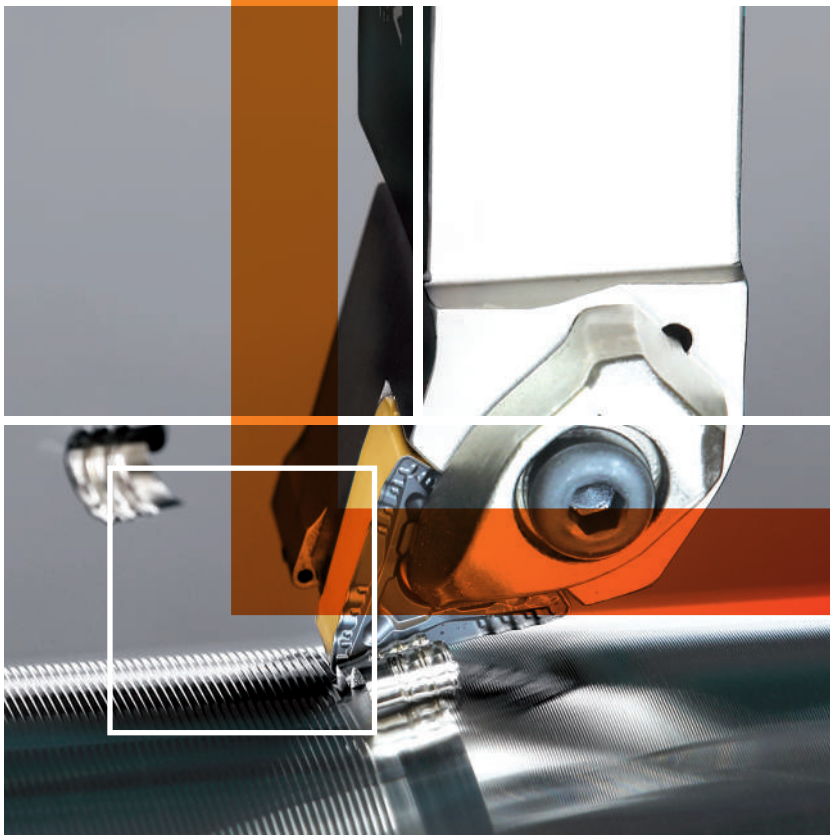
TURNING



TURNING

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Guide to Icons



› Toolholder Page



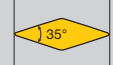
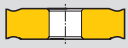
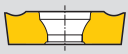
› Insert Page



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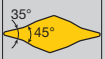
Tool Selection Guide

Holders

Insert type			General turning (For red color, refer to Rhino catalog)							
			C	D	R	S	T	V	W	E
										
Negative insert			07, 09, 12-25	08, 13, 11, 15	09-25	09, 12-31	13, 16-33	13,16	04, 06, 08	13
Positive insert			03-12	07, 11	06-32	09-19	06 - 27	08-22	06	
 Lever lock	Ext.	A7	●	●	●	●	●		●	
	Int.	A18, A19	●	●		●	●			
 Screw clamp	Ext.	A8, A10, A11, A15	●	●	●	●	●	●		
	Int.	A16, A18, A19	●	●		●	●	●	●	
 Hook lever	Ext.	A12				●				
	Int.	A17								
 Multi lock	Ext.	A12		●			●	●	●	
	Int.	A17							●	
 T-holder	Ext.	A6, A14, A15	●	●	●	●	●	●	●	●
	Int.	A18, A19	●	●		●		●	●	
 Top clamp	Ext.	A13			●	●	●			
	Int.	A17				●	●			
 Wedge clamp	Ext.	A12					●			
	Int.	A18					●			
 Dimple holder	Ext.	A13	●	●		●				
	Int.	A18	●							

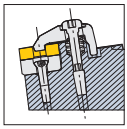
Tool Selection Guide

Holders

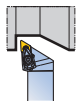
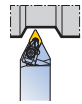
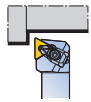
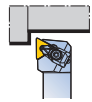
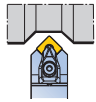
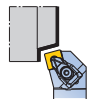
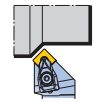
General turning (For red color, refer to Rhino catalog)					High feed turning				
H	K	XNMG	Y	BTVC	FCMX	TNMV	XNMV	ZNMV	ZNMV Y-BF
									
05, 10	16	09, 11	13			21	11	14	14
				11	10				
				●	●				
							●		
							●		
●						●	●	●	●
●							●		
	●								
	●								

Tool Selection Guide

External holders

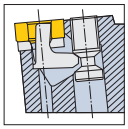


T T-Holder

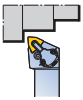
80° 70°				
	TCBNR/L A98	TCKNR/L A98	TCLNR/L A99	TXJNR/L A133 TXJNR/L-TB A133
55°				
	TDJNR/L A100	TDNNR/L A100		
60°				
	TTGNR/L A104	TTJNR/L A104	TTQNR/L(-TB) A132	
90°				
	TSDNN A102	TSKNR/L A103	TSSNR/L A103	
35° 25°				
	TVJNR/L A105	TVQNR/L A105		
45° 35° 45°				
	TZQNR/L A134	TZQNR/L-TB A134	TZXNN A135	TZXNN-TB A135
80°			120°	
	TWLNR/L A106			THSNR/L A101

Tool Selection Guide

External holders

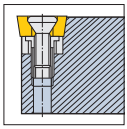


P Lever lock

80°	 PCBNR/L A58	 PCKNR/L A58	 PCLNR/L A59	 PCLNR/L-TB A59
55°	 PDJNR/L A60	 PDJNR/L-TB A60	 PDNNR/L A61	
60°	 PTFNR/L A66	 PTGNR/L A67	 PTTNR/L A67	
90°	 PSBNR/L A64	 PSDNN A64	 PSKNR/L A65	 PSSNR/L A65
80°	 PWLNR/L-TB A68			
	 PRDCN A62	 PRGCR/L A63	 PRGNR/L A63	

Tool Selection Guide

External holders

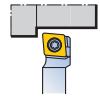


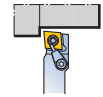
S Screw clamp




SCACR/L-SH A69

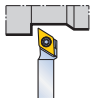

SCACR/L-SH-TB A69

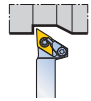

SCLCR/L-SH A70

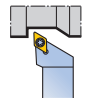

SCLCR/L-SH-TB A70

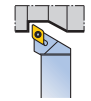

SCLCR/L A71




SDJCR/L-SH A72

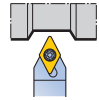

SDJCR/L-SH-TB A72


SDJCR/L A73


SDJNR/L A73

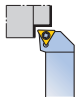

SDNCN-SH A74

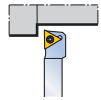

SDNCN-SH-TB A74

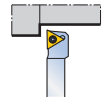

SDNCN A75

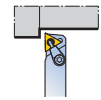

SDQNR/L A75




STFCR/L A79


STGCR/L-SH A80


STGPR-SH A80


STGCR/L-SH-TB A80


STGCR/L A81

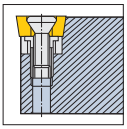




SFXCN A131

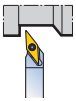
Tool Selection Guide

External holders



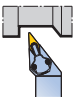
S Screw clamp

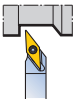
35°

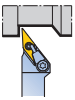

SVJBR/L-SH A82


SVJBR/L-SH-TB A82


SVJBR/L A83

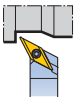

SVJBR/L-TB A83

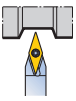

SVJCR/L-SH A84

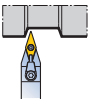

SVJCR/L-SH-TB A84

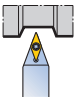

SVJCR/L A85

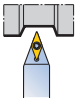

SVJNR/L A85


SVPBR/L A86


SVVBN-SH A87


SVVBN-SH-TB A87


SVVBN A88


SVVCN A88

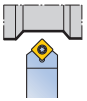

LVJBR/L A90

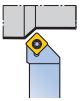

LVJBR-SH A90

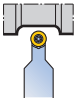

LVQBR/L A91

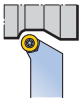

LVVBN A91

90°


SSDCN A78


SSSCR/L A78

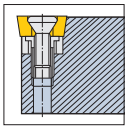

SRDCN A76


SRGCR/L A77

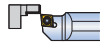
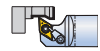

SRGCR/L-TB A77

Tool Selection Guide

External holders

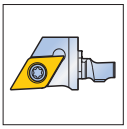


TM... Miniature tool holder (Screw clamp)

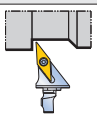
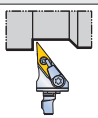
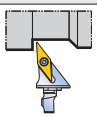
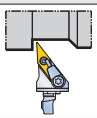
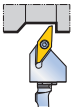
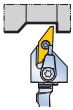
TMB Back turning holders	35°	 TMB-SVXCR A89	 TMB-SVXCR-TB A89
TMS Sleeve holders	80°	 TMS-SCLCL A92	
	55°	 TMS-SDUCL A93	 TMS-SDUCR/L-TB A93
	35°	 TMS-SVUBL A94 TMS-SVUCL A94	 TMS-SVUBR/L-TB A94
TMY Y-axis holders	55°	 TMY-SDJCR A95	 TMY-SDJCR-TB A95
	35°	 TMY-SVJBR A96	 TMY-SVJBR-TB A96
TMZ Shift holders	55°	 TMZ-SDJCR A97	35°  TMZ-SVLBR A97

Tool Selection Guide

External holders

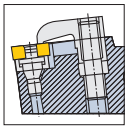


QE Modular head (Screw clamp)

QE1 External turning modular head	55°	 QE1 SDJCR A137  QE1 SDJCR-TB A137
	35°	 QE1 SVJBR A138  QE1 SVJBR-TB A138  QE1 SVJCR A139  QE1 SVJCR-TB A139
QE1B Back turning modular head	35°	 QE1B SVXCR A140  QE1B SVXCR-TB A140
QE1Y Y-axis modular head	55°	 QE1Y SDJCR A141  QE1Y SDJCR-TB A141

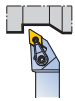
Tool Selection Guide

External holders

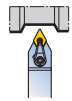


M Multi lock





MDJNR/L A52



MDNNN A52



MDQNR/L A53





MTJNR/L A54





MWLNR/L A57





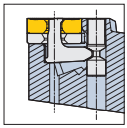
MVJNR/L A55



MVQNR/L A55



MVVNN A56



H Hook lever holder

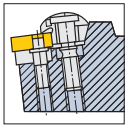




HSBNR/L A51

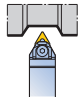


HSDNN A51

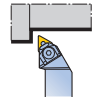


W Wedge clamp

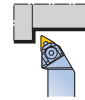




WTENN A107



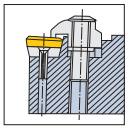
WTGNR/L A107



WTJNR/L A108

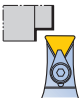
Tool Selection Guide

External holders

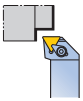


C Top clamp

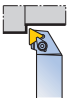
60°



CTCPN A49

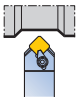


CTFPR/L A49



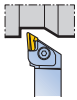
CTGPR/L A50

90°

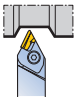


CSDPN A48

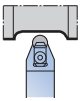
55°



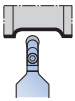
CKJNR/L A47



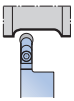
CKNNR/L A47



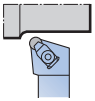
CRDCN-120 A109
CRDCN-140 A109



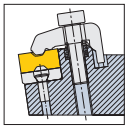
CRDCN-T A110



CRDCR/L-T A110

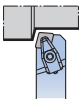


CRGCR/L-120 A111
CRGCR/L-140 A111

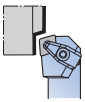


T-CH CH dimple holder

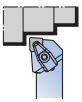
80°



TCBNR/L-CH A113

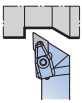


TCKNR/L-CH A113

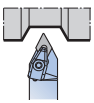


TCLNR/L-CH A114

55°

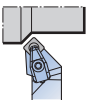


TDJNR/L-CH A115



TDNNN-CH A115

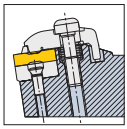
90°



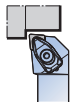
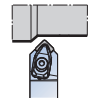
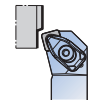
TSSNR/L-CH A116

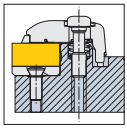
Tool Selection Guide

External holders

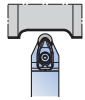
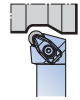


T-DA DA dimple holder

80°	 TCLNR/L-DA A117	90°	 TSDNN-DA A118	 TSKNR/L-DA A118

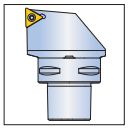


T-F Flat T-Holder

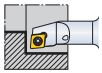
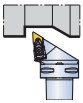
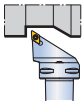
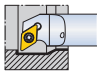
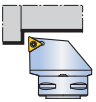
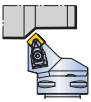
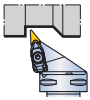
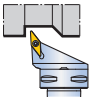
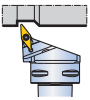
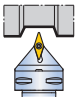
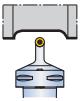
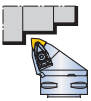
80°	 TCLNR/L-F A119	 CCLNR/L-F A112		
55°	 TDJNR/L-F A120			
90°	 TSDNN-F A123	 TSKNR/L-F A123	 TSRNR/L-F A124	 TSSNR/L-F A124
60°	 TTJNR/L-F A125			
	 TRDNN-F A122	 TRGNR/L-F A122	75°	 TEGNR/L-F A121

Tool Selection Guide

External and internal C-adapter

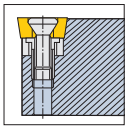


C C-Adapter

80°	 C...TCLNR/L A146	 C...SCLCR/L A151	 C...SCLCR/L A154	
55°	 C...TDJNR/L A146	 C...SDJCR/L A151	 C...SDUCR/L A154	
60°	 C...TTGNR/L A148 C...TTJNR/L A148	 C...TTQNR/L-TB A148	 C...STGCR/L A152 C...STJCR/L A152	 C...STFCR/L A155
90°	 C...TSDNN A147	 C...TSSNR/L A147		
35°	 C...TVJNR/L A149	 C...SVJBR/L A153	 C...LVJBR/L A150	 C...SVVBN A153
	 C...SVQBR/L A155	45°	 C...TZQNR/L-TB A150	
	 C...SRDCN A152	80°	 C...TWLNR/L A149	

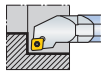
Tool Selection Guide

Internal boring bars

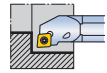


S Screw clamp

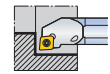
80°



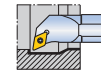
S-SCLCR/L A174
C-SCLCR/L A175
E-SCLCR/L A175



S-SCLPR/L A176
A-SCLPR/L A176

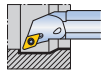


E-SCLPR/L A177

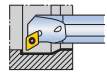


S-SDQCR/L A178

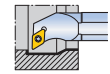
55°



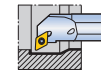
A-SDQNR/L A178



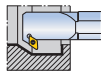
A-SDLNR/L A177



S-SDUCR/L A179

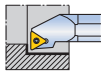


A-SDUNR/L A179

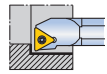


S-SDZCR/L A180

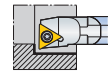
60°



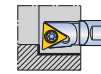
S-STFCR/L A182
C-STFCR/L A182



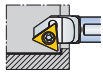
S-STFPR/L A183
A-STFPR/L A183



C-STFPR/L A184
E-STFPR/L A184

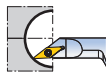


S-STUBR/L A185
C-STUBR/L A185

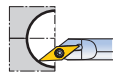


C-STZBR/L A186

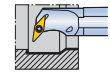
35°



S-SVJBR/L A187
S-SVJCR/L A187



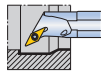
S-SVJPR/L A188



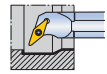
A-SVLNR/L A188



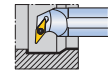
S-SVPBR/L A189
S-SVPCR/L A189



A-SVPNR/L A190



S-SVQBR/L A191
S-SVQCR/L A191

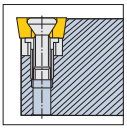


S-SVUBR/L A192
S-SVUCR/L A192

Tool Selection Guide

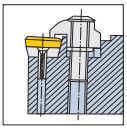
Internal boring bars

S Screw clamp



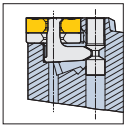
90°	S-SSKCR/L A181	70°	A-SXUNR/L A190
35°	A-SVLNR/L A188, A-SVPNR/L A190	80°	S-SWUBR/L A193 C-SWUBR/L A193

C Top clamp



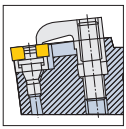
90°	S-CSKPR/L A166	60°	S-CTFCR/L A167 S-CTFPR/L A167	55°	S-CKUNR/L A165

H Hook lever holder



70°	A-HXUNR/L A168

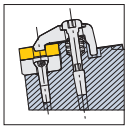
M Multi lock



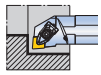
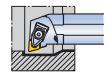
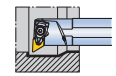
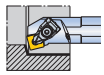
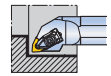
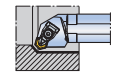
80°	S-MWLNR/L A169

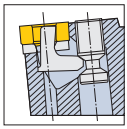
Tool Selection Guide

Internal boring bars

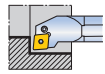
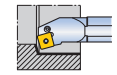
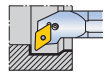
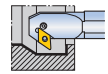
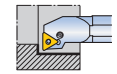


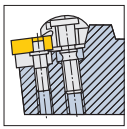
T T-Holder

80°	 A-TCLNR/L A194	70°	 A-TXUNR/L A199	55°	 A-TDUNR/L A195
90°	 A-TSKNR/L A197	80°	 S-TWLNR/L A198 A-TWLNR/L A198	120°	 A-THSNR/L A196

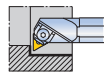


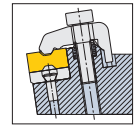
P Lever lock

80°	 S-PCLNR/L A170	90°	 S-PSKNR/L A172
55°	 S-PDUNR/L A171  S-PDZNR/L A171	60°	 S-PTFNR/L A173

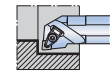


W Wedge clamp

60°	 S-WTFNR/L A200

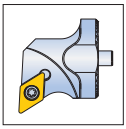


T-CH CH dimple holder

80°	 S-TCLNR/L-CH A201

Tool Selection Guide

Internal boring bars



QH Modular head

80°



QH-SCLCR/L A209



QH-PCLNR/L A203



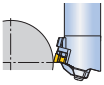
QH-TCLNR/L A205

70°



QH-SXUNR/L A212

45°



QH...Y-TZXNN-TB A213

55°



QH-SDUCR/L A209



QH-SDUCR/L-VH A214



QH-PDUNR/L A203



QH-TDUNR/L A206



QH-TDUNR/L-VH A215

35°



QH-SVUBR/L A211



QH-SVLCR/L-VH A214



QH-LVUBR A208
QH-LVPBR A208



QH-TVUNR/L A206

60°



QH...Y-TTXNN-TB A136



QH-PTFNR/L A204



QH-STFCR/L A210

80°



QH-TWLNR/L A207

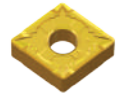
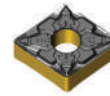
45°

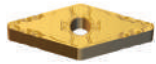
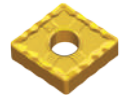
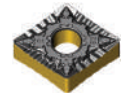


QH-TZQNR-TB A150

Tool Selection Guide

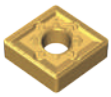
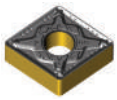
Negative inserts

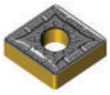
	T-TURN				
Application	Super finishing		Finishing		
Chip breaker	**FA**	**EA**	**FLP**	**FG**	**SF**
Insert					
Material	P	M S	P	P	P M
C 80°	• A231	• A230	• A231	• A231	• A233
D 55°	• A237	• A236	• A237	• A237	
S 90°		• A245		• A246	
T 60°		• A250	• A250	• A250	• A252
V 35°	• A253	• A253	• A253	• A253	
W 80°		• A255	• A256	• A255	
X 70°					
Y 25°					

	T-TURN				
Application	Finishing		Medium		
Chip breaker	**FX**	**FC**	**MLP**	**MC**	**VF**
Insert					
Material	P	P M	P	P	P M
C 80°		• A231	• A232	• A231	
D 55°		• A237	• A238	• A238	• A239
S 90°		• A246		• A246	
T 60°		• A250	• A251	• A251	• A252
V 35°	• A254	• A253			
W 80°		• A255	• A256	• A256	
X 70°					
Y 25°					

Tool Selection Guide

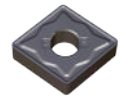
Negative inserts

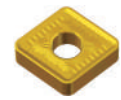
	T-TURN				
Application	Medium				
Chip breaker	**MGS**	**ML**	**MP**	**EM**	**MGP**
Insert					
Material	S	P M S	M S	M S	P
C 80°	• A232	• A228 A232	• A232	• A230	• A231
D 55°	• A238	• A236 A238	• A238	• A236	• A238
R					
S 90°	• A246	• A246	• A247	• A245	• A246
T 60°		• A251	• A251	• A250	• A251
V 35°		• A253 A254		• A253	• A254
W 80°	• A256	• A256	• A256	• A255	• A256
Y 25°					

	T-TURN				
Application	Medium			Roughing	
Chip breaker	**PC**	**MT**	**No Notation**	**ET**	**RGP**
Insert					
Material	P	P M K	P K	M S	P
C 80°	• A233	• A232	• A230	• A230	• A233
D 55°	• A239	• A239	• A236	• A236	
R			• A242		
S 90°	• A247	• A247	• A245	• A245	
T 60°	• A252	• A251	• A249	• A250	
V 35°	• A254	• A254	• A253		
W 80°	• A257	• A257		• A255	• A257
Y 25°					

Tool Selection Guide

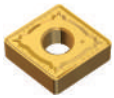
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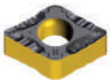
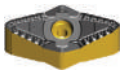
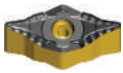
	T-TURN				
Application	Roughing				
Chip breaker	**RT**	**KT**	**RX**	**RH**	**EH**
Insert					
Material	P M K	K	P	P	M
C 80°	• A233	• A231	• A235	• A235	• A234
D 55°	• A239	• A237	• A240		
R					
S 90°	• A247	• A246	• A248	• A248	• A247
T 60°	• A252	• A251	• A252	• A252	
V 35°					
W 80°	• A257	• A256			
Y 25°					

	T-TURN				
Application	Roughing				Finishing wiper
Chip breaker	**HT**	**HD**	**HY**	**HZ**	**WS**
Insert					
Material	P	P	P	P	P M K
C 80°	• A229 A234	• A229	• A229 A234	• A229 A234	• A234
D 55°					• A240
R					
S 90°	• A244 A247	• A243	• A244 A248	• A244 A248	
T 60°					
V 35°					
W 80°					• A257
Y 25°					

Tool Selection Guide

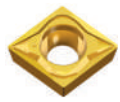
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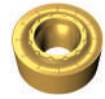
	T-TURN				WINTURN
Application	Medium wiper	Medium		Roughing	Medium / Roughing
Chip breaker	**WT**	**GU**	**SU**	**KNUX**	**TNMV**
Insert					
Material	P M K S	P K	P M S	P M	P M
C 80°	• A228 A234				
D 55°	• A240				
H 120°		• A241	• A241		
S 90°				• A241	
T 60°					• A258
V 35°					
W 80°	• A257				
Y 25°					

	POSSTURN				
Application	Medium / Roughing				
Chip breaker	**XNMV**	**ZNMV**	**ZNMV Y-BF**		
Insert					
Material	P K S	P S	P S		
C 80°					
D 55°					
H 120°					
K 90°					
T 60°					
V 35°					
X 70°	• A259				
Z 45°		• A260	• A260		

Tool Selection Guide

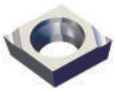
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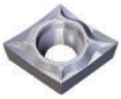
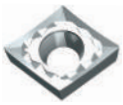
	T-TURN				
Application	Super finishing	Finishing		Medium	
Chip breaker	**FA**	**FG**	**FX**	**PC**	**FM**
Insert					
Material	P M	P M S	P	P M S	P M
C 80°	• A265	• A265 A266		• A265 A266	• A265 A266
D 55°	• A270	• A270		• A270	• A270
R				• A273	
S 90°		• A274		• A274	• A274
T 60°	• A278 A281	• A278 A281		• A278 A281	• A278 A281
V 35°	• A284	• A284	• A284	• A284 A286	• A284 A286
W 80°					
F 90°					

	T-TURN				
Application	Medium		Medium wiper	Roughing	
Chip breaker	**MT**	**MGS**	**WT**	**No Notation**	**RA**
Insert					
Material	P M K	M S	P M K	P M K S	P
C 80°	• A265		• A265		
D 55°	• A270				
R	• A273	• A273			• A273
S 90°	• A274			• A275	
T 60°	• A278			• A281	
V 35°	• A284				
W 80°					
F 90°					

Tool Selection Guide

Positive inserts

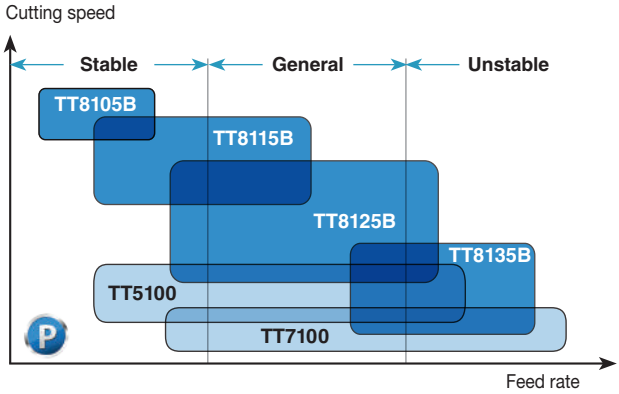
	T-TURN					TURNSPEED
Application	Roughing	Finishing				Medium
Chip breaker	**No Notation**	**FF**	**GF**	**GW**	**FGS**	**FCMX**
Insert						
Material	P	P M S	P M S	P M S	S	P
C 80°		● A263	● A262	● A262		
D 55°		● A268 A271	● A267 A271	● A267		
R	● A273					
S 90°						
T 60°		● A276 A279	● A277 A279			
V 35°		● A283 A287	● A283 A287	● A283	● A284	
W 80°		● A288				
F 90°						● A272

	T-TURN					
Application	Finishing					
Chip breaker	**SL**	**SA**	**SM**	**SH**	**FL**	**ST**
Insert						
Material	P M S	P M S	P M S	P M S	M N S	P M S
C 80°	● A264	● A263	● A264	● A264	● A263	
D 55°	● A269	● A268	● A269	● A269	● A268	● A269
R					● A273	
S 90°					● A274	
T 60°		● A277			● A277	
V 35°	● A283 A285	● A283 A285	● A283 A285	● A285	● A285	
W 80°						
F 90°						

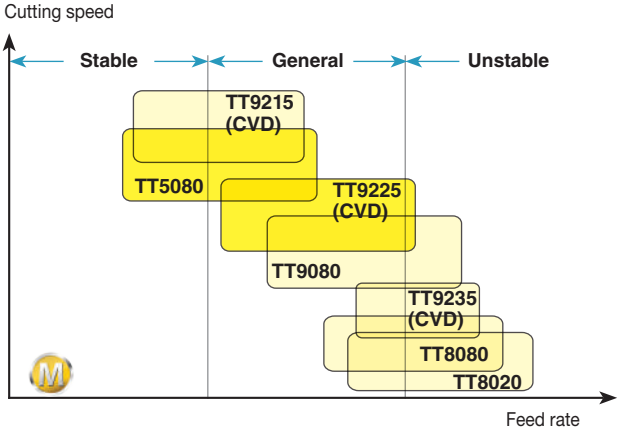
Grades

Selection guide for turning grades

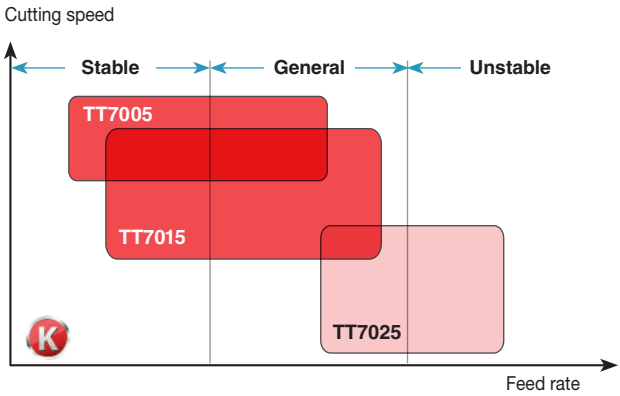
For steel (SPEEDRUSH - CVD coated)



For stainless steel (CVD & PVD coated)



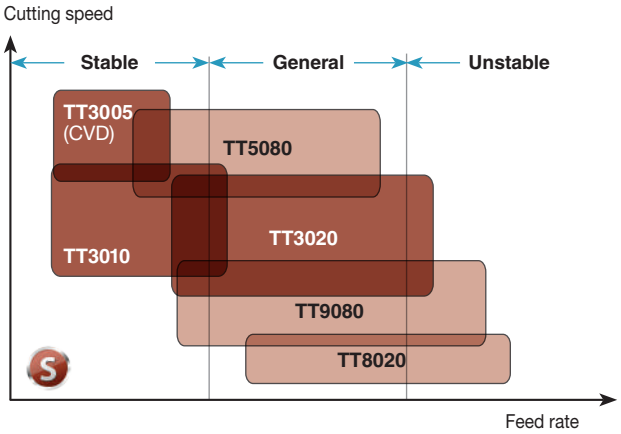
For cast iron (CVD coated)



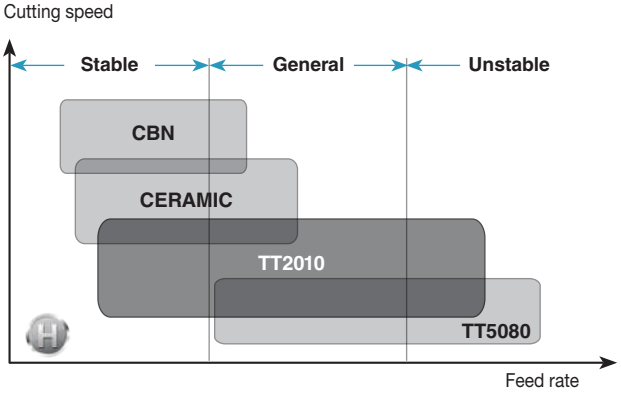
Grades

Selection guide for turning grades

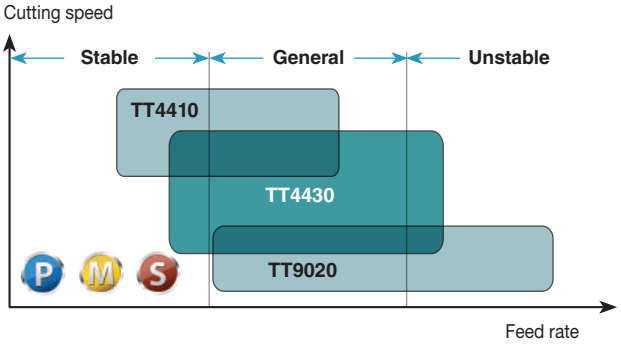
For super alloys (CVD & PVD coated)



For hardened steel (HRc 40-60)



For small parts machining (PVD coated)



Grades

Carbide grades

Grades	ISO	Characteristics & applications
TT7005 CVD coated	K05 – K15	• High speed turning of gray cast iron in continuous conditions
TT7015 CVD coated	K10 – K25	• General turning of gray and ductile cast iron in continuous and interrupted conditions
TT7025 CVD coated	K20 – K35	• Interrupted turning of gray and ductile cast iron especially good in ductile cast iron
TT8105B CVD coated	P05 – P15	• High speed turning of steel in continuous conditions
TT8115B CVD coated	P05 – P20	• General turning of steel in high speed conditions
TT3005 CVD coated	S05 – S15	• Finish turning of heat resistant super alloys in high speed and low depth of conditions
TT9215 CVD coated	M05 – M20 S05 – S20	• High speed turning of stainless steel and heat resistant super alloys in continuous conditions
TT4410 PVD coated	M05 – M25 P05 – P25 S05 – S25	• High speed turning of small parts for stainless steel, steel and titanium alloys in continuous conditions
TT3010 PVD coated	S05 – S20	• High speed turning of heat resistant super alloys in continuous conditions
TT5080 PVD coated	M05 – M25 S05 – S25	• Wide range of turning for stainless steel and heat resistant super alloy
TT3020 PVD coated	S10 – S30	• General turning of heat resistant super alloy
TT8125B CVD coated	P15 – P30	• General turning of steel in wide range of conditions
TT5100 CVD coated	P20 – P35 M20 – M35	• Wide range of turning for mild steel, low carbon steel, low carbon alloy steel and stainless steel
TT9225 CVD coated	M15 – M30 S15 – S30	• General turning of stainless steel and heat resistant super alloy
TT9020 PVD coated	P20 – P40 M20 – M40	• General turning of small parts for steel and stainless steel

Grades

Carbide grades

Grades	ISO	Characteristics & applications
TT4430 PVD coated	M20 – M40 P20 – P40 S20 – S40	• General turning of small parts for stainless steel, steel and titanum alloy
TT9080 PVD coated	M20 – M40 P20 – P40 S20 – S40	• General turning of stainless steel, steel and heat resistant super alloy
TT8135B CVD coated	P25 – P40	• Interrupted turning of steel in low speed conditions
TT7100 CVD coated	P30 – P45	• Heavy intrrupted turning of steel
TT9235 CVD coated	M25 – M40 S25 – S40	• Interrupted turning of stainless steel and heat resistant super alloy in low speed conditions
TT8080 PVD coated	M30 – M50 P30 – P50 S30 – S50	• Interrupted and rough turning of stainless steel and steel • Interrupted turning of heat resistant super alloys in low speed conditions
TT8020 PVD coated	M30 – M50 P30 – P50 S30 – S50	• Low speed turning of stainless steel, heat reisitant super alloys and low carbon steel
PV3010 Cermet PVD coated	P05 – P20 M05 – M20 K05 – K20	• Good surface finish turning of steel, stainless steel and cast iron in high speed conditions
CT3000 Cermet uncoated	P10 – P20 M10 – M20 K10 – K20	• Excellent surface finish turning of steel, stainless steel and cast iron
K10 Carbide	K05 – K15 N05 – N15 S05 – S15	• General turning of cast iron, non-ferrous materials of aluminum and titanum alloy
TT2010 PVD coated	H05 – H10	• Extremely high wear and deformation resistance, Turning for high hardened steel with HRc hardness between 40 and 62, Alternative to ceramic and CBN and chip control

Grades

CBN, PCD, Ceramic grades

Grades	ISO	Characteristics & applications
TB610 CBN	H05 – H10	• High speed continuous turning of hardened steel
TB2015 CBN	H10 – H20	• Light interrupted turning of hardened steel
TB650 CBN	H10 – H20	• General turning of hardened steel
TB670 CBN	H20 – H30	• Medium interrupted turning of hardened steel
TB7015 CBN	H25 – H35 K10 – K20	• High speed turning of cast iron and general turning of carbide roll
TB7020 Solid CBN	K10 – K25	• High speed and light interrupted turning of cast iron. Solid CBN insert
TB730 CBN	K05 – K10 P10 – P20	• General turning of sintered or powder metals
AW120 Ceramic, Al_2O_3+Z_rO_2	K05 – K15	• High speed continuous turning of white cast iron
AB2010 Ceramic, PVD coated	H05 – H10	• High speed finish turning of hardened steel
AB20 Ceramic, Al_2O_3	H05 – H15	• Continuous and finish turning of hardened steel
AB30 Ceramic, Al_2O_3	H10 – H15 K05 – K15	• General turning of hardened steel under HRC 55 and cast iron
TC430 Ceramic, Whisker	S05 – S15	• High speed turning of super alloys especially for Ni-based super alloy
TC3020 Ceramic, SiAlON	S15 – S25	• General turning and milling of super alloy
TC3030 Ceramic, SiAlON	S25 – S35	• Rough turning and milling of super alloy
AS500 Ceramic, SiAlON	K15 – K25	• General and light interrupted turning of gray cast iron
SC10 Ceramic, CVD coated	K25 – K35	• General turning of ductile cast iron
AS10 Ceramic, Si_3N_4	K25 – K35	• Interrupted turning of gray cast iron
TD1010 PCD	N05 – N15	• Bi-modal composition for high speed turning of non-ferrous materials, high Si aluminum alloy, ceramic and sintered tungsten carbide
TD1020 PCD	N10 – N25	• General turning of non-ferrous materials and finish turning of carbide roll
TD1030 PCD	N20 – N35	• Low Si aluminum alloys and composite plastics (CFRP, GFRP)

Recommendations for Chip Breakers

T-TURN

ISO Negative inserts

For steel

	Stable — P — Unstable
Finishing	WS, FLP, FG, FC
Medium	MLP, PC, MGP, MT
Roughing	RGP, RT

For stainless steel

	Stable — M — Unstable
Finishing	EA
Medium	GG-ML, ML, EM, MP
Roughing	ET

For super alloys

	Stable — S — Unstable
Finishing	EA
Medium	GG-ML, ML, MGS, MP
Roughing	ET

For cast iron

	Stable — K — Unstable
Finishing	
Medium	MT, No Notation
Roughing	KT, No Notation

For aluminum

	Stable — N — Unstable
Finishing	
Medium	GG-ML, ML
Roughing	

Recommendations for Chip Breakers

T-TURN

ISO Positive inserts

For steel

	Stable — P — Unstable
Finishing	FA, FG
Medium	FM, PC, MT
Roughing	

For stainless steel

	Stable — M — Unstable
Finishing	FA, FG
Medium	PC
Roughing	

For super alloys

	Stable — S — Unstable
Finishing	FG
Medium	PC
Roughing	

For cast iron

	Stable — K — Unstable
Finishing	
Medium	MT
Roughing	

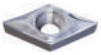
For aluminum

	Stable — N — Unstable
Finishing	
Medium	GT-FL
Roughing	

Recommendations for Chip Breakers

Chip breakers for Swiss turn (Ground type)

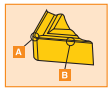
ISO Positive inserts

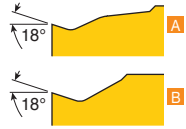
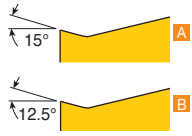
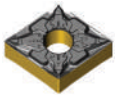
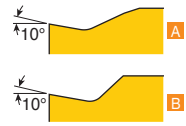
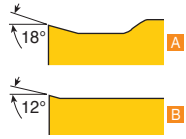
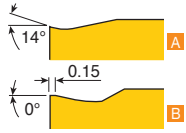
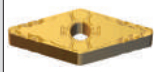
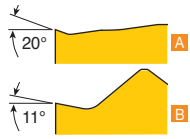
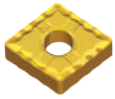
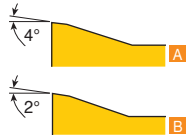
	Stable ← P M S → Unstable
Finishing	 SL
Finishing-Medium	 SA  SM
Roughing	 SH  ST

Chip Breakers

T-TURN

Negative inserts

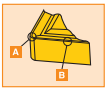


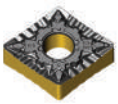
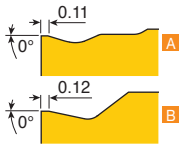
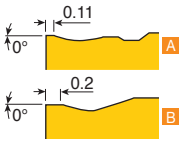
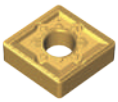
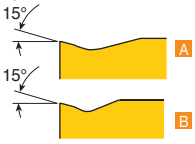
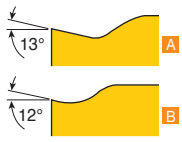
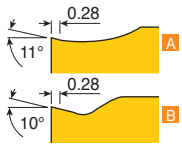
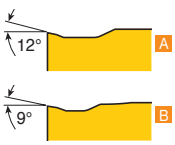
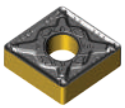
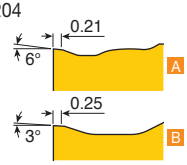
Chip breaker name and geometry			Applications and features
FA		CNMG 1204 	• For super finish applications • Steel, stainless steel and heat resistant alloy machining • Excellent chip control
EA		CNMG 1204 	• For finishing applications • Exotic materials • Excellent chip control at low feeds and depths of cut
FLP		CNMG 1204 	• For finishing applications for steel machining • Wide supporting area
FG		CNMG 1204 	• For finish and semi finish applications • Steel, stainless steel and cast iron machining • Low cutting forces
SF		CNMG 1204 	• For finishing applications • Stainless steel and heat resistant alloy machining • Low cutting forces
FX		VNMG 1604 	• For finishing applications on mild steels • Narrow chip breaker design for optimal chip control
FC		CNMG 1204 	• Ideal for finishing applications • Low carbon steel & low carbon alloy steel • Effective chip breaking in both turning and facing operations

Chip Breakers

T-TURN

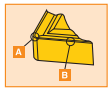
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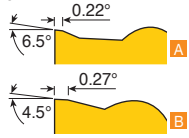
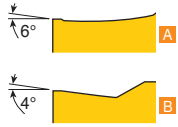
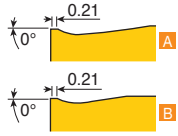
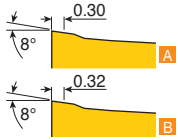
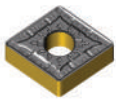
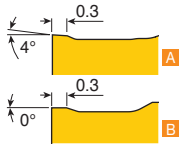
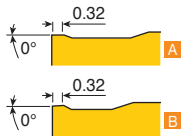
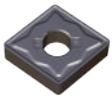
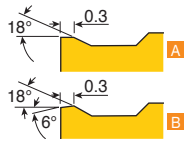


