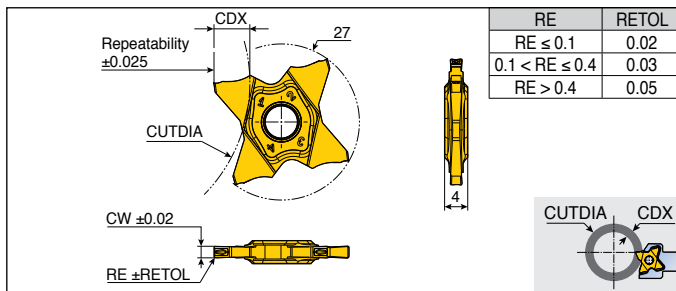
● N.L.: No limit
● *: Full radius insert

●: Standard items

TQJ 27

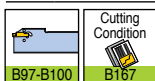


Precision grooving and parting inserts



RE	RETOL
RE ≤ 0.1	0.02
0.1 < RE ≤ 0.4	0.03
RE > 0.4	0.05

Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA											Grade
					T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤5.7	T≤6.0	T≤6.2	T≤6.4	TT9080	
TQJ 27-0.50-0.00	0.02-0.04	0.50	0.00	1.0	-	-	-	-	-	-	-	-	-	-	-	●
27-0.50-0.04	0.02-0.04	0.50	0.04	2.5	-	-	-	-	-	-	-	-	-	-	-	●
27-0.75-0.10	0.02-0.05	0.75	0.10	2.5	-	-	-	-	-	-	-	-	-	-	-	●
27-0.80-0.00	0.02-0.05	0.80	0.00	1.6	-	-	-	-	-	-	-	-	-	-	-	●
27-1.00-0.06	0.03-0.07	1.00	0.06	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-1.00-0.10	0.03-0.07	1.00	0.10	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-1.04-0.00	0.03-0.07	1.04	0.00	2.0	-	-	-	-	-	-	-	-	-	-	-	●
27-1.20-0.00	0.03-0.07	1.20	0.00	2.0	-	-	-	-	-	-	-	-	-	-	-	●
27-1.25-0.10	0.03-0.07	1.25	0.10	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-1.25-0.20	0.03-0.07	1.25	0.20	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-1.40-0.00	0.03-0.08	1.40	0.00	2.0	-	-	-	-	-	-	-	-	-	-	-	●
27-1.47-0.00	0.03-0.08	1.47	0.00	2.5	-	-	-	-	-	-	-	-	-	-	-	●
27-1.50-0.10	0.03-0.08	1.50	0.10	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-1.50-0.20	0.03-0.08	1.50	0.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-1.57-0.10	0.03-0.08	1.57	0.10	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.57-0.15	0.03-0.08	1.57	0.15	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.70-0.10	0.03-0.08	1.70	0.10	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.75-0.10	0.03-0.08	1.75	0.10	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.75-0.20	0.03-0.08	1.75	0.20	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.78-0.18	0.04-0.10	1.78	0.18	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.85-0.20	0.04-0.10	1.85	0.20	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.96-0.15	0.04-0.10	1.96	0.15	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-2.00-0.10	0.04-0.10	2.00	0.10	6.4	N.L.	600	280	180	130	105	85	60	50	30	-	●
27-2.00-0.20	0.04-0.10	2.00	0.20	6.4	N.L.	600	280	180	130	105	85	60	50	30	-	●
27-2.22-0.15	0.04-0.10	2.22	0.15	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.30-0.20	0.04-0.10	2.30	0.20	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.39-0.15	0.04-0.10	2.39	0.15	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.47-0.20	0.04-0.10	2.47	0.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.50-0.10	0.04-0.10	2.50	0.10	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.50-0.30	0.05-0.12	2.50	0.30	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.70-0.10	0.05-0.12	2.70	0.10	6.2	N.L.	600	280	180	135	105	95	85	78	-	-	●
27-2.87-0.20	0.05-0.12	2.87	0.20	6.2	N.L.	600	280	180	135	105	95	85	78	-	-	●