Chip breaker name and geometry			Applications and features
MLP		CNMG 1204  	• For semi-finishing and medium applications on steels • Wave cutting edge
MC		CNMG 1204  	• For medium applications • Steel and cast iron machining • Strong rake geometry • Excellent chip control on medium turning applications
MGS		CNMG 1204  	• Low cutting resistance and heat generation in high-temperature alloy machining • High rake angle for smooth chip formation
ML		CNMG 1204  	• For medium light applications • Stainless steel, steel and aluminum • Very high positive rake geometry to minimize built-up-edge and cutting forces
MP		CNMG 1204  	• For medium machining applications • Steel and stainless steel • High positive rake geometry to optimize machining and provide stable machining conditions
EM		CNMG 1204  	• For medium applications • Stainless steel machining • Sharp land design for low cutting force
MGP		CNMG 1204  	• Wide range for medium application on steels • Wide groove and several dimples

Chip Breakers

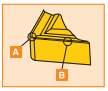
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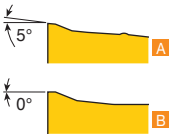
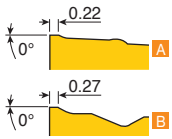
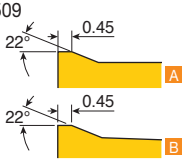
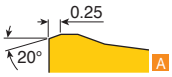
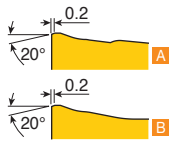
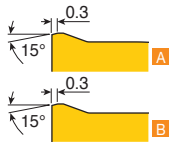
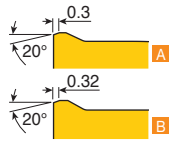


Chip breaker name and geometry			Applications and features
PC		CNMG 1204 	• For medium to semi-finishing applications • Steel & Automotive component • Positive geometry • Excellent chip control on medium applications
MT		CNMG 1204 	• For medium rough applications • Steel, cast iron and stainless steel • Tough rake angle for general use
No Notation		CNMG 1204 	• For medium rough applications • Steel and cast iron machining • Strong rake geometry • Suitable for manual lathes
ET		CNMG 1204 	• For roughing applications on exotic materials • Low cutting force • Wide chip control range when roughing
RGP		CNMG 1204 	• For roughing applications on steels • Reliable cutting edge with low cutting force
RT		CNMG 1906 	• For roughing applications • Steel and cast iron machining • Very strong rake geometry
KT		CNMG 1204 	• For roughing applications on cast iron • Stable broad supporting area • Reliable, uniform performance

Chip Breakers

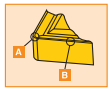
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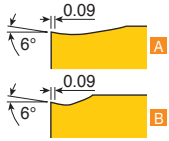
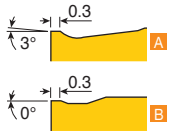


Chip breaker name and geometry			Applications and features
RX		CNMM 1906 	• For semi heavy roughing applications • Steel, stainless steel and cast iron machining • Strong cutting edge with flat land • Low cutting force
RH		CNMM 1906 	• For roughing applications • Steel, stainless steel and cast iron machining • Very strong rake geometry
EH		CNMM 2509 	• Heavy turning for stainless and mild steel • Low cutting force in stainless steel machining • Reliable & uniform performance • Excellent chip control due to the specially designed chip breaker geometry • Single sided insert
HT		CNMM 1906 	• For heavy roughing applications • Low cutting force for low horse power machines • Excellent chip control due to changeable land and a flexible chip breaker
HD		CNMD 2509 	• For heavy roughing applications • For all kinds of shafts, connecting-rods and ship building components • Flexible chip breaker offers excellent chip evacuation
HY		CNMM 2509 	• For heavy roughing applications • For large depth of cut and high feed • Strong cutting edge credit to a wide land and large land angle
HZ		CNMM 2509 	• For heavy roughing applications • For large depth of cut and high feed • Extremely strong cutting edge credit to a wide land and large land angle • Suitable for high cutting conditions

Chip Breakers

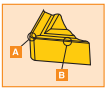
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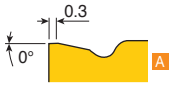
Chip breaker name and geometry			Applications and features
WS		CNMG 1204 	• For super finish applications • Steel, cast iron and stainless steel machining • Excellent chip control and low cutting forces
WT		CNMG 1204 	• For medium to rough machining applications • Steel, cast iron and stainless steel machining • Stable cutting and low cutting forces at high feed rates

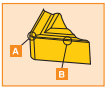
Chip Breakers

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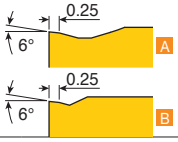
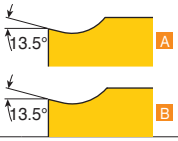


KNUX type

	Chip breaker name and geometry		Applications and features
11		KNUX 1604 	• For medium light to medium applications • Steel and stainless steel machining • Positive rake geometry to minimize cutting forces • Excellent chip control
12		KNUX 1604 	• For medium to medium rough applications • Steel and stainless steel • Strong rake geomerty • Wide chip control range



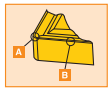
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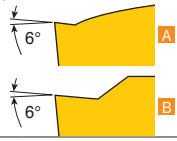
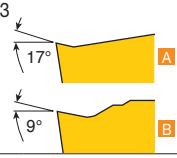
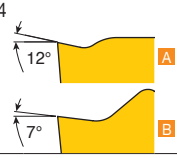
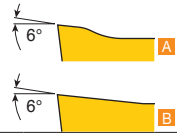
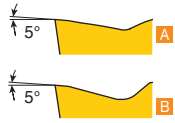
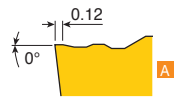
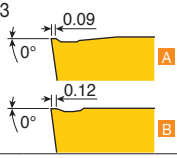
	Chip breaker name and geometry		Applications and features
GU		HNMG 0504 	• For medium applications • For general turning of steels and cast irons • Strong rake geometry
SU		HNMG 0504 	• For exotic materials • Stainless steels, super alloys, low carbon steels, low carbon alloy steel machining • Sharp geometry to minimize built-up edge

Chip Breakers

T-TURN

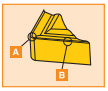
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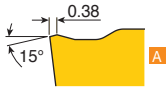
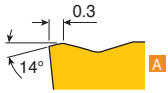


	Chip breaker name and geometry		Applications and features
FA		DCMT 11T3 	• For super finish applications • Very tight chipbreaker • Excellent chip control
FG		CCMT 09T3 	• For finish to medium light applications • Steel and stainless steel machining • Low cutting forces • Excellent chip control
FX		VBMT 1604 	• For finishing applications on mild steels • Narrow chip breaker design for optimal chip control
PC		CCMT 09T3 	• For medium applications • Suitable for a wide variety of meterials • Low cutting force
FM		CCMT 09T3 	• Medium and semi-finishing machining for steel and stainless steel • Precision machining • Low cutting force chip breaker geometry
MT		CCMT 09T3 	• For medium to medium rough applications • Steel, stainless steel and cast iron machining • Negative rake geometry for general use
WT	wiper 	CCMT 09T3 	• For medium to rough machining applications • Steel, cast iron and stainless steel machining • Stable cutting and low cutting forces at high feed rates
PMR-		TPMR 1103 	• For medium to medium rough applications • Steel, stainless steel and cast iron • Positive rake geometry

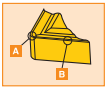
Chip Breakers

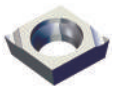
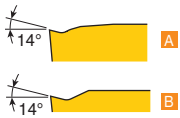
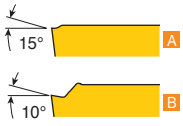
Positive inserts-pressed



	Chip breaker name and geometry		Applications and features
RA		RCMX 3209 	• For heavy and interrupted machining applications • Steel, stainless steel and cast iron machining • Optimized chip groove geometry
No Notation		RCMX 1204 	• For high feed roughing applications • Steel, stainless steel and cast iron machining • Strong rake geometry

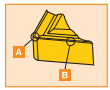
Positive inserts-ground

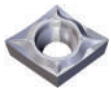
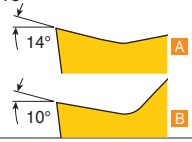
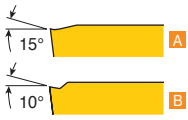
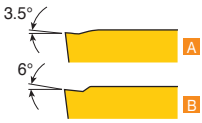
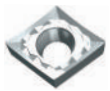
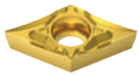


	Chip breaker name and geometry		Applications and features
FF		CCGT 0301 	• For finish to medium applications • For small component machining • Excellent surface finish
GF		CCET 0602 	• For super finish applications • Steel, stainless steel and alloy steel machining
GW		CCET 0602 	• For super finish applications • Wiper geometry for good surface finish • Steel, stainless steel and alloy steel machining
FGS		VBGT 1604 	• Lower cutting resistance and heat generation in heat resistant super alloys machining • High rake angle for smooth chip formation
SL		CCGT 09T3 	• High performance in low depth of cut and low feed machining • Excellent chip segmentation due to wave geometry edge and special inclined design

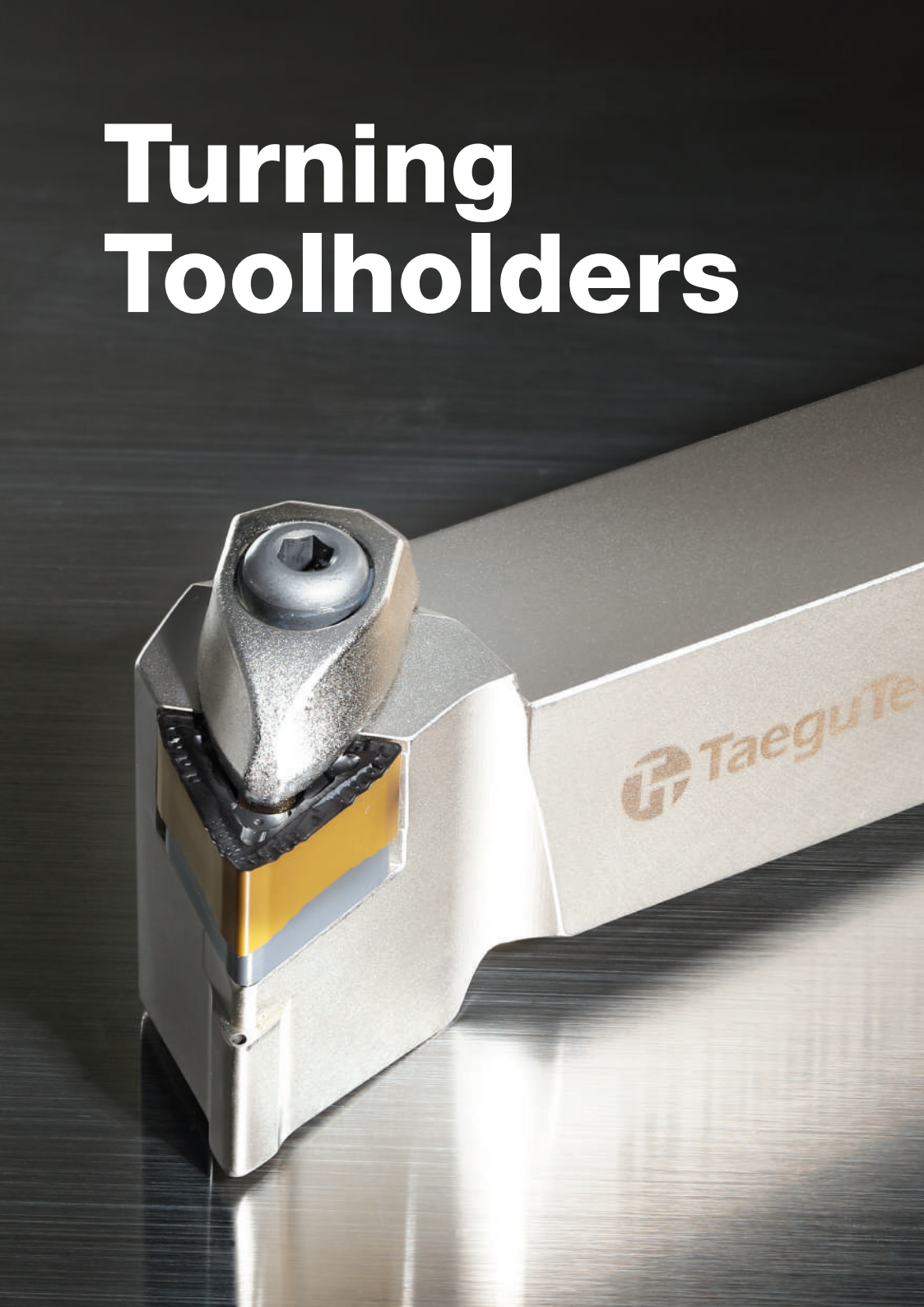
Chip Breakers

Positive inserts-ground



Chip breaker name and geometry			Applications and features
SA		CCGT 09T3 	• For finish to medium applications • Steel & aluminum machining • Low cutting force
SM		CCGT 09T3 	• 1st recommended chip breaker for Swiss type automatic lathe • Stable cutting edge and low cutting resistance
SH		CCGT 09T3 	• Suitable for deep depth of cut machining • Excellent chip control in a wide machining range
FL		CCGT 1204 	• For finish to medium applications • Aluminum machining • Very high positive rake geomerty to minimize built-up-edge
ST		DCGT 11T3 	• Capable of deep depth of cut machining up to 5 mm • Low cutting force due to the high positive rake geometry • Stable chip evacuation

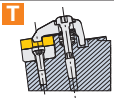
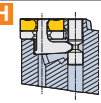
Turning Toolholders



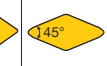
Toolholder Designation System

P	C	L	N	R
1	2	3	4	5

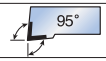
1 Clamping system

P	C	S	M	T	W	H
						
Lever lock	Top clamp	Screw clamp	Multi lock	T-holder	Wedge clamp	Hook lever

2 Insert shape

C	D	E	H	K	R	S	T	V	W	X	Z
											

3 Approach angle

Symbol	Shape	Offset	Symbol	Shape	Offset	Symbol	Shape	Offset
A		×	J		○	V		×
			K		○	W		○
B		×	L		○	X	Special angle	
			M		×	C*		×
D		×	N		×	H*		○
E		×	R		○	Q*		○
F		○	S		○			
G		○	T		○			
			U		○			

* TaeguTec standard

5 Hand of tool

R: Right-hand

N: Neutral

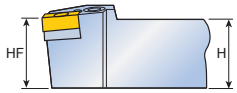
L: Left-hand

4 Insert clearance angle

N	B	C	P
0°	5°	7°	11°

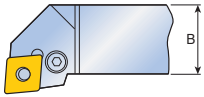
25	25	M	12	-		
6	7	8	9		10	11

6 Shank height



Integers to be preceded by 0
e.g.: H=8mm indicated by 08

7 Shank width



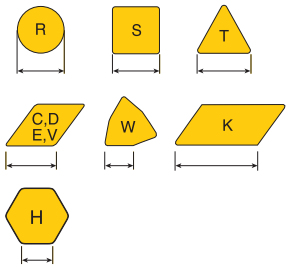
Integers to be preceded by 0
e.g.: B=8mm indicated by 08

8 Tool length



LF (mm)	Symbol	LF (mm)	Symbol
32	A	160	N
40	B	170	P
50	C	180	Q
60	D	200	R
70	E	250	S
80	F	300	T
90	G	350	U
100	H	400	V
110	J	450	W
125	K	500	Y
140	L	Special	X
150	M		

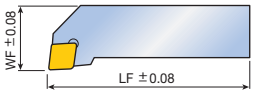
9 Cutting edge length



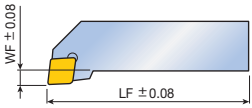
See page A227

10 Qualified tool

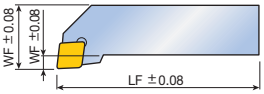
Q



F



B



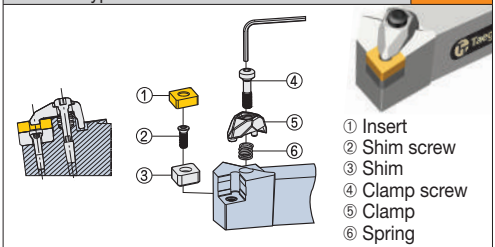
11 Manufacturer's type designation

Unique to manufacturer

Toolholder Clamping System

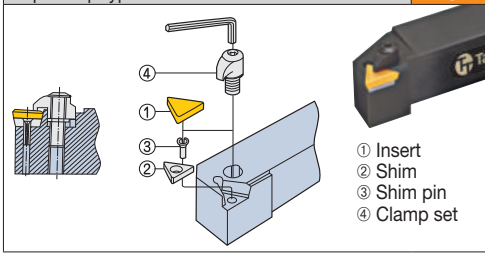
T-TURN

T-holder type — T



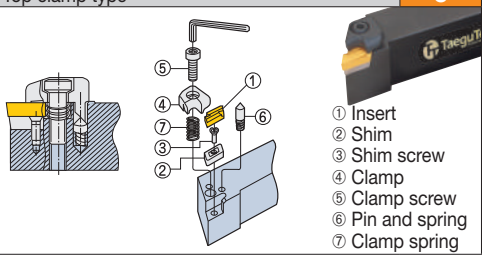
① Insert
② Shim screw
③ Shim
④ Clamp screw
⑤ Clamp
⑥ Spring

Top clamp type — C



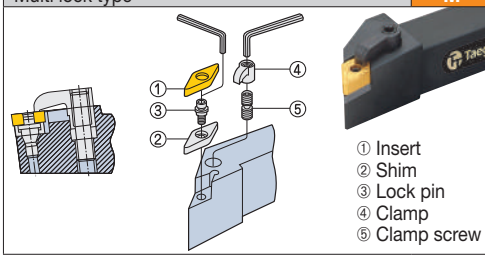
① Insert
② Shim
③ Shim pin
④ Clamp set

Top clamp type — C



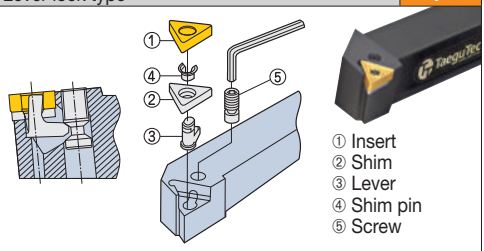
① Insert
② Shim
③ Shim screw
④ Clamp
⑤ Clamp screw
⑥ Pin and spring
⑦ Clamp spring

Multi lock type — M



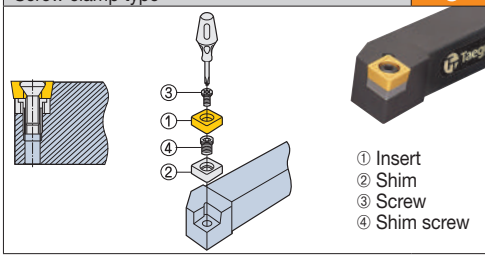
① Insert
② Shim
③ Lock pin
④ Clamp
⑤ Clamp screw

Lever lock type — P



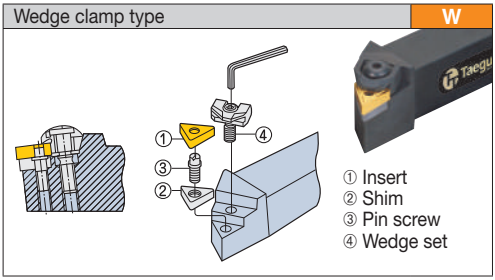
① Insert
② Shim
③ Lever
④ Shim pin
⑤ Screw

Screw clamp type — S



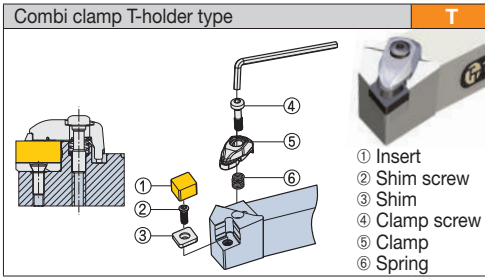
① Insert
② Shim
③ Screw
④ Shim screw

Wedge clamp type — W



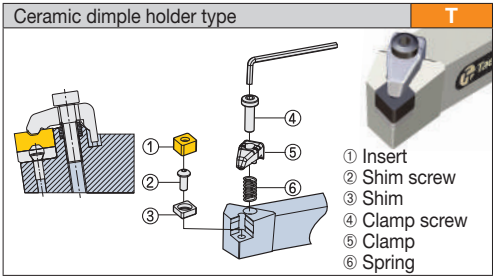
① Insert
② Shim
③ Pin screw
④ Wedge set

Combi clamp T-holder type — T



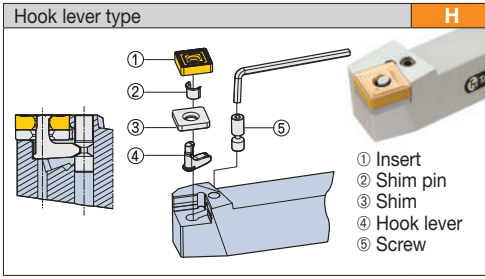
① Insert
② Shim screw
③ Shim
④ Clamp screw
⑤ Clamp
⑥ Spring

Ceramic dimple holder type — T



① Insert
② Shim screw
③ Shim
④ Clamp screw
⑤ Clamp
⑥ Spring

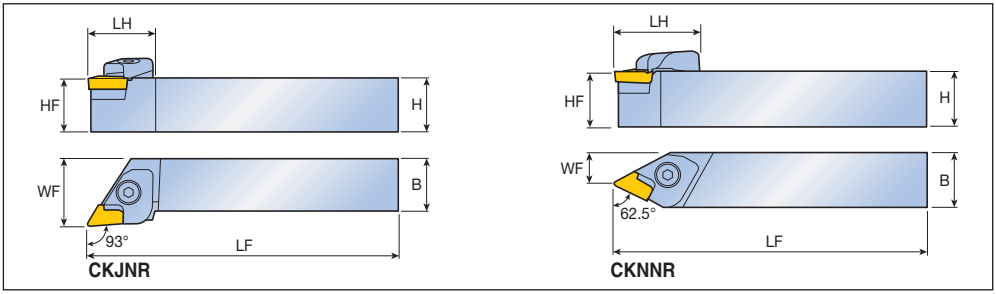
Hook lever type — H



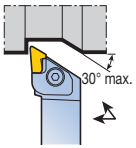
① Insert
② Shim pin
③ Shim
④ Hook lever
⑤ Screw

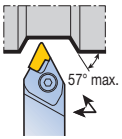
CKJNR/L CKNNR/L

Top clamp type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**CKJNR/L**	**2020 K16**	20	20	20	125	35	25	KNUX 1604...R/L 11 KNUX 1604...R/L 12 A241
		2020 M16	20	20	20	150	35	25	
		2525 M16	25	25	25	150	32	32	
		3225 P16	32	32	25	170	33.3	32	
		3232 M16	32	32	32	150	33.3	40	
		3232 P16	32	32	32	170	33.3	40	
		4040 R16	40	40	40	200	33.3	50	
62.5°	**CKNNR/L**	**2525 M16**	25	25	25	150	44.7	14.4	
		3225 M16	32	32	25	150	44.7	14.4	



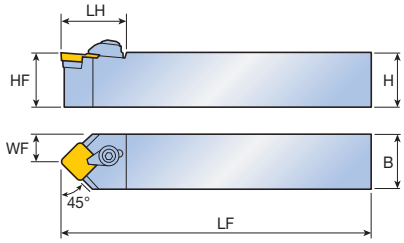


Spare parts

Designation	Clamp	Screw	Clamp spring	Pin	Pin spring	Shim	Shim screw	Wrench
								
...16	CL 16KR/L	CLS 16K	KSP 90	KP 48S	KSP 48	CSK 1604R/L	FH M3×0.5×10	L-W 4 L-W 2

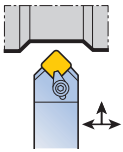
CSDPN

Top clamp type holders



CSDPN

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
45°	CSDPN 1616 H09	16	16	16	100	24	8.0	SPMR,SP...N 0903...
	2020 K12	20	20	20	125	29	10	SPMR,SP...N 1203...
	2525 M12	25	25	25	150	29	12.5	



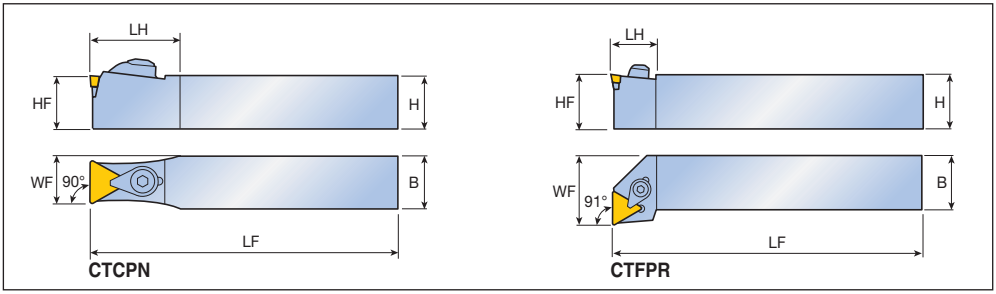
A275, A304

Spare parts

Designation	Clamp	Screw	Shim	Shim pin	Snap ring	Wrench		
...09	CL 2	CLS 2	CSS 32	CSP 3	CSR 2	L-W 2.5		
...12	CL 3	CLS 3	CSS 42	CSP 3	WSR 4	L-W 3		

CTCPN CTFPR/L

Top clamp type holders



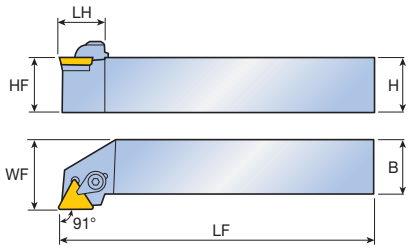
Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
90°	**CTCPN**	**2009 K11**	20	20	9	125	20	9.4	TPMR,TP...N 1103...	A281-A282, A304, A315-A316
		2513 Q16	25	25	13	180	30	14.1	TPMR,TP...N 1603...	
		2525 M22	25	25	25	150	50	19.4	TPMR,TP...N 2204...	
91°	**CTFPR/L**	**1616 H11**	16	16	16	100	14.4	20	TPMR,TP...N 1103...	
		2020 K11	20	20	20	125	16	25		
		2020 K16	20	20	20	125	20	25	TPMR,TP...N 1603...	
		2525 M16	25	25	25	150	20	32		

Spare parts

Designation	Clamp			Screw		Shim	Shim pin	Snap ring	Wrench
CTCPN...11	CL 2C	-	-	CLS 2C	-	-	-	CSR 2C	L-W 2.5
CTCPN...16	CL 3C	-	-	CLS 3C	-	CST 32	CSP 3	CSR 2	L-W 3
CTCPN...22	-	CLM 12	-	-	XNSM 0825	CST 43	CSP 16K	CSR 4	L-W 4
CTFPR/L...11	-	-	CL 2	CLS 2	-	-	-	CSR 2	L-W 2.5
CTFPR/L...16	-	-	CL 3	CLS 3	-	CST 32	CSP 3	WSR 4	L-W 3

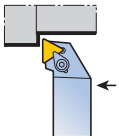
CTGPR/L

Top clamp type holders



CTGPR

Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
91°	CTGPR/L	1212 F11	12	12	12	80	19	16	TPMR,TP...N 1103...	A281-A282, A304, A315-A316
		1616 H11	16	16	16	100	18	20		
		2020 K11	20	20	20	125	19	25		
		2020 K16	20	20	20	125	25	25	TPMR,TP...N 1603...	
		2525 M16	25	25	25	150	25	32		
		2525 M22	25	25	25	150	30	32	TPMR,TP...N 2204...	
		3232 P22	32	32	32	170	30	40		

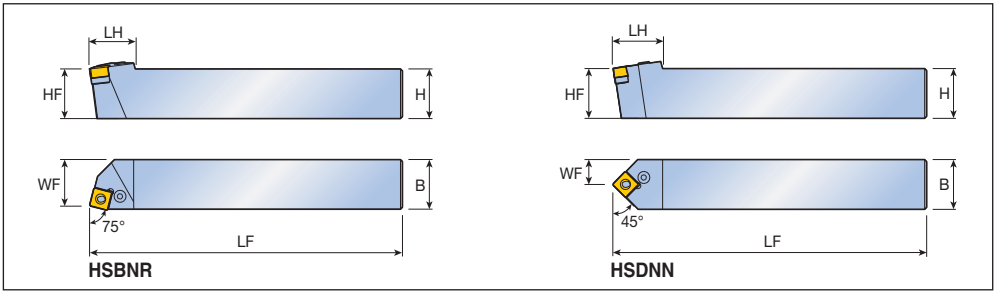


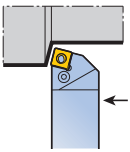
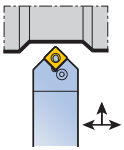
Spare parts

Designation	Clamp	Screw	Shim	Shim pin	Snap ring	Wrench		
								
...11	CL 2	CLS 2	-	-	CSR 2	L-W 2.5		
...16	CL 3	CLS 3	CST 32	CSP 3	WSR 4	L-W 3		
...22	CL 4	CLS 4	CST 43	CSP 16K	CSR 4	L-W 4		

HSBNR/L HSDNN

Hook lever type holders



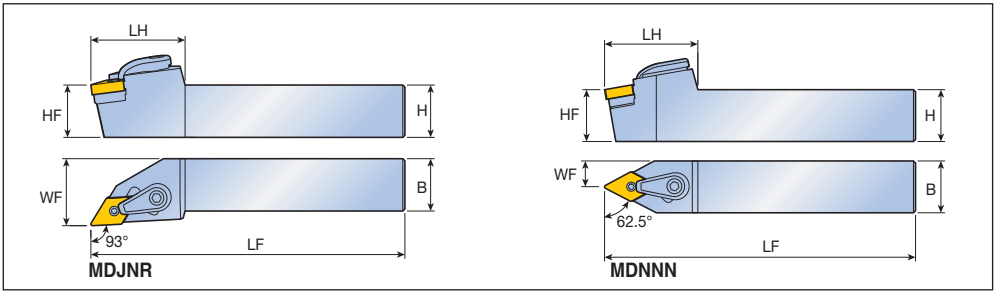
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
75°	**HSBNR/L**	**4040 S3109**	40	40	40	250	55	35	SNMD 3109... A243, A244
		**5050 T3109**	50	50	50	300	55	43	
45°	**HSDNN**	**4040 S3109**	40	40	40	250	60	20	SNMD 3109...
		**5050 T3109**	50	50	50	300	60	25	

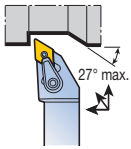
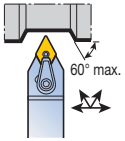
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench		
							
...3109	LCL 32-NX	LCS 8	LSS 104	LSP 8	L-W 5		

MDJNR/L MDNNN

Multi lock type holders



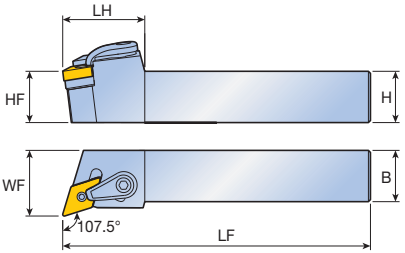
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**MDJNR/L**	**2020 K15**	20	20	20	125	45	25	DN... 1504...
		**2525 M15**	25	25	25	150	45	32	A236-A240, A295, A306
		2020 K15A	20	20	20	125	45	25	DN... 1506...
		2525 M15A	25	25	25	150	45	32	
		3232 P15A	32	32	32	170	45	40	
62.5°	**MDNNN**	**2525 M15**	25	25	25	150	45	12.5	DN... 1504...
		**3225 P15**	32	32	25	170	45	12.5	
		2525 M15A	25	25	25	150	45	12.5	DN... 1506...

Spare parts

Designation	Clamp	Screw	Shim	Lock pin	Wrench			
								
...15	CLM 30	XNSM 0825	S 45	MLP 4	L-W 2.5, L-W 4			
...15A	CLM 30	XNSM 0825	MSD 43	MLP 4-06	L-W 2.5, L-W 4			

MDQNR/L

Multi lock type holders



MDQNR

Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
107.5°	**MDQNR/L**	**2020 K15**	20	20	20	125	40	25	DN... 1504... A236-A240, A295, A306
		2525 M15	25	25	25	150	40	32	
		2525 M15A	25	25	25	150	40	32	DN... 1506...

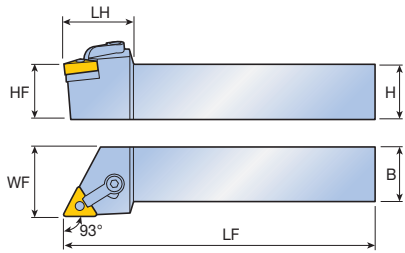
Spare parts

Designation	Clamp	Screw	Shim	Lock pin	Wrench			
...15	CLM 30	XNSM 0825	S 45	MLP 4	L-W 2.5, L-W 4			
...15A	CLM 30	XNSM 0825	MSD 43	MLP 4-06	L-W 2.5, L-W 4			

MTJNR/L

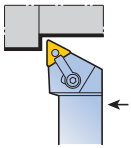
T-TURN

Multi lock type holders



MTJNR

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
93°	MTJNR/L **2020 K16**	20	20	20	125	28	25	TN... 1603... A249-A252, A301, A309
	2525 M16	25	25	25	150	28	32	
	2525 M1604	25	25	25	150	28	32	TN... 1604... A249-A252, A301, A309



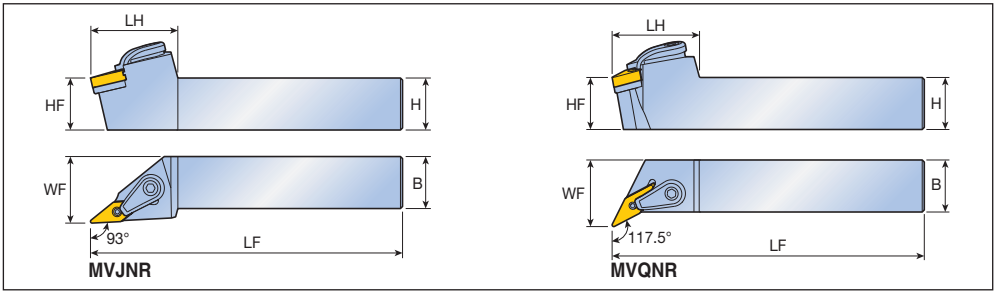
Spare parts

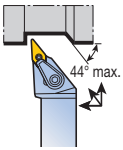
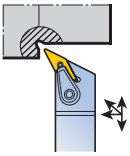
Designation	Clamp	Screw	Shim	Lock pin	Wrench			
								
...16	CLM 6	XNSM 0520	S 3	MLP 3	L-W 2, L-W 2.5			
...1604	CLM 6	XNSM 0520	S 31	MLP 3	L-W 2, L-W 2.5			

MVJNR/L MVQNR/L

T-TURN

Multi lock type holders



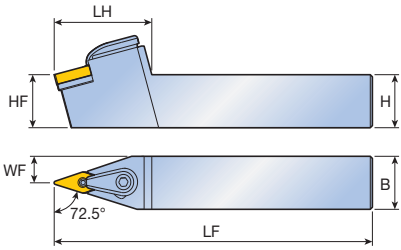
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**MVJNR/L**	**2020 K16**	20	20	20	125	42	25	VN... 1604... A253-A254, A302, A310
		**2525 M16**	25	25	25	150	42	32	
		3225 P16	32	32	25	170	42	32	
		3232 P16	32	32	32	170	42	40	
117.5°	**MVQNR/L**	**2020 K16**	20	20	20	125	42	25	
		**2525 M16**	25	25	25	150	42	32	
		3232 P16	32	32	32	170	42	40	

Spare parts

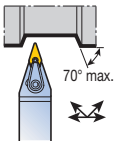
Designation	Clamp	Screw	Shim	Lock pin	Wrench			
								
...16	CLM 30	XNSM 0825	IVSN 324	MLP 3	L-W 2, L-W 4			

MVVNN

Multi lock type holders



MVVNN

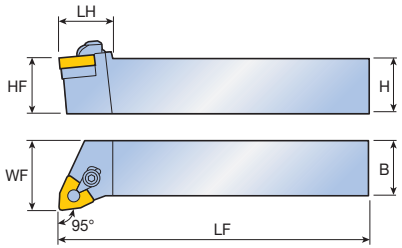
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
72.5°	**MVVNN 2020 K16**	20	20	20	125	46	10.0	VN... 1604... A253-A254, A302, A310
	**2525 M16**	25	25	25	150	46	12.5	

Spare parts

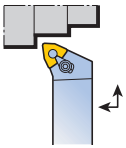
Designation	Clamp	Screw	Shim	Lock pin	Wrench			
								
...16	CLM 30	XNSM 0825	IVSN 324	MLP 3	L-W 2, L-W 4			

MWLNR/L

Multi lock type holders



MWLNR

Approach angle	Designation	Dimension (mm)							Insert	
		H	HF	B	LF	LH	WF			
95°	**MWLNR/L 1616 H06**	16	16	16	100	19.4	16		WN... 0604...	A255-A257, A302-A311
	**2020 K08**	20	20	20	125	25	25		WN... 0804...	
	2525 M08	25	25	25	150	25	32			

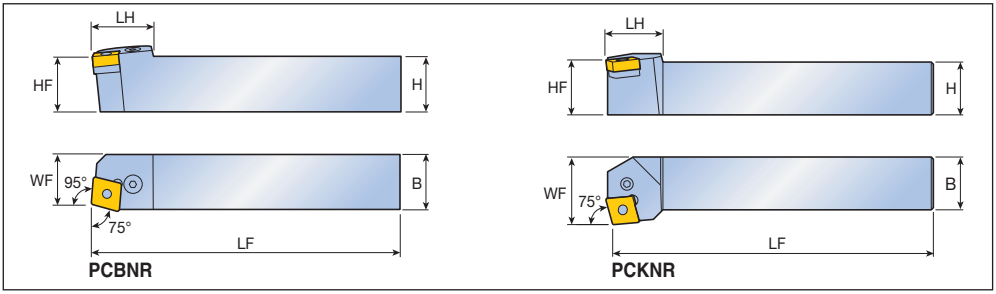
Spare parts

Designation	Clamp	Screw	Shim	Lock pin	Snap ring	Wrench		
								
...06	CL 2	CLS 2	MSW 32	MLP 3	CSR 2	L-W 2, L-W 2.5		
...08	CL 2	CLS 2	MSW 43	MLP 4	CSR 2	L-W 2.5		

PCBNR/L PCKNR/L

T-TURN

Lever lock type holders



Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
75°	PCBNR/L	2020 K12	20	20	20	125	28	17.5	CN... 1204...	A228-A235, A293, A294, A305
		2525 M12	25	25	25	150	28	22.5		
		3225 P12	32	32	25	170	28	22.5		
		2525 M16	25	25	25	150	32	22	CN... 1606...	
		3232 P16	32	32	32	170	32	27		
		3232 P1906D	32	32	32	170	37	27	CN... 1906...	
		4040 S1906D	40	40	40	250	37	37		
		4040 S2509D	40	40	40	250	50	37	CN... 2509...	
		5050 T2509D	50	50	50	300	50	47		
75°	PCKNR/L	2020 K12	20	20	20	125	27	25	CN... 1204...	
		2525 M12	25	25	25	150	24	32		

▸ CNMD, CNMM, CNMG type insert can be mounted on "-D" holder

Spare parts

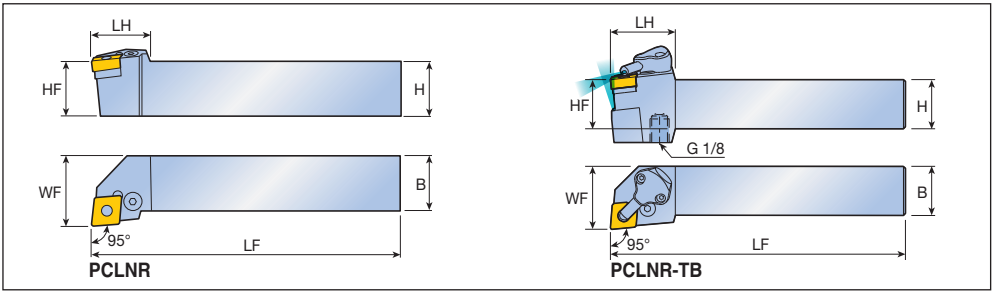
Designation	Lever	Screw	Shim	Shim pin	Wrench			
...12	LCL 4	LCS 4	LSC 42	LSP 4	L-W 3			
...16	LCL 5	LCS 5	LSC 53	LSP 5	L-W 3			
...1906	LCL 6D	LCS 25C	LSC 64D	LSP 6	L-W 4			
...2509	LCL 8	LCS 8	LSC 84D	LSP 8	L-W 5			

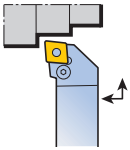
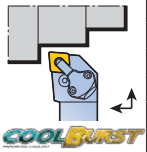
▸ Apply LSC 85D shim when using CN...2507... insert

PCLNR/L PCLNR/L-TB

T-TURN

Lever lock type holders



Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
95°	PCLNR/L	1616 H12	16	16	16	100	27	20	CN... 1204...	A228-A235, A293, A294, A305
		2020 K12	20	20	20	125	27	25		
		2525 M12	25	25	25	150	27	32		
		3225 P12	32	32	25	170	27	32		
		3232 P12	32	32	32	170	27	40		
		2525 M16	25	25	25	150	33	32	CN... 1606...	
		3225 P16	32	32	25	170	33	32		
		3232 P16	32	32	32	170	33	40		
		2525 M1906D	25	25	25	150	38	32	CN... 1906...	
		3225 P1906D	32	32	25	170	38	32		
		3232 P1906D	32	32	32	170	38	40		
		4040 S1906D	40	40	40	250	38	50		
		4040 S2509D	40	40	40	250	47	50	CN... 2509...	
		5050 T2509D	50	50	50	300	47	60		
95°	PCLNR/L	2525 M12-TB	25	25	25	150	33	32	CN... 1204...	
		3232 P12-TB	32	32	32	170	33	40		
COOL BURST										

▸ CNMD, CNMM, CNMG type insert can be mounted on "-D" holder

Spare parts

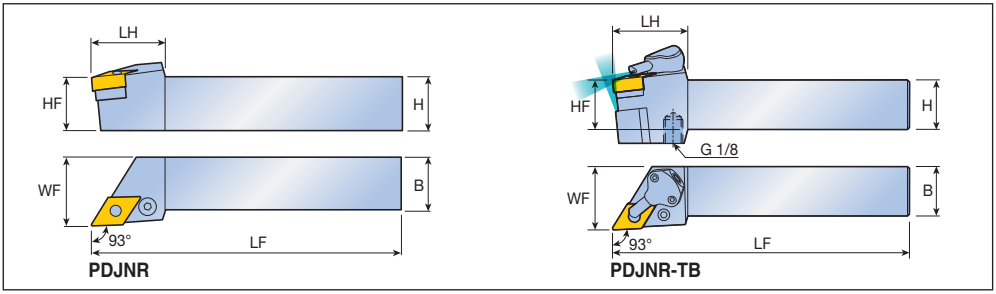
Designation	Lever	Screw	Shim	Shim pin	Cooling unit	O-ring	Wrench	
								
1616...12	LCL 4	LCS 4S	LSC 42	LSP 4	-	-	-	L-W 3
...12	LCL 4	LCS 4	LSC 42	LSP 4	-	-	-	L-W 3
...16	LCL 5	LCS 5	LSC 53	LSP 5	-	-	-	L-W 3
...1906	LCL 6D	LCS 25C	LSC 64D	LSP 6	-	-	-	L-W 4
...2509	LCL 8	LCS 8	LSC 84D	LSP 8	-	-	-	L-W 5
PCLNR/L...TB	LCS 4	LCS 4	LSC 42	LSP 4	CU-CW-TB	ID 6.4x0.9	T 8	L-W 2, L-W 3

▸ Apply LSC 85D shim when using CN...2507... insert
▸ Please refer to A128-A130 page for COOL-BURST accessories

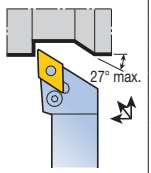
PDJNR/L PDJNR/L-TB

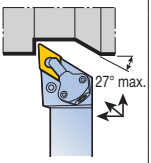
T-TURN

Lever lock type holders



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
93°	PDJNR/L 1616 H11	16	16	16	100	30	20	DN... 1104...
	2020 K11	20	20	20	125	30	25	
	2525 M11	25	25	25	150	30	32	
	2020 K15	20	20	20	125	34	25	DN... 1506...
	2525 M15	25	25	25	150	34	32	
	3225 P15	32	32	25	170	34	32	
	3232 P15	32	32	32	170	34	40	
	2020 K15A	20	20	20	125	34	25	DN... 1504...
	2525 M15A	25	25	25	150	34	32	
93°	PDJNR/L 2525 M1504-TB	25	25	25	150	37	32	DN... 1504...
	2525 M1506-TB	25	25	25	150	37	32	DN... 1506...