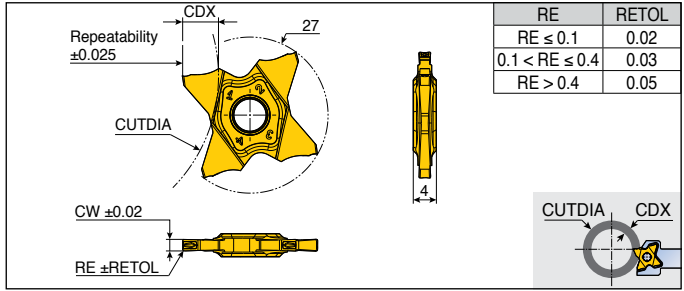
● N.L. = No limit

● Standard items

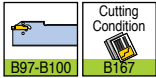
TQJ 27



Precision grooving and parting inserts



Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA										Grade
					T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤5.7	T≤6.0	T≤6.2	T≤6.4	
TQJ 27-3.00-0.00	0.05-0.12	3.00	0.00	6.4	N.L.	600	280	180	135	105	95	85	78	55	●
27-3.00-0.20	0.05-0.12	3.00	0.20	6.4	N.L.	600	280	180	135	105	95	85	78	55	●
27-3.00-0.30	0.05-0.12	3.00	0.30	6.4	N.L.	600	280	180	135	105	95	85	78	55	●
27-3.00-0.40	0.05-0.12	3.00	0.40	6.4	N.L.	600	280	180	135	105	95	85	78	55	●
27-3.15-0.15	0.05-0.12	3.15	0.15	6.4	N.L.	600	280	180	135	105	95	85	78	68	●
27-3.18-0.20	0.05-0.12	3.18	0.20	6.4	N.L.	600	280	180	135	105	95	85	78	68	●



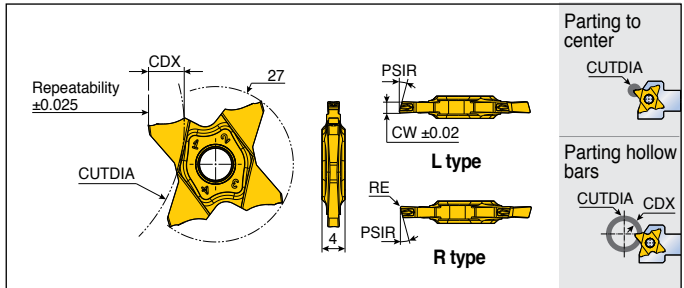
● N.L. = No limit

●: Standard items

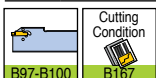
TQJ 27



Parting inserts



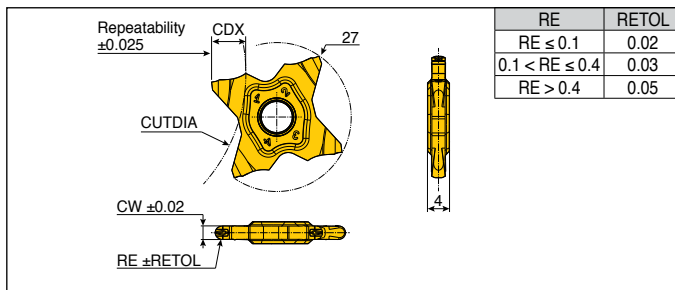
Designation	Feed (mm/rev)	CW	RE	PSIR	Parting to center		Parting hollow bars		Grade
					CUTDIA	CDX	CUTDIA	TT9080	
TQJ 27-1.00-15R/L	0.02-0.06	1.00	0.06	15°	7.0	3.5	600	●	
27-1.50-6R/L	0.02-0.06	1.50	0.06	6°	12.0	5.7	35	●	
27-1.50-15R/L	0.02-0.06	1.50	0.06	15°	12.0	5.7	35	●	
27-2.00-6R/L	0.03-0.08	2.00	0.10	6°	13.0	6.4	30	●	
27-2.00-15R/L	0.03-0.08	2.00	0.10	15°	13.0	6.4	30	●	



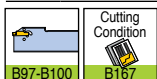
●: Standard items

TQJ 27

Full radius inserts



Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA										Grade	
					T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤5.7	T≤6.0	T≤6.2	T≤6.4		TT9080
TQJ 27-1.57-0.79	0.05-0.08	1.57	0.79	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-2.00-1.00	0.05-0.11	2.00	1.00	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.39-1.20	0.05-0.11	2.39	1.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-3.00-1.50	0.06-0.12	3.00	1.50	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●

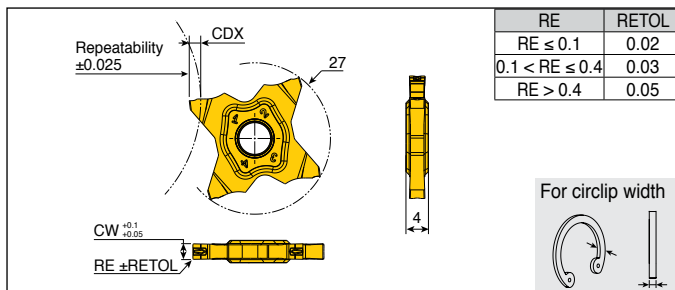


• N.L. = No limit

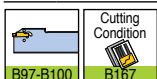
• Standard items

TQJ 27

DIN 471 circlip grooving and shallow grooving inserts



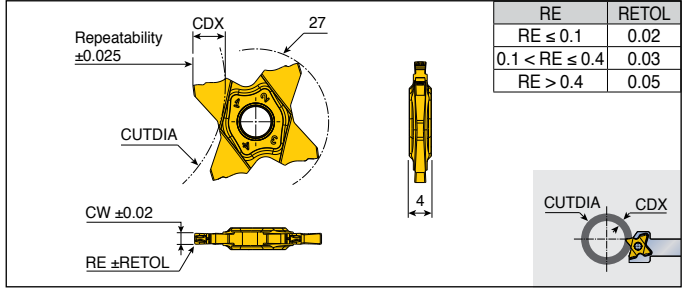
Designation	Feed (mm/rev)	CW	RE	CDX	For circlip width	Grade
						TT9080
TQJ 27-1.10-0.08-CG	0.03-0.07	1.10	0.08	1.50	1.10	●
27-1.30-0.08-CG	0.03-0.07	1.30	0.08	1.50	1.30	●
27-1.60-0.08-CG	0.03-0.08	1.60	0.08	2.00	1.60	●
27-1.85-0.08-CG	0.03-0.08	1.85	0.08	2.00	1.85	●
27-2.15-0.08-CG	0.04-0.10	2.15	0.08	2.50	2.15	●
27-2.65-0.15-CG	0.05-0.12	2.65	0.15	2.50	2.65	●