COOL BURST

A236-A240, A295, A306

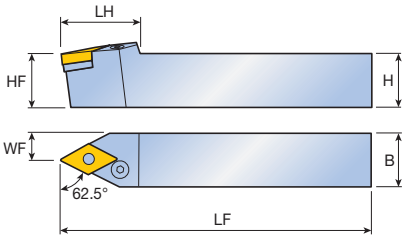
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Cooling unit	O-ring	Wrench	
...11	LCL 12C	LCS 3	LSD 32	LSP 3A	-	-	-	L-W 2.5
...15	LCL 4A	LCS 4	LSD 42	LSP 4	-	-	-	L-W 3
...M1504-TB	LCL 4A	LCS 4	LSD 43	LSP 4	CU-D-TB	ID 6.4x0.9	T 8	L-W 2, L-W 3
...M1506-TB	LCL 4A	LCS 4	LSD 42	LSP 4	CU-D-TB	ID 6.4x0.9	T 8	L-W 2, L-W 3

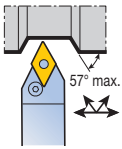
▸ Please refer to A128-A130 page for COOL-BURST accessories

PDNNR/L

Lever lock type holders



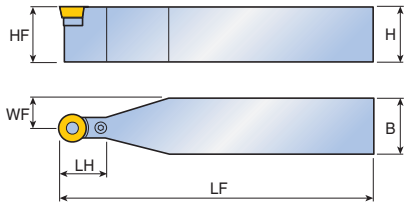
PDNNR

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
62.5°	**PDNNR/L 2020 K15**	20	20	20	125	36.5	10	DN... 1506... A235-A240, A295, A306
	**2525 M15**	25	25	25	150	36.5	12	
	3232 P15	32	32	32	170	36.5	16.8	

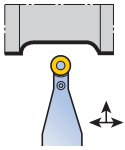
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
								
...15	LCL 4A	LCS 4	LSD 42	LSP 4	L-W 3			

Lever lock type holders



PRDCN

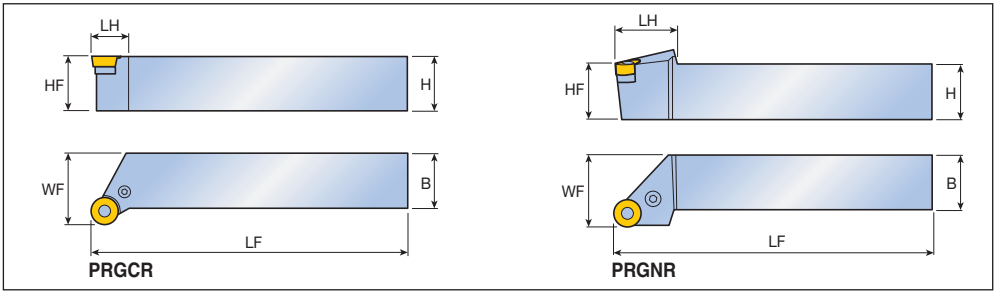
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
45°	**PRDCN 2020 M10**	20	20	20	150	30	10.0	RC...X 1003... A273
	**2525 M10**	25	25	25	150	30	12.5	
	2020 K12	20	20	20	125	30	10.0	RC...X 1204...
	2525 M12	25	25	25	150	30	12.5	
	3225 Q12	32	32	25	180	30	12.5	
	2525 Q16	25	25	25	180	30	12.5	RC...X 1606...
	3225 Q16	32	32	25	180	30	12.5	
	3232 Q16	32	32	32	180	30	16.0	
	3232 S20	32	32	32	250	40	16.0	RC...X 2006...
	4040 S20	40	40	40	250	40	20.0	
	4040 S25	40	40	40	250	50	20.0	RC...X 2507...
	4040 T25	40	40	40	300	50	20.0	
	5050 U32	50	50	50	350	60	25.0	RC...X 3209...

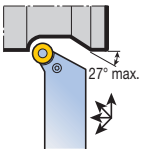
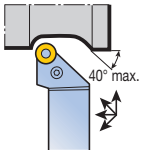
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
								
...10	LCL 10C	LCS 2	LSR 32	LSP 3A	L-W 2			
...12	LCL 12C	LCS 3	LSR 1203	LSP 3A	L-W 2.5			
...16	LCL 16C	LCS 16C	LSR 1604	LSP 16C	L-W 2.5			
...20	LCL 20C	LCS 5	LSR 2004	LSP 5	L-W 3			
...25	LCL 25C	LCS 25C	LSR 2506	LSP 6	L-W 4			
...32	LCL 32C	LCS 8	LSR 3206	LSP 8	L-W 5			

PRGCR/L PRGNR/L

Lever lock type holders



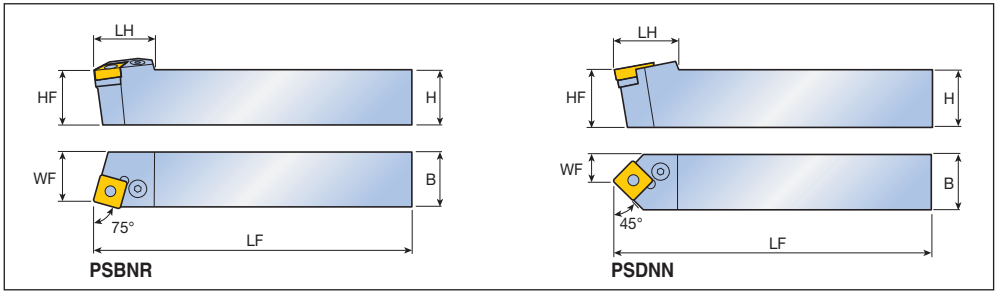
Approach angle	Designation	Dimension (mm)						Insert	
		H	HF	B	LF	LH	WF		
90°	**PRGCR/L 2020 K10**	20	20	20	125	14.5	25	RC...X 1003...	A273
	**2525 M10**	25	25	25	150	17.5	32		
	3225 P10	32	32	25	170	17	32		
	2020 K12	20	20	20	125	18	25	RC...X 1204...	
	2525 M12	25	25	25	150	18	32		
	3225 P12	32	32	25	170	18	32		
	2525 M16	25	25	25	150	23	32	RC...X 1606...	
	3225 P16	32	32	25	170	23	32		
	3232 P16	32	32	32	170	23	40		
	4040 P16	40	40	40	170	23	50		
	3232 P20	32	32	32	170	27.5	40	RC...X 2006...	A242
	4040 S25	40	40	40	250	33.5	50	RC...X 2507...	
	4040 S32	40	40	40	250	41	50	RC...X 3209...	
90°	**PRGNR/L 2525 M12**	25	25	25	150	28	32	RNMG 120400	
	**3225 P15**	32	32	25	170	35	32	RNMG 150600	
	3232 P19	32	32	32	170	38	40	RNMG 190600	

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
								
CR/L...10	LCL 10C	LCS 2	LSR 32	LSP 3A	L-W 2			
CR/L...12	LCL 12C	LCS 3	LSR 1203	LSP 3A	L-W 2.5			
CR/L...16	LCL 16C	LCS 16C	LSR 1604	LSP 16C	L-W 2.5			
CR/L...20	LCL 20C	LCS 5	LSR 2004	LSP 5	L-W 3			
CR/L...25	LCL 25C	LCS 25C	LSR 2506	LSP 6	L-W 4			
CR/L...32	LCL 32C	LCS 8	LSR 3206	LSP 8	L-W 5			
NR/L...12	LCL 4	LCS 4	LSR 42	LSP 4	L-W 3			
NR/L...15	LCL 5	LCS 5	LSR 53	LSP 5	L-W 3			
NR/L...19	LCL 6D	LCS 6	LSR 63	LSP 6	L-W 4			

PSBNR/L PSDNN

Lever lock type holders



Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
75°	PSBNR/L	2020 K12	20	20	20	125	28	17	SN... 1204...	A243-A248, A298, A299, A308
		2525 M12	25	25	25	150	28	22		
		3225 P12	32	32	25	170	28	22		
		2525 M15	25	25	25	150	34	22	SN... 1506...	
		3232 P1906D	32	32	32	170	39	27	SN... 1906...	
		4040 S1906D	40	40	40	250	39	35		
		4040 S2509D	40	40	40	250	48	35	SN... 2509...	
		5050 T2509D	50	50	50	300	48	43		
45°	PSDNN	2020 K12	20	20	20	125	28	10.0	SN... 1204...	
		2525 M12	25	25	25	150	28	12.5		
		3225 P12	32	32	25	170	28	12.5		
		2020 K15	20	20	20	125	34	10.0	SN... 1506...	
		2525 M15	25	25	25	150	34	12.5		
		3225 P1906D	32	32	25	170	40.5	12.5	SN... 1906...	
		3232 P1906D	32	32	32	170	40.5	16.0		
		4040 S1906D	40	40	40	250	40.5	20.0		
		5050 S1906D	50	50	50	250	40.5	25.0		
		4040 S2509D	40	40	40	250	49	20.0	SN... 2509...	
		5050 T2509D	50	50	50	300	49	25.0		

▸ SNMD, SNMM, SNMG type insert can be mounted on "-D" holder

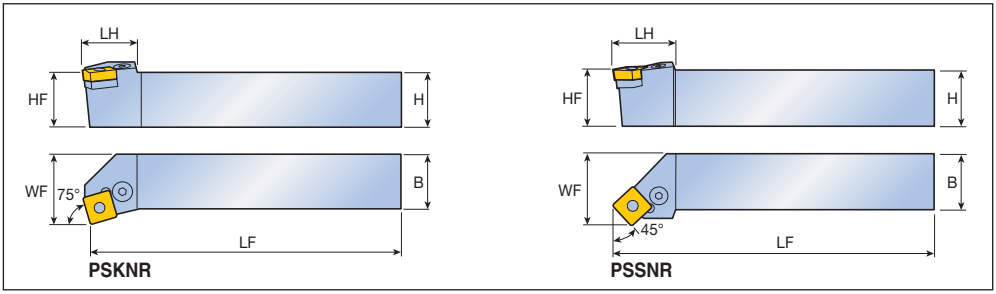
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
...12	LCL 4	LCS 4	LSS 42	LSP 4	L-W 3			
...15	LCL 5	LCS 5	LSS 53	LSP 5	L-W 3			
...1906	LCL 6D	LCS 25C	LSS 64D	LSP 6	L-W 4			
...2509	LCL 8	LCS 8	LSS 84D	LSP 8	L-W 5			

▸ Apply LSC 85D shim when using CN...2507... insert

PSKNR/L PSSNR/L

Lever lock type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
75°	**PSKNR/L**	**2020 K12**	20	20	20	125	25	25	SN... 1204...
		2525 M12	25	25	25	150	25	32	
		2525 M15	25	25	25	150	32	32	SN... 1506...
		3232 P15	32	32	32	170	32	40	
		3232 P1906D	32	32	32	170	38	40	SN... 1906...
		4040 S1906D	40	40	40	250	38	50	
		4040 S2509D	40	40	40	250	42	50	SN... 2509...
		5050 T2509D	50	50	50	300	42	60	
45°	**PSSNR/L**	**2020 K12**	20	20	20	125	30	25	SN... 1204...
		2525 K12	25	25	25	125	30	32	
		2525 M12	25	25	25	150	30	32	
		3225 P12	32	32	25	170	30	32	
		3232 P12	32	32	32	170	32	40	
		3232 P15	32	32	32	170	37	40	SN... 1506...
		3232 P1906D	32	32	32	170	42	40	SN... 1906...
		4040 S1906D	40	40	40	250	42	50	
		4040 S2509D	40	40	40	250	53	50	SN... 2509...

A243-A248, A298, A299, A308

▸ SNMD, SNMM, SNMG type insert can be mounted on "-D" holder

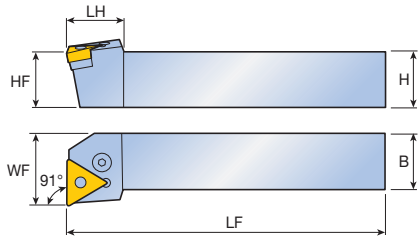
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
...12	LCL 4	LCS 4	LSS 42	LSP 4	L-W 3			
...15	LCL 5	LCS 5	LSS 53	LSP 5	L-W 3			
...1906	LCL 6D	LCS 25C	LSS 64D	LSP 6	L-W 4			
...2509	LCL 8	LCS 8	LSS 84D	LSP 8	L-W 5			

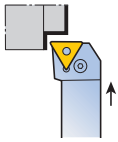
▸ Apply LSC 85D shim when using CN...2507... insert

PTFNR/L

Lever lock type holders



PTFNR

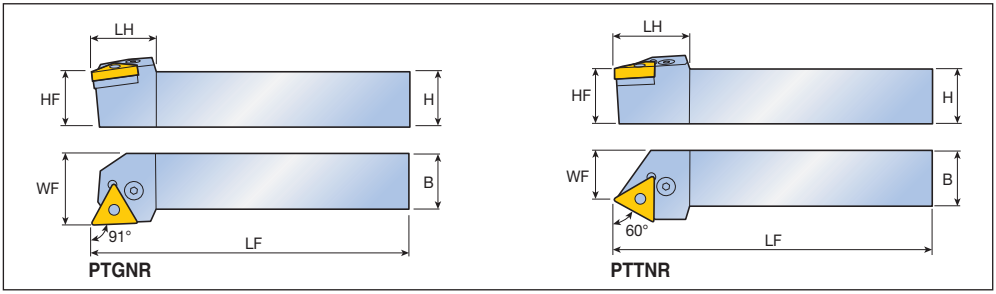
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
91°	**PTFNR/L**	**2020 K16**	20	20	20	125	20	25	TN... 1604... A249-A252, A301, A309
		**2525 M16**	25	25	25	150	20	32	

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
								
...16	LCL 3	LCS 3	LST 31.8	LSP 3A	L-W 2.5			

PTGNR/L PTTNR/L

Lever lock type holders



Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
91°	**PTGNR/L**	**1010 E11**	10	10	10	70	15	12	TN... 1103...	A249-A252, A301, A309
		1212 F11	12	12	12	80	15	16		
		2525 M11	25	25	25	150	30	32		
		1616 H16	16	16	16	100	22	20	TN... 1604...	
		2020 K16	20	20	20	125	22	25		
		2525 M16	25	25	25	150	22	32		
		3232 P16	32	32	32	170	22	40		
		2525 M22	25	25	25	150	29	32	TN... 2204...	
		3232 P22	32	32	32	170	29	40		
60°	**PTTNR/L**	**1616 H16**	16	16	16	100	24	13	TN... 1604...	
		2020 K16	20	20	20	125	24	17		
		2525 M16	25	25	25	150	24	22		

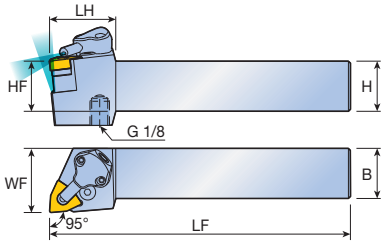
Spare parts

Designation	Lever	Screw	Shim	Snap ring	Shim pin	Wrench		
								
...11	LCL 2B	LCS 2B	-	LSR 2B	-	L-W 2		
...16	LCL 3	LCS 3	LST 31.8	-	LSP 3A	L-W 2.5		
...22	LCL 4	LCS 4	LST 42	-	LSP 4	L-W 3		

PWLNR/L-TB

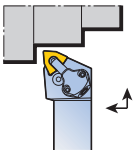
T-TURN

Lever lock type holders



PWLNR-TB

Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
95°	**PWLNR/L**	**2525 M08-TB**	25	25	25	150	33	32	WN... 0804... A255-A257, A302, A311
		3232 P08-TB	32	32	32	170	33	40	



COOL BURST

Spare parts

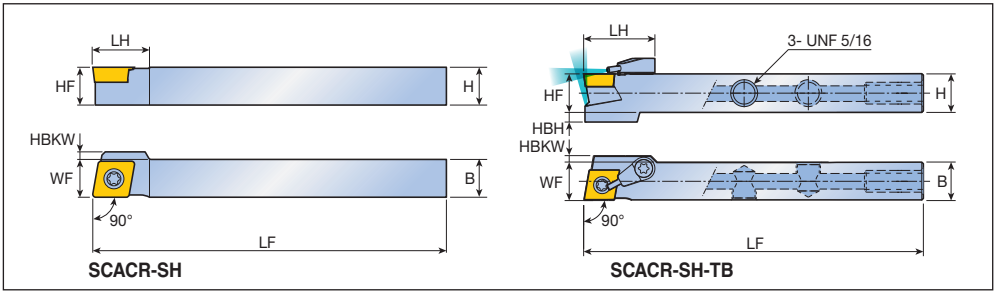
Designation	Lever	Screw	Shim	Shim pin	Cooling unit	O-ring	Wrench	
								
...08-TB	LCL 4	LCS 4	TWN 423(T)	LSP 4	CU-CW-TB	ID 6.4x0.9	T 8	L-W 2, L-W 3

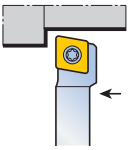
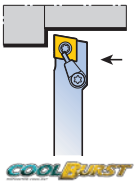
▸ Please refer to A128-A130 page for COOL-BURST accessories

SCACR/L-SH SCACR/L-SH-TB

T-TURN

Screw type holders



Approach angle	Designation		Dimension (mm)								Insert
			H	HF	HBH	B	LF	LH	WF	HBKW	
90°	# **SCACR/L**	**1010 K06-SH**	10	10	-	10	125	10	10	-	CC... 0602...
		**1010 K09-SH**	10	10	-	10	125	15	10	2	CC... 09T3...
		1212 K09-SH	12	12	-	12	125	15	12	-	A262-A265, A312
		1616 K09-SH	16	16	-	16	125	16	16	-	
90°	# **SCACR/L**	**1212 K09-SH-TB**	12	12	3	12	125	23	12	2	
		**1616 K09-SH-TB**	16	16	-	16	125	23	16	-	

▸ #: TOP-MINI holders

Spare parts

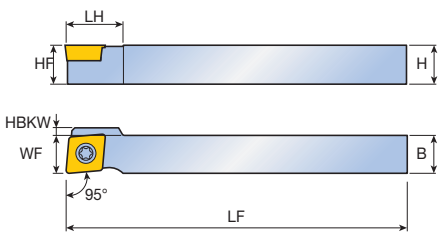
Designation	Screw	Cooling unit	Plug	Wrench			
							
...06-SH	SO 25065I	-	-	T 7	-		
...09-SH	SO 35080I	-	-	T 15	-		
SCACR/L-SH-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32		

▸ Please refer to A128-A130 page for COOL-BURST accessories

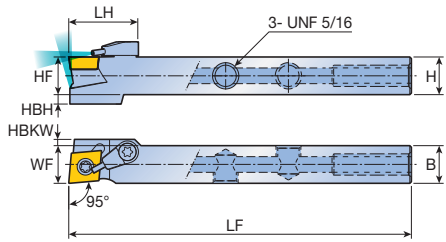
SCLCR/L-SH SCLCR/L-SH-TB

T-TURN

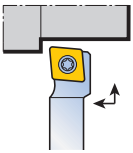
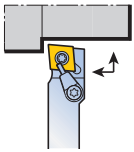
Screw type holders



SCLCR-SH



SCLCR-SH-TB

Approach angle	Designation	Dimension (mm)								Insert
		H	HF	HBH	B	LF	LH	WF	HBKW	
95°	# **SCLCR/L 0808 K06-SH**	8	8	-	8	125	8	8	-	CC... 0602...
	**1010 K06-SH**	10	10	-	10	125	10	10	-	
	1010 K09-SH	10	10	-	10	125	15	10	2	CC... 09T3...
	1212 K09-SH	12	12	-	12	125	15	12	-	
	1616 K09-SH	16	16	-	16	125	16	16	-	A262-A265, A312
95°	# **SCLCR/L 1212 K09-SH-TB**	12	12	3	12	125	23	12	2	
	**1616 K09-SH-TB**	16	16	-	16	125	23	16	-	

▸ #: TOP-MINI holders

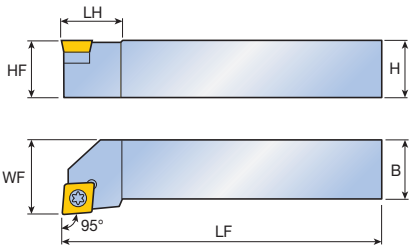
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench			
							
...06-SH	SO 25065I	-	-	T 7	-		
...09-SH	SO 35080I	-	-	T 15	-		
SCLCR/L-SH-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32		

▸ Please refer to A128-A130 page for COOL-BURST accessories

SCLCR/L

Screw type holders



SCLCR

Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
95°	SCLCR/L	0808 F06	8	8	8	80	10	10	CC... 0602...	A262-A265, A312
		1010 F06	10	10	10	80	10	12		
		1212 F09	12	12	12	80	16	16	CC... 09T3...	
		1616 H09	16	16	16	100	16	20		
		2020 K09	20	20	20	125	20	25		
		2525 M09	25	25	25	150	20	32		
		2020 K12	20	20	20	125	25	25	CC... 1204...	
		2525 M12	25	25	25	150	26	32		

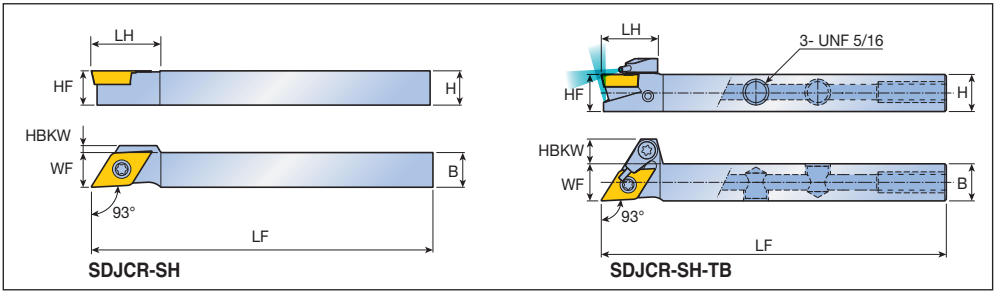
Spare parts

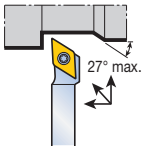
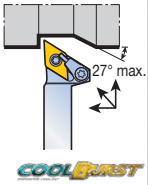
Designation	Screw	Shim	Shim screw	Wrench			
...06	SO 25065I	-	-	T 7			
...F09	SO 35080I	-	-	T 15			
...09	SO 35124I	SSC 32	SO 50090S	T 15			
...12	SO 45130I	SSC 43N	SO 60105S	T 20			

SDJCR/L-SH SDJCR/L-SH-TB

T-TURN

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
93°	# **SDJCR/L 0808 K07-SH**	8	8	8	125	12.7	8	-	DC... 0702... A267-A270, A313
	**1010 K07-SH**	10	10	10	125	15	10	-	
	1010 K11-SH	10	10	10	125	20	10	2	DC... 11T3...
	1212 K11-SH	12	12	12	125	20	12	-	
	1616 K11-SH	16	16	16	125	20	16	-	
	2020 K11-SH	20	20	20	125	20	20	-	
93°	# **SDJCR/L 1212 K11-SH-TB**	12	12	12	125	19	12	8	
	**1616 K11-SH-TB**	16	16	16	125	19	16	4	
	2020 K11-SH-TB	20	20	20	125	20	20	-	

▸ #: TOP-MINI holders

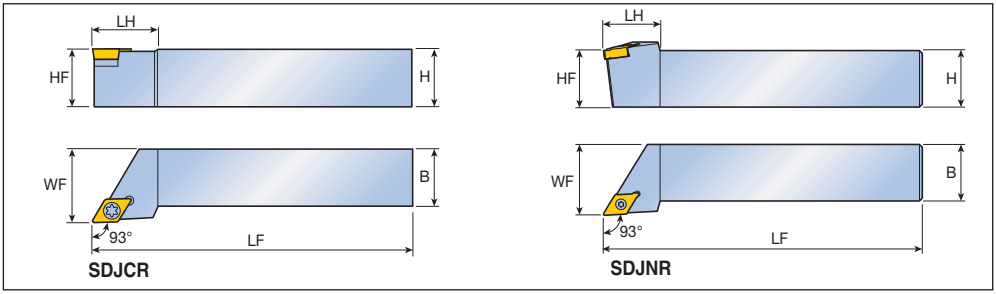
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench			
							
...07	SO 25065I	-	-	T 7	-		
...11-SH	SO 35080I	-	-	T 15	-		
SDJCR/L-SH-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32		

▸ Please refer to A128-A130 page for COOL-BURST accessories

SDJCR/L SDJNR/L

Screw type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**SDJCR/L**	**1212 F07**	12	12	12	80	15	16	DC... 0702... A267-A270, A313
		1616 H07	16	16	16	100	15	20	
		2020 K07	20	20	20	125	20	25	
		1616 H11	16	16	16	100	24	20	DC... 11T3...
		2020 K11	20	20	20	125	24	25	
		2525 M11	25	25	25	150	28	32	
93°	**SDJNR/L**	**1616 H11**	16	16	16	100	25	20	DN... 1104... A236-A237, A239
		2020 K11	20	20	20	125	25	25	
		2525 M11	25	25	25	150	25	32	

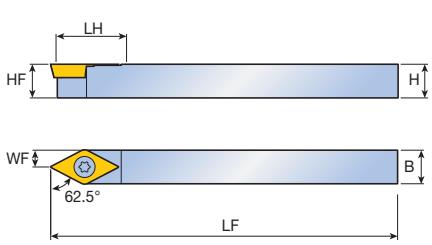
Spare parts

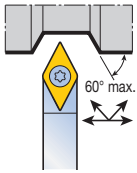
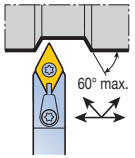
Designation	Screw	Shim	Shim screw	Wrench				
								
...07	SO 25065I	-	-	T 7				
...11	SO 35124I	SSD 32	SO 50090S	T 15				
...1104...	SO 35120I	SSD 32	SO 50090S	T 10				

SDNCN-SH SDNCN-SH-TB

T-TURN

Screw type holders



Approach angle	Designation		Dimension (mm)							Insert
			H	HF	HBH	B	LF	LH	WF	
62.5°	# **SDNCN**	**0808 K07-SH**	8	8	-	8	125	15	4	DC... 0702...
		**1010 K07-SH**	10	10	-	10	125	15	5	A267-A270, A313
		1010 K11-SH	10	10	-	10	125	22	5	DC... 11T3...
		1212 K11-SH	12	12	-	12	125	22	6	
		1616 K11-SH	16	16	-	16	125	22	8	
62.5°	# **SDNCN**	**1212 K11-SH-TB**	12	12	4	12	125	32	6	
		**1616 K11-SH-TB**	16	16	-	16	125	32	8	

▸ #: TOP-MINI holders

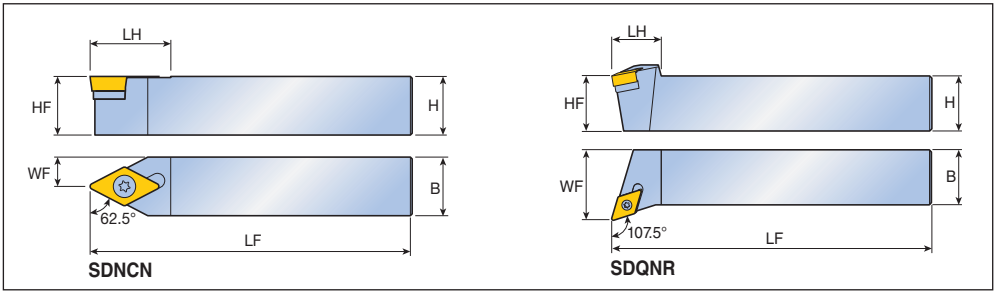
Spare parts

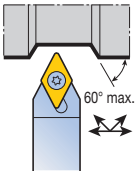
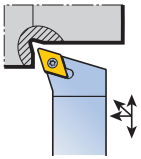
Designation	Screw	Cooling unit	Plug	Wrench				
								
...07	SO 25065I	-	-	T 7	-			
...11-SH	SO 35080I	-	-	T 7	-			
SDNCN-SH-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32			

▸ Please refer to A128-A130 page for COOL-BURST accessories

SDNCN SDQNR/L

Screw type holders



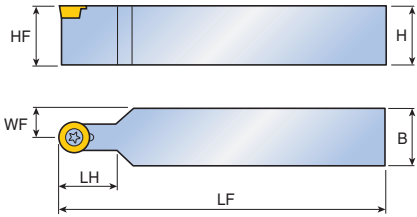
Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
62.5°	**SDNCN**	**0808 F07**	8	8	8	80	15	4	DC... 0702...	A267-A270, A313
		**1010 F07**	10	10	10	80	15	5		
		1616 H11	16	16	16	100	22	8	DC... 11T3...	
		2525 M11	25	25	25	150	22	12.5		
107.5°	**SDQNR/L**	**1616 H11**	16	16	16	100	22	20	DN... 1104...	A236-A237, A239
		**2020 K11**	20	20	20	125	22	25		
		2525 M11	25	25	25	150	22	32		

Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
								
...07	SO 25065I	-	-	T 7				
SDNCN ...11	SO 35124I	SSD 32	SO 50090S	T 15				
SDQNR/L...11	SO 35120I	SSD 32	SO 50090S	T 10				

SRDCN

Screw type holders



SRDCN

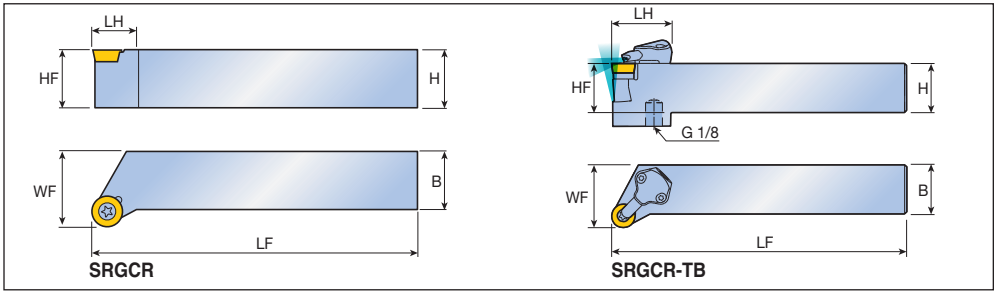
Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
45°	SRDCN	1616 H08	16	16	16	100	20	8	RC…T 0803…	A273
		2020 K08	20	20	20	125	25	10		
		2525 M08	25	25	25	150	30	12.5		
		1616 H10	16	16	16	100	16	8	RC...T 10T3...	
		2020 K10	20	20	20	125	20	10		
		2525 M10	25	25	25	150	25	12.5		
		2525 M12	25	25	25	150	25	12.5	RC...T 1204...	

Spare parts

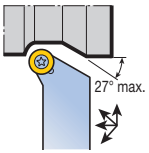
Designation	Screw	Wrench						
...08	SO 30040I	T 9						
...10	TS 40097I	T 15						
...12	SO 40050I	T 15						

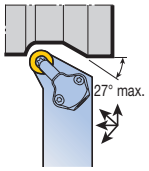
SRGCR/L SRGCR/L-TB

Screw type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
90°	**SRGCR/L**	**1616 H10**	16	16	16	100	12.3	20	RC...T 10T3...
		2020 K10	20	20	20	125	14	25	
		2525 M10	25	25	25	150	14	32	
90°	**SRGCR/L**	**2525 M12-TB**	25	25	25	150	30	32	RC...T 1204...





A273

Spare parts

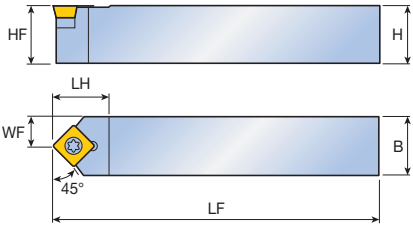
Designation	Screw	Shim	Shim screw	Cooling unit	O-ring	Wrench	
							
...10	TS 40097I	-	-	-	-	T 15	-
SRGCR/L...TB	TS 35110I	SSR 32	TS 5035062S	CU-R-TB	ID 6.4x0.9	T 8, T 15	L-W 2, L-W 3.5

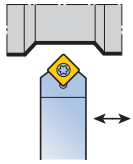
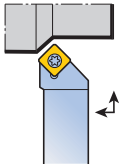
▸ Please refer to A128-A130 page for COOL-BURST accessories

SSDCN SSSCR/L

T-TURN

Screw type holders



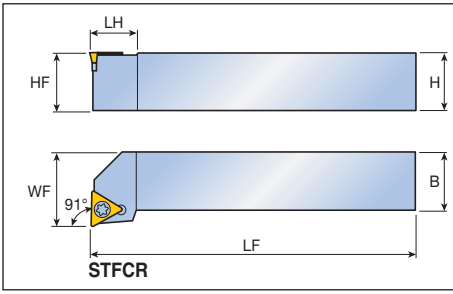
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
45°	**SSDCN**	**1212 F09**	12	12	12	80	15.5	6	SC... 09T3... A273, A314
		**1616 H09**	16	16	16	100	15.5	8	
45°	**SSSCR/L**	**1212 F09**	12	12	12	80	15.5	14	SC... 09T3...
		**1616 H09**	16	16	16	100	15.5	17	
		2020 K12	20	20	20	125	24	22	SC... 1204...
		2525 M12	25	25	25	150	24	27	

Spare parts

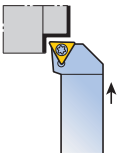
Designation	Screw	Shim	Shim screw	Wrench				
								
...F09	SO 35080I	-	-	T 15				
...H09	SO 35124I	SSS 32	SO 50090S	T 15				
...12	SO 45130I	SSS 43N	SO 60105S	T 20				

STFCR/L

Screw type holders



STFCR

Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
91°	**STFCR/L**	**1212 F1102**	12	12	12	80	14	16	TC...T 1102...	A277, A278, A315, A316
		**1616 H16**	16	16	16	100	19	20	TC... 16T3...	
		2020 K16	20	20	20	125	19	25		
		2525 M16	25	25	25	150	20	32		

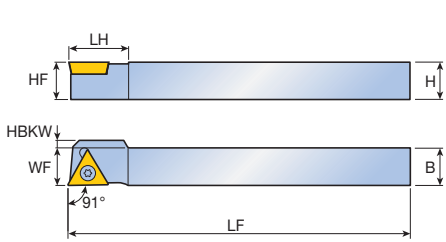
Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
								
...1102	SO 25065I	-	-	T 7				
...16	SO 35124I	SST 32	SO 50090S	T 15				

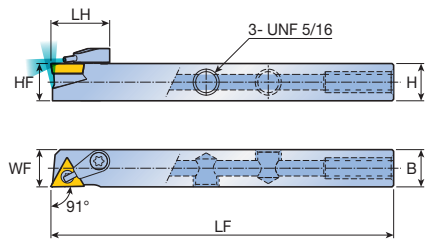
STGCR/L-SH STGPR-SH STGCR/L-SH-TB

T-TURN

Screw type holders



STGCR-SH/STGPR-SH



STGCR-SH-TB

Approach angle	Designation		Dimension (mm)							Insert	
			H	HF	B	LF	LH	WF	HBKW		
91°	# **STGCR/L**	**0808 E08-SH**	8	8	8	70	11	8	2	TC...T 0802...	A277, A315, A316
		1010 F08-SH	10	10	10	80	11	10	-		
	# **STGCR**	**1010 K11-SH**	10	10	10	125	16	10	2	TC...T 1103...	
		1212 K11-SH	12	12	12	125	16	12	-		
		1616 K11-SH	16	16	16	125	16	16	-		
	# **STGPR/L**	**1010 K11-SH**	10	10	10	125	16	10	2	TP...T 1103...	A279-A281
		1212 K11-SH	12	12	12	125	16	12	-		
		1616 K11-SH	16	16	16	125	16	16	-		
91°	# **STGCR**	**1212 K11-SH-TB**	12	12	12	125	20	12	-	TC...T 1103...	A277
		1616 K11-SH-TB	16	16	16	125	20	16	-		

▸ #: TOP-MINI holders
▸ Only -FF/-GF inserts available for 11 size holders

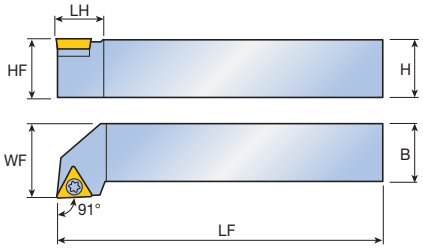
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench			
...08-SH	TS 20043I/HG-P	-	-	T 6P	-		
...11	SO 25065I	-	-	T 7	-		
STGCR/L-SH-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32		

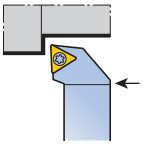
▸ Please refer to A128-A130 page for COOL-BURST accessories

STGCR/L

Screw type holders



STGCR

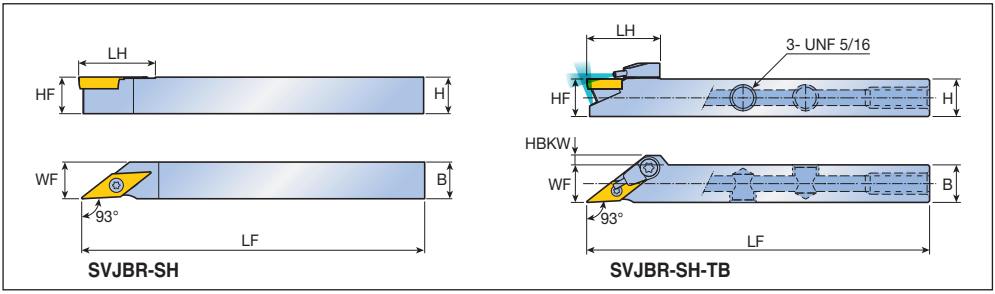
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
91°	**STGCR/L 0808 E08**	8	8	8	70	10	10	TC...T 0802...
	**1010 F08**	10	10	10	80	10	12	A277, A278, A315, A316
	1010 E09	10	10	10	70	11	12	TC...T 0902...
	1212 F1102	12	12	12	80	14.3	16	TC...T 1102...
	1616 H1102	16	16	16	100	14.3	20	
	1616 H16	16	16	16	100	21	20	TC...T 16T3...
	2020 K16	20	20	20	125	21	25	
	2525 M16	25	25	25	150	21	32	

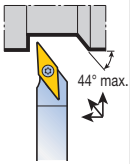
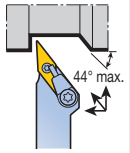
Spare parts

Designation	Screw	Shim	Shim screw	Wrench			
							
...08	TS 20043I/HG-P	-	-	T 6P			
...09	SO 22050I	-	-	T 7			
...1102	SO 25065I	-	-	T 7			
...16	SO 35124I	SST 32	SO 50090S	T 15			

SVJBR/L-SH SVJBR/L-SH-TB

Screw type holders



Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	HBKW	
93°	# **SVJBR/L**	**1010 K11-SH**	10	10	10	125	21	10	-	VB... 1103... A283, A284, A317
		**1212 K11-SH**	12	12	12	125	21	12	-	
		1616 K11-SH	16	16	16	125	21	16	-	
93°	# **SVJBR/L**	**1212 K11-SH-TB**	12	12	12	125	23.6	12	3	
		**1616 K11-SH-TB**	16	16	16	125	23.6	16	-	

▸ #: TOP-MINI holders

Spare parts

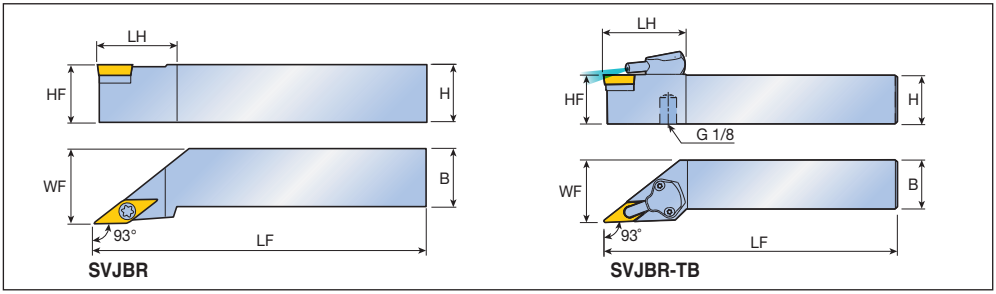
Designation	Screw	Cooling unit	Plug	Wrench			
							
...11	SO 25065I	-	-	T 7	-		
SVJBR/L-SH-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32		

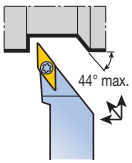
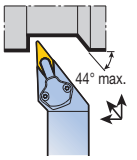
▸ Please refer to A128-A130 page for COOL-BURST accessories

SVJBR/L SVJBR/L-TB

T-TURN

Screw type holders



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
93°	**SVJBR/L 2020 K16**	20	20	20	125	35	25	VB... 1604... A283, A284, A317
	**2525 M16**	25	25	25	150	35	32	
	3225 P16	32	32	25	170	35	32	
	3232 P16	32	32	32	170	35	40	
93°	**SVJBR/L 2525 M16-TB**	25	25	25	150	42	32	
								

Spare parts

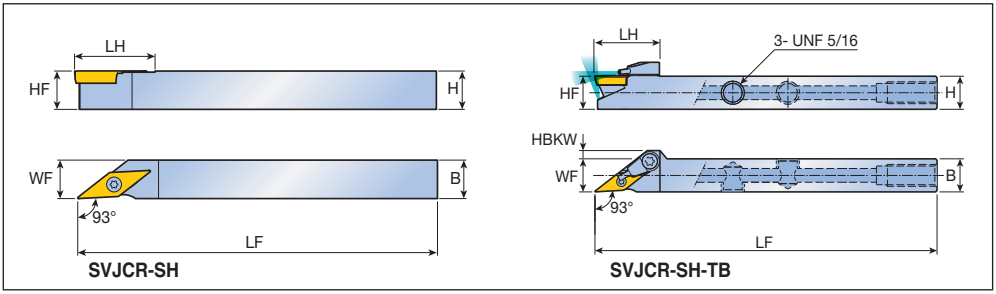
Designation	Screw	Shim	Shim screw	Cooling unit	O-ring	Wrench	
							
...16	SO 35124I	SSV 32	SO 50090S	-	-	T 15	-
SVJBR/L-TB	SO 35124I	SSV 32	TS 5035062S	CU-V-TB	ID 6.4x0.9	T 8, T 15	L-W 3.5

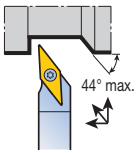
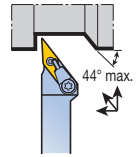
▸ Please refer to A128-A130 page for COOL-BURST accessories

SVJCR/L-SH SVJCR/L-SH-TB

T-TURN

Screw type holders



Approach angle	Designation		Dimension (mm)							Inserts
			H	HF	B	LF	LH	WF	HBKW	
93°	**# SVJCR/L**	**1010 K11-SH**	10	10	10	125	21	10	-	VC... 1103... A285, A286
		**1212 K11-SH**	12	12	12	125	21	12	-	
		1616 K11-SH	16	16	16	125	21	16	-	
		2020 K11-SH	20	20	20	125	21	20	-	
93°	**# SVJCR/L**	**1212 K11-SH-TB**	12	12	12	125	23.6	12	3	
		**1616 K11-SH-TB**	16	16	16	125	23.6	16	-	
		2020 K11-SH-TB	20	20	20	125	23.6	20	-	

▸ #: TOP-MINI holders

Spare parts

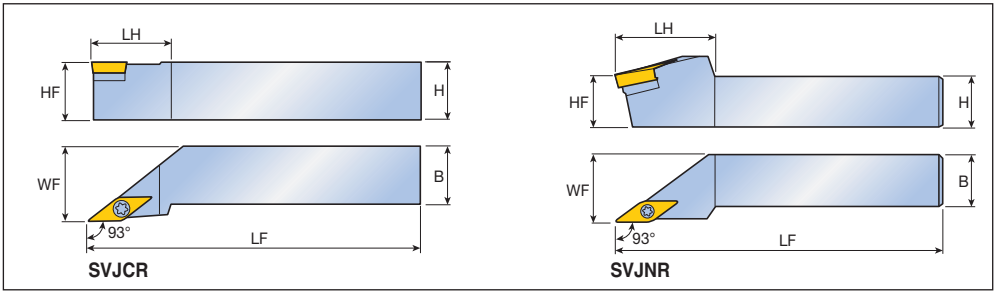
Designation	Screw	Cooling unit	Plug	Wrench			
							
...11-SH	SO 25065I	-	-	T 7	-		
SVJCR/L-SH-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32		

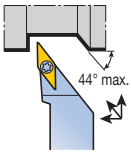
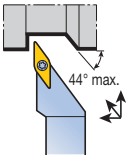
▸ Please refer to A128-A130 page for COOL-BURST accessories

ADVANCE CUTTING TaeguTec

SVJCR/L SVJNR/L

Screw type holders



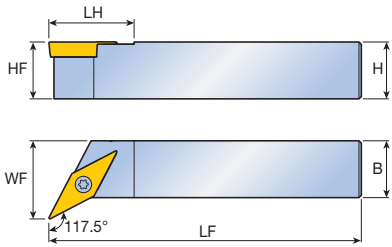
Approach angle	Designation		Dimension (mm)						Inserts
			H	HF	B	LF	LH	WF	
93°	**SVJCR/L**	**2020 K16**	20	20	20	125	35	25	VC... 1604... A285, A286
		**2525 M16**	25	25	25	150	35	32	
		3225 P16	32	32	25	170	35	32	
		3232 P16	32	32	32	170	47	40	
93°	**SVJNR/L**	**1616 H13**	16	16	16	100	30	20	VN... 1304... A253-A254
		**2020 K13**	20	20	20	125	35	25	
		2525 M13	25	25	25	150	43	32	

Spare parts

Designation	Screw	Shim	Shim screw	Wrench			
							
...13	SO 35120I	SSVN 2.522	TS 5035062S	T 10	L-W 3.5		
...16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5		

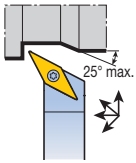
SVPBR/L

Screw type holders



SVPBR

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
117.5°	**SVPBR/L 1010 E11**	10	10	10	70	18	14.5	VB... 1103...
	1212 F11	12	12	12	80	18	16.5	A283, A284, A317
	1616 F11	16	16	16	80	18	20.5	
	2020 K11	20	20	20	125	18	25	
	2525 M11	25	25	25	150	18	32	
	2020 K16	20	20	20	125	25	25	VB... 1604...
	2525 M16	25	25	25	150	25	32	



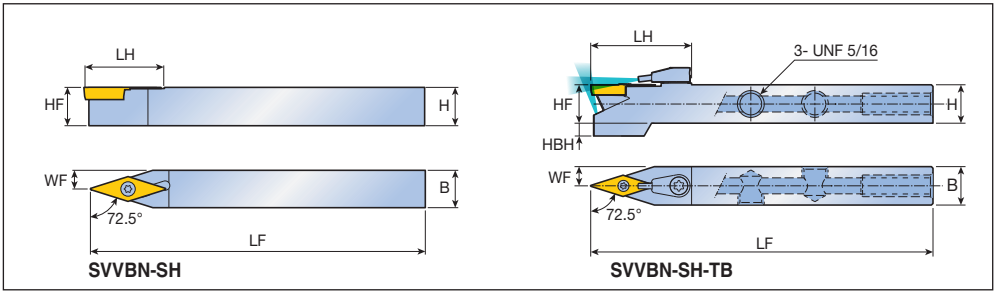
Spare parts

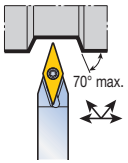
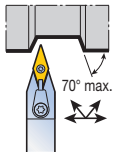
Designation	Screw	Shim	Shim screw	Wrench				
								
...11	SO 25065I	-	-	T 7	-			
...16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5			

SVVBN-SH SVVBN-SH-TB

T-TURN

Screw type holders



Approach angle	Designation		Dimension (mm)							Insert
			H	HF	HBH	B	LF	LH	WF	
72.5°	# **SVVBN**	**1010 K11-SH**	10	10	-	10	125	22	5	VB... 1103... A283, A284, A317
		**1212 K11-SH**	12	12	-	12	125	22	6	
		1616 K11-SH	16	16	-	16	125	22	8	
72.5°	# **SVVBN**	**1212 K11-SH-TB**	12	12	2	12	125	31.5	6	
		**1616 K11-SH-TB**	16	16	-	16	125	31.5	8	

▸ #: TOP-MINI holders

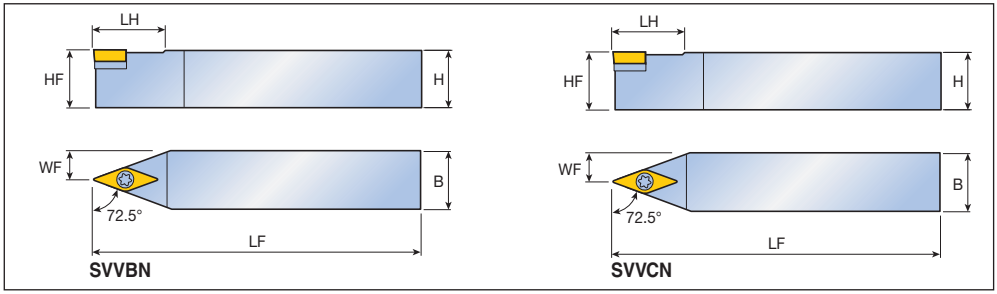
Spare parts

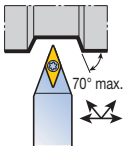
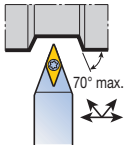
Designation	Screw	Cooling unit	Plug	Wrench				
								
...11	SO 25065I	-	-	T 7	-			
SVVBN-SH-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32			

▸ Please refer to A128-A130 page for COOL-BURST accessories

SVVBN SVVCN

Screw type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
72.5°	**SVVBN**	**2020 K16**	20	20	20	125	31.5	10.0	VB... 1604... A283, A284, A317
		**2525 M16**	25	25	25	150	31.5	12.5	
		3225 P16	32	32	25	170	31.5	12.5	
72.5°	**SVVCN**	**2020 K16**	20	20	20	125	31.5	10.0	VC...T 1604... A285-A286, A317
		**2525 M16**	25	25	25	150	31.5	12.5	
		3225 P16	32	32	25	170	31.5	12.5	
		3232 P16	32	32	32	170	32	16.0	

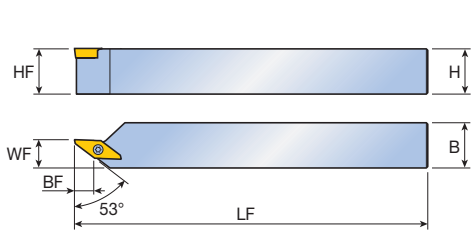
Spare parts

Designation	Screw	Shim	Shim screw	Wrench		
						
...16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5	

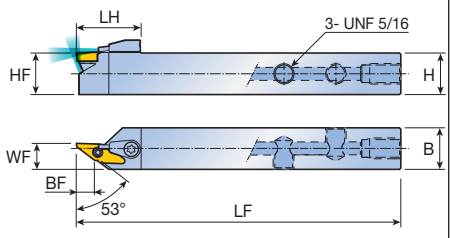
TMB-SVXCR TMB-SVXCR-TB

T-TURN

Screw type back turning holders



TMB-SVXCR



TMB-SVXCR-TB

Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	BF	
53°	# TMB-SVXCR	1212 K11	12	12	12	125	-	10	7.2	BTVC 1103... A261
		1616 K11	16	16	16	125	-	10	7.2	
53°	# TMB-SVXCR	1212 K11-TB	12	12	12	125	25	10	7.2	
		1616 K11-TB	16	16	16	125	25	10	7.2	

COOLBURST

▸ #: TOP-MINI holders

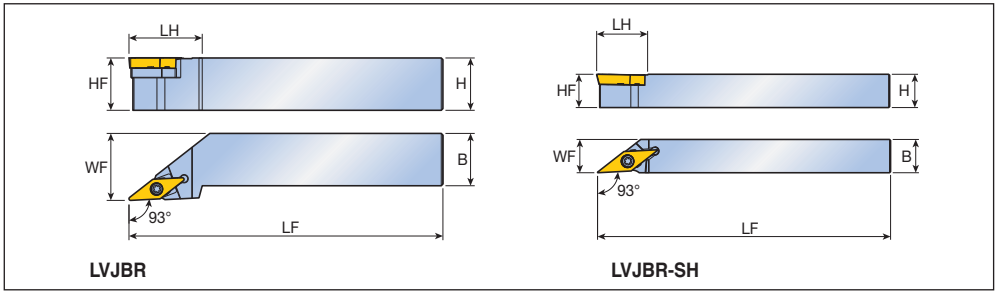
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench		
TMB-SVXCR	SO 25065I	-	-	T 7	-	
TMB-SVXCR-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32	

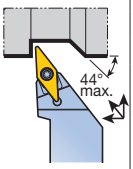
▸ Please refer to A128-A130 page for COOL-BURST accessories

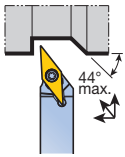
LVJBR/L LVJBR-SH

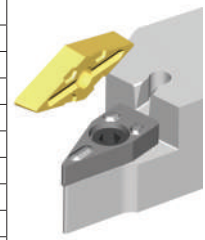
Screw type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**LVJBR/L**	**2020 K16**	20	20	20	125	35	25	VBMX 1604... A284
		2525 M16	25	25	25	150	35	32	
93°	**LVJBR**	**1616 K16-SH**	16	16	16	125	24.5	16	







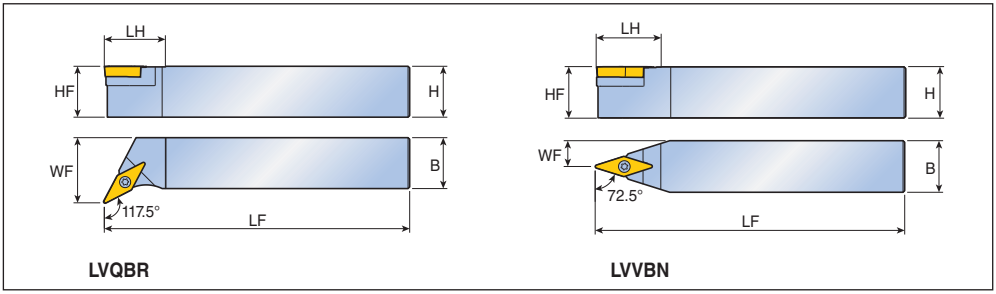
Spare parts

Designation	Screw	Shim	Shim screw	Wrench		
LVJBR/L	SO 35124I	SSVX 32	TS 5035062S	T 15	L-W 3.5	
LVJBR-SH	SO 35080I	-	-	T 15	-	

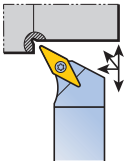
▸ Please refer to A330 page for MULTI-L-TURN

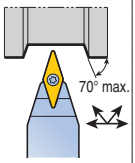
LVQBR/L LVVBN

Screw type holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
117.5°	**LVQBR/L**	**2525 M16**	25	25	25	150	30	32	VBMX 1604... A284
72.5°	**LVVBN**	**2525 M16**	25	25	25	150	31.5	12.5	







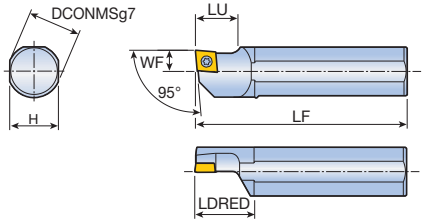
Spare parts

Designation	Screw	Shim	Shim screw	Wrench		
LVQBR/L	SO 35124I	SSVX 32	TS 5035062S	T 15	L-W 3.5	
LVVBN	SO 35124I	SSVX 32	TS 5035062S	T 15	L-W 3.5	

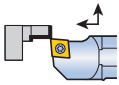
▸ Please refer to A330 page for MULTI-L-TURN

TMS-SCLCL

Sleeve holders



TMS-SCLCL

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LU	LDRED	WF	
95°	# **TMS-19.05H SCLCL 09**	19.05	17	100	20	28	10	CC… 09T3…
	**20H SCLCL 09**	20	18	100	20	28	10	 A262-A265, A312
	22H SCLCL 09	22	20	100	20	28	10	
	25H SCLCL 09	25	23	100	20	28	10	

▸ #: TOP-MINI holders

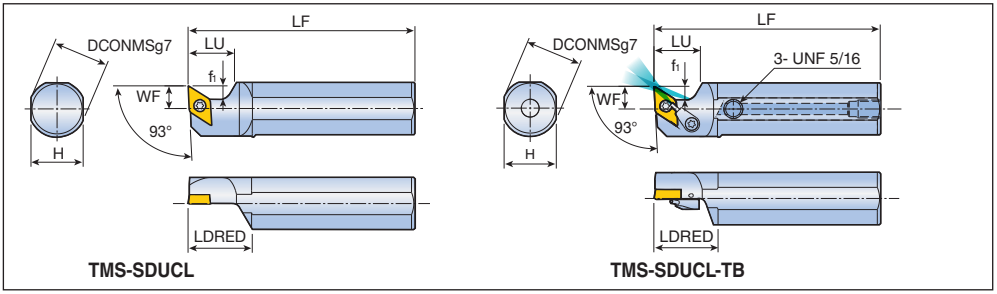
Spare parts

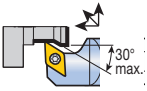
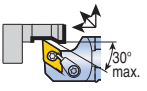
Designation	Screw	Wrench				
						
TMS-SCLCL	SO 35080I	T 15				

TMS-SDUCL TMS-SDUCR/L-TB

T-TURN

Sleeve holders



Approach angle	Designation	Dimension (mm)							Insert
		DCONMS	H	LF	f1	LU	LDRED	WF	
93°	# **TMS-16X SDUCL 11**	16	15	85	6	20	28	10	DC… 11T3…
	**19.05H SDUCL 11**	19.05	17	100	6	20	28	10	A267-A270, A313
	20H SDUCL 11	20	18	100	6	20	28	10	
	22H SDUCL 11	22	20	100	6	20	28	10	
	25H SDUCL 11	25	23	100	6	20	28	10	
93°	# **TMS-16X SDUCR 11- TB**	16	15	85	6	20	28	10	
	**19.05H SDUCL 11-TB**	19.05	17	100	6	20	28	10	
	20H SDUCL 11-TB	20	18	100	6	20	28	10	
	22H SDUCL 11-TB	22	20	100	6	20	28	10	
	25H SDUCL 11-TB	25	23	100	6	20	28	10	

▸ #: TOP-MINI holders

Spare parts

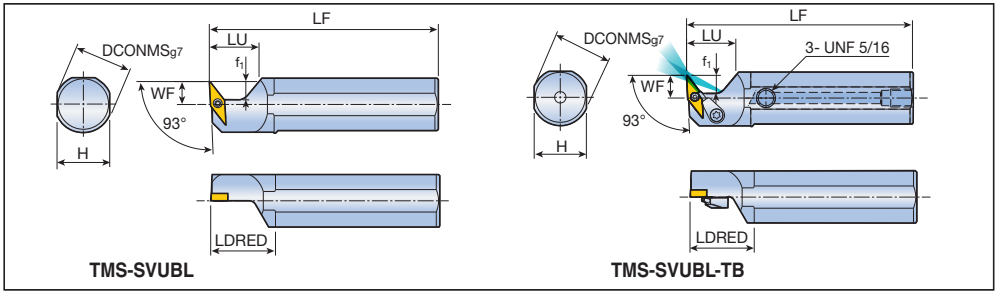
Designation	Screw	Cooling unit	Plug	Wrench		
						
TMS-SDUCL	SO 35080I	-	-	T 15	-	
TMS-SDUCL-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32	

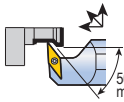
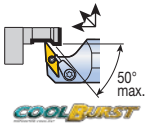
▸ Please refer to A128-A130 page for COOL-BURST accessories

TMS-SVUBL TMS-SVUCL TMS-SVUBR/L-TB

T-TURN

Sleeve holders



Approach angle	Designation	Dimension (mm)							Insert
		DCONMS	H	LF	f_1	LU	LDRED	WF	
93°	# **TMS-19.05H SVUBL 11**	19.05	17	100	8	21	25	10	VB... 1103...
	**20H SVUBL 11**	20	18	100	8	21	25	10	A283-A284, A317
	22H SVUBL 11	22	20	100	8	21	25	10	
	25H SVUBL 11	25	23	100	8	21	28	10	
	# **TMS-19.05H SVUCL 11**	19.05	17	100	8	21	25	10	VC... 1103...
	22H SVUCL 11	22	20	100	8	21	25	10	A284-A285, A317
	25.4H SVUCL 11	25	23	100	8	21	28	10	
	25H SVUCL 11	25	23	100	8	21	28	10	
93°	# **TMS-16X SVUBR 11-TB**	16	15	85	8	21	25	10	VB... 1103...
	**19.05H SVUBL 11-TB**	19.05	17	100	8	21	25	10	A283-A284, A317
	20H SVUBL 11-TB	20	18	100	8	21	25	10	
	22H SVUBL 11-TB	22	20	100	8	21	25	10	
	25H SVUBL 11-TB	25	23	100	8	21	28	10	

▸ #: TOP-MINI holders

Spare parts

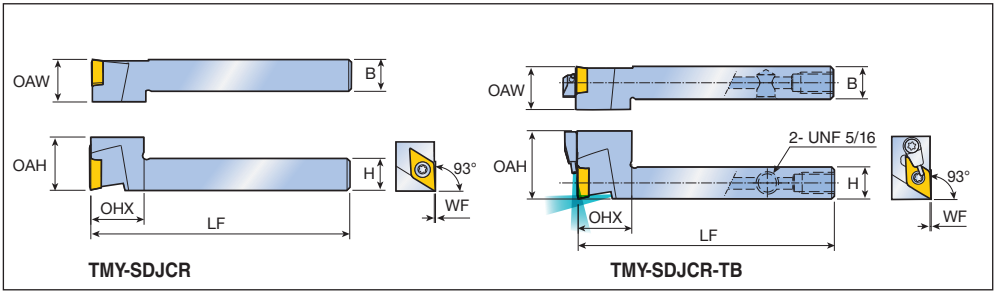
Designation	Screw	Cooling unit	Plug	Wrench		
						
TMS-SVUBL	SO 25065I	-	-	T 7	-	
TMS-SVUBR/L-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32	

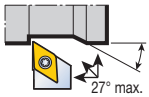
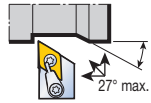
▸ Please refer to A128-A130 page for COOL-BURST accessories

TMY-SDJCR/L TMY-SDJCR-TB

T-TURN

Y-axis holders



Approach angle	Designation	Dimension (mm)							Insert
		H	B	LF	OHX	OAH	OAW	WF	
93°	# **TMY-SDJCR/L 1212 K11**	12	12	125	21	20	16	0	DC... 11T3...
 	**SDJCR 1616 K11**	16	16	125	21	20	16	0	 A267-A270, A313
93°	# **TMY-SDJCR 1212 K11-TB**	12	12	125	21	25.5	16	0	
 COOL BURST 	**SDJCR 1616 K11-TB**	16	16	125	21	25.5	16	0	

▸ #: TOP-MINI holders

Spare parts

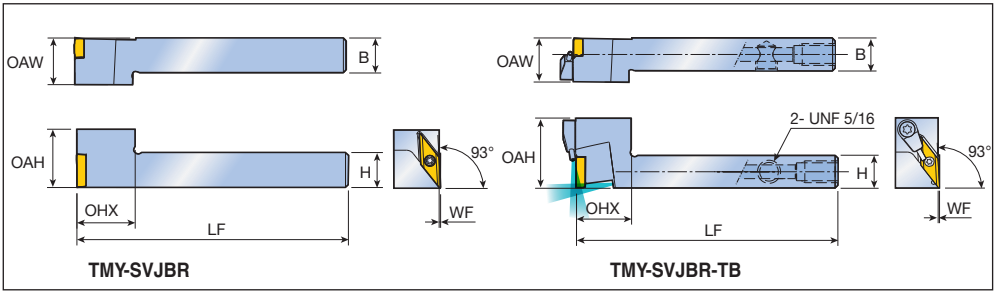
Designation	Screw	Cooling unit	Plug	Wrench		
						
TMY-SDJCR	SO 35080I	-	-	T 15	-	
TMY-SDJCR-TB	SO 35080I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32	

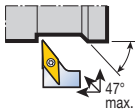
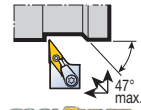
▸ Please refer to A128-A130 page for COOL-BURST accessories

TMY-SVJBR TMY-SVJBR-TB

T-TURN

Y-axis holders



Approach angle	Designation	Dimension (mm)							Insert
		H	B	LF	OHX	OAH	OAW	WF	
93°	# TMY- **SVJBR 1212 K11**	12	12	125	20	20	16	0	VB... 1103...
	**SVJBR 1616 K11**	16	16	125	20	20	16	0	A283-A284, A317
									
93°	# TMY- **SVJBR 1212 K11-TB**	12	12	125	20	25.5	16	0	
	**SVJBR 1616 K11-TB**	16	16	125	20	25.5	16	0	
									

▸ #: TOP-MINI holders

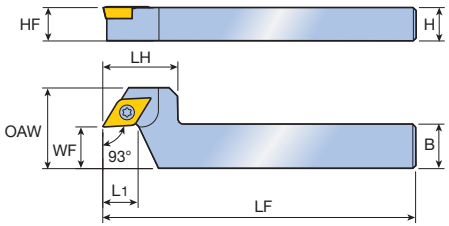
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench		
						
TMY-SVJBR	SO 25065I	-	-	T 7	-	
TMY-SVJBR-TB	SO 25065I	S-CU-TB	PLG 5/16 UNF	T 7	L-W 5/32	

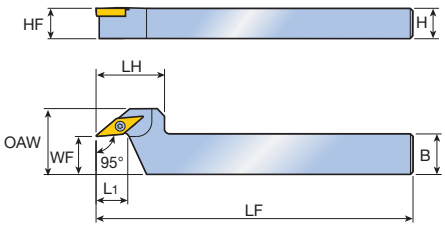
▸ Please refer to A128-A130 page for COOL-BURST accessories

TMZ-SDJCR TMZ-SVLBR

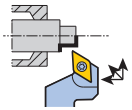
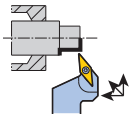
Shift holders



TMZ-SDJCR



TMZ-SVLBR

Approach angle	Designation	Dimension (mm)								Insert
		H	HF	B	LF	L_1	OAW	LH	WF	
93°	# **TMZ-SDJCR 1216 K11-F15**	12	12	16	125	12.5	29	27	15	DC... 11T3...
	**SDJCR 1620 K11-F15**	16	16	20	125	16.3	29	30	15	A267-A270, A313
95°	# **TMZ-SVLBR 1216 K11-F15**	12	12	16	125	12.3	26	27	15	VB... 1103...
	**SVLBR 1620 K11-F15**	16	16	20	125	16.2	26	30	15	A283-A284, A317

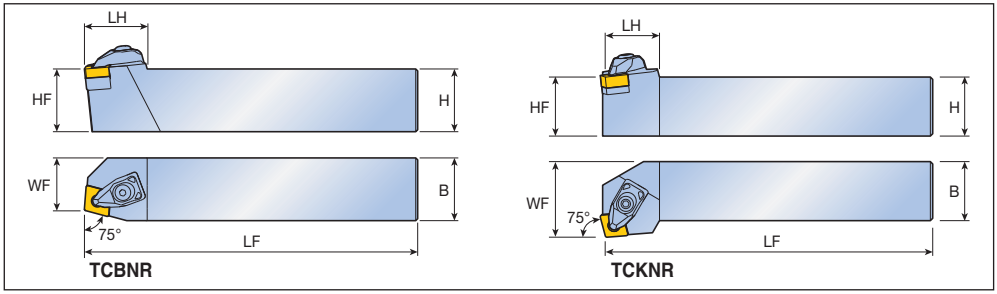
▸ #: TOP-MINI holders

Spare parts

Designation	Screw	Wrench				
						
TMZ-SDJCR	SO 35080I	T 15				
TMZ-SVLBR	SO 25065I	T 7				

TCBNR/L TCKNR/L

T-holders



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
75°	**TCBNR/L 2525 M12**	25	25	25	150	32	22.5	CN... 1204...
	3232 P19	32	32	32	170	42	27	CN... 1906...
75°	**TCKNR/L 2525 M12**	25	25	25	150	25	32	CN... 1204...

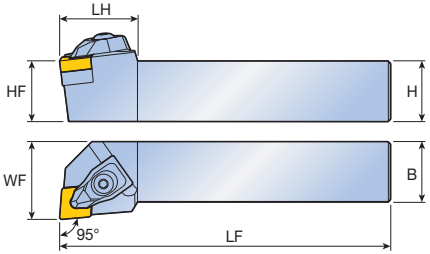
A228, A230-A234

Spare parts

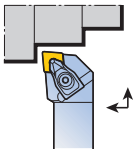
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw		Wrench	
...12	DLM 4	DLS 4	DSP 4	TSC 44	SO 40050I	-	L-W 3	T 15
...19	DLM 6	DLS 5	DSP 5	LSC 63	-	SO 80180I	L-W 4	-

TCLNR/L

T-holders



TCLNR

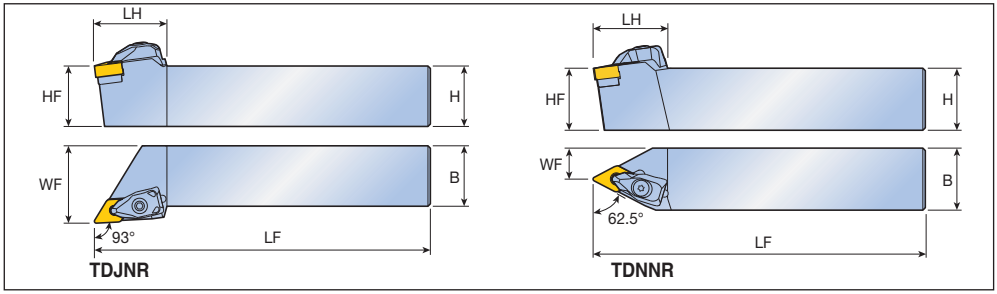
Approach angle	Designation	Dimension (mm)						Insert	
		H	HF	B	LF	LH	WF		
95°	**TCLNR/L 2020 K12**	20	20	20	125	32	25	CN... 1204...	A228, A230-A234
	**2525 M12**	25	25	25	150	32	32		
	3225 P12	32	32	25	170	32	32		
	3232 P12	32	32	32	170	32	40		
	2525 M16	25	25	25	150	36	32	CN... 1606...	
	3232 P16	32	32	32	170	36	40		
	3232 P19	32	32	32	170	42	40	CN... 1906...	
	4040 S19	40	40	40	250	42	50		

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw		Wrench	
								
...12	DLM 4	DLS 4	DSP 4	TSC 44	SO 40050I	-	L-W 3	T 15
...16	DLM 5	DLS 5	DSP 5	TSC 54	SO 50090I	-	L-W 4	T 20
...19	DLM 6	DLS 5	DSP 5	LSC 63	-	SO 80180I	L-W 4	-

TDJNR/L TDNNR/L

T-holders



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**TDJNR/L**	**2020 K11**	20	20	20	125	30	25	DN... 1104...
		2525 M11	25	25	25	150	30	32	
		2020 K15	20	20	20	125	39	25	DN... 1506...
		2525 M15	25	25	25	150	39	32	
		3232 P15	32	32	32	170	39	40	
		2020 K1504	20	20	20	125	39	25	DN... 1504...
		2525 M1504	25	25	25	150	39	32	
62.5°	**TDNNR/L**	**2525 M11**	25	25	25	150	30	12.5	DN... 1104...

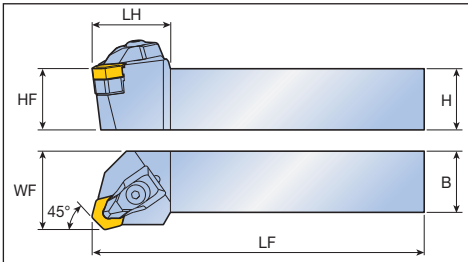
A236-A240

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Wrench	
...11	DLM 3	DLS 3	DSP 3	LSD 32	-	SO 40085I	L-W 2.5	T 15
...15	DLM 4	DLS 4	DSP 4	-	TSD 43	SO 40050I	L-W 3	T 15
...1504	DLM 4	DLS 4	DSP 4	-	TSD 44	SO 40050I	L-W 3	T 15

THSNR/L

T-holders



THSNR

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
45°	THSNR/L 2525 M05	25	25	25	150	32	32	HN... 0504...
	3232 P05	32	32	32	170	32	40	
	2525 M10	25	25	25	150	42	32	HN... 1006...
	3232 P10	32	32	32	170	42	40	

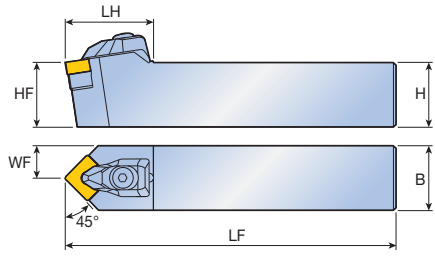
A241

Spare parts

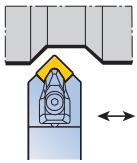
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...05	DLM 4	DLS 4	DSP 4	TSH 44	SO 40050I	L-W 3	T 15	
...10	DLM 6	DLS 5	DSP 5	TSH 64	SO 50090I	L-W 4	T 20	

TSDNN

T-holders



TSDNN

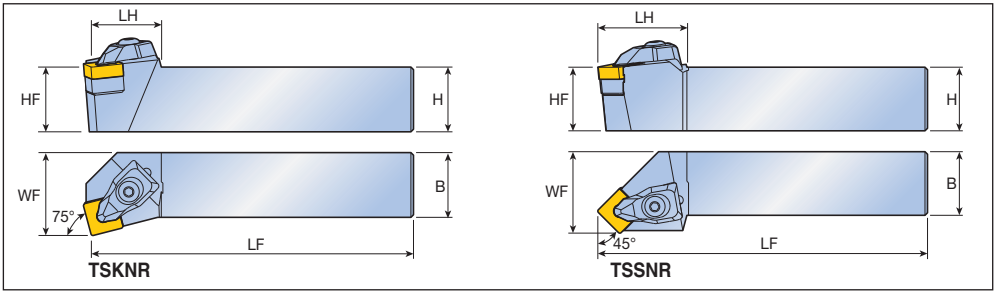
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
45°	**TSDNN 2525 M12**	25	25	25	150	34	12.5	SN... 1204...
	**3232 P19**	32	32	32	170	44	16	SN... 1906... A243-A248, A298, A299, A308

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw		Wrench	
								
...12	DLM 4	DLS 4	DSP 4	TSS 44	SO 40050I	-	L-W 3	T 15
...19	DLM 6	DLS 5	DSP 5	LSS 63	-	SO 80180I	L-W 4	-

TSKNR/L TSSNR/L

T-holders



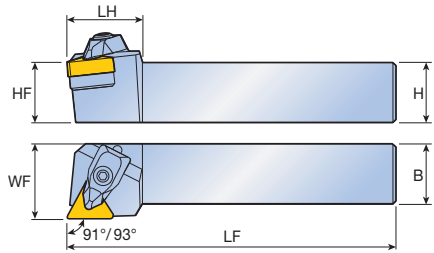
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
75°	**TSKNR/L 2525 M12**	25	25	25	150	27	32	SN... 1204... A243-A248, A298, A299, A308
45°	**TSSNR/L 2525 M12**	25	25	25	150	35	32	SN... 1204...