• When selecting insert, please keep in your mind insert tolerance

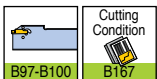
• Standard items

Precision grooving and parting inserts



RE	RETOL
RE ≤ 0.1	0.02
0.1 < RE ≤ 0.4	0.03
RE > 0.4	0.05

Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA										Grade	
					T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤5.7	T≤6.0	T≤6.2	T≤6.4		T≤6.5
TQC 27-1.50-0.10	0.05-0.08	1.50	0.10	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-1.50-0.20	0.05-0.06	1.50	0.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-1.57-0.15	0.05-0.08	1.57	0.15	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.70-0.10	0.05-0.09	1.70	0.10	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.75-0.10	0.05-0.10	1.75	0.10	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.75-0.20	0.05-0.09	1.75	0.20	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.78-0.18	0.05-0.11	1.78	0.18	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.85-0.20	0.05-0.11	1.85	0.20	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-1.96-0.15	0.05-0.11	1.96	0.15	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-2.00-0.10	0.05-0.17	2.00	0.10	6.4	N.L.	600	280	180	130	105	85	60	50	30	-	●
27-2.00-0.20	0.05-0.15	2.00	0.20	6.4	N.L.	600	280	180	130	105	85	60	50	30	-	●
27-2.22-0.15	0.05-0.15	2.22	0.15	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.30-0.20	0.05-0.16	2.30	0.20	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.39-0.15	0.05-0.16	2.39	0.15	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.47-0.20	0.05-0.19	2.47	0.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.50-0.10	0.05-0.20	2.50	0.10	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.50-0.30	0.05-0.17	2.50	0.30	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-2.70-0.10	0.05-0.19	2.70	0.10	6.2	N.L.	600	280	180	135	105	95	85	78	-	-	●
27-2.87-0.20	0.05-0.19	2.87	0.20	6.2	N.L.	600	280	180	135	105	95	85	78	-	-	●
27-3.00-0.00	0.05-0.11	3.00	0	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●
27-3.00-0.20	0.06-0.23	3.00	0.20	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●
27-3.00-0.30	0.06-0.25	3.00	0.30	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●
27-3.00-0.40	0.06-0.25	3.00	0.40	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●
27-3.15-0.15	0.06-0.21	3.15	0.15	6.4	N.L.	600	280	180	135	105	95	85	78	68	-	●
27-3.18-0.20	0.06-0.23	3.18	0.20	6.4	N.L.	600	280	180	135	105	95	85	78	68	-	●
27-3.30-0.10	0.06-0.23	3.30	0.10	6.5	N.L.	600	280	180	135	105	85	65	50	40	35	●
27-3.48-0.20	0.06-0.23	3.48	0.20	6.5	N.L.	600	280	180	135	105	85	65	50	40	35	●
27-3.56-0.20	0.06-0.23	3.56	0.20	6.5	N.L.	600	280	180	135	105	85	65	55	40	35	●
27-3.74-0.20	0.06-0.23	3.74	0.20	6.5	N.L.	600	280	180	135	105	85	65	55	40	35	●
27-3.98-0.20	0.07-0.30	3.98	0.20	6.5	N.L.	600	280	180	135	105	95	85	78	40	45	●
27-4.00-0.30	0.07-0.30	4.00	0.30	6.5	N.L.	600	280	180	135	105	95	85	78	40	45	●
27-4.00-0.40	0.07-0.30	4.00	0.40	6.5	N.L.	600	280	180	135	105	95	85	78	40	45	●
27-4.00-0.80	0.07-0.30	4.00	0.80	6.5	N.L.	600	280	180	135	105	95	85	78	40	45	●
27-4.15-0.15	0.07-0.30	4.15	0.15	6.5	N.L.	600	280	180	135	105	95	85	78	40	45	●
27-4.23-0.10	0.07-0.30	4.23	0.10	6.5	N.L.	600	280	180	135	105	95	85	78	55	65	●



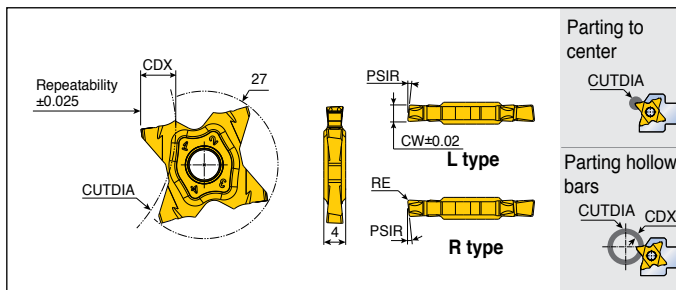
● N.L. = No limit

●: Standard items

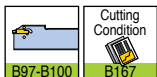
TQC 27



Parting inserts



Designation	Feed (mm/rev)	CW	RE	PSIR	Parting to center			Grade
					CUTDIA	CDX	CUTDIA	
TQC 27-1.50-6R/L	0.03-0.07	1.50	0.06	6°	12.0	5.7	35	●
27-1.50-15R/L	0.03-0.07	1.50	0.06	15°	12.0	5.7	35	●
27-2.00-6R/L	0.04-0.14	2.00	0.10	6°	13.0	6.4	30	●
27-2.00-15R/L	0.04-0.14	2.00	0.10	15°	13.0	6.4	30	●