Spare parts

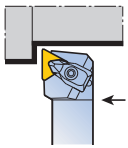
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...12	DLM 4	DLS 4	DSP 4	TSS 44	SO 40050I	L-W 3	T 15	

TTGNR/L TTJNR/L

T-holders



TTGNR (91°) TTJNR (93°)

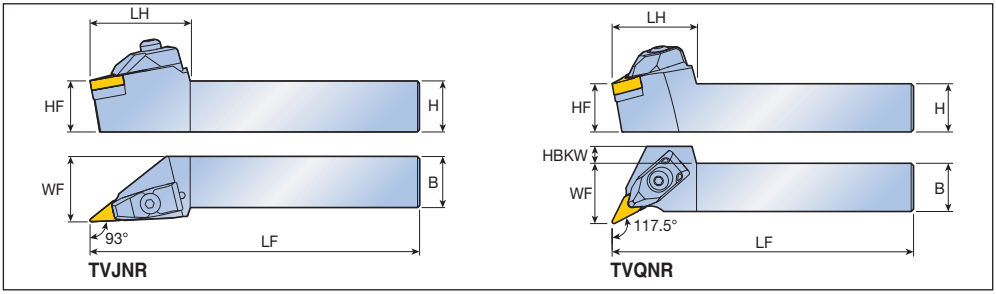
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
91°/93°	**TTGNR/L 2525 M16**	25	25	25	150	25	32	TN... 1604...
	**TTJNR/L 2020 K16**	20	20	20	125	25	25	A249-A252, A301, A309
	2525 M16	25	25	25	150	25	32	

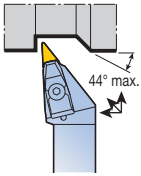
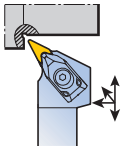
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
								
...16	DLM 3	DLS 3	DSP 3	TST 33	SO 35080I	L-W 2.5	T 15	

TVJNR/L TVQNR/L

T-holders



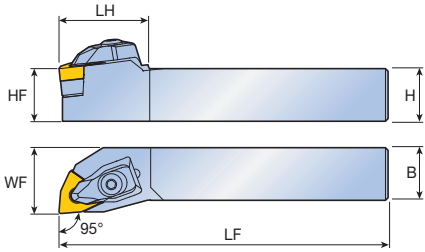
Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF		
93°	**TVJNR/L**	**2020 K13**	20	20	20	125	49	25		VN... 1304... A253-A254
		**2525 M13**	25	25	25	150	49	32		
		2020 K16	20	20	20	125	49	25		VN... 1604... A253-A254, A302, A310
		2525 M16	25	25	25	150	49	32		
117.5°	**TVQNR/L**	**2020 K16**	20	20	20	125	42	25	8	VN... 1604...
		**2525 M16**	25	25	25	150	42	32	2	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw		Wrench	
								
...13	DLM 3V	DLS 5	DSP 5	MSV 2.522	SC 4-SH	-	L-W 4	T 15
...16	DLM 3V	DLS 5	DSP 5	TSV 33	-	SO 35080I	L-W 4	T 15

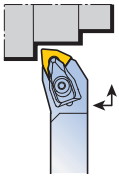
TWLNR/L

T-holders



TWLNR

Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
95°	TWLNR/L	2020 K06	20	20	20	125	26	25	WN...G 0604...
		2525 M06	25	25	25	150	26	32	
		2020 K08	20	20	20	125	34.2	25	WN... 0804...
		2525 M08	25	25	25	150	34.2	32	
		3232 P08	32	32	32	170	34.2	40	



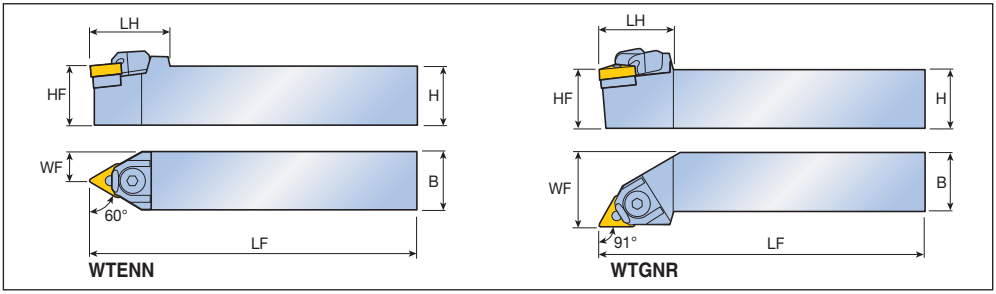
A255-A257, A302, A311

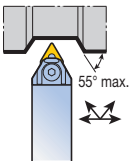
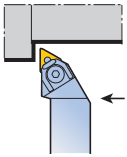
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
								
...06	DLM 3	DLS 3	DSP 3	PSW 32	SO 40090I	L-W 2.5	T 15	
...08	DLM 4	DLS 4	DSP 4	TSW 44	SO 40050I	L-W 3	T 15	

WTENN WTGNR/L

Wedge clamp type holders



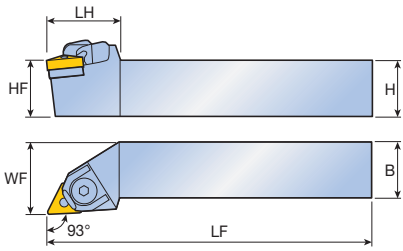
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
60°	**WTENN**	**2020 K16**	20	20	20	125	35	10.0	TN... 1604...
		**2525 M16**	25	25	25	150	35	12.5	A249-A252, A301, A309
		2525 M22	25	25	25	150	38	12.5	TN... 2204...
		3225 P22	32	32	25	170	38	12.5	
		3232 P22	32	32	32	170	38	16.0	
91°	**WTGNR/L**	**2020 K16**	20	20	20	125	32	25	TN... 1604...
		**2525 M16**	25	25	25	150	32	32	
		2525 M22	25	25	25	150	38	32	TN... 2204...
		3232 P22	32	32	32	170	38	40	

Spare parts

Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench	
							
...16	WC 33	WCS 4	WSR 4	WST 33	WSS 33	L-W 3, L-W 2.5	
...22	WC 43	WCS 4	WSR 4	WST 43	WSS 43	L-W 3	

WTJNR/L

Wedge clamp type holders



WTJNR

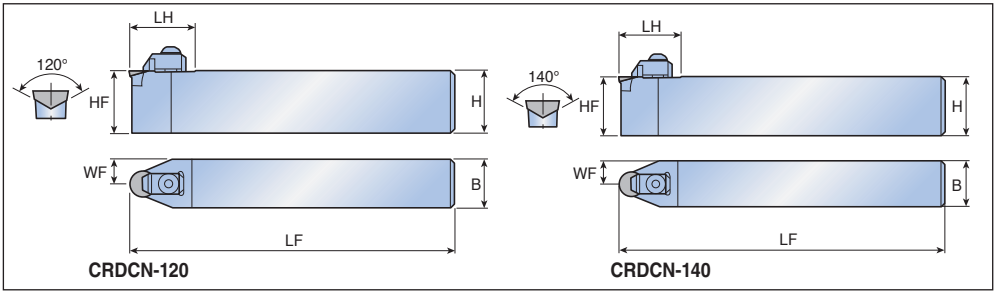
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	WTJNR/L	2020 K16	20	20	20	125	32	25	TN... 1604...
		2525 M16	25	25	25	150	32	32	A249-A252, A301, A309
		3225 P16	32	32	25	170	32	32	
		3232 P16	32	32	32	170	38	40	
		2525 M22	25	25	25	150	38	32	TN... 2204...
		3232 P22	32	32	32	170	38	40	

Spare parts

Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench	
...16	WC 33	WCS 4	WSR 4	WST 33	WSS 33	L-W 3, L-W 2.5	
...22	WC 43	WCS 4	WSR 4	WST 43	WSS 43	L-W 3	

CRDCN

Top clamp type holders for V bottom insert



Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
45°	CRDCN	2525 M06-120	25	25	25	150	28	12.5	RCGX 0606...	A303
		3225 P06-120	32	32	25	170	28	12.5		
		3225 P09-120	32	32	25	170	30	12.5	RCGX 0907...	
		3225 P12-120	32	32	25	170	32	12.5	RCGX 1207...	
45°	CRDCN	2525 M06-140	25	25	25	150	28	12.5	RCGX 0603...FT	A314
		3225 P06-140	32	32	25	170	28	12.5		
		3225 P09-140	32	32	25	170	30	12.5	RCGX 0903...FT	
		3225 P12-140	32	32	25	170	32	12.5	RCGX 1204...FT	

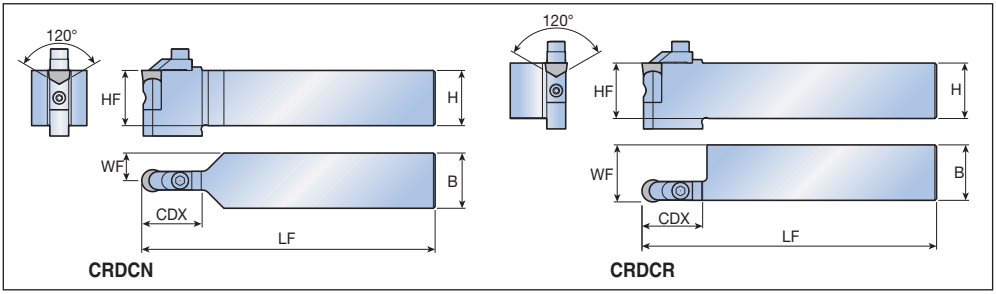
Spare parts

Designation	Clamp	Clamp screw	Shim	Shim screw		Wrench	
...06-120	BCL 6-20A	BH M6x1x25	CERS 06	SO 22050I	-	L-W 4	T 7
...09-120	BCL 6-20A	BH M6x1x25	CERS 09	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-
...12-120	BCL 6	BH M6x1x25	CERS 12	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-
...06-140	BCL 6-20A	BH M6x1x25	CBRS 06	SO 22050I	-	L-W 4	T 7
...09-140	BCL 6-20A	BH M6x1x25	CBRS 09	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-
...12-140	BCL 6	BH M6x1x25	CBRS 12	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-

CRDCN-T CRDCR/L-T

T-TURN

Narrow top clamp type holders for V bottom insert



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	CDX	WF	
45°	CRDCN	3232 P0907-120-T30	32	32	32	170	30	16	RCGX 0907…
		3232 P1207-120-T35	32	32	32	170	35	16	RCGX 1207…
45°	CRDCR/L	3232 P0907-120-T30	32	32	32	170	30	32.8	RCGX 0907…
	CRDCR	3225 P0907-120-T30	32	32	25	170	30	32.8	
	CRDCL	3232 P1207-120-T35	32	32	32	170	35	32.9	RCGX 1207…

A303

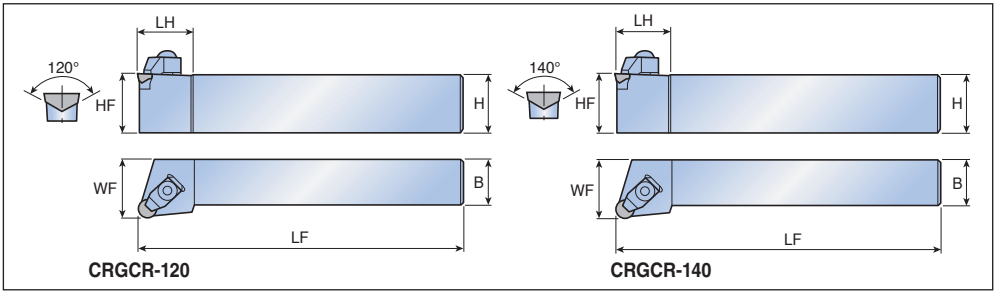
A314

Spare parts

Designation	Clamp	Clamp screw	Shim	Shim screw	Wrench	
...0907...	HCL 09-M	SH M5X0.8X12	CERS 09-T	SO 35124I	L-W 4	T 15
...1207...	HCL 12-M	SH M6X1X16	CERS 12-T	TS 40140AJ/HG	L-W 5	T 20

CRGCR/L

Top clamp type holders for V bottom insert



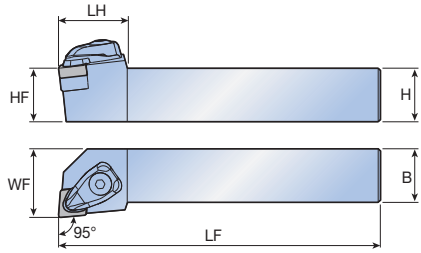
Approach angle	Designation		Dimension (mm)						Insert	
			H	HF	B	LF	LH	WF		
90°	**CRGCR/L**	**2525 M06-120**	25	25	25	150	28	32	RCGX 0606...	A303
		3225 P06-120	32	32	25	170	28	32		
		3225 P09-120	32	32	25	170	30	32	RCGX 0907...	
		3225 P12-120	32	32	25	170	32	32	RCGX 1207...	
90°	**CRGCR/L**	**3225 P06-140**	32	32	25	170	28	32	RCGX 0603...FT	A314
		3225 P09-140	32	32	25	170	30	32	RCGX 0903...FT	
		3225 P12-140	32	32	25	170	32	32	RCGX 1204...FT	

Spare parts

Designation	Clamp	Clamp screw	Shim	Shim screw		Wrench	
...06...	BCL 6-20A	BH M6x1x25	CERS 06	SO 22050I	-	L-W 4	T 7
...09...	BCL 6-20A	BH M6x1x25	CERS 09	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-
...12...	BCL 6	BH M6x1x25	CERS 12	-	BH M2.5x0.45x10	L-W 4, L-W 1.5	-

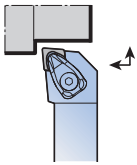
CCLNR/L-F

Combi Clamp Top holders for flat inserts



CCLNR-F

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
95°	**CCLNR/L 2525 M1204-F**	25	25	25	150	32	32	CNGN 1204... A293, A294, A305

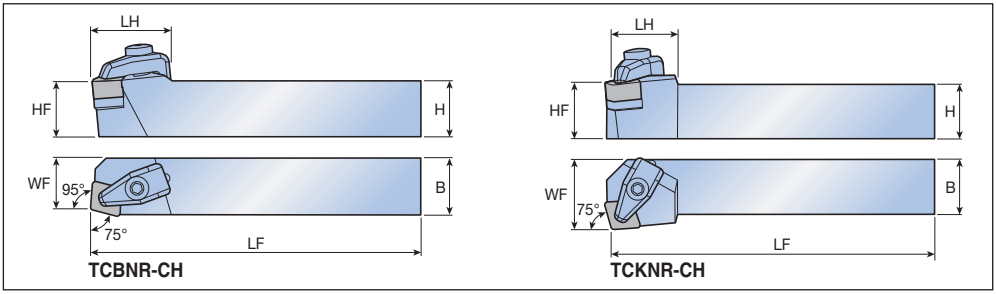


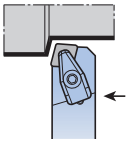
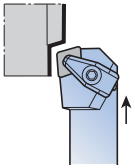
Spare parts

Designation	Clamp set	Shim	Shim screw	Wrench			
CCLNR/L...-F	CCL S-4F	TSC 44	SO 40050I	L-W 4	T 15		

TCBNR/L-CH TCKNR/L-CH

T-holders for CH dimple insert



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
75°	**TCBNR/L 2525 M12-CH**	25	25	25	150	34.7	23	CNGX 1207...CH A294
	**3225 P12-CH**	32	32	25	170	34	24	
75°	**TCKNR/L 2525 M12-CH**	25	25	25	150	28	32	
								

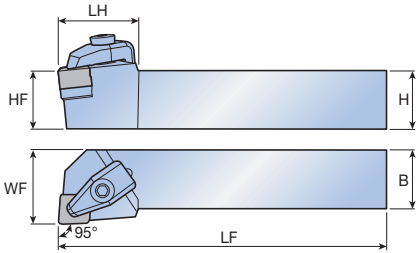
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...12-CH	CCL-4	CSC 4	DSP 5	TSC 43	SO 40050I	L-W 4	T 15

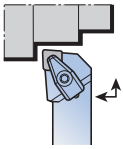
TCLNR/L-CH

T-TURN

T-holders for CH dimple insert



TCLNR-CH

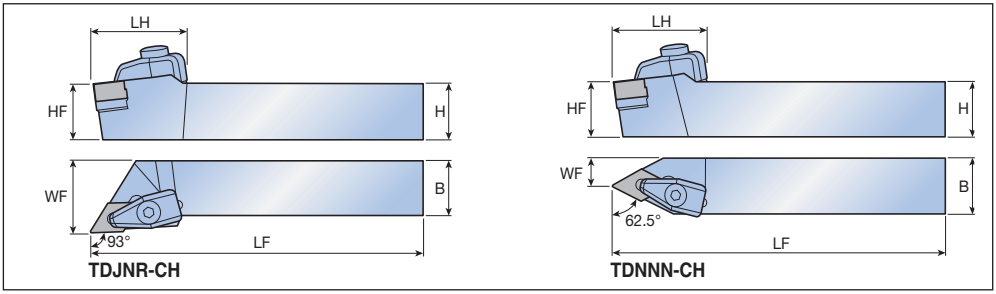
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
95°	**TCLNR/L**	**2525 M12-CH**	25	25	25	150	33	32	CNGX 1207...CH A294
		**3225 P12-CH**	32	32	25	170	33	32	

Spare parts

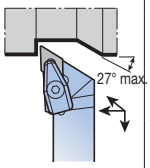
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...12-CH	CCL-4	CSC 4	DSP 5	TSC 43	SO 40050I	L-W 4	T 15

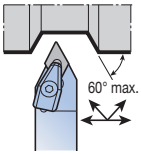
TDJNR/L-CH TDNNN-CH

T-holders for CH dimple insert



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**TDJNR/L**	**2525 M15-CH**	25	25	25	150	38	32	DNGX 1507...CH A295
		3225 P15-CH	32	32	25	170	38	32	
62.5°	**TDNNN**	**2525 M15-CH**	25	25	25	150	40	12.5	





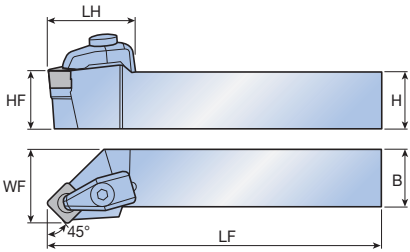
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...15-CH	CCL-4	CSC 4	DSP 5	TSD 43	SO 40050I	L-W 4	T 15

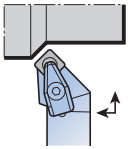
TSSNR/L-CH

T-TURN

T-holders for CH dimple insert



TSSNR-CH

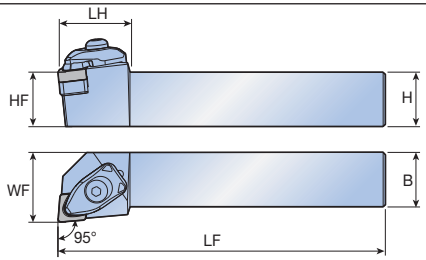
Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
45°	**TSSNR/L 2525 M12-CH**	25	25	25	150	35	32	SNGX 1207...CH A299
	**3232 P12-CH**	32	32	32	170	35	40	
	3225 P15-CH	32	32	25	170	35	32	SNGX 1507...CH

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw		Wrench	
								
...12-CH	CCL-4	CSC 4	DSP 5	TSS 43	SO 40050I	-	L-W 4	T 15
...15-CH	CCL-4	CSC 4	DSP 5	S 50	-	BH M5x0.8x10	L-W 4, L-W 3	-

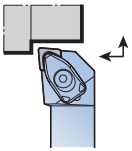
TCLNR/L-DA

Combi clamp T-holders for DA dimple inserts



TCLNR-DA

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
95°	**TCLNR/L 2525 M1204-DA**	25	25	25	150	33	32	CNGX 1204…DA A305



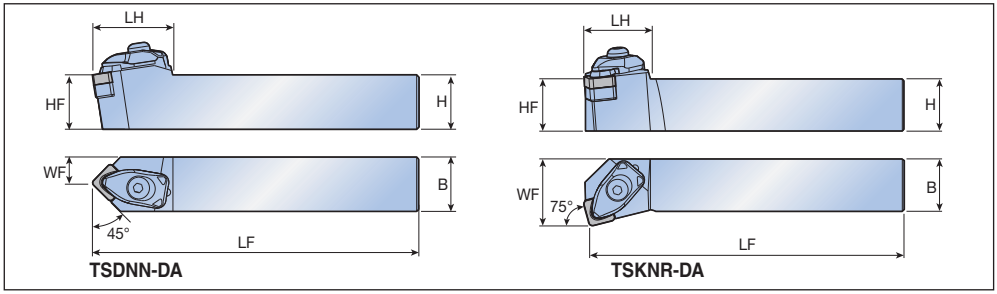
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...1204-DA	DCL S-4DA	DLS 5	DSP 5	TSC 44	SO 40050I	L-W 4	T 15

TSDNN-DA TSKNR/L-DA

T-TURN

Combi clamp T-holders for DA dimple inserts



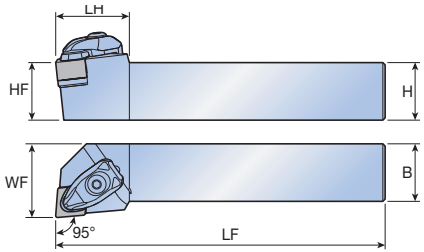
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
45°	**TSDNN**	**2525 M1204-DA**	25	25	25	150	37	12.5	SNGX 1204…DA A308
75°	**TSKNR/L**	**2525 M1204-DA**	25	25	25	150	29	32	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1204-DA	DCL S-4DA	DLS 5	DSP 5	TSS 44	SO 40050I	L-W 4	T 15	

TCLNR/L-F

Combi clamp T-holders for flat inserts



TCLNR -F

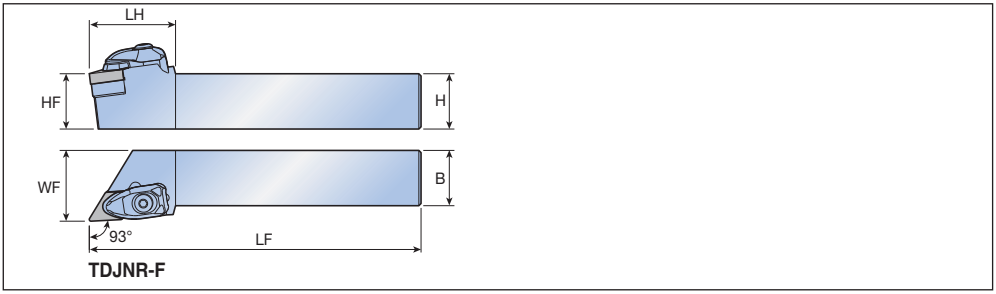
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
95°	TCLNR/L	2525 M0903-F	25	25	25	150	25	32	CN...N 0903...
		2020 K1204-F	20	20	20	125	32	25	CN...N 1204... A293, A294, A305
		2525 M1204-F	25	25	25	150	32	32	
		2020 K1207-F	20	20	20	125	32	25	CN...N 1207...
		2525 M1207-F	25	25	25	150	32	32	
		3232 P1207-F	32	32	32	170	32	40	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...0903-F	DCL S-3F	DLS 3	DSP 3	LSC 32	SO 40085I	L-W 2.5	T 15	
...1204-F	DCL S-4F	DLS 4	DSP 4	TSC 44	SO 40050I	L-W 3	T 15	
...1207-F	DCL S-4F	DLS 4	DSP 4	TSC 42	SO 40050I	L-W 3	T 15	

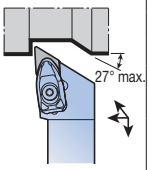
TDJNR/L-F

Combi clamp T-holders for flat inserts



TDJNR-F

Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**TDJNR/L**	**2525 M1504-F**	25	25	25	150	39	32	DN...N 1504...
		2525 M1507-F	25	25	25	150	39	32	DN...N 1507...
		3232 P1507-F	32	32	32	170	39	40	



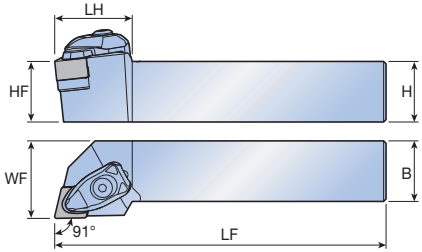
A295

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1504-F	DCL S-4F	DLS 4	DSP 4	TSD 44	SO 40050I	L-W 3	T 15	
...1507-F	DCL S-4F	DLS 4	DSP 4	TSD 42	SO 40050I	L-W 3	T 15	

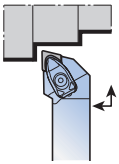
TEGNR/L-F

Combi clamp T-holders for flat inserts



TEGNR-F

Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
91°	**TEGNR/L 2525 M1307-F**	25	25	25	150	32	32	EN...N 1307... A296



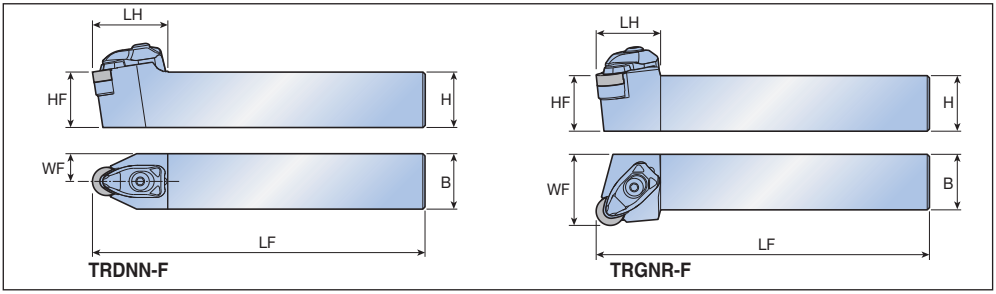
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1307-F	DCL S-4F	DLS 4	DSP 4	E 43	BH M5x0.8x10	L-W 3		

TRDNN-F TRGNR/L-F

T-TURN

Combi clamp T-holders for flat inserts



Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
45°	**TRDNN**	**2525 M0903-F**	25	25	25	150	27	12.5	RN...N 0903...
		2020 K1204-F	20	20	20	125	34	10	RN...N 1204...
		2525 M1204-F	25	25	25	150	34	12.5	
		2020 K1207-F	20	20	20	125	34	10	RN...N 1207...
		2525 M1207-F	25	25	25	150	34	12.5	
		3225 P1207-F	32	32	25	170	34	12.5	
		3232 P1207-F	32	32	32	170	34	16	
90°	**TRGNR/L**	**2525 M0903-F**	25	25	25	150	29	32	RN...N 0903...
		2020 K1204-F	20	20	20	125	29	25	RN...N 1204...
		2525 M1204-F	25	25	25	150	29	32	
		2020 K1207-F	20	20	20	125	29	25	RN...N 1207...
		2525 M1207-F	25	25	25	150	29	32	
		3225 P1207-F	32	32	25	170	29	32	
		3232 P1207-F	32	32	32	170	29	40	

A297, A307

15° max.

▸ RN...N 1204/1207 are exchangeable, RN...N 1203 is not exchangeable on same holder

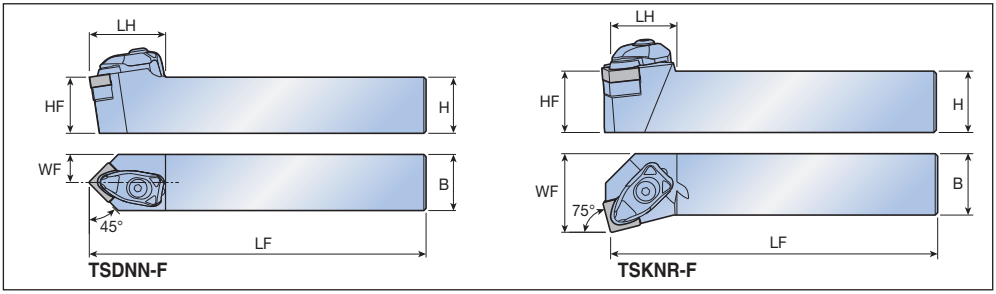
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Wrench	
...0903-F	DCL S-3F	DLS 3	DSP 3	LSR 32	-	SO 40085I	L-W 2.5	T 15
...1204-F	DCL S-4F	DLS 4	DSP 4	-	TSR 45	SO 40050I	L-W 3	T 15
...1207-F	DCL S-4F	DLS 4	DSP 4	-	TSR 43	SO 40050I	L-W 3	T 15

TSDNN-F TSKNR/L-F

T-TURN

Combi clamp T-holders for flat inserts



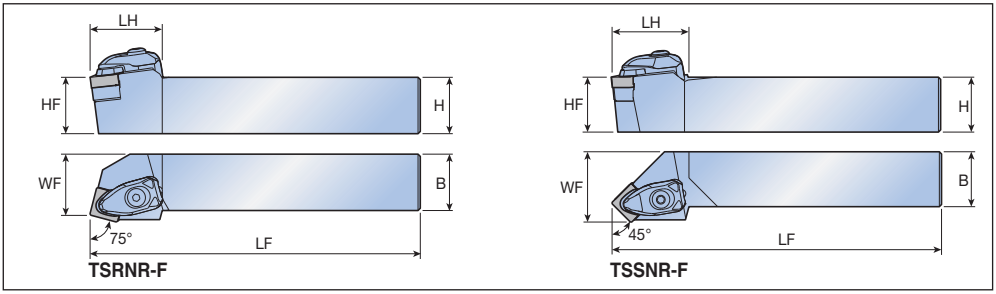
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
45°	**TSDNN**	**2020 K1204-F**	20	20	20	125	34	10	SN...N 1204... A298, A308
		2525 M1204-F	25	25	25	150	34	12.5	
		2525 M1207-F	25	25	25	150	34	12.5	SN...N 1207...
		3225 P1207-F	32	32	25	170	34	12.5	
		3232 P1207-F	32	32	32	170	34	16	
75°	**TSKNR/L**	**2525 M1204-F**	25	25	25	150	27	32	SN...N 1204...
		3232 P1204-F	32	32	32	170	27	40	
		2525 M1207-F	25	25	25	150	27	32	SN...N 1207...
		3232 P1207-F	32	32	32	170	27	40	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1204-F	DCL S-4F	DLS 4	DSP 4	TSS 44	SO 40050I	L-W 3	T 15	
...1207-F	DCL S-4F	DLS 4	DSP 4	TSS 42	SO 40050I	L-W 3	T 15	

TSRNR/L-F TSSNR/L-F

Combi clamp T-holders for flat inserts



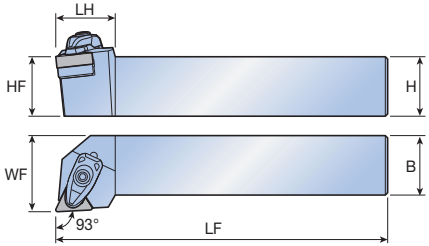
Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
75°	TSRNR/L	2525 M1204-F	25	25	25	150	32	27	SN...N 1204...
		3232 P1204-F	32	32	32	170	32	35	A298, A308
		2525 M1207-F	25	25	25	150	32	27	SN...N 1207...
		3225 P1207-F	32	32	25	170	32	27	
		3232 P1207-F	32	32	32	170	32	35	
45°	TSSNR/L	2525 M1204-F	25	25	25	150	35	32	SN...N 1204...
		3232 P1204-F	32	32	32	170	35	40	
		2525 M1207-F	25	25	25	150	35	32	SN...N 1207...
		3232 P1207-F	32	32	32	170	35	40	

Spare parts

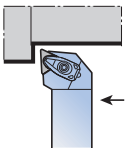
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1204-F	DCL S-4F	DLS 4	DSP 4	TSS 44	SO 40050I	L-W 3	T 15	
...1207-F	DCL S-4F	DLS 4	DSP 4	TSS 42	SO 40050I	L-W 3	T 15	

TTJNR/L-F

Combi clamp T-holders for flat inserts



TTJNR-F

Approach angle	Designation		Dimension (mm)						Insert
			H	HF	B	LF	LH	WF	
93°	**TTJNR/L**	**2020 K1604-F**	20	20	20	125	25	25	TN...N 1604... A301
		**2525 M1604-F**	25	25	25	150	25	32	
		2020 K1607-F	20	20	20	125	25	25	TN...N 1607...
		2525 M1607-F	25	25	25	150	25	32	

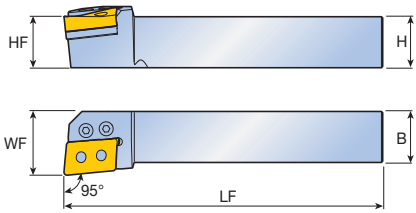
▸ TNGN 1604/1607 Inserts are not exchangable on same holder

Spare parts

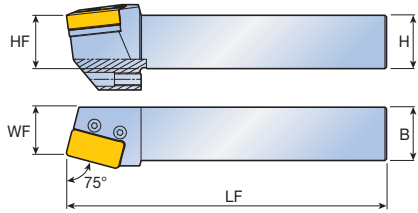
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
								
...16-F	DCL S-3F	DLS 3	DSP 3	TST 33	SO 40050I	L-W 3	T 15	

2PLLNR/L 2PLBNR/L

Lever lock type holders with two pins



2PLLNR



2PLBNR

Approach angle	Designation		Dimension (mm)					Insert
			H	HF	B	LF	WF	
95°	**2PLLNR/L**	**4040 S4012**	40	40	40	250	50	LNMM 4012...HX
		5050 T4012	50	50	50	300	60	
75°	**2PLBNR/L**	**5050 T5014**	50	50	50	300	45	LNMX 5014...

A289

Spare parts

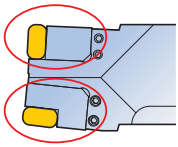
Designation	Lever	Screw	Shim	Shim pin	Set screw	Wrench	
2PLLNR/L...	LCL 8	LCS 8-L39	LN 4025-T6.35-R/L	LSP 8	-	L-W 5	
2PLBNR/L...	LCL 8	LCS 8-L43	LN 5025-T6.35	LSP 8	SS M12x1.75x25	L-W 5	

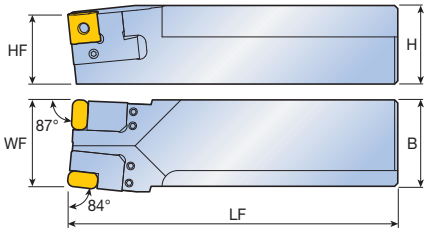
TRWR/L

TOP-RAIL holders

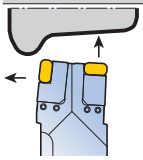
TRWR 177-CA-19

TRWR 175-CA-19
TRWR 175-CA-30



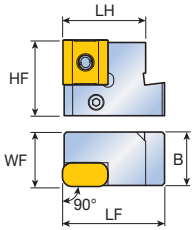


TRWR

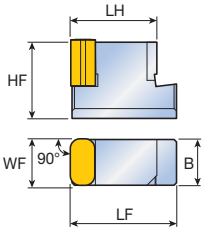
Approach angle	Designation	Dimension (mm)					Cartridge
		H	HF	B	LF	WF	
	* TRWR/L 50-55 TG	50	44	55	210	55	Left TRWR/L 175-CA-19 TRWR/L 175-CA-30  Right TRWR/L 177-CA-19 

▸ *: Cartridges are not included in TOP-RAIL holder, please order separately.

TOP-RAIL cartridges



TRWR 175-CA-19
TRWR 175-CA-30



TRWR 177-CA-19

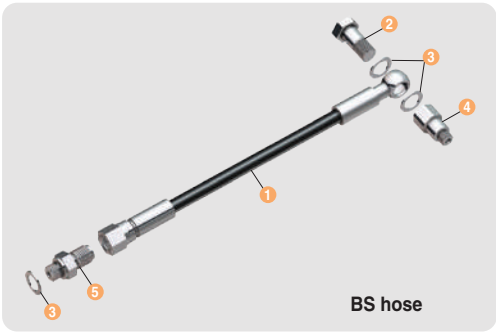
Designation	Dimension (mm)					Insert
	HF	B	LF	LH	WF	
TRWR/L 175-CA-19	32	22.6	43	35	23	LNMX 1919...
175-CA-30	32	22.6	43	35	23	LNMX 3019...
177-CA-19	32	18.6	43	35	19	LNMX 1919...

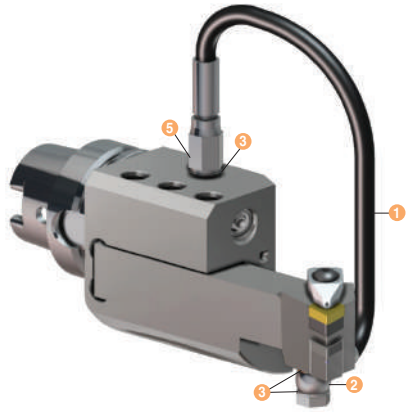

A290

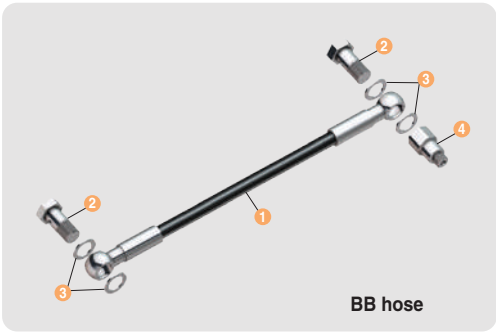
Spare parts

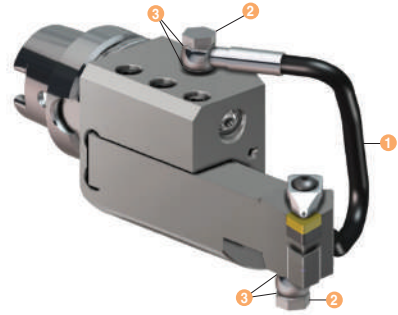
Designation	Screw	Pin	Lever	Screw	Wrench			
								
...50-55 TG	SS M6x1x16	PIN D5x13	-	-	L-W 3			
...CA...	-	-	LCL 5	LCS 5	L-W 3			

Coolant hose guide









(CXT) Coolant exit thread size	(CNT) Coolant entry thread size	Hose	Bolt	Washer	Connector	Adaptor
5/16”	G1/8”	TB HOSE G1/8-7/16-200BS TB HOSE G1/8-7/16-250BS	G1/8”	G1/8”	TB CONECTOR 5/16”-G1/8” TB CONECTOR 5/16”-G1/8”-12	TB NIPPLE G1/8-7/16 UNF
G1/8”					X (no need)	
5/16”		TB HOSE G1/8-G1/8-200BB TB HOSE G1/8-G1/8-250BB			TB CONECTOR 5/16”-G1/8” TB CONECTOR 5/16”-G1/8”-12	X (no need)
G1/8”					X (no need)	
5/16”		TB HOSE 5/16-7/16-200BS	5/16”	5/16”	X (no need)	TB NIPPLE G1/8-7/16 UNF
	7/16-20 UNF (Flare 37°)	TB HOSE 5/16-G1/8-200BS				TB NIPPLE G1/8-7/16 UNF

Accessories

Hose

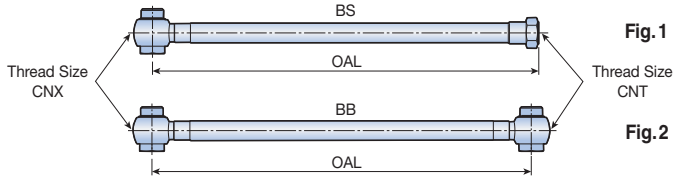


Fig.1

Fig.2

Designation	Dimension				Fig.
	OAL (mm)	CXT	CNT	Max.pressure (Bar)	
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

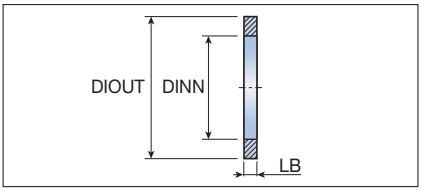
▸ Hose is ordered separately

Spare parts

Designation	Bolt	Seal washer
		
TB HOSE 5/16-7/16-200BS	TB BANJO BOLT 5/16" UNF	TB COPPER SEAL 5/16"
TB HOSE G1/8-G1/8-200BB	TB BANJO BOLT G1/8"	TB COPPER SEAL 1/8"
TB HOSE G1/8-G1/8-250BB	TB BANJO BOLT G1/8"	TB COPPER SEAL 1/8"

▸ Bolt and Seal washer are ordered separately

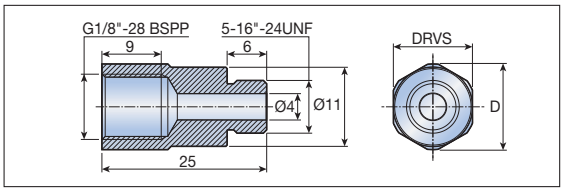
Seal washer



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

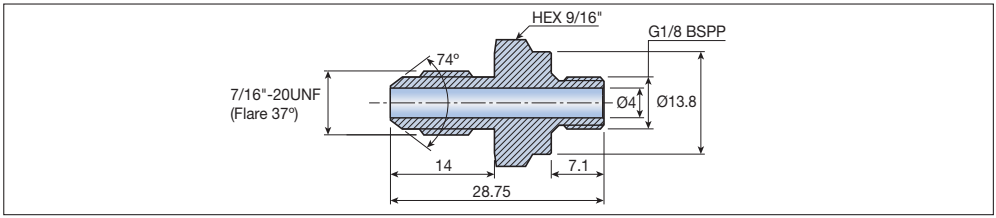
Connector



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

▸ Connector is ordered separately

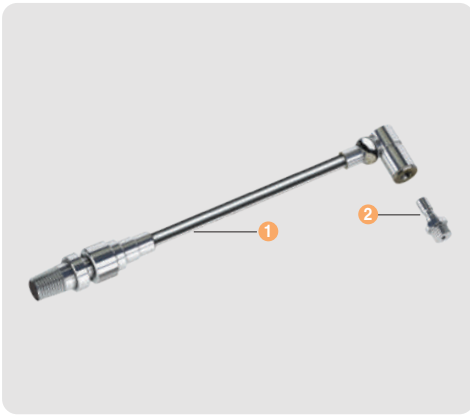
Adapter

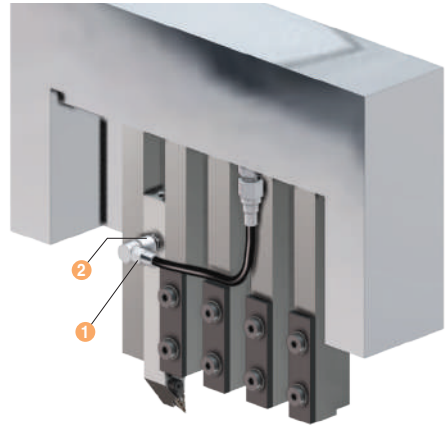


Designation
TB NIPPLE G1/8-7/16 UNF

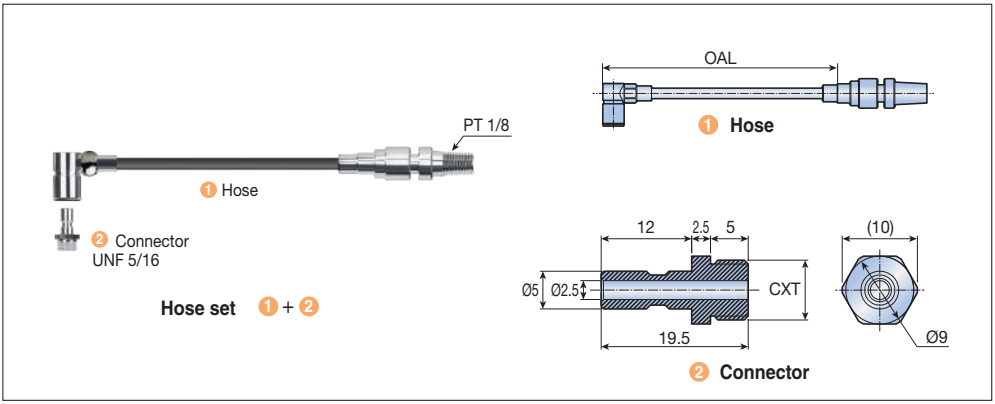
▸ Adapter is ordered separately

Hose set





Coupling system

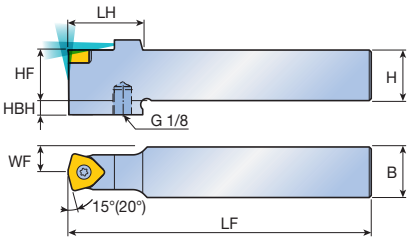


Components	Designation		Dimension		
			OAL (mm)	CXT	Maximum pressure (Bar)
Hose set	**S-TB HOSE**	**R1/8-COUPLE-100**	100	5/16"-24 UNF	140
		R1/8-COUPLE-200	200	5/16"-24 UNF	140
		R1/8-COUPLE-300	300	5/16"-24 UNF	140
Hose	**TB HOSE**	**R1/8-COUPLE-200**	200	-	140
		R1/8-COUPLE-300	300	-	140
Connector	**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+Connector)
- Hose set contains TB HOSE+TB CONECTOR 5/16-COUPLE.
- Hose set, hose and connector are ordered separately

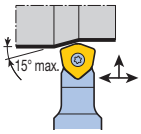
SFXCN

Screw type holders for FCMX high feed inserts



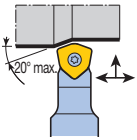
SFXCN

Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	HBH	
15°	**SFXCN**	**2525 M1006**	25	25	25	150	37	12.5	7	FCMX 1006... A272
		3232 P1006	32	32	32	170	37	16	-	



FCMX HFG

20°



FCMX HFP

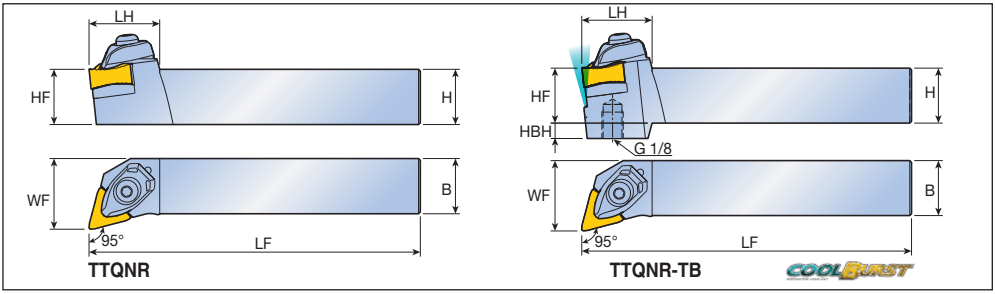
Spare parts

Designation	Screw	Wrench						
								
...1006	SO 45130I	T 20						

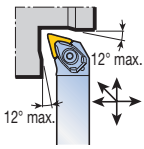
▸ Please refer to A128-A130 page for COOL-BURST accessories

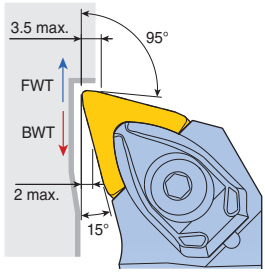
TTQNR/L TTQNR/L-TB

T-holders

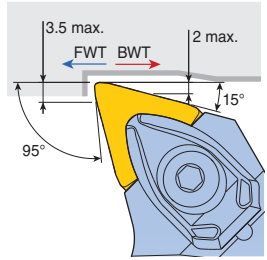


Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	HBH	
95°	**TTQNR/L**	**2525 M2109**	25	25	25	150	32	32	-	TNMV 2109... A258
		3232 P2109	32	32	32	170	32	40	-	
	TTQNR/L	**2525 M2109-TB**	25	25	25	150	32	32	7	
		3232 P2109-TB	32	32	32	170	32	40	-	