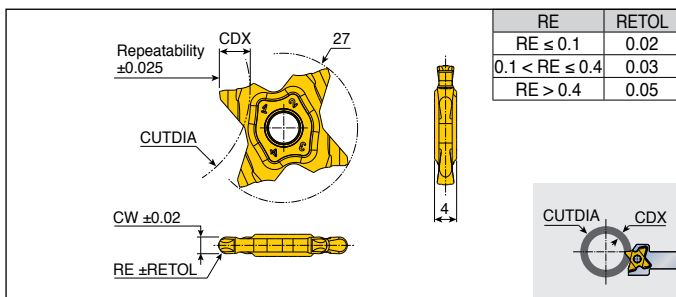


●: Standard items

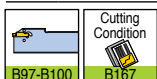
TQC 27



Full radius inserts



Designation	Feed (mm/rev)	CW	RE	CDX	CUTDIA										Grade	
					T≤3.0	T≤3.5	T≤4.0	T≤4.5	T≤5.0	T≤5.5	T≤5.7	T≤6.0	T≤6.2	T≤6.4		
TQC 27-1.57-0.79	0.05-0.09	1.57	0.79	3.0	N.L.	-	-	-	-	-	-	-	-	-	-	●
27-2.00-1.00	0.05-0.13	2.00	1.00	3.5	N.L.	600	-	-	-	-	-	-	-	-	-	●
27-2.39-1.20	0.06-0.17	2.39	1.20	5.7	N.L.	600	280	180	130	50	35	-	-	-	-	●
27-3.00-1.50	0.06-0.20	3.00	1.50	6.4	N.L.	600	280	180	135	105	95	85	78	55	-	●

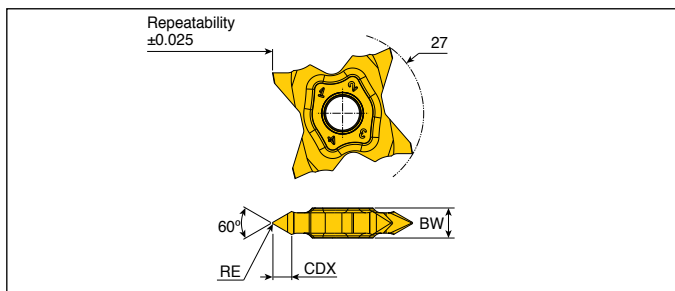


● N.L. = No limit

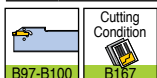
●: Standard items

TQS 27-MT

Partial profile 60° threading inserts



Designation	Dimension (mm)							Grade
	TPN	TPX	TPIX	TPIN	RE	BW	CDX	TT9080
TQS 27-4MT-0.05	0.45	3	48	8	0.05	4	2.8	●
27-4MT-0.14	1.11	3	23	8	0.14	4	2.7	●
27-5MT-0.15	1.25	3	20	8	0.15	5	3.1	●
27-5MT-0.20	1.63	3	16	8	0.20	5	3.1	●
27-6MT-0.25	1.94	3	13	8	0.25	6	3.6	●

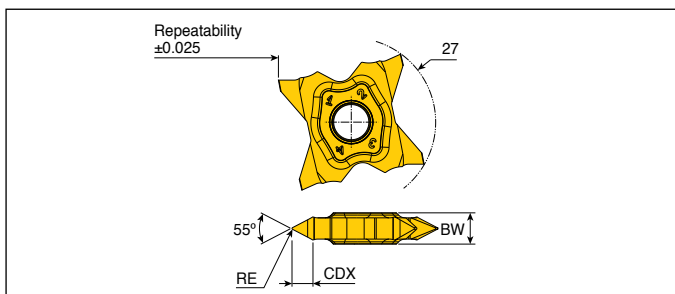


- TPN: Thread pitch minimum (mm)
- TPX: Thread pitch maximum (mm)
- TPIX: Thread per inch maximum
- TPIN: Thread per inch minimum

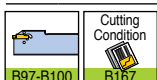
●: Standard items

TQS 27-WT

Partial profile 55° threading inserts



Designation	Dimension (mm)					Grade
	TPIX	TPIN	RE	BW	CDX	TT9080
TQS 27-4WT-0.05	54	10	0.05	4	2.9	●
27-5WT-0.15	19	10	0.15	5	3.3	●
27-6WT-0.25	12	9	0.25	6	3.9	●

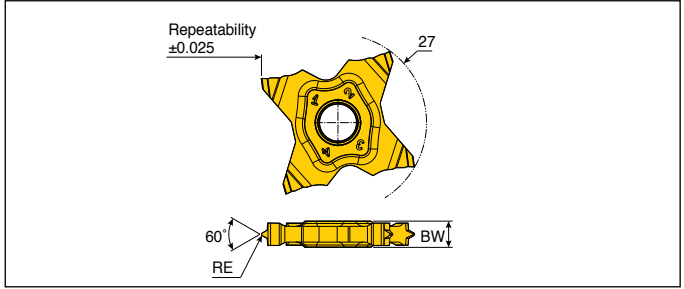


- TPIX: Thread per inch maximum
- TPIN: Thread per inch minimum

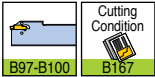
●: Standard items

TQS 27-ISO

ISO metric full profile, external threading inserts



Designation	Dimension (mm)			Grade
	TP	RE	BW	TT9080
TQS 27-0.5-ISO	0.50	0.08	4	●
27-0.75-ISO	0.75	0.11	4	●
27-0.8-ISO	0.80	0.12	4	●
27-1.0-ISO	1.00	0.14	4	●
27-1.25-ISO	1.25	0.18	4	●
27-1.5-ISO	1.50	0.22	4	●
27-1.75-ISO	1.75	0.25	4	●
27-2.0-ISO	2.00	0.28	4	●

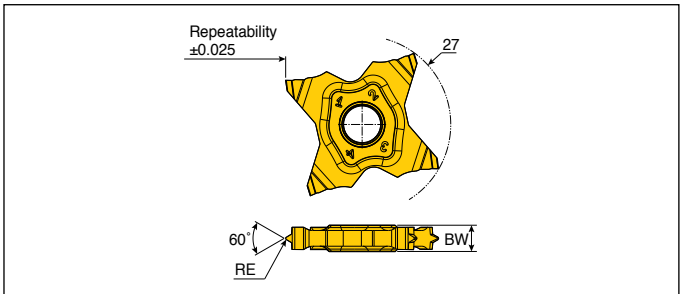


● TP: Thread pitch (mm)

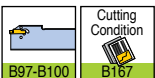
●: Standard items

TQS 27-UN

American UN (UNC, UNF, UNEF) full profile, external threading inserts



Designation	Dimension (mm)			Grade
	TPI	RE	BW	TT9080
TQS 27-24-UN	24	0.13	4	●
27-20-UN	20	0.16	4	●
27-18-UN	18	0.16	4	●
27-16-UN	16	0.21	4	●
27-14-UN	14	0.23	4	●
27-12-UN	12	0.27	4	●

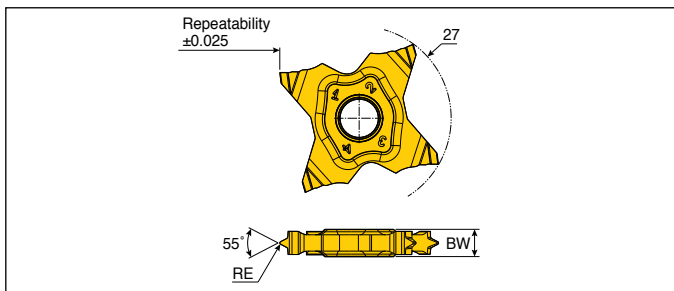


● TPI: Thread per inch

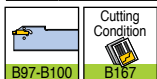
●: Standard items

TQS 27-W

Whitworth (BSW, BSF, BSP) full profile, external threading inserts



Designation	Dimension (mm)			Grade TT9080
	TPI	RE	BW	
TQS 27-28-W	28	0.09	4	●
27-19-W	19	0.15	4	●
27-18-W	18	0.16	4	●
27-16-W	16	0.19	4	●
27-14-W	14	0.21	4	●
27-12-W	12	0.25	4	●