Facing



Ext.Turning

- BWT: Backward turning
- FWT: Forward turning

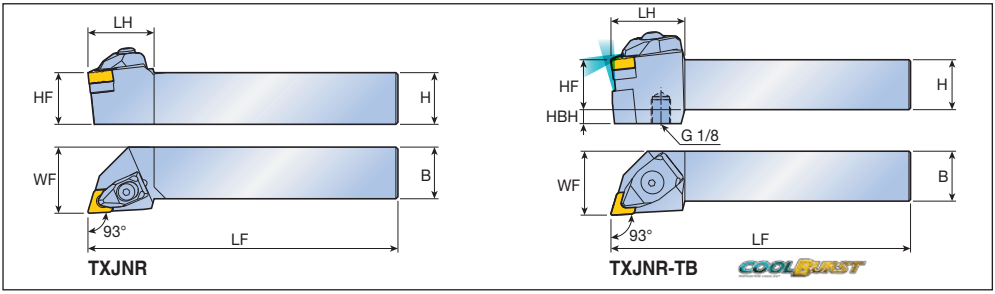
Spare parts

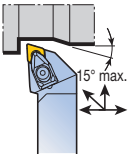
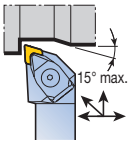
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
...2109	DLM 4.4T-NV	DLS 5	DSP 5	TSTV 210510	TS 35083I/HG	L-W 4	T 10
...2109-TB	DLM 4.4T-NV	DLS 5	DSP 5	TSTV 210510	TS 35083I/HG	L-W 4	T 10

- Please refer to A128-A130 page for COOL-BURST accessories

TXJNR/L TXJNR/L-TB

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBH	
93°	**TXJNR/L 2020 K1105**	20	20	20	125	32	25	-	XNMV 1105... A259
	**2525 M1105**	25	25	25	150	32	32	-	POSSTURN
93°	**TXJNR/L 2525 M1105-TB**	25	25	25	150	37	32	7	
									

Spare parts

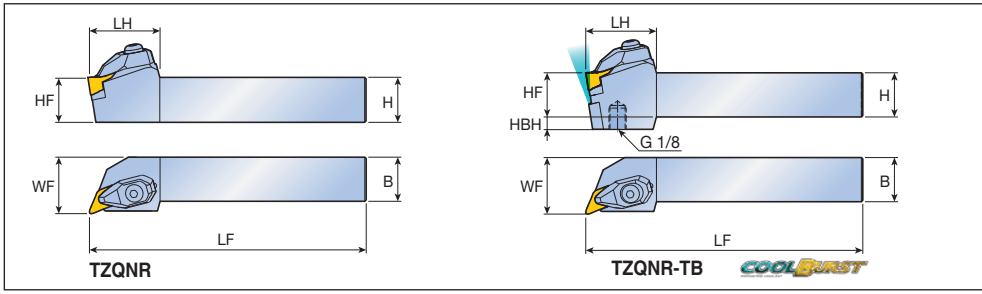
Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
									
...1105	DLM 3.5-NX	DLS 4	DSP 4	-	-	TSX 3.53	SO 50090I	L-W 3	T 20
...1105-TB	DLM 3.5-NX-TB	BH M5x0.8x 21-MO-TB	DSP 4	O-RING ID5.28x 1.78	O-RING ID7.59x 2.62	TSX 3.53	SO 50090I	L-W 3	T 20

▸ Please refer to A128-A130 page for COOL-BURST accessories

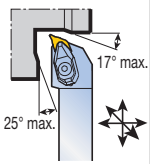
TZQNR/L TZQNR/L-TB

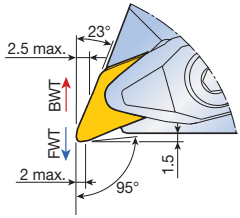
POSSTURN DOUBLE SIDED POSITIVE TURNING

T-holders for ZNMV insert

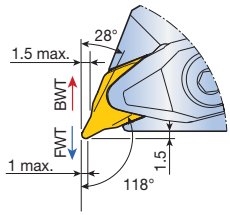


Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	HBH	
ZNMV 23°(BWT) 95°(FWT)	**TZQNR/L**	**2525 M1410**	25	25	25	150	40	32	-	ZNMV 1410…
		3232 P1410	32	32	32	170	40	40	-	A260
	TZQNR/L	**2525 M1410-TB**	25	25	25	150	40	32	7	
		3232 P1410-TB	32	32	32	170	40	40	-	
ZNMV Y-BF 28°(BWT) 118°(FWT)										





ZNMV



ZNMV Y-BF

- BWT: Backward turning
- FWT: Forward turning

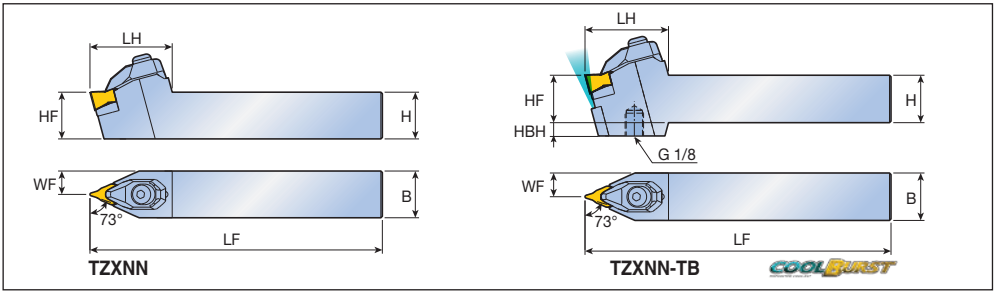
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
...1410	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	TS 35083I/HG	L-W 4	T 10
...1410-TB	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	TS 35083I/HG	L-W 4	T 10

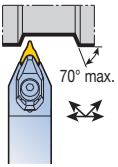
- Please refer to A128-A130 page for COOL-BURST accessories

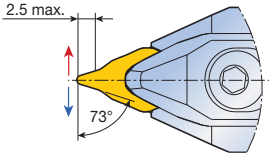
TZXNN TZXNN-TB

T-holders for ZNMV Y-BF insert



Approach angle	Designation		Dimension (mm)							Insert
			H	HF	B	LF	LH	WF	HBH	
73°	**TZXNN**	**2525 M1410**	25	25	25	150	44	12.5	-	ZNMV 1410...Y-BF
		3232 P1410	32	32	32	170	44	16	-	A260
	TZXNN	**2525 M1410-TB**	25	25	25	150	44	12.5	7	
		3232 P1410-TB	32	32	32	170	44	16	-	





Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...1410	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	TS 35083I/HG	L-W 4	T 10
...1410-TB	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	TS 35083I/HG	L-W 4	T 10

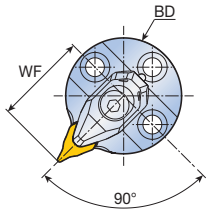
▸ Please refer to A128-A130 page for COOL-BURST accessories

QH40Y-TZXNN-TB QH40Y-TTXNN-TB

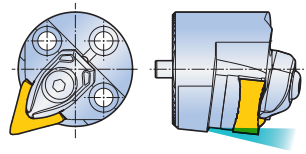
HUSH BORE ANTI VIBRATION BAR

Y-axis turning heads

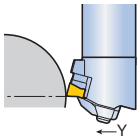
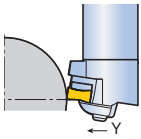




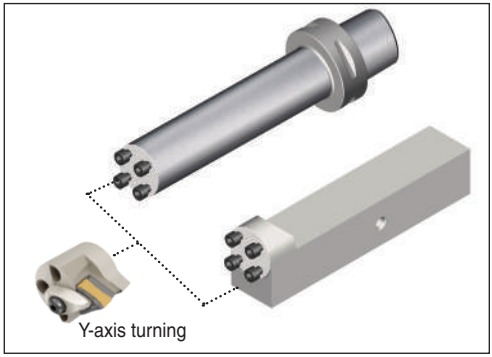
Rotation range
QH40Y-TZXNN-TB

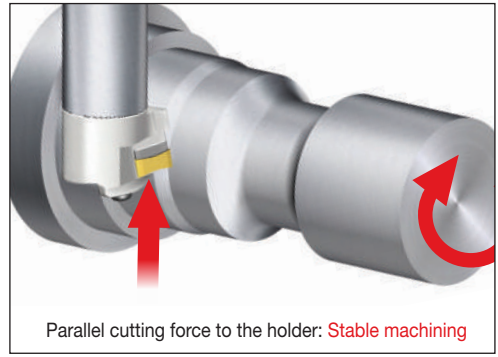


Rotation range
QH40Y-TTXNN-TB

Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	BD	
	**QH40Y-TZXNN-1410-TB**	40	30	32	40	ZNMV 1410...Y-... A260
	**QH40Y-TTXNN-2109-TB**	40	30	32	40	TNMV 2109... A258

▸ Only ZNMV 1410...Y-BF inserts available





▸ Please refer to A223-A224 page for HUSH-BORE shanks

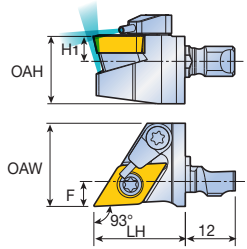
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Wrench	
								
TZ...1410-TB	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	-	TS 35083I/HG	L-W 4	T 10
TT...2109-TB	DLM 4.4T-NV	DLS 5	DSP 5	-	TSTV 210510	TS 35083I/HG	L-W 4	T 10

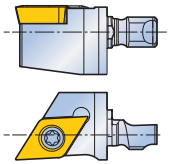
QE1 SDJCR QE1 SDJCR-TB

Screw type modular heads for external turning



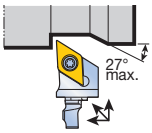


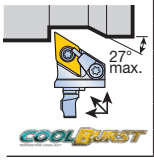
QE1 SDJCR-TB



QE1 SDJCR

Approach angle	Designation	Dimension (mm)					Shank	Insert
		OAH	LH	OAW	H1	F		
93°	**QE1 SDJCR 11**	16.2	22.0	16.2	6.0	7.0	QE1 S12N-TB QE1 S16R-TB	DC... 11T3... A267-A270, A313
93°	**QE1 SDJCR 11-TB**	16.2	22.0	20.0	6.0	7.0		

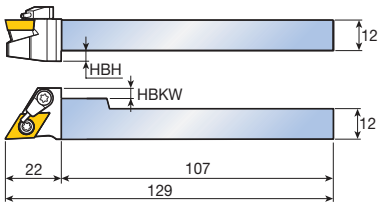




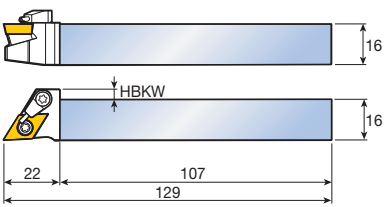
Spare parts

Designation	Screw	Cooling unit	Wrench			
						
...11	SO 35080I	-	T 15			
...11-TB	SO 35080I	S-CU-TB	T 15			

Assembly



Head + QE1 S12N-TB



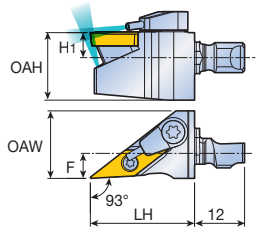
Head + QE1 S16R-TB

Designation	QE1 S12N-TB		QE1 S16R-TB	
	HBH	HBKW	HBH	HBKW
QE1 SDJCR 11	4.2	4.2	-	-
QE1 SDJCR 11-TB	4.2	8	-	4

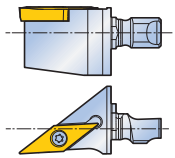
QE1 SVJBR QE1 SVJBR-TB

Screw type modular heads for external turning

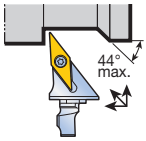
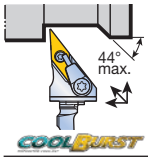




QE1 SVJBR-TB



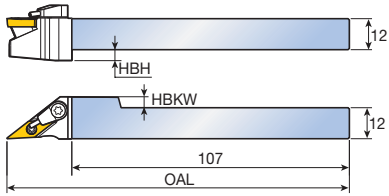
QE1 SVJBR

Approach angle	Designation	Dimension (mm)					Shank	Insert
		OAH	LH	OAW	H1	F		
93°	**QE1 SVJBR 11**	16.2	22.0	16.2	6.0	7.0	QE1 S12N-TB QE1 S16R-TB	VB.. 1103.. A283, A284, A317
								
93°	**QE1 SVJBR 11-TB**	16.2	25.0	16.2	6.0	7.0		
								

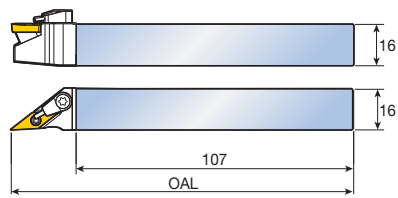
Spare parts

Designation	Screw	Cooling unit	Wrench			
						
...11	SO 25065I	-	T 7			
...11-TB	SO 25065I	S-CU-TB	T 7			

Assembly



Head + QE1 S12N-TB



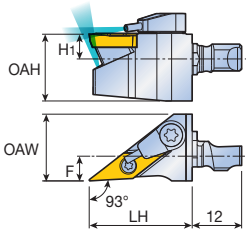
Head + QE1 S16R-TB

Designation	QE1 S12N-TB			QE1 S16R-TB		
	HBH	HBKW	OAL	HBH	HBKW	OAL
QE1 SVJBR 11	4.2	4.2	129	-	-	129
QE1 SVJBR 11-TB	4.2	4.2	132	-	-	132

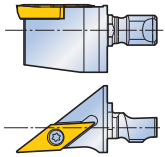
QE1 SVJCR QE1 SVJCR-TB

Screw type modular heads for external turning

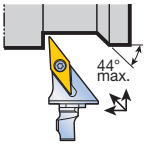
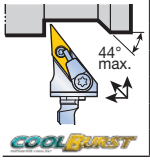




QE1 SVJCR-TB



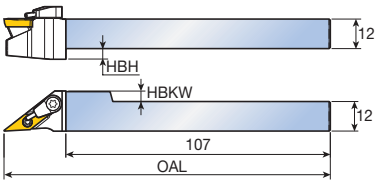
QE1 SVJCR

Approach angle	Designation	Dimension (mm)					Shank	Insert
		OAH	LH	OAW	H1	F		
93°	**QE1 SVJCR 11**	16.2	22.0	16.2	6.0	7.0	QE1 S12N-TB QE1 S16R-TB	VC... 1103... A285, A286, A317
								
93°	**QE1 SVJCR 11-TB**	16.2	25.0	16.2	6.0	7.0		
								

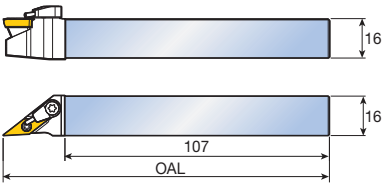
Spare parts

Designation	Screw	Cooling unit	Wrench			
						
...11	SO 25065I	-	T 7			
...11-TB	SO 25065I	S-CU-TB	T 7			

Assembly



Head + QE1 S12N-TB



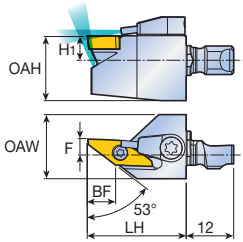
Head + QE1 S16R-TB

Designation	QE1 S12N-TB			QE1 S16R-TB		
	HBH	HBKW	OAL	HBH	HBKW	OAL
QE1 SVJCR 11	4.2	4.2	129	-	-	129
QE1 SVJCR 11-TB	4.2	8	132	-	-	132

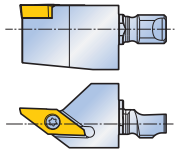
QE1B SVXCR QE1B SVXCR-TB

Screw type modular heads for back turning

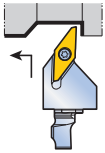
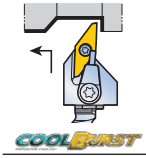




QE1B SVXCR-TB



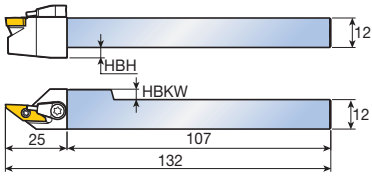
QE1B SVXCR

Approach angle	Designation	Dimension (mm)						Shank	Insert
		OAH	LH	OAW	BF	H1	F		
53°	**QE1B SVXCR 11**	16.2	25.0	16.2	7.2	6.0	3.0	QE1 S12N-TB QE1 S16R-TB	BTVC 1103.. A261
									
53°	**QE1B SVXCR 11-TB**	16.2	25.0	16.2	7.2	6.0	3.0		
									

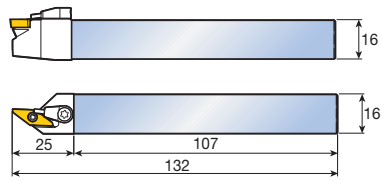
Spare parts

Designation	Screw	Cooling unit	Wrench			
						
...11	SO 25065I	-	T 7			
...11-TB	SO 25065I	S-CU-TB	T 7			

Assembly



Head + QE1 S12N-TB



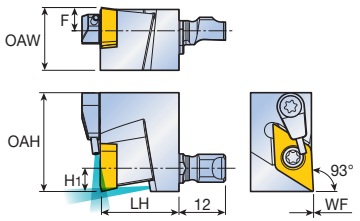
Head + QE1 S16R-TB

Designation	QE1 S12N-TB		QE1 S16R-TB	
	HBH	HBKW	HBH	HBKW
QE1 SVXCR 11	4.2	4.2	-	-
QE1 SVXCR 11-TB	4.2	4.2	-	-

QE1Y SDJCR QE1Y SDJCR-TB

Screw type Y-axis modular heads





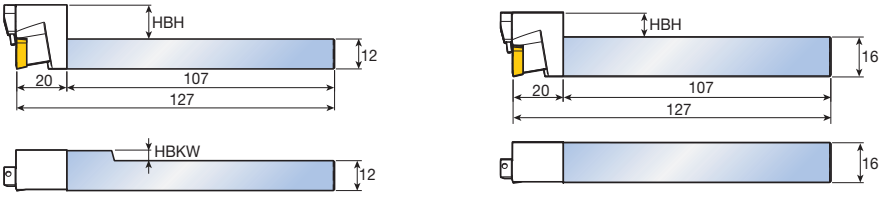
QE1Y SDJCR-TB QE1Y SDJCR

Approach angle	Designation	Dimension (mm)						Shank	Insert
		OAW	OAH	LH	WF	H1	F		
93°	**QE1Y SDJCR 11**	16.2	20.0	20.0	0.0	6.0	7.0	QE1 S12N-TB QE1 S16L-TB	DC.. 11T3.. A267-A270, A313
93°	**QE1Y SDJCR 11-TB**	16.2	25.5	20.0	0.0	6.0	7.0		

Spare parts

Designation	Screw	Cooling unit	Wrench			
...11	SO 35080I	-	T 15			
...11-TB	SO 35080I	S-CU-TB	T 15			

Assembly



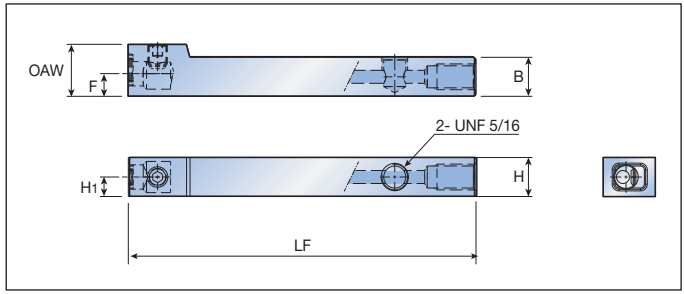
Head + QE1 S12N-TB Head + QE1 S16L-TB

Designation	QE1 S12N-TB		QE1 S16L-TB	
	HBH	HBKW	HBH	HBKW
QE1 SDJCR 11	8	4.2	4	-
QE1 SDJCR 11-TB	13.5	4.2	9.5	-

QE1 S12N-TB

High pressure coolant shanks for WIN-SWISS modular head





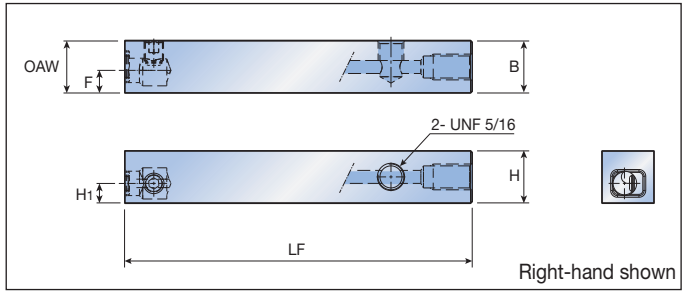
Designation	Dimension (mm)						Modular head
	H	H1	B	LF	OAW	F	
QE1 S12N-TB	12	6	12	107	16	7	QE1...R/L(-TB) A139-A141

▸ Please refer to A128-A130 page for COOL-BURST accessories

QE1 S16R/L-TB

High pressure coolant shanks for WIN-SWISS modular head





Designation	Dimension (mm)						Modular head
	H	H1	B	LF	OAW	F	
QE1 S16R/L-TB	16	6	16	107	16	7	QE1...R/L(-TB) A137-A141

▸ Please refer to A128-A130 page for COOL-BURST accessories

Spare parts

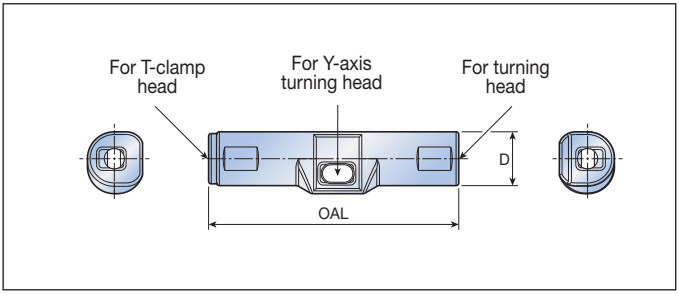
Designation	Screw	Plug	Wrench	
QE1 ...-TB	* SS M6F-7	PLG 5/16 UNF	L-W 3	L-W 5/32

▸ *: Recomended tightening torque 5.9 Nm

QE1 FIX-20100

Insert replacement fixture





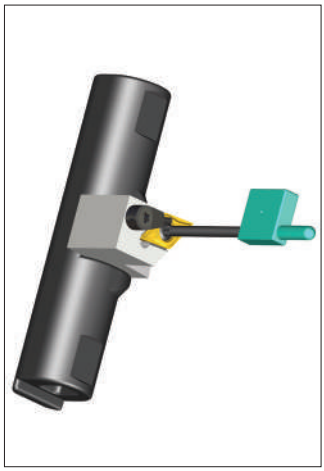
Designation		Dimensions (mm)	
		OAL	D
QE1	**FIX-20100**	93.0	20.0

▸ Fixture ordered seperately

Insert replacement

▸ Due to the WIN-SWISS' small head sizes, replacing the inserts could be difficult.
Please use the fixture to facilitate insert replacement.

▸ Y-axis turning head



▸ T-clamp head



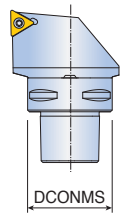
▸ Turning head



C-ADAPTER Designation System

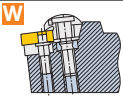
C4	-	T	C	L	N	R
1		2	3	4	5	6

1 Coupling size

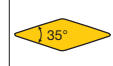


Symbol	DCONMS(mm)
C4	40
C5	50
C6	63

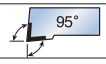
2 Clamping system

P	C	S	M	T	W	H
						
Lever lock	Top clamp	Screw clamp	Multi lock	T-holder	Wedge clamp	Hook lever

3 Insert shape

C	D	E	H	K	R	S	T	V	W	X	Z
											

4 Approach angle

Symbol	Shape	Offset	Symbol	Shape	Offset	Symbol	Shape	Offset
A		×	J		○	V		×
			K		○	W		○
B		×	L		○	X	Special angle	
			M		×	C*		×
D		×	N		×	H*		○
E		×	R		○	Q*		○
F		○	S		○			
G		○	T		○			
			U		○			

* TaeguTec standard

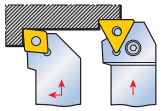
ADVANCE CUTTING TaeguTec

27	055	-	09	
7	8		9	10

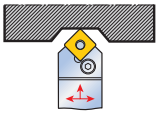
5 Insert clearance angle

			
N	B	C	P

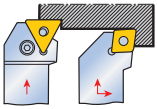
6 Hand of tool



R: Right-hand

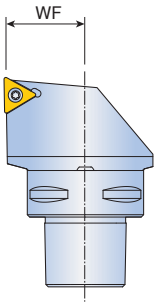


N: Neutral

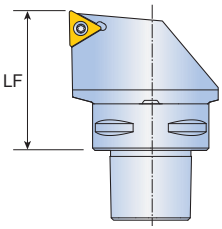


L: Left-hand

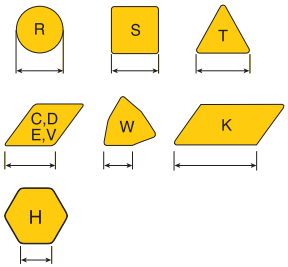
7 WF dimension (mm)



8 Tool length (mm)



9 Cutting edge length



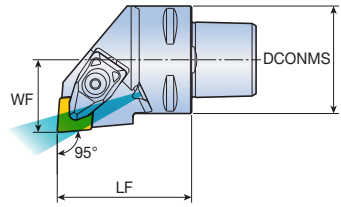
See page A227

10 Manufacturer's type designation

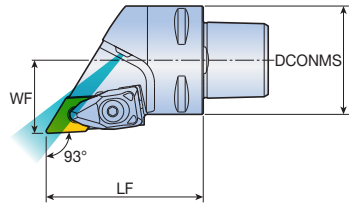
Unique to manufacturer

C…TCLNR/L C…TDJNR/L

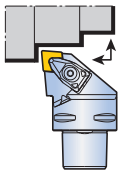
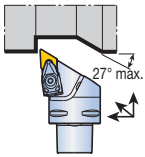
T-holders with C-ADAPTER



C…TCLNR



C…TDJNR

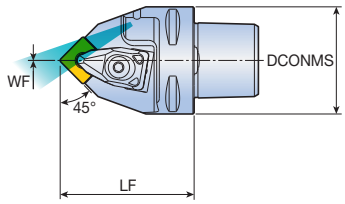
Approach angle	Designation	Dimension (mm)			Insert	
		DCONMS	WF	LF		
95°	**C4-TCLNR/L 27050-12**	40	27	50	CN...1204...	A228, A230-A234, A293, A294, A305
	**C5-TCLNR/L 35060-12**	50	35	60		
	C6-TCLNR/L 45065-12	63	45	65		
	C4-TCLNR/L 27055-16	40	27	55	CN...1606...	
	C5-TCLNR/L 35060-19	50	35	60	CN...1906...	
	C6-TCLNR/L 45065-19	63	45	65		
93°	**C4-TDJNR/L 27058-1504**	40	27	58	DN...1504...	A236-A240, A295, A306
	**C4-TDJNR/L 27058-1506**	40	27	58	DN...1506...	
	C5-TDJNR/L 35060-1504	50	35	60	DN...1504...	
	C5-TDJNR/L 35060-1506	50	35	60	DN...1506...	
	C6-TDJNR/L 45065-1504	63	45	65	DN...1504...	
	C6-TDJNR/L 45065-1506	63	45	65	DN...1506...	

Spare parts

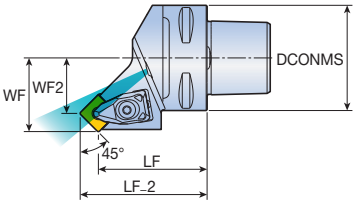
Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Nozzle	Wrench	
									
C4...12	DLM 4	DLS 4	DSP 4	TSC 44	-	SO 40050I	NZ 83	L-W 3	T 15
...12	DLM 4	DLS 4	DSP 4	TSC 44	-	SO 40050I	NZ 104	L-W 3	T 15
...16	DLM 5	DLS 5	DSP 5	TSC 54	-	SO 50090I	NZ 83	L-W 4	T 20
...19	DLM 6	DLS 5	DSP 5	LSC 63	-	SO 80180I	NZ 104	L-W 4	T 20
...1504	DLM 4	DLS 4	DSP 4	-	TSD 44	SO 40050I	NZ 83	L-W 3	T 15
C4...1506	DLM 4	DLS 4	DSP 4	-	TSD 43	SO 40050I	NZ 83	L-W 3	T 15
...1506	DLM 4	DLS 4	DSP 4	-	TSD 43	SO 40050I	NZ 104	L-W 3	T 15

C…TSDNN C…TSSNR/L

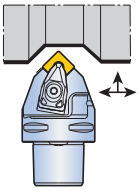
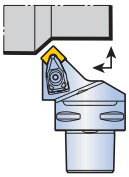
T-holders with C-ADAPTER



C…TSDNN



C…TSSNR

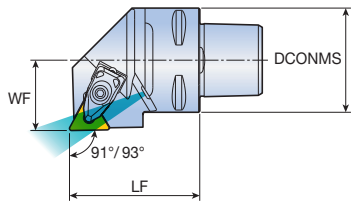
Approach angle	Designation	Dimension (mm)					Insert
		DCONMS	WF	WF2	LF	LF_2	
45°	**C4-TSDNN 00050-12**	40	-	-	50	-	SN...1204... A243, A245A248
	**C5-TSDNN 00060-12**	50	-	-	60	-	
	C6-TSDNN 00065-12	63	-	-	65	-	
45°	**C4-TSSNR/L 27042-12**	40	27	18.7	42	50.3	
	**C5-TSSNR/L 35052-12**	50	35	26.7	52	60.3	
	C6-TSSNR/L 45056-12	63	45	36.7	56	64.3	

Spare parts

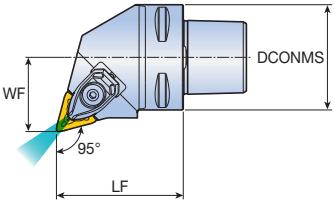
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
C4...12	DLM 4	DLS 4	DSP 4	TSS 44	SO 40050I	NZ 83	L-W 3	T 15
...12	DLM 4	DLS 4	DSP 4	TSS 44	SO 40050I	NZ 104	L-W 3	T 15

C…TTGNR/L C…TTJNR/L C…TTQNR/L

T-holders with C-ADAPTER

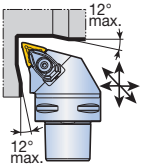


C…TTGNR (91°) C…TTJNR (93°)



C…TTQNR-TB

Approach angle	Designation	Dimension (mm)			Insert
		DCONMS	WF	LF	
91°/93°	**C4-TTGNR/L 27050-16**	40	27	50	TN...1604... A249-A252, A301, A309
	C5-TTGNR/L 35060-16	50	35	60	
	C6-TTGNR/L 45065-16	63	45	65	
	C4-TTJNR/L 27050-16	40	27	50	
	C5-TTJNR/L 35060-16	50	35	60	
	C6-TTJNR/L 45065-16	63	45	65	
95°	**C5-TTQNR/L 35060-2109-TB**	50	35	60	TNMV 2109... A258
	C6-TTQNR/L 45065-2109-TB	63	45	65	

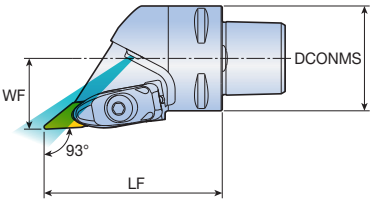


Spare parts

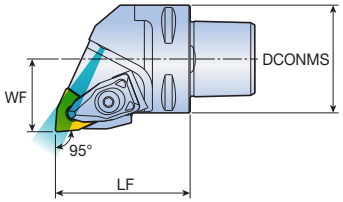
Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Nozzle	Wrench	
C4...TT...16	DLM 3	DLS 3	DSP 3	TST 33	-	SO 35080I	NZ 83	L-W 2.5	T 15
...TT...16	DLM 3	DLS 3	DSP 3	TST 33	-	SO 35080I	NZ 104	L-W 2.5	T 15
...TT...21	DLM 4.4T-NV	SR 17-307-B12.5	DSP 5	-	TSTV 210510	TS 35083I/HG	-	L-W 3	T-10

C…TVJNR/L C…TWLNR/L

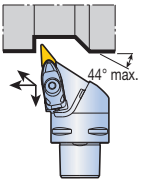
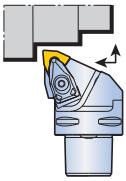
T-holders with C-ADAPTER



C…TVJNR



C…TWLNR

Approach angle	Designation	Dimension (mm)			Insert
		DCONMS	WF	LF	
93°	**C4-TVJNR/L 27068-16**	40	27	68	VN...1604... A253-A254, A302, A310
	**C5-TVJNR/L 35065-16**	50	35	65	
	C6-TVJNR/L 45068-16	63	45	68	
95°	**C4-TWLNR/L 27050-06**	40	27	50	WN...G 0604... A255-A257, A302, A311
	**C4-TWLNR/L 27050-08**	40	27	50	WN... 0804...
	C5-TWLNR/L 35060-08	50	35	60	
	C6-TWLNR/L 45065-08	63	45	65	

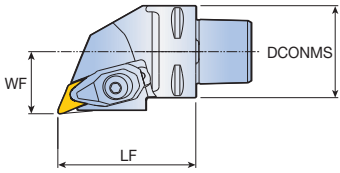
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Nozzle	Wrench	
									
C4...TV...16	DLM 3V	DLS 5	DSP 5	-	TSV 33	SO 35080I	NZ 83	L-W 4	T 15
...TV...16	DLM 3V	DLS 5	DSP 5	-	TSV 33	SO 35080I	NZ 104	L-W 4	T 15
...06	DLM 3	DLS 3	DSP 3	PSW 32	-	SO 40090I	NZ 83	L-W 2.5	T 15
C4...08	DLM 4	DLS 4	DSP 4	TSW 44	-	SO 40050I	NZ 83	L-W 3	T 15
...08	DLM 4	DLS 4	DSP 4	TSW 44	-	SO 40050I	NZ 104	L-W 3	T 15

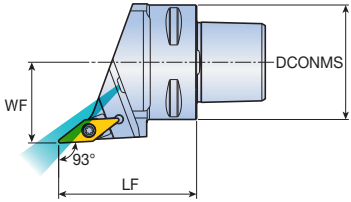
C…TZQNR/L-TB C…LVJBR/L

C-ADAPTER

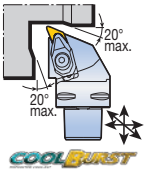
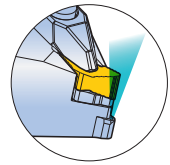
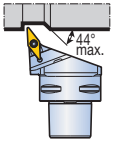
High pressure with C-ADAPTER



C…TZQNR-TB COOLBURST



C…LVJBR

Approach angle	Designation	Dimension (mm)			Insert
		DCONMS	WF	LF	
ZNMV 23°(BWT) 95°(FWT)	**C4-TZQNR/L 27060-1410-TB**	40	27	60	ZNMV 1410… POSSTURN A260
	C5-TZQNR/L 35060-1410-TB	50	35	60	
	C6-TZQNR/L 45065-1410-TB	63	45	65	
 COOLBURST					
93°	**C4-LVJBR/L 27050-16**	40	27	50	VBMX 1604… MULTITURN A284
	**C5-LVJBR/L 35060-16**	50	35	60	
	C6-LVJBR/L 45065-16	63	45	65	

- BWT: Backward turning
- FWT: Forward turning

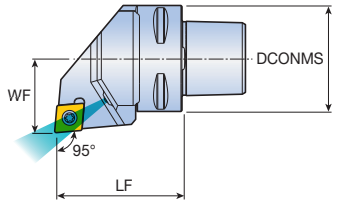
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
C...1410-TB	DLM 3.3Z-NV	DLS 5	DSP 5	TSZ 140310	TS 35083I/HG	L-W 4	T 10
Designation	Screw	Shim	Shim screw	Nozzle	Wrench		
							
C...27...16	SO 35124I	SSVX 32	TS 5035062S	NZ 83	L-W 3.5	T 15	
C...35/45...16	SO 35124I	SSVX 32	TS 5035062S	NZ 104	L-W 3.5	T 15	

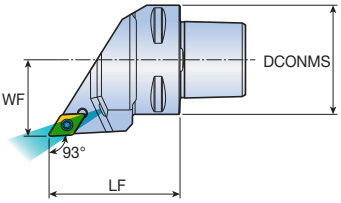
C…SCLCR/L C…SDJCR/L

C-ADAPTER

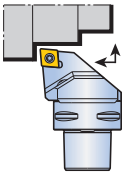
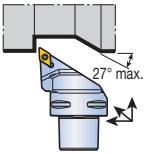
Screw type holders with C-ADAPTER



C…SCLCR



C…SDJCR

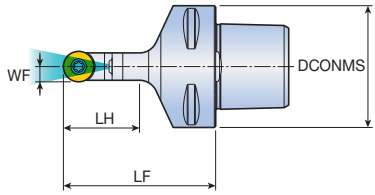
Approach angle	Designation	Dimension (mm)			Insert	
		DCONMS	WF	LF		
95°	**C4-SCLCR/L 27050-09**	40	27	50	CC... 09T3...	A262-A265, A312
	**C5-SCLCR/L 35060-09**	50	35	60		
	C6-SCLCR/L 45065-09	63	45	65		
	C4-SCLCR/L 27050-12	40	27	50	CC... 1204...	
	C5-SCLCR/L 35060-12	50	35	60		
	C6-SCLCR/L 45065-12	63	45	65		
93°	**C4-SDJCR/L 27050-11**	40	27	50	DC... 11T3...	A267-A270, A313
	**C5-SDJCR/L 35060-11**	50	35	60		
	C6-SDJCR/L 45065-11	63	45	65		

Spare parts

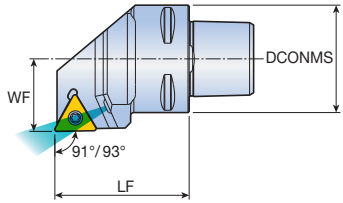
Designation	Screw	Shim		Shim screw	Nozzle	Wrench		
								
C4...09	SO 35124I	SSC 32	-	SO 50090S	NZ 83	T 15	L-W 3.5	
...09	SO 35124I	SSC 32	-	SO 50090S	NZ 104	T 15	L-W 3.5	
C4...11	SO 35124I	-	SSD 32	SO 50090S	NZ 83	T 15	L-W 3.5	
...11	SO 35124I	-	SSD 32	SO 50090S	NZ 104	T 15	L-W 3.5	
C4...12	SO 45130I	SSC 43N	-	SO 60105S	NZ 83	T 20	L-W 5	
...12	SO 45130I	SSC 43N	-	SO 60105S	NZ 104	T 20	L-W 5	

C...SRDCN C...STGCR/L C...STJCR/L

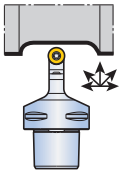
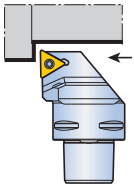
Screw type holders with C-ADAPTER



C...SRDCN



C...STGCR (91°) C...STJCR (93°)

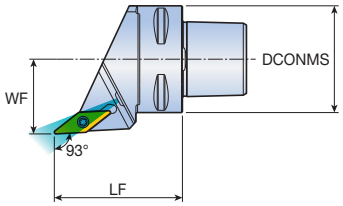
Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	WF	LF	LH	
45°	**C4-SRDCN 00050-10A**	40	5	50	25	RC...T 10T3... A273
	**C5-SRDCN 00060-10A**	50	5	60	25	
	C6-SRDCN 00065-10A	63	5	65	25	
	C4-SRDCN 00050-12A	40	6	50	28	RC...T 1204...
	C5-SRDCN 00060-12A	50	6	60	28	
	C6-SRDCN 00065-12A	63	6	65	28	
91°/93°	**C4-STGCR/L 27050-16**	40	27	50	-	TC... 16T3... A277, A315, A316
	**C5-STGCR/L 35060-16**	50	35	60	-	
	C4-STJCR/L 27050-16	40	27	50	-	
	C5-STJCR/L 35060-16	50	35	60	-	

Spare parts

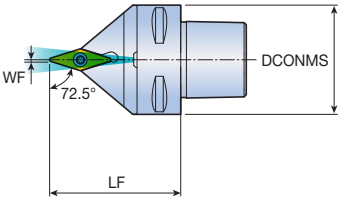
Designation	Screw	Shim		Shim screw	Nozzle	Wrench		
								
C4...10A	TS 40097I	TRC 3-0	-	SR TC-3	NZ 62	T 15	-	
...10A	TS 40097I	TRC 3-0	-	SR TC-3	NZ 62	T 15	-	
C4...12A	SO 40050I	TRC 4-0	-	SR TC-4S	NZ 62	T 15	-	
...12A	SO 40050I	TRC 4-0	-	SR TC-4S	NZ 62	T 15	-	
C4...16	SO 35124I	-	SST 32	SO 50090S	NZ 83	T 15	L-W 3.5	
...16	SO 35124I	-	SST 32	SO 50090S	NZ 104	T 15	L-W 3.5	

C...SVJBR/L C...SVVBN

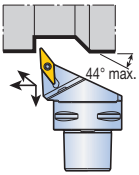
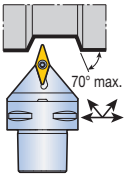
Screw type holders with C-ADAPTER



C...SVJBR



C...SVVBN

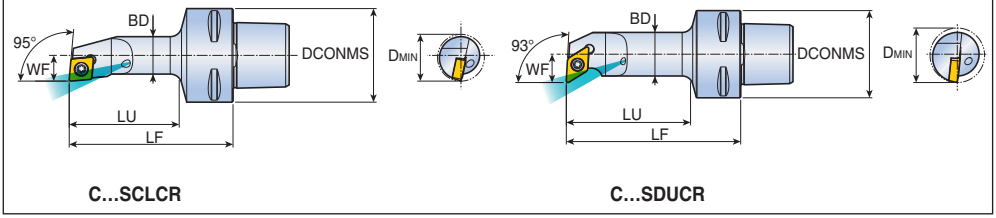
Approach angle	Designation	Dimension (mm)			Insert
		DCONMS	WF	LF	
93°	**C4-SVJBR/L 27050-16**	40	27	50	VB...T 1604... A283, A284, A317
	**C5-SVJBR/L 35060-16**	50	35	60	
	C6-SVJBR/L 45065-16	63	45	65	
72.5°	**C4-SVVBN 00050-16**	40	0.6	50	
	**C5-SVVBN 00060-16**	50	0.6	60	
	C6-SVVBN 00065-16	63	0.6	65	