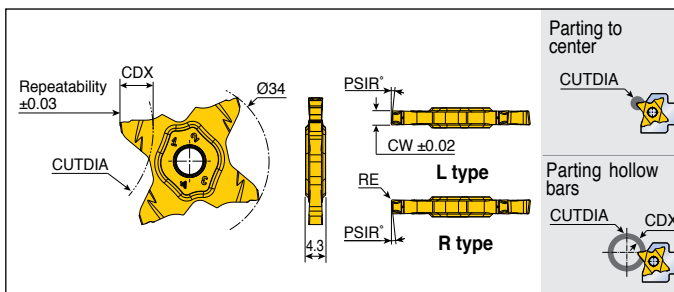


● TPI: Thread per inch

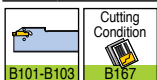
● Standard items

TQC 34

Parting inserts



Designation	Feed (mm/rev)	CW	RE	PSIR°	Parting to center		Parting hollow bars		Grade TT9080
					CUTOIA	CDX	CUTOIA	CDX	
TQC 34-1.50-8R/L	0.03-0.10	1.50	0.07	8	18.5	9	40	●	
34-2.00-6R/L	0.03-0.15	2.00	0.10	6	18.5	9	40	●	
34-2.00-15R/L	0.03-0.15	2.00	0.10	15	18.5	9	40	●	
34-3.00-6R/L	0.03-0.18	3.00	0.20	6	20.0	10	20	●	



● Standard items

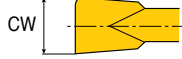
TDIT **3.20** - **0.00** - **0.25** - - **TT8020**

1 **2** **3** **4** **5** **6**

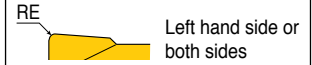
1 Main style of insert

T type: Chip breaker
G type: Non-chip breaker

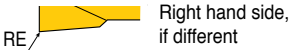
2 Insert width



3 Corner radius



4 Corner radius



5 Additional codes

6 Grades

Parting & Grooving	Turning & Grooving
<p>TDJ / TDC</p> <p>TSJ / TSC</p>	<p>TDT TDA TDG</p> <p>TDIT TDFT</p> <p>Internal Facing</p>

Special profile inserts

Tailor-made inserts are available upon request.

Shape	Designation	Remarks
	TDT 4.00-0.50	Symmetrical type
	TDIT 3.20-0.00-0.25	Non-symmetrical type
	TDT 3.30-1.65	Full-R type
	TDT 4.00-0.30-5RA	L: Chamfer on left hand side R: Chamfer on right hand side
	TDT 3.10-0.10-15LA	
	TDG 5.28-1.20-R25A	
	TDT 5.28-1.20-L25A	

Shape	Designation	Remarks
	TDG 4.40-1.82-29A	L: Chamfer on left hand side R: Chamfer on right hand side
	TDT 4.40-1.50-30A	
	TDT 5.28-2.05-45R25L	
	TDG 4.40-0.15-60A	
	TDG 5.40-0.10-30R50L	
	TDT 3.90-4.00	
	TDT 1.90-T3.5C	
	TDT 1.90-0.30-4.20T	

Shape	Designation
	TDG 1.98-T4.5C
	TDFT 3.80E-0.25
	TDIT 2.60-1.30
The others	Available upon customer's request

Heavy Industry

Tailor-made

Designation	Dimension (mm)	Remarks
XNMR 401416-HD		
XNGT 332-GV		

► Specific dimensions

External holder

Internal holder

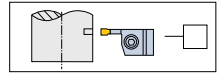
Facing holder

Right handed shown

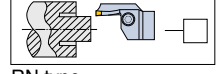
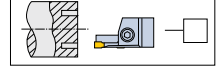
Right handed shown

Right handed shown

External holder

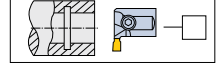


Facing holder



RN type

Internal holder



Holder handed

- Right handed
- Light handed

Insert

- Grade: _____
- Chip breaker type: _____

Quantity

- _____ pcs

Workpieces

- Part: _____
- Material: _____
- Hardness: _____

Comment

Customer: _____ Contact: _____

Address: _____

Telephone: _____ Fax: _____

E-mail: _____