Spare parts

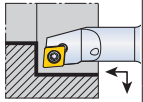
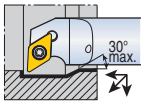
Designation	Screw	Shim	Shim screw	Nozzle	Wrench			
								
C4...16	SO 35124I	SSV 32	SO 50090S	NZ 83	T 15	L-W 3.5		
...16	SO 35124I	SSV 32	SO 50090S	NZ 104	T 15	L-W 3.5		

C…SCLCR/L C…SDUCR/L

Screw type boring bar with C-ADAPTER



C…SCLCR C…SDUCR

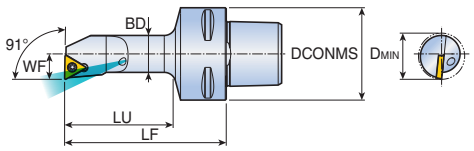
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	LF	LU	WF	BD	DMIN	
95°	**C4-SCLCR/L-11070-09**	40	70	47	11	16	20	CCMT 09T3… A265
	**C5-SCLCR/L-11070-09**	50	70	46	11	16	20	
93°	**C4-SDUCR/L-13080-11**	40	80	57	13	20	25	DCMT 11T3… A270
	**C5-SDUCR/L-13080-11**	50	80	56	13	20	25	

Spare parts

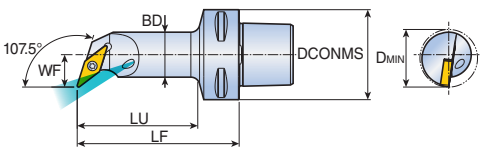
Designation	Screw	Wrench				
						
C...SCLCR/L	SO 35080I	T 15				
C...SDUCR/L	SO 35080I	T 15				

C...STFCR/L C...SVQBR/L

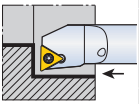
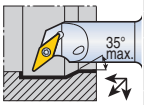
Screw type boring bar with C-ADAPTER



C...STFCR



C...SVQBR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	LF	LU	WF	BD	DMIN	
91°	**C4-STFCR/L-11070-1102**	40	70	47	11	16	20	TC...T 1102... A277, A278, A315-A316
	**C5-STFCR/L-11070-1102**	50	70	46	11	16	20	
107.5°	**C4-SVQBR/L-18090-16**	40	90	68	18	25	32	VBMT 1604... A284
	**C5-SVQBR/L-18090-16**	50	90	67	18	25	32	

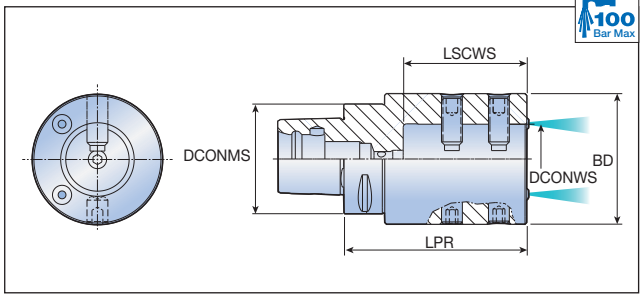
Spare parts

Designation	Screw	Wrench				
						
C...STFCR/L	SO 25065I	T 7				
C...SVQBR/L	SO 35080I	T 15				

C...ABB

Adapters with C-ADAPTER exchangeable shanks for boring bars with reduction sleeves





Designation	Dimension (mm)				
	DCONMS	DCONWS	BD	LPR	LSCWS
C4 ABB 25-60	40	25	63	100	60
C5 ABB 25-60	50	25	63	100	60
C6 ABB 25-60	63	25	63	100	60
ABB 40-70	63	40	75	105	71
C8 ABB 25-60	80	25	63	100	60
ABB 40-72	80	40	75	105	71

Spare parts

Designation	Stopper screw	Screw		Nozzle	Wrench	
						
C...60	SR M10x6 DIN913[1]	SR M10x20 DIN915[3]	SR M10x12 DIN1835-B[2]	SATZ-M12x1-M6	HP M12*	L-W 5*
C...70/72	SR M10x6 DIN913[1]	SR M12x30 DIN915[3]	SR M12x16 DIN1835-B[2]	SATZ-M12x1-M6	HP M12*	L-W 6*

▸ *: Optional, should be ordered separately

▸ [1] Rear stopper screw [2] Used on A-type sleeves [3] Used on B-type sleeves

SC...T...A/B

Reduction sleeves for bars, used in holders with exchangeable adaptation



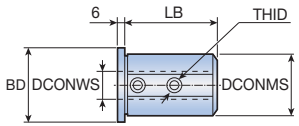


Fig.1

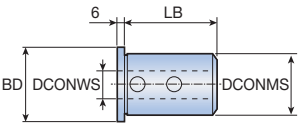


Fig.2

Designation	Dimension (mm)					Fig.
	DCONMS	DCONWS	BD	LB	THID	
SC 25T6A	25	6	31	56	M6	1
25T8A	25	8	31	56	M8	1
25T10A	25	10	31	56	M8	1
25T12A	25	12	31	56	M8	1
25T16B	25	16	31	56	-	2
25T20B	25	20	31	56	-	2
SC 40T6A	40	6	46	60	M6	1
40T8A	40	8	46	60	M8	1
40T10A	40	10	46	60	M8	1
40T12A	40	12	46	60	M8	1
40T16B	40	16	46	60	-	2
40T20B	40	20	46	60	-	2
40T25B	40	25	46	60	-	2
40T32B	40	32	46	60	-	2
SC 50T6A	50	6	56	70	M6	1
50T8A	50	8	56	70	M8	1
50T10A	50	10	56	70	M8	1
50T12A	50	12	56	70	M8	1
50T16B	50	16	56	80	-	2
50T20B	50	20	56	80	-	2
50T25B	50	25	56	80	-	2
50T32B	50	32	56	80	-	2

Spare parts

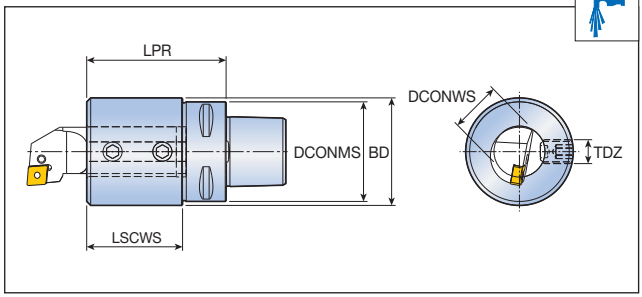
Designation	Screw		Wrench		
					
...25T/50T 6A	SR M6x6 DIN916	-	L-W 3*		
...25T 8A/10A/12A	SR M8x6 DIN916	-	L-W 4*		
...50T 8A/10A/12A	SR M8x6 DIN916	-	L-W 4*		
...40T 6A	-	SR M6x10 DIN1835-B	L-W 3*		
...40T 8A/10A/12A	-	SR M8x10 DIN1835-B	L-W 4*		

▸ *: Optional, should be ordered separately

C...ADI

Holders for boring bars with C-ADAPTER exchangeable shanks



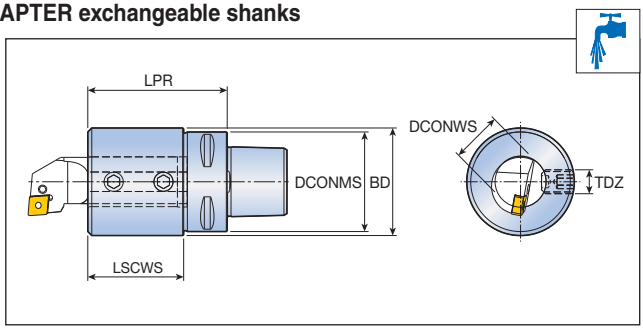


Designation		Dimension (mm)					
		DCONMS	LPR	LSCWS	DCONWS	BD	TDZ
C3	**ADI 10**	32	50	20	10	36	M6
	ADI 12	32	50	21.5	12	36	M8
	ADI 16	32	50	29.5	16	36	M8
C4	**ADI 10**	40	50	20	10	36	M6
	ADI 12	40	50	24	12	36	M8
	ADI 16	40	50	32	16	36	M8
	ADI 20	40	70	49	20	55	M12
	ADI 25	40	70	45	25	54	M12
C5	**ADI 10**	50	60	26	10	36	M6
	ADI 12	50	60	26	12	36	M8
	ADI 16	50	60	32	16	36	M8
	ADI 20	50	75	49	20	55	M12
	ADI 25	50	85	60	25	60	M12
	ADI 32	50	100	76	32	68	M12
C6	**ADI 12**	63	65	36	12	36	M8
	ADI 16	63	65	36	16	36	M8
	ADI 20	63	65	40	20	36	M10
	ADI 25	63	76	51	25	54	M12
	ADI 32	63	100	76	32	68	M12
	ADI 40	63	100	76	40	98	M12
	ADI 50	63	115	76	50	98	M12

C...ADI

Holders for boring bars with C-ADAPTER exchangeable shanks





Designation	Dimension (mm)					
	DCONMS	LPR	LSCWS	DCONWS	BD	TDZ
C8 **ADI 12**	80	70	36	12	36	M8
ADI 16	80	70	36	16	36	M8
ADI 20	80	70	40	20	36	M10
ADI 25	80	80	51	25	54	M12
ADI 32	80	110	86	32	68	M12
ADI 40	80	115	86	40	98	M12
ADI 50	80	115	86	50	98	M12

Spare parts

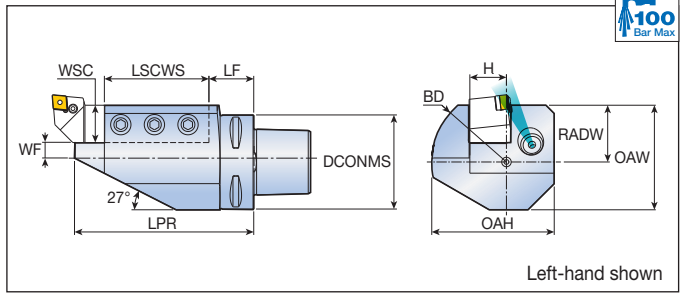
Designation	Screw	Wrench				
						
...10	SR M6x10 DIN1835-B	L-W 3*				
...12/16	SR M8x10 DIN1835-B	L-W 4*				
...20	SR M10x12 DIN1835-B	L-W 5*				
...25/32/40/50	SR M12x16 DIN1835-B	L-W 6*				

▸ *: Optional, should be ordered separately

C...ASHR/L

Holders with C-ADAPTER exchangeable shanks for external square-shank tools





Left-hand shown

	Designation	Dimension (mm)										
		DCONMS	LPR	LSCWS	LF	WF	H	WSC	OAH	RADW	OAW	BD
C4	**ASHR/L 16-1**	40	104	70	34	16	16	16	50	23	43.5	60
C5	**ASHR/L 20-1**	50	98	63.5	24.5	10	20	20	78	30	59	90
C6	**ASHR/L 20-1**	63	100	63.5	36.5	20	20	20	78	30	59	90
	ASHR/L 25-1	63	120	70	30	13	25	25	82	38	70	100
C8	**ASHR/L 32-1**	80	140	95	35	8	32	32	87	40	80	110

Spare parts

Designation	Screw	Nozzle	Wrench	
...16-1	SR M8x16 DIN915	SATZ-M10x1-M5	HP M10*	L-W 5*
...20-1	SR M10x25 DIN915	SATZ-M10x1-M5	HP M10*	L-W 5*
...25-1/32-1	SR M12x30 DIN915	SATZ-M12x1-M6	HP M12*	L-W 6*

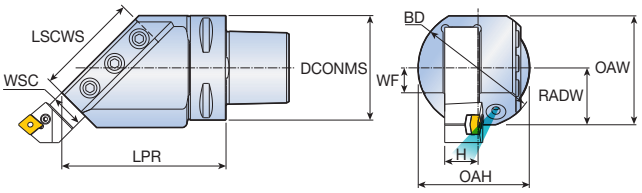
▸ *: Optional, should be ordered separately

C...ASHR/L-45

Holders with C-ADAPTER shanks carrying square shank tools for 45° mounting on turn-mill machines

100 Bar Max





A left-hand tool in a right-hand adapter are shown

Designation	Dimension (mm)									
	DCONMS	H	WSC	LSCWS	LPR	OAH	RADW	OAW	WF	BD
C5 ASHR/L 20-45	50	20	20	-	127	62	36	67.5	15	72
C6 ASHR/L 20-45	63	20	20	70	102	62	41.6	67.5	15	72
ASHR/L 25-45	63	25	25	70	102	83	41.6	79.6	15	100
C8 ASHR/L 32-45	80	32	32	100	140	110	50	110	17	140

Spare parts

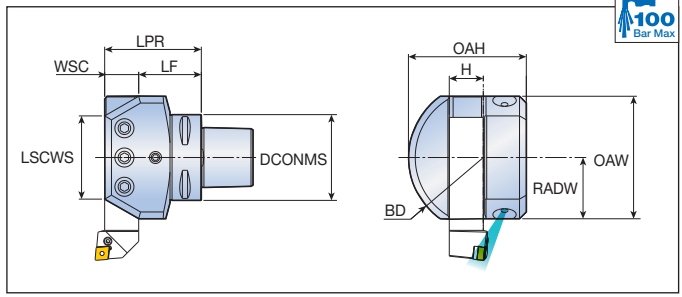
Designation	Screw	Nozzle	Wrench	
...20-45	SR M10x25 DIN915	SATZ-M10x1-M5	HP M10*	L-W 5*
...25-45	SR M12x30 DIN915	SATZ-M10x1-M5	HP M10*	L-W 6*
...32-45	SR M12x30 DIN915	SATZ-M12x1-M6	HP M12*	L-W 6*

▸ *: Optional, should be ordered separately

C...ASHA

Perpendicular holders with C-ADAPTER shanks for external square-shank tools





Designation	Dimension (mm)									
	DCONMS	H	WSC	LPR	LSCWS	LF	RADW	OAW	OAH	BD
C5 ASHA 20	50	20	20	58	46	38	38	76	76.5	90
C6 ASHA 20	63	20	20	60	46	40	38	76	76.5	90
ASHA 25	63	25	25	71	61	46	45	90	86.6	110
C8 ASHA 32	80	32	32	85	80	53	55	100	95	142

Spare parts

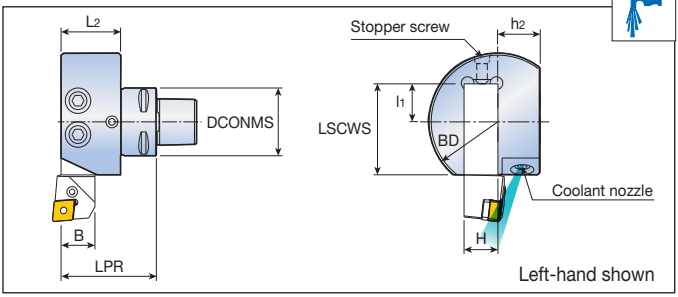
Designation	Screw	Nozzle	Wrench	
				
...20	SR M10x25 DIN915	SATZ-M10x1-M5	HP M10*	L-W 5*
...25	SR M12x30 DIN915	SATZ-M12x1-M6	HP M12*	L-W 6*
...32	SR M12x30 DIN915	SATZ-M12x1-M6	HP M12*	L-W 6*

▸ *: Optional, should be ordered separately

C...ADE

Holders with C-ADAPTER exchangeable shanks for external square-shank tools





Designation	Dimension (mm)								
	DCONMS	LPR	L_2	B	BD	LSCWS	l_1	H	h_2
C3 ADE-16R/L	32	45	28.1	16	65	45	20	16	20
C4 ADE-20R/L	40	49.2	29.1	20	87	57	32	20	26
C5 ADE-20R/L	50	55.2	35.1	20	87	57	32	20	26

Spare parts

Designation	Stopper screw	Screw	Nozzle	Wrench
C3...16R/L	SR M6x8 DIN916(1)	SR M10x20 DIN915	SATZ-M8x1-M3	L-W 3*, L-W 5*
C4...20R/L	SR M8x10 DIN913(1)	SR M10x20 DIN912	EZ 125	L-W 4*, L-W 8*
C5...20R/L	SR M8x10 DIN916(1)	SR M10x16	EZ 125	L-W 4*, L-W 8*

▸ *: Optional, should be ordered separately ▸ (1) Marked: Stopper screw

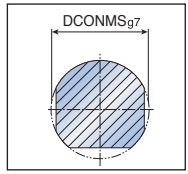
Boring Bar Designation System

S	32	S	-	C	T	F	P	R	-	16	-	
1	2	3		4	5	6	7	8		9		10

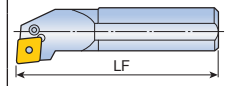
1 Boring bar

S	Steel shank
A	Coolant through steel shank
C	Carbide shank
E	Coolant through carbide shank
X	Special

2 Bar diameter



3 Tool length



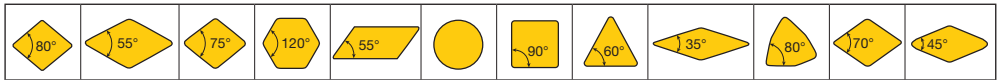
K	125	U	350
M	150	V	400
Q	180	W	450
R	200	Y	500
S	250	X	Special
T	300		

4 Clamping system



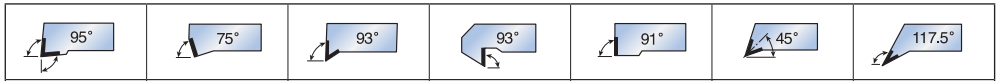
Lever lock	Top clamp	Screw clamp	Multi lock	T-holder	Wedge clamp	Hook lever

5 Insert shape



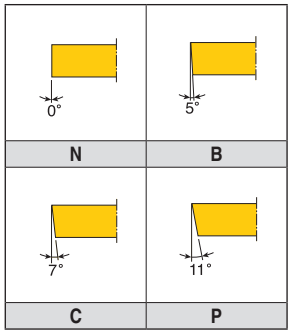
C	D	E	H	K	R	S	T	V	W	X	Z

6 Approach angle



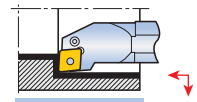
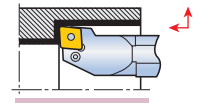
L	K	U	Z	F	Q	P

7 Insert clearance angle

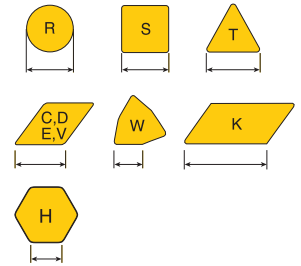


N	B
C	P

8 Hand of tool

R	 **Right-hand** Left-handed insert used
L	 **Left-hand** Right-handed insert used

9 Cutting edge length



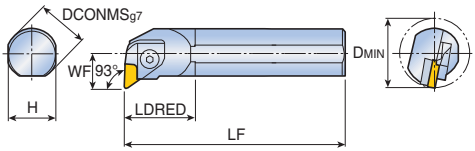
See page A227

10 Manufacturer's type designation

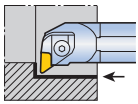
Unique to manufacturer

S-CKUNR/L

Top clamp type boring bars



S-CKUNR

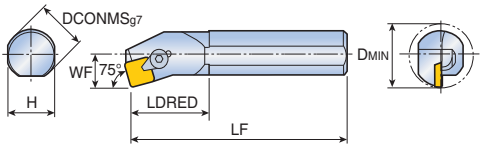
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	**S32T CKUNR/L16**	32	30	300	45	22	44	KNUX 1604...R/L A241
	**S40T CKUNR/L16**	40	37	300	55	27	54	
	S40V CKUNR/L16	40	37	400	55	27	54	
	S50U CKUNR/L16	50	47	350	60	35	67.2	

Spare parts

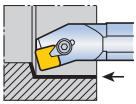
Designation	Clamp	Screw	Clamp spring	Shim	Shim screw	Pin & spring	Wrench	
								
...16	CL 16KR/L	CLS 16K	KSP 90	CSK 1604R/L	FH M3x0.5 x10	KSP 48 KP 48S	L-W 4	

S-CSKPR/L

Top clamp type boring bars



S-CSKPR

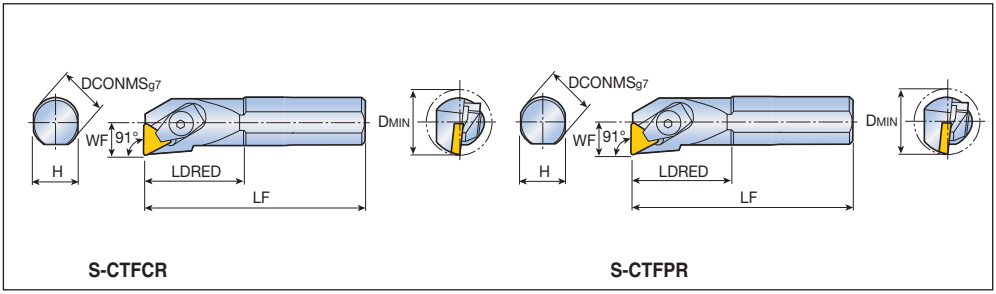
Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
75°	**S16R CSKPR/L09**	16	15	200	30	11	20	SPMR, SP...N 0903...	A275, A304
	**S20S CSKPR/L09**	20	18	250	32	13	25		
	S20R CSKPR/L12	20	18	200	34	13	25	SPMR, SP...N 1203...	
	S25T CSKPR/L12	25	23	300	42	17	32		
	S32U CSKPR/L12	32	30	350	45	22	40		

Spare parts

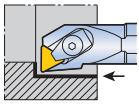
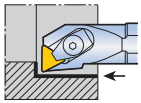
Designation	Clamp		Screw	Snap ring	Shim	Shim pin	Wrench	
								
...09	CL 2C	-	CLS 2C	CSR 2C	-	-	L-W 2.5	
S20R...12	CL 3C	-	CLS 3C	CSR 2	CSS 42	CSP 3	L-W 3	
S25T...12	-	CL 3	CLS 3S	WSR 4	CSS 42	CSP 3	L-W 3	
S32U...12	-	CL 3	CLS 3	WSR 4	CSS 42	CSP 3	L-W 3	

S-CTFCR/L S-CTFPR/L

Top clamp type boring bars



S-CTFCR S-CTFPR

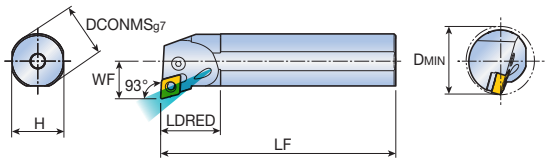
Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
91°	**S10K CTFCR/L 06**	10	9	125	25	6.5	12	TCGR 0601...	
									
91°	**S10K CTFPR/L 06**	10	9	125	25	6.5	12	TP...R 0601...	A280-A282, A304, A315-A316
	**S12M CTFPR/L 06**	12	11	150	30	9	16		
	S12M CTFPR/L 09	12	11	150	25	9	16	TP...R, TP...N 0902...	
	S12M CTFPR/L 11	12	11	150	30	9	16	TP...R, TP...N 1103...	
	S16R CTFPR/L 11	16	15	200	30	11	20		
	S20S CTFPR/L 11	20	18	250	35	13	25		
	S16R CTFPR/L 16	16	15	200	40	11	20	TP...R, TP...N 1603...	
	S20S CTFPR/L 16	20	18	250	50	13	25		
	S25T CTFPR/L 16	25	23	300	40	17	32		
	S32T CTFPR/L 16	32	30	300	45	22	40		
	S40T CTFPR/L 16	40	37	300	41.5	27	50		
	S50U CTFPR/L 16	50	47	350	56	35	63		
	S40T CTFPR/L 22	40	37	300	41.5	27	50	TPMR, TP...N 2204...	
	S50U CTFPR/L 22	50	47	350	56	35	63		

Spare parts

Designation	Clamp			Screw	Snap ring	Shim	Shim pin	Wrench
								
...06	CL 1.25	-	-	CLS 1.25	CSR 1.25	-	-	L-W 1.5
...09	CL 1.25	-	-	CLS 1.25	CSR 1.25	-	-	L-W 1.5
...11	-	CL 2C	-	CLS 2C	CSR 2C	-	-	L-W 2.5
S16R...16	-	CL 3C	-	CLS 3C	CSR 2	-	-	L-W 3
S20S...16	-	CL 3C	-	CLS 3C	CSR 2	-	-	L-W 3
S25T...16	-	-	CL 3	CLS 3S	WSR 4	-	-	L-W 3
...16	-	-	CL 3	CLS 3	WSR 4	CST 32	CSP 3	L-W 3
...22	-	-	CL 4	CLS 4	CSR 4	CST 43	CSP 16K	L-W 4

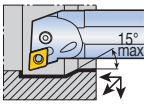
A-HXUNR/L

Hook lever type boring bars



A-HXUNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	**A32S HXUNR/L 1105**	32	30	250	35	22	40	XN... 1105...



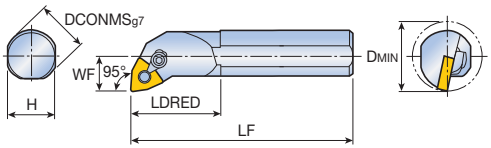
A259

Spare parts

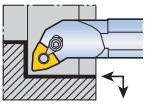
Designation	Lever	Lever screw	Shim	Shim pin	Wrench			
								
...1105	LCL 11-NX	LCS 4S	LSX 3.52B	LSP 4	L-W 3			

S-MWLNR/L

Multi lock type boring bars



S-MWLNR

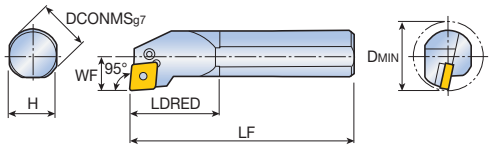
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**S25R MWLNR/L 08**	25	23	200	42	17	32	WN... 0804...
	**S32S MWLNR/L 08**	32	30	250	45	22	40	 A255-A257 A302, A311

Spare parts

Designation	Clamp	Screw	Snap ring	Lock pin	Wrench			
								
...08	CL 2	CLS 2	CSR 2	MLP 4S	L-W 2.5			

S-PCLNR/L

Lever lock type boring bars



S-PCLNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**S25T PCLNR/L12**	25	23	300	40	17	32	CN...1204...
	S32T PCLNR/L12	32	30	300	45	22	40	
	S40T PCLNR/L12	40	37	300	55	27	50	
	S50U PCLNR/L12	50	47	350	70	35	63	
	S50U PCLNR/L16	50	47	350	70	35	63	CN...1606...
	S50U PCLNR/L19	50	47	350	70	35	63	CN...1906...

A228, A230-A234, A235, A293, A294, A305

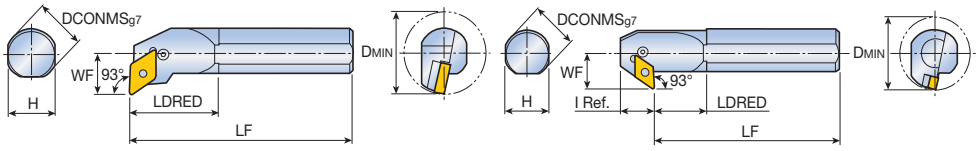
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
S25T...12	LCL 4B	LCS 4B	-	-	LSR 4B	L-W 2.5		
S32 ...12	LCL 4	LCS 4S	LSC 42	LSP 4	-	L-W 3		
...12	LCL 4	LCS 4	LSC 42	LSP 4	-	L-W 3		
...16	LCL 5	LCS 5	LSC 53	LSP 5	-	L-W 3		
...19	LCL 6D	LCS 6	LSC 63	LSP 6	-	L-W 4		

S-PDUNR/L S-PDZNR/L

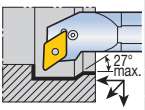
T-TURN

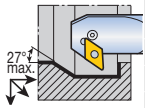
Lever lock type boring bars



S-PDUNR S-PDZNR

Approach angle	Designation	Dimension (mm)							Insert
		DCONMS	H	LF	LDRED	WF	l	DMIN	
93°	**S32T PDUNR/L 15**	32	30	300	45	22	-	40	DN...1506... A236-A240, A295, A306
	S40T PDUNR/L 15	40	37	300	55	27	-	50	
	S50U PDUNR/L 15	50	47	350	70	35	-	63	
	S32T PDUNR/L 15-A	32	30	300	35	22	-	40	DN...1504...
93°	**S32T PDZNR/L 15**	32	30	300	30	25	26	45	DN...1506...
	S40T PDZNR/L 15	40	37	300	35	29	26	50	
	S50U PDZNR/L 15	50	47	350	45	35	27	63	





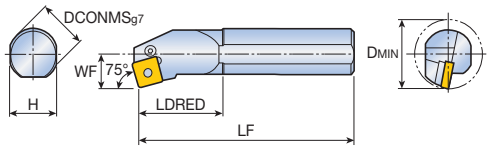
For back boring

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
								
S32T ...15	LCL 4A	LCS 4S	LSD 42	LSP 4	L-W 3			
S40T PDZ...15	LCL 4A	LCS 4S	LSD 42	LSP 4	L-W 3			
...15	LCL 4A	LCS 4	LSD 42	LSP 4	L-W 3			
...15-A	LCL 4A	LCS 4S	LSD 42	LSP 4	L-W 3			

S-PSKNR/L

Lever lock type boring bars



S-PSKNR

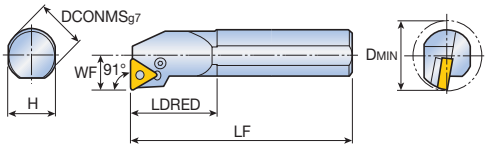
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
75°	**S25T PSKNR/L12**	25	23	300	33	17	32	SN...1204...
	S32T PSKNR/L12	32	30	300	45	22	40	A243-A248, A298, A299, A308
	S40T PSKNR/L12	40	37	300	41.5	27	50	
	S50U PSKNR/L19	50	47	350	56	35	63	SN...1906...

Spare parts

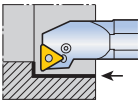
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
S25T...12	LCL 4B	LCS 4B	-	-	LSR 4B	L-W 2.5		
S32T...12	LCL 4	LCS 4S	LSS 42	LSP 4	-	L-W 3		
S40T...12	LCL 4	LCS 4	LSS 42	LSP 4	-	L-W 3		
...19	LCL 6	LCS 6	LSS 63	LSP 6	-	L-W 4		

S-PTFNR/L

Lever lock type boring bars



S-PTFNR

Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
91°	**S20Q PTFNR/L11**	20	18	180	40	13	25	TN... 1103...	A249-A252, A301, A309
	**S25T PTFNR/L16**	25	23	300	40	17	32	TN... 1604...	
	S32T PTFNR/L16	32	30	300	45	22	40		
	S40T PTFNR/L16	40	37	300	60	27	50		
	S50U PTFNR/L16	50	47	350	56	35	63		
	S40T PTFNR/L22	40	37	300	56	27	50	TN... 2204...	
	S50U PTFNR 22	50	47	350	56	35	63		

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
								
...11	LCL 2B	LCS 2B	-	-	LSR 2B	L-W 2		
S25T ...16	LCL 3BH	LCS 3B	-	-	LSR 3B	L-W 2		
...16	LCL 3	LCS 3	LST 31.8	LSP 3A	-	L-W 2.5		
... 22	LCL 4	LCS 4	LST 42	LSP 4	-	L-W 3		

S-SCLCR/L

Screw type boring bars

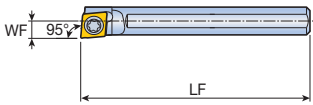


Fig.1

S-SCLCR

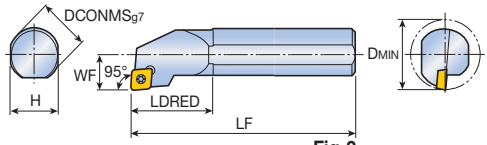


Fig.2

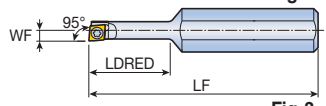
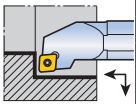


Fig.3

Approach angle	Designation	Dimension (mm)						Fig.	Insert
		DCONMS	H	LF	LDRED	WF	DMIN		
95°	**S04F SCLCR/L 03-D05**	4	3.75	80	-	2.5	5	1	CC...T 0301...
	**S05G SCLCR/L 03-D06**	5	4.75	90	-	3	6	1	A262-A265, A312
	S10H SCLCR/L 03-D05	10	9	100	15	2.5	5	3	
	S06H SCLCR/L 04-D07	6	5.5	100	-	3.5	7	1	CC...T 0401...
	S07J SCLCR/L 04-D08	7	6.5	110	-	4	8	1	
	S08K SCLCR/L 06	8	7	125	18	6	11	2	CC... 0602...
	S10K SCLCR/L 06	10	9	125	20	7	13	2	
	S12M SCLCR/L 06	12	11	150	25	9	16	2	
	S16R SCLCR/L 06	16	15	200	30	11	20	2	
	S12M SCLCR/L 09	12	11	150	23	9	16	2	CC... 09T3...
	S16R SCLCR/L 09	16	15	200	30	11	20	2	
	S20S SCLCR/L 09	20	18	250	32	13	25	2	
	S25T SCLCR/L 12	25	23	300	42	17	32	2	CC... 1204...
	S32T SCLCR/L 12	32	30	300	45	22	40	2	
	S40T SCLCR/L 12	40	37	300	55	27	50	2	

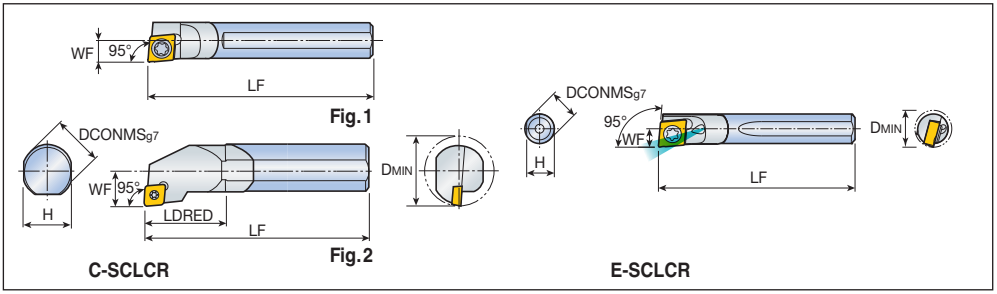
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench			
							
...03	TS 16031I	-	-	T 6	-		
...04	TS 20038I/HG-P	-	-	T 6P	-		
S...K ...06	SO 25050I	-	-	T 7	-		
...06	SO 25065I	-	-	T 7	-		
...09	SO 35080I	-	-	T 15	-		
S25T...12	SO 45100I	-	-	T 20	-		
...12	SO 45130I	SSC 43N	SO 60105S	T 20	L-W 5		

C-SCLCR/L E-SCLCR/L

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Fig.	Insert
		DCONMS	H	LF	LDRED	WF	DMIN		
95°	✓ C04G SCLCR/L 03-D05	4	3.75	90	-	2.5	5	1	CC...T 0301...
	✓ C05H SCLCR/L 03-D06	5	4.75	100	-	3	6	1	A262-A265, A312
	✓ C06J SCLCR/L 04-D07	6	5.5	110	-	3.5	7	1	CC...T 0401...
	✓ C07K SCLCR/L 04-D08	7	6.5	125	-	4	8	1	
	✓ C08K SCLCR/L 06	8	7	125	15	6	11	2	CC... 0602...
	✓ C10K SCLCR/L 06	10	9	125	15	7	13	2	
	✓ C12M SCLCR/L 06	12	11	150	18	9	16	2	
	✓ C12M SCLCR/L 09	12	11	150	18	9	16	2	CC... 09T3...
	✓ C16R SCLCR/L 09	16	15	200	25	11	20	2	
	✓ C20S SCLCR/L 09	20	18	250	25	13	25	2	
95°	✓ E04G SCLCR/L 03-D05	4	3.75	90	-	2.5	5	-	CC...T 0301...
	✓ E05H SCLCR/L 03-D06	5	4.75	100	-	3	6	-	
	✓ E06J SCLCR/L 04-D07	6	5.5	110	-	3.5	7	-	CC...T 0401...
	✓ E07K SCLCR/L 04-D08	7	6.5	125	-	4	8	-	

▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

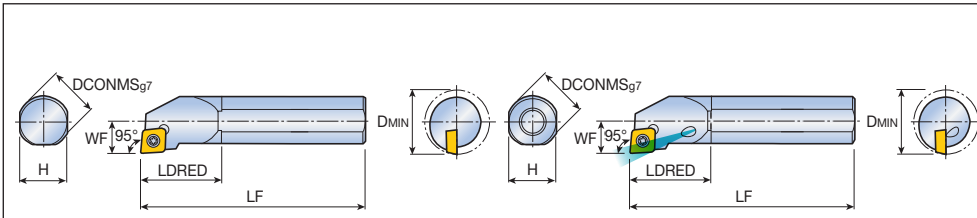
Spare parts

Designation	Screw	Wrench					
...03	TS 16031I	T 6					
...04	TS 20038I/HG-P	T 6P					
C08/C10 ...06	SO 25050I	T 7					
C12 ...06	SO 25065I	T 7					
...09	SO 35080I	T 15					

S-SCLPR/L A-SCLPR/L

T-TURN

Screw type boring bars



S-SCLPR A-SCLPR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**S10K SCLPR/L 08**	10	9	125	20	6	12	CP...T 0802...
	S12M SCLPR/L 08	12	11	150	23	8	16	
	S16R SCLPR/L 09	16	15	200	30	10	20	CP...T 0903...
	S20S SCLPR/L 09	20	18	250	32	12.5	25	
95°	**A08H SCLPR/L 06**	8	7	100	15	6	11	CP...T 0602...
	A10K SCLPR/L 06	10	9	125	15	7	13	
	A12M SCLPR/L 0903	12	11	150	19	9	16	CP...T 0903...
	A16Q SCLPR/L 0903	16	15	180	20	11	20	
	A20R SCLPR/L 0903	20	18	200	22	13	25	
	A12M SCLPR/L 09T3	12	11	150	19	9	16	CP...T 09T3...
	A16Q SCLPR/L 09T3	16	15	180	24.5	11	20	
	A20R SCLPR/L 09T3	20	18	200	22	13	25	

A266

▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

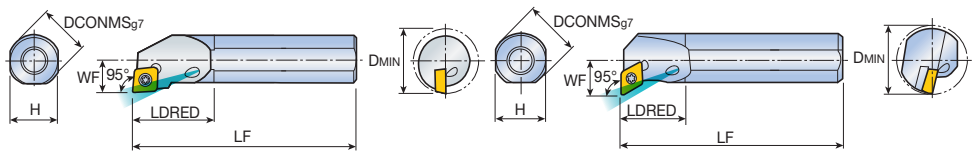
Spare parts

Designation	Screw	Wrench						
...06	SO 25050I	T 7						
...08	SO 30055I	T 9						
...09	SO 35080I	T 15						
...0903, 09T3	TS 35070I/HG	T 15						

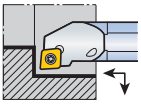
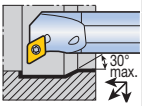
E-SCLPR/L A-SDLNR/L

T-TURN

Screw type boring bars



E-SCLPR **A-SDLNR**

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	✓ **E08K SCLPR/L 06**	8	7	125	15	6	11	CP...T 0602... A266
	✓ **E10K SCLPR/L 06**	10	9	125	15	7	13	
	✓ **E12M SCLPR/L 0903**	12	11	150	19	9	16	CP...T 0903...
	✓ **E16R SCLPR/L 0903**	16	15	200	22	11	20	
	✓ **E12M SCLPR/L 09T3**	12	11	150	19	9	16	CP...T 09T3...
	✓ **E16R SCLPR/L 09T3**	16	15	200	22	11	20	
95°	**A20S SDLNR/L 11**	20	18	250	28	13	24	DN...1104... A236-A237, A239
	**A25T SDLNR/L 11**	25	23	300	42	17	31	

▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

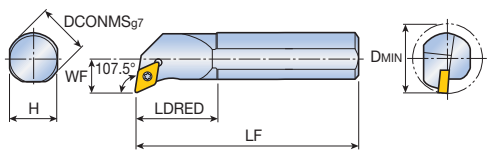
Spare parts

Designation	Screw	Shim	Shim screw	Wrench		Seal		
								
...06	SO 25050I	-	-	T 7	-	-		
...09	TS 35070I/HG	-	-	T 15	-	-		
A20S...11	SO 35120I	-	-	T 10	-	PL 20		
A25T...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 25		

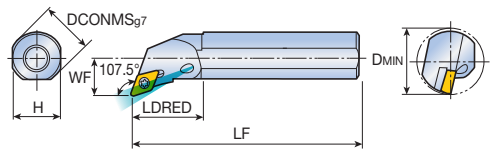
S-SDQCR/L A-SDQNR/L

T-TURN

Screw type boring bars



S-SDQCR



A-SDQNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
107.5°	**S10K SDQCR/L 07**	10	9	125	20	7	13	DC... 0702... A267-A270, A313
	S12M SDQCR/L 07	12	11	150	22	9	16	
	S16R SDQCR/L 07	16	15	200	27	11	20	
	S20S SDQCR/L 11	20	18	250	40	13	25	DC... 11T3...
	S25T SDQCR/L 11	25	23	300	50	17	32	
107.5°	**A16S SDQNR/L 11**	16	15	250	30	13	23	DN... 1104... A236-A239
	A20S SDQNR/L 11	20	18	250	31	15	27	
	A25T SDQNR/L 11	25	23	300	35	19	33	
	A32T SDQNR/L 11	32	30	300	44	26	44	

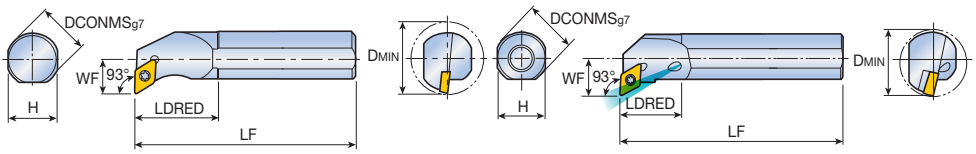
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench		Seal		
S10 ...07	SO 25050I	-	-	T 7	-	-		
S ...07	SO 25065I	-	-	T 7	-	-		
S ...11	SO 35080I	-	-	T 15	-	-		
A16S...11	SO 35120I	-	-	T 10	-	PL 16		
A20S...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 20		
A25T...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 25		
A32T...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 32		

S-SDUCR/L A-SDUNR/L

Screw type boring bars



S-SDUCR A-SDUNR

Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
93°	**S10K SDUCR/L 07**	10	9	125	20	7	13	DC... 0702...	A267-A270, A313
	S12M SDUCR/L 07	12	11	150	23	9	16		
	S16R SDUCR/L 07	16	15	200	30	11	20		
	S16R SDUCR/L 11	16	15	200	27	11	20	DC... 11T3...	
	S20S SDUCR/L 11	20	18	250	32	13	25		
	S25T SDUCR/L 11	25	23	300	42	17	32		
	S32T SDUCR/L 11	32	30	300	55	22	40		
93°	**A20S SDUNR/L 11**	20	18	250	30	15	27	DN... 1104...	A236-A239
	A25T SDUNR/L 11	25	23	300	30	19	33		
	A32T SDUNR/L 11	32	30	300	44	26	44		

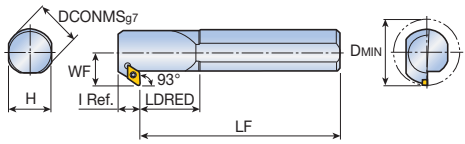
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench		Seal		
S ...07	SO 25065I	-	-	T 7	-	-		
S ...11	SO 35080I	-	-	T 15	-	-		
A20S...11	SO 35120I	-	-	T 10	-	PL 20		
A25T...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 25		
A32T...11	SO 35120I	SSD 32	SO 50090S	T 10	L-W 3.5	PL 32		

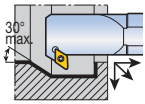
S-SDZCR/L

Screw type back boring bars



S-SDZCR

Approach angle	Designation	Dimension (mm)							Insert
		DCONMS	H	LF	LDRED	WF	l	DMIN	
93°	**S16R SDZCR/L 07**	16	15	200	23	13	12	22	DC... 0702...
	S20S SDZCR/L 07	20	18	250	28	15	12	30	A267-A270, A313
	S25T SDZCR/L 07	25	23	300	33	18	12	33	
	S20S SDZCR/L 11	20	18	250	24	15	16	27	DC... 11T3...
	S32T SDZCR/L 11	32	30	300	34	22	16	40	



For back boring

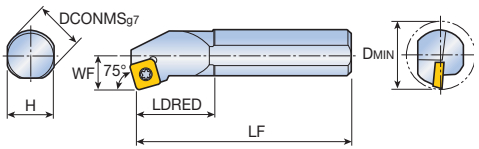
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

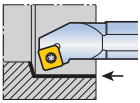
Designation	Screw	Shim	Shim screw	Wrench				
...07	SO 25065I	-	-	T 7	-			
S20S ...11	SO 35080I	-	-	T 15	-			
S32T ...11	SO 35124I	SSD 32	SO 50090S	T 15	L-W 3.5			

S-SSKCR/L

Screw type boring bars



S-SSKCR

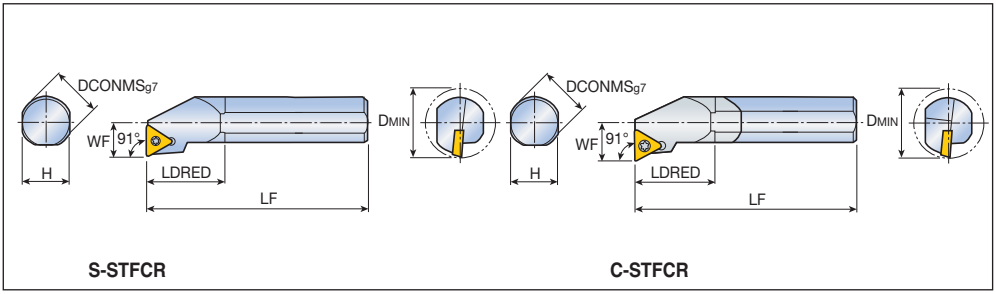
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
75°	**S16R SSKCR/L 09**	16	15	200	24.5	11	20	SC... 09T3... A274, A314
	**S20S SSKCR/L 09**	20	18	250	30	13	25	
	S25T SSKCR/L 12	25	23	300	33.4	17	32	SC... 1204...

Spare parts

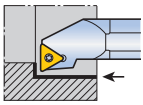
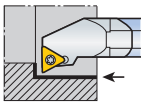
Designation	Screw	Wrench						
								
...09	SO 35080I	T 15						
...12	SO 45100I	T 20						

S-STFCR/L C-STFCR/L

Screw type boring bars



S-STFCR C-STFCR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91°	**S06H STFCR/L 06T1**	6	5.4	100	12	4.5	8	TC...T 06T1...
	**S08K STFCR/L 09**	8	7	125	20	5	10	TC... 0902... A277, A278, A315, A316
	S10K STFCR/L 09	10	9	125	22.5	6	12	
	S12M STFCR/L 09	12	11	150	30	9	16	
	S16R STFCR/L 09	16	15	200	35	11	20	
	S10K STFCR/L 1102	10	9	125	17.7	6	12	TC...T 1102...
	S12M STFCR/L 1102	12	11	150	25	9	16	
	S16R STFCR/L 1102	16	15	200	35	11	20	
	S20S STFCR/L 1102	20	18	250	36	13	25	
	S20S STFCR/L 16	20	18	250	36	13	25	TC... 16T3...
	S25T STFCR/L 16	25	23	300	49	17	32	
	S32T STFCR/L 16	32	30	300	45	22	40	
	S40T STFCR/L 16	40	37	300	60	27	50	
91°	✓ **C10K STFCR/L 09**	10	9	125	15	7	13	TC... 0902...
	✓ **C10K STFCR 1102**	10	9	125	15	7	13	TC...T 1102...
	✓ **C12M STFCR/L 1102**	12	11	150	20	9	16	
	✓ **C16R STFCR/L 1102**	16	15	200	25	11	20	

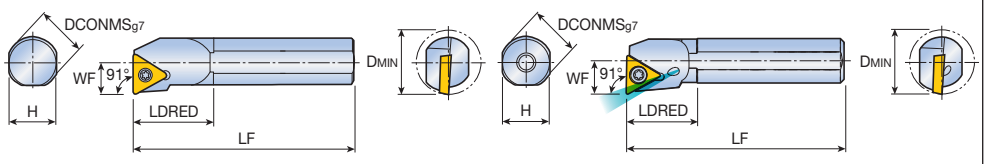
▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

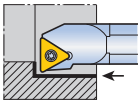
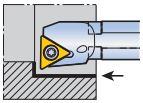
Designation	Screw	Shim	Shim screw	Wrench			
							
...06T1	TS 20043I/HG-P	-	-	T 6P	-		
S08K...09	TS 22046I	-	-	T 7	-		
...09	SO 22050I	-	-	T 7	-		
S10K...1102	SO 22050I	-	-	T 7	-		
...1102	SO 25065I	-	-	T 7	-		
S20S...16	SO 35080I	-	-	T 15	-		
S25T...16	SO 35080I	-	-	T 15	-		
S32T...16	SO 35124I	SST 32	SO 50090S	T 15	L-W 3.5		
S40T...16	SO 35124I	SST 32	SO 50090S	T 15	L-W 3.5		

S-STFPR/L A-STFPR/L

Screw type boring bars



S-STFPR A-STFPR

Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
91°	**S08K STFPR/L 09-X01**	8	7	125	15	5	10	TPGX 0902...	A279-A282, A304, A315-A316
	**S08K STFPR/L 09**	8	7	125	14	5	10	TP...T 0902...	
	S10K STFPR/L 1103	10	9	125	25	6	12	TP... 1103...	
	S12M STFPR/L 1103	12	11	150	30	8	16		
	S16R STFPR/L 1103	16	15	200	35	10	20		
	S16Q STFPR/L 1103	16	15	180	30	10	20		
	S16N STFPR/L 16	16	15	160	30	10	20	TP...T 1604...	
	S20S STFPR/L 16	20	18	250	36	12.5	25		
91°	**A08H STFPR/L 09**	8	7	100	16.7	6	11	TP...T 0902...	
	**A10K STFPR/L 1102**	10	9	125	16.4	6	12	TP...T 1102...	
	A12M STFPR/L 1102	12	11	150	19	9	16		
	A16Q STFPR/L 1102	16	15	180	20	11	20		
	A12M STFPR/L 1103	12	11	150	19	9	16	TP... 1103...	
	A16Q STFPR/L 1103	16	15	180	20.5	11	20		
	A20R STFPR/L 16T3	20	18	200	26	13	25	TP...T 16T3...	

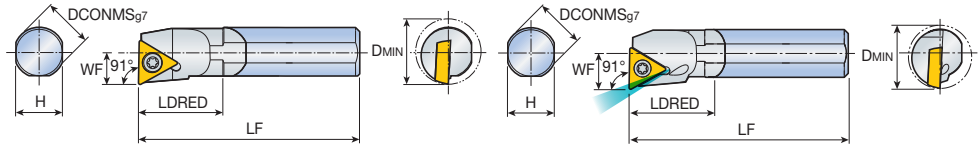
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Wrench					
							
...09-X01	SO 25055I-MO	T 8					
...09	TS 22046I	T 7					
S10 ...1103	SO 30055I	T 9					
S12 ...1103	SO 30100I	T 9					
S16 ...1103	SO 30040I	T 9					
A ...1102	SO 25050I	T 7					
A ...1103	SO 30100I	T 9					
...16T3	TS 35070I/HG	T 15					
...16	SO 35124I	T 15					

C-STFPR/L E-STFPR/L

Screw type boring bars



C-STFPR E-STFPR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91°	✓ **C10K STFPR/L 1103**	10	9	125	15	6	12	TP... 1103... A279-A282, TP...T 1103... A304, A315-A316
	✓ **C12M STFPR/L 1103**	12	11	150	20	8	16	
	✓ **C10K STFPR/L 11-FF**	10	9	125	15	6	12	
	✓ **C12M STFPR/L 11-FF**	12	11	150	18	8	16	
91°	✓ **E08K STFPR/L 09**	8	7	125	15	6	11	TP...T 0902...
	✓ **E10K STFPR/L 1102**	10	9	125	15	7	13	TP...T 1102...
	✓ **E12M STFPR/L 1102**	12	11	150	18	9	16	
	✓ **E16R STFPR/L 1102**	16	15	200	21.5	11	20	
	✓ **E12M STFPR/L 1103**	12	11	150	18	9	16	TP... 1103...
	✓ **E16R STFPR/L 1103**	16	15	200	22	11	20	

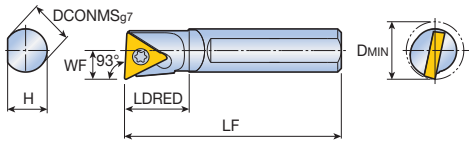
▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder
▸ Only -FF/-GF inserts available for 11 size holders

Spare parts

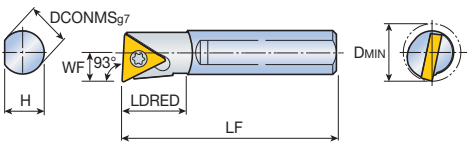
Designation	Screw	Wrench					
							
...09	TS 22046I	T 7					
C ...11-FF	SO 25065I	T 7					
C10K ...1103	SO 30055I	T 9					
C12M...1103	SO 30100I	T 9					
E ...1102	SO 25050I	T 7					
E ...1103	SO 30100I	T 9					

S-STUBR/L C-STUBR/L

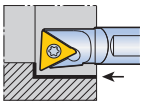
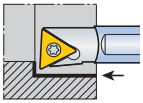
Screw type boring bars



S-STUBR



C-STUBR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	**S06H STUBR/L 06-D08**	6	5.5	100	8.6	4	8	TB...T 0601... A276
								
93°	✓ **C06J STUBR/L 06-D08**	6	5.5	110	8.6	4	8	
								

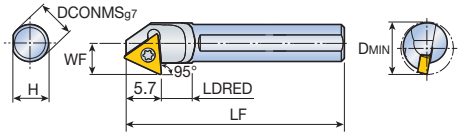
▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Wrench						
								
...06-D08	TS 20043I/HG-P	T 6P						

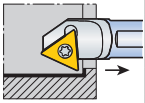
C-STZBR/L

Screw type boring bars



C-STZBR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	✓ **C06J STZBR/L 06-D085**	6	5.5	110	5	5.1	8.5	TB...T 0601... A276



▸ ✓: Designates carbide shank

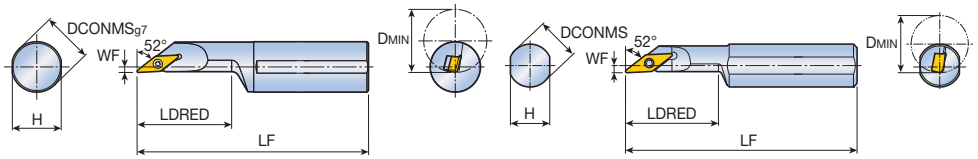
Spare parts

Designation	Screw	Wrench						
								
...06-D085	SO 25043I	T 6P						

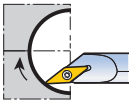
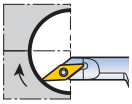
S-SVJBR/L S-SVJCR/L

T-TURN

Screw type boring bars



S-SVJBR S-SVJCR

Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
52°	**S20R SVJBR/L 11-D25**	20	18	200	37.5	2	25	VB... 1103...	A283, A284, A317
	**S25S SVJBR/L 11-D30**	25	23	250	45	3.5	30		
	S32S SVJBR/L 16	32	30	250	60	3.5	40	VB... 1604...	
	S40T SVJBR/L 16	40	37	300	75	4.5	50		
52°	**S12M SVJCR/L 08-D16**	12	11	150	26	2	16	VC... 0802...	A286
	**S16Q SVJCR/L 08-D20**	16	15	180	36	2	20		

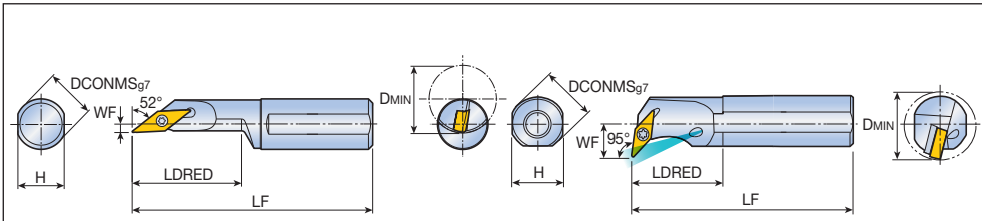
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
								
...08-...	TS 20038I/HG-P	-	-	T 6P	-			
...11-...	SO 25065I	-	-	T 7	-			
...16	SO 35124I	SSV32	SO 50090S	T15	L-W 3.5			

S-SVJPR/L A-SVLNR/L

Screw type boring bars



S-SVJPR A-SVLNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
52°	**S12M SVJPR/L 08-D16**	12	11	150	26	2	16	VP...T 0802... A287
95°	**A25T SVLNR/L 13**	25	23	300	40	16	31	VN... 13... A253-A254
	A32T SVLNR/L 13	32	30	300	45	20	38	

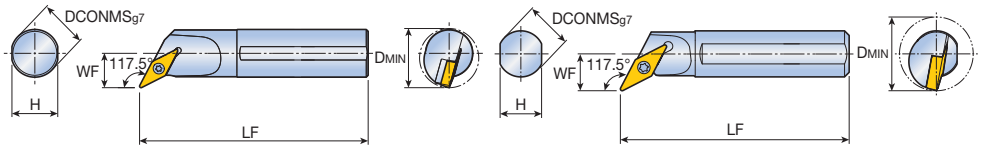
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench		Seal		
S...08-D16	TS 20043I/HG-P	-	-	T 6P	-	-		
A25T...13	SO 35120I	SSVN 2.523	TS 5035062S	T 10	L-W 3.5	PL 25		
A32T...13	SO 35120I	SSVN 2.523	TS 5035062S	T 10	L-W 3.5	PL 32		

S-SVPBR/L S-SVPCR/L

Screw type boring bars



S-SVPBR **S-SVPCR**

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
117.5°	**S16Q SVPBR/L 11-D22**	16	15	180	35	13.5	22	VB... 1103... A283-A284, A317
	S20R SVPBR/L 11-D26	20	18	200	41	15.5	26	
	S25S SVPBR/L 16	25	23	250	51	18	31	VB... 1604...
	S32S SVPBR/L 16	32	30	250	54	23	40	
117.5°	**S10K SVPCR/L 08-D16**	10	9	125	16	8	16	VC...T 0802... A285-A286, A317
	S12M SVPCR/L 11-D20	12	11	150	19	10	20	VC...T 1103...

25° max.

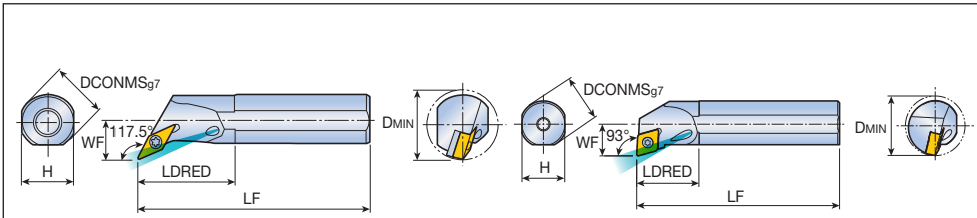
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
...08-...	TS 20038I/HG-P	-	-	T 6P	-			
...11-...	SO 25065I	-	-	T 7	-			
...16	SO 35124I	SSV32	SO 50090S	T 15	L-W 3.5			

A-SVPNR/L A-SXUNR/L

Screw type boring bars



A-SVPNR **A-SXUNR**

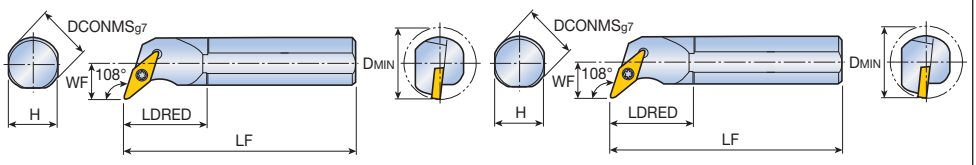
Approach angle	Designation	Dimension (mm)						Insert	
		DCONMS	H	LF	LDRED	WF	DMIN		
117.5°	**A25T SVPNR/L 13**	25	23	300	45	19	33	VN... 13...	A253-A254
	A32T SVPNR/L 13	32	30	300	47	26	44		
93°	**A25R SXUNR/L 1105**	25	23	200	33.4	17	32	XNMV 1105... POSSTURN	A259

Spare parts

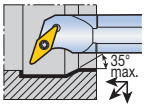
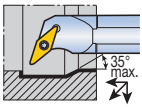
Designation	Screw	Shim	Shim screw	Wrench		Seal		
...1105	TS 40G110I	-	-	T 15	-	-		
A25T...13	SO 35120I	SSVN 2.523	TS 5035062S	T 10	L-W 3.5	PL 25		
A32T...13	SO 35120I	SSVN 2.523	TS 5035062S	T 10	L-W 3.5	PL 32		

S-SVQBR/L S-SVQCR/L

Screw type boring bars



S-SVQBR **S-SVQCR**

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
108°	**S25T SVQBR/L 16**	25	23	300	40	17	32	VB... 1604... A283-A284, A317
	**S32T SVQBR/L 16**	32	30	300	45	22	40	
	S40T SVQBR/L 16	40	37	300	41.5	27	50	
108°	**S32T SVQCR/L 16**	32	30	300	45	22	40	VC...T 1604... A285-A286, A317
	**S40T SVQCR/L 16**	40	37	300	55	27	50	

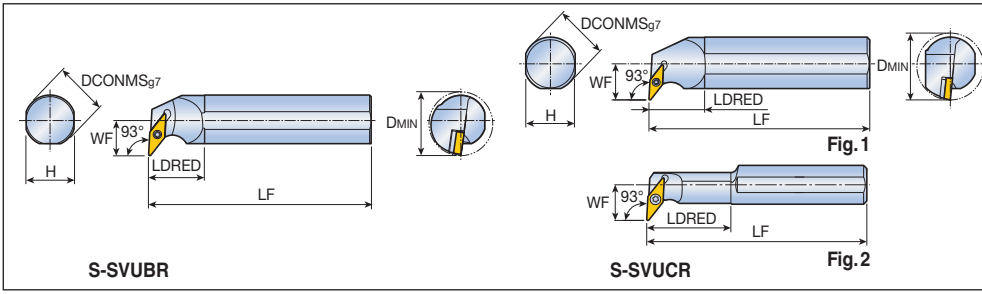
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
								
S25T...16	SO 35080I	-	-	T 15	-			
...16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5			

S-SVUBR/L S-SVUCR/L

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Fig.	Insert	
		DCONMS	H	LF	LDRED	WF	DMIN			
93°	**S32T SVUBR/L 16**	32	30	300	45	22	40		VB... 1604...	A283-A284, A317
	S40T SVUBR/L 16	40	37	300	55	27	50			
93°	**S12M SVUCR/L 08-D16**	12	11	150	26	11	16	2	VC...T 0802...	A285-A286, A317
	S16Q SVUCR/L 11-D20	16	15	180	32	15.5	20	2	VC...T 1103...	
	S20R SVUCR/L 11-D25	20	18	200	40	17.5	25	2		
	S32T SVUCR/L 16	32	30	300	35	22	40	1	VC...T 1604...	
	S40T SVUCR/L 16	40	37	300	41.5	27	50	1		

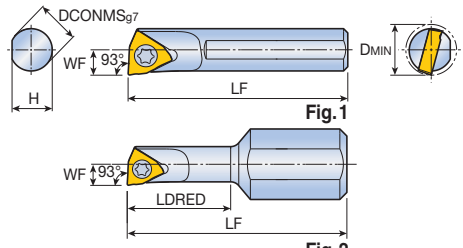
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Shim	Shim screw	Wrench				
...08-...	TS 20038I/HG-P	-	-	T 6P	-			
...11-...	SO 25065I	-	-	T 7	-			
...16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5			

S-SWUBR/L C-SWUBR/L

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Fig.	Insert
		DCONMS	H	LF	LDRED	WF	DMIN		
93°	**S05G SWUBR/L 06-D06**	5	4.75	90	-	3	6	1	WB...T 0601... A288
	S06H SWUBR/L 06-D07	6	5.5	100	-	3.5	7	1	
	S07J SWUBR/L 06-D08	7	6.5	110	-	4	8	1	
	S10H SWUBR/L 06-D06	10	9	100	18	3	6	2	
93°	✓ **C05H SWUBR/L 06-D06**	5	4.75	100	-	3	6		
	✓ **C06J SWUBR/L 06-D07**	6	5.5	110	-	3.5	7		
	✓ **C07K SWUBR/L 06-D08**	7	6.5	125	-	4	8		

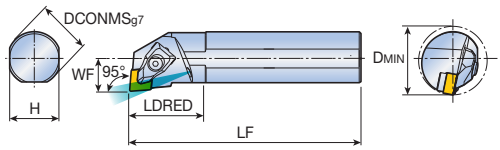
▸ ✓: Designates carbide shank ▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

Designation	Screw	Wrench						
								
...06-...	TS 20038I/HG-P	T 6P						

A-TCLNR/L

T-holder type boring bars



A-TCLNR

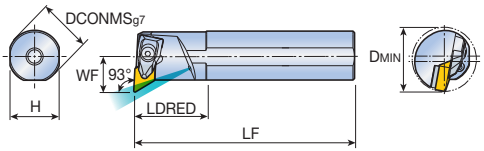
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**A25T TCLNR/L 12**	25	23	300	45	17	32	CN... 1204... A228, A230-A234, A235, A293, A294, A305
	A32T TCLNR/L 12	32	30	300	45	22	40	
	A40T TCLNR/L 12	40	37	300	45	27	50	
	A50U TCLNR/L 12	50	47	350	45	35	63	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
A25T...12	DLM 4	DLS 4	DSP 4	LSC 42	TS 50A105I	NZ 62	L-W 3	T 20
A32T...12	DLM 4	DLS 4	DSP 4	LSC 42	TS 50A105I	NZ 62	L-W 3	T 20
A40T...12	DLM 4	DLS 4	DSP 4	TSC 44	SO 40050I	NZ 104	L-W 3	T 15
A50U...12	DLM 4	DLS 4	DSP 4	TSC 44	SO 40050I	NZ 104	L-W 3	T 15

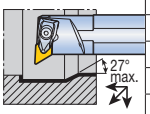
A-TDUNR/L

T-holder type boring bars



A-TDUNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	**A32T TDUNR/L 15**	32	30	300	45	22	40	DN... 1506... A236-A240, A295, A306
	A40T TDUNR/L 15	40	37	300	45	27	50	
	A50U TDUNR/L 15	50	47	350	45	35	63	

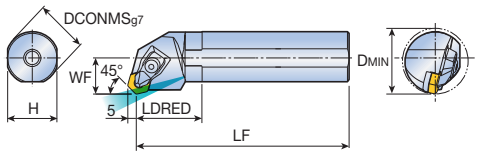


Spare parts

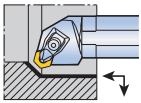
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
A32T ...15	DLM 4	DLS 4	DSP 4	LSD 42	TS 50A105I	NZ 62	L-W 3	T 20
...15	DLM 4	DLS 4	DSP 4	TSD 43	SO 40050I	NZ 104	L-W 3	T 15

A-THSNR/L

T-holder type boring bars



A-THSNR

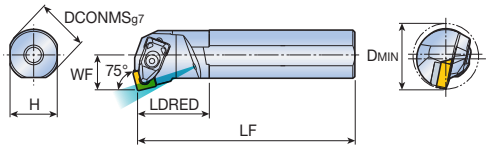
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
45°	**A32T THSNR/L 05**	32	30	300	40	22	40	HN...G 0504... A241
	**A40T THSNR/L 05**	40	37	300	45	27	50	
	A50U THSNR/L 05	50	47	350	45	35	63	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
A32T ...05	DLM 4	DLS 4	DSP 4	TSH 42	SO 40050I	NZ 62	L-W 3	T 15
...05	DLM 4	DLS 4	DSP 4	TSH 44	SO 40050I	NZ 104	L-W 3	T 15

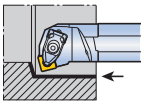
A-TSKNR/L

T-holder type boring bars



A-TSKNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
75°	**A25T TSKNR/L 12**	25	23	300	45	17	32	SN... 1204... A243-A248, A298, A299, A308



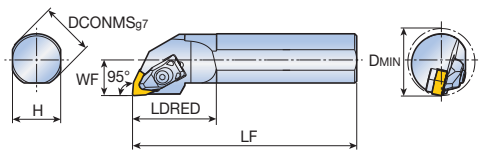
▸ L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

Spare parts

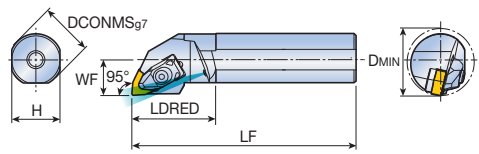
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
A25T ...12	DLM 4	DLS 4	DSP 4	LSS 42	TS 50A105I	NZ 62	L-W 3	T 20

S-TWLNR/L A-TWLNR/L

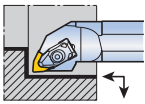
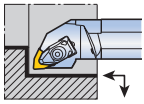
T-holder type boring bars



S-TWLNR



A-TWLNR

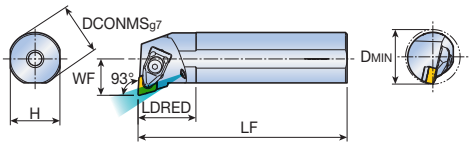
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**S25T TWLNR/L 08**	25	23	300	35	17	32	WN... 0804...
	**S32T TWLNR/L 08**	32	30	300	45	22	40	A255-A257, A302, A311
95°	**A20S TWLNR/L 06**	20	18	250	35	13	25	WN... 0604...
	**A25T TWLNR/L 06**	25	23	300	40	17	32	
	A32T TWLNR/L 06	32	30	300	45	22	40	
	A25T TWLNR/L 08	25	23	300	40	17	32	WN... 0804...
	A32T TWLNR/L 08	32	30	300	45	22	40	
	A40T TWLNR/L 08	40	37	300	45	27	50	

Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
A20S...06	DLM 3	DLS 3	DSP 3	-	-	NZ 62	L-W 2.5	-
...06	DLM 3	DLS 3	DSP 3	PSW 32	SO 40090I	NZ 62	L-W 2.5	T 15
...08	DLM 4	DLS 4	DSP 4	PSW 42	TS 50A105I	NZ 62	L-W 3	T 20
A40T...08	DLM 4	DLS 4	DSP 4	TSW 44	SO 40050I	NZ 104	L-W 3	T 15

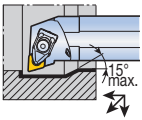
A-TXUNR/L

T-holder type boring bars



A-TXUNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	**A32S TXUNR/L 1105**	32	30	250	35	22	40	XNMV 1105...
								POSSTURN
								A259

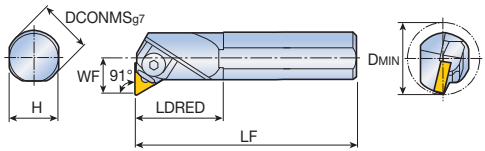


Spare parts

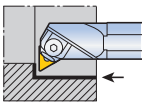
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
A32S...1105	DLM 3.5-NX	DLS 4	DSP 4	LSX 3.52B	TS 50A105I	NZ 62	L-W 3	T 20

S-WTFNR/L

Wedge clamp type boring bars



S-WTFNR



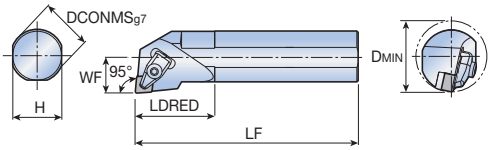
Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91°	**S25T WTFNR/L 16**	25	23	300	50	17	32	TN... 1604...
	S32T WTFNR/L 16	32	30	300	55	22	40	A249-A252, A301, A309
	S40T WTFNR/L 16	40	37	300	60	27	50	
	S40T WTFNR/L 22	40	37	300	60	27	50	TN... 2204...
	S50U WTFNR/L 22	50	47	350	65	35	63	

Spare parts

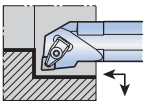
Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench	
S25T ...16	WC 33	WCS 4B	WSR 4	-	WSS 33-1	L-W 3	
...16	WC 33	WCS 4	WSR 4	WST 33	WSS 33	L-W 3	
...22	WC 43	WCS 4	WSR 4	WST 43	WSS 43	L-W 3	

S-TCLNR/L-CH

T-holder type boring bars for CH dimple insert



S-TCLNR-CH

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95°	**S40T TCLNR/L 1207-CH**	40	37	300	50	27	70	CN...X 1207... A294
	**S50U TCLNR/L 1207-CH**	50	47	350	50	32	70	

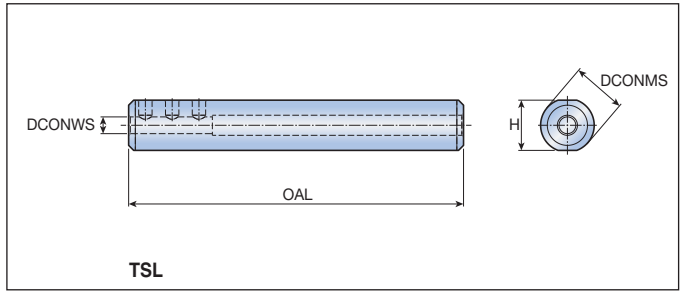
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
							
...1207-CH	CCL 4	CSC 4	DSP 5	TSC 43	SO 40050I	L-W 4	T 15

TSL

Sleeve





TSL

Designation	Dimension (mm)			
	DCONWS	H	OAL	DCONMS
TSL 16-04	4	15	100	16
16-05	5	15	100	16
16-06	6	15	100	16
16-07	7	15	100	16

Spare parts

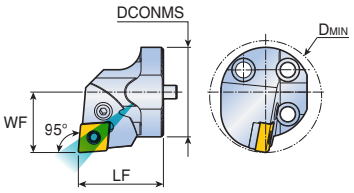
Designation	Set screw	Wrench					
							
TSL...	SS M4x0.7x4	L-W 2					

QH-PCLNR/L QH-PDUNR/L

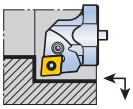
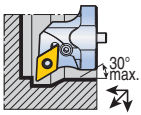
HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





QH-PCLNR QH-PDUNR

Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
95°	**QH32-PCLNR/L-12**	32	32	22	40	CN... 1204...
	**QH40-PCLNR/L-12 ***	40	38	27	50	A228, A230-A234, A235, A293, A294, A305
93°	**QH40-PDUNR/L-1506 ***	40	38	27	50	DN... 1506...
						A236-A240, A295, A356

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

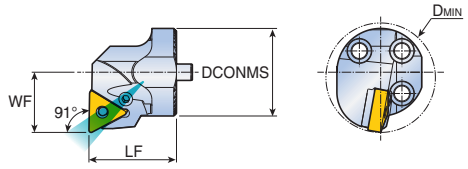
Spare parts

Designation	Lever	Screw	Shim		Shim pin	Wrench	
							
QH...12	LCL 4	LCS 4	LSC 42	-	LSP 4	L-W 3	
QH...1506	LCL 4A	LCS 4	-	LSD 42	LSP 4	L-W 3	

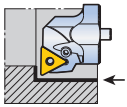
QH-PTFNR/L

Screw type boring heads





QH-PTFNR

Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
91°	**QH32-PTFNR/L-16**	32	32	22	40	TN... 1604...
	**QH40-PTFNR/L-16 ***	40	38	27	50	A249-A252, A301, A309

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench		
							
QH...16	LCL 3	LCS 3	LST 31.8	LSP 3A	L-W 2.5		

QH-TCLNR/L

Screw type boring heads



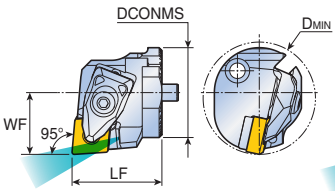


Fig.1

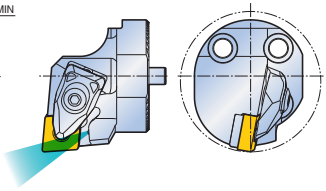
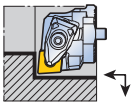


Fig.2

QH-TCLNR

Approach angle	Designation	Dimension (mm)				Fig.	Insert
		DCONMS	LF	WF	DMIN		
95°	**QH32-TCLNR/L-12**	32	32	22	40	1	CN... 1204...
	**QH40-TCLNR/L-12 ***	40	38	27	50	2	A228, A230-A234, A235, A293, A294, A305

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

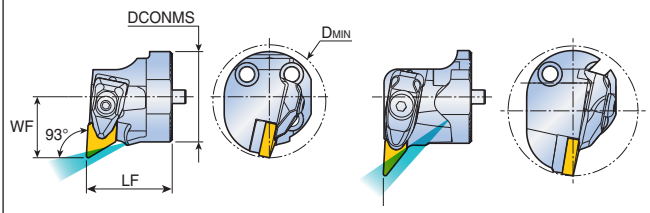
Designation	Lever	Clamp screw	Spring	Shim	Shim screw	Wrech	
							
QH...12	DLM 4	DLS 4	DSP 4	LSC 42	TS 50A105I	L-W 3	T 20

QH-TDUNR/L QH-TVUNR/L

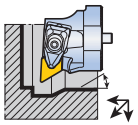
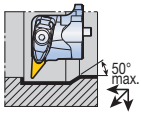
HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





QH-TDUNR QH-TVUNR

Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
93°	**QH40-TDUNR/L-1504 ***	40	38	27	50	DN... 1504...
	**QH40-TDUNR/L-1506 ***	40	38	27	50	DN... 1506... A236-A240, A295, A306
93°	**QH40-TVUNR/L-16 ***	40	38	34	56	VN... 16... A253-A254, A302, A310
						

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

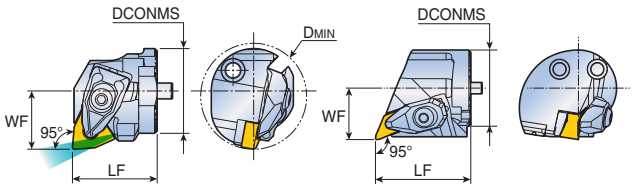
Designation	Clamp	Clamp screw	Spring	Shim		Shim screw	Wrench	
								
QH...1504	DLM 4	DLS 4	DSP 4	LSD 43	-	SO 50090I	L-W 3	T 20
QH...1506	DLM 4	DLS 4	DSP 4	LSD 42	-	TS 50A105I	L-W 3	T 20
QH...16	DLM 3V	DLS 5	DSP 5	-	TSV 33	SO 35080I	L-W 4	T 15

QH-TWLNR/L QH-TZQNR-TB

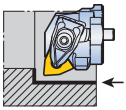
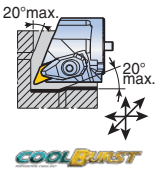
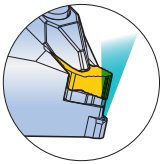
HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





QH-TWLNR **QH-TZQNR-TB** COOLBURST

Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
95°	**QH32-TWLNR/L-08**	32	32	22	40	WN… 0804… A255-A257, A302, A311
	**QH40-TWLNR/L-08 ***	40	38	27	50	
95°	**QH40-TZQNR-1410-TB**	40	50	27	-	ZNMV 1410… A260
 COOLBURST						

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

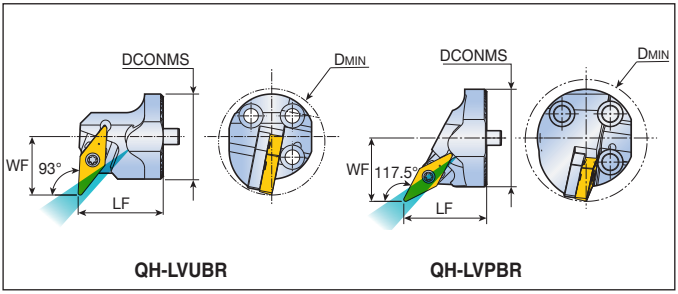
Designation	Clamp		Clamp screw	Spring	Shim		Shim screw	Wrench	
									
QH...08	DLM 4	-	DLS 4	DSP 4	PSW 42	-	TS 50A105I	L-W 3	T 20
QH...14...TB	-	DLM 3.3Z-NV	DLS 5	DSP 5	-	TSZ 140310	TS 35083I/HG	L-W 4	T 10

QH-LVUBR QH-LVPBR

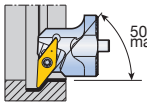
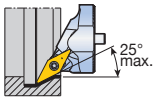
HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





QH-LVUBR QH-LVPBR

Approach angle	Designation	Dimension (mm)				Coolant hole	Insert
		DCONMS	LF	WF	DMIN		
93°	**QH32-LVUBR-16**	32	32	22	40	●	VBMX 1604... A284
	**QH40-LVUBR-16**	40	32	27	50	●	MULTI-TURN
117.5°	**QH32-LVPBR-16**	32	34	20	40	●	VBMX 1604... A284
	**QH40-LVPBR-16**	40	34	26	50	●	MULTI-TURN

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

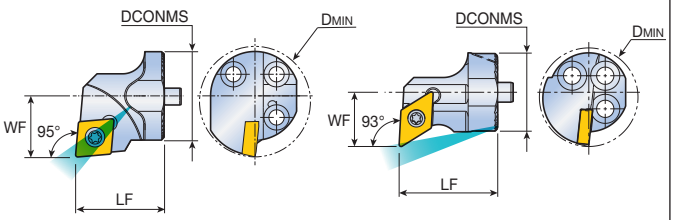
Designation	Screw	Shim	Shim screw	Wrench			
							
...LVUBR...16	SO 35124I	SSVX 32	TS 5035062S	L-W 3.5	T 15		
...LVPBR...16	SO 35124I	SSVX 32	TS 5035062S	L-W 3.5	T 15		

QH-SCLCR/L QH-SDUCR/L

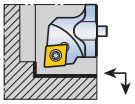
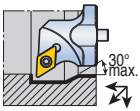
HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





QH-SCLCR **QH-SDUCR**

Approach angle	Designation	Dimension (mm)				Coolant hole	Insert	
		DCONMS	LF	WF	DMIN			
95°	**QH16-SCLCR/L-06**	16	20	11	20	●	CC... 0602...	A262-A265, A312
	**QH20-SCLCR/L-09**	20	20	13	25	●	CC... 09T3...	
	QH25-SCLCR/L-09	25	22	17	32	●		
	QH32-SCLCR/L-09	32	32	22	40	●		
	QH32-SCLCR/L-12	32	32	22	40	●	CC... 1204...	
	QH40-SCLCR/L-12 *	40	38	27	50	●		
93°	**QH16-SDUCR/L-07**	16	20	11	20	●	DC... 0702...	A267-A270, A313
	**QH20-SDUCR/L-11**	20	20	13	25	●	DC... 11T3...	
	QH25-SDUCR/L-11	25	22	17	32	●		
	QH32-SDUCR/L-11	32	32	22	40	●		
	QH40-SDUCR/L-11 *	40	38	27	50	●		

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

Designation	Screw	Shim		Shim screw	Wrench		
							
...06	SO 250650I	-	-	-	-	T 7	
...09	SO 35080I	-	-	-	-	T 15	
QH32...12	SO 45100I	-	-	-	-	T 20	
QH40...12	SO 45130I	SSC 43N	-	SO 60105S	L-W 5	T 20	
...07	SO 25065I	-	-	-	-	T 7	
...11	SO 35080I	-	-	-	-	T 15	
QH40...11	SO 35124I	-	SSD 32	SO 50090S	L-W 3.5	T 15	

QH-STFCR/L

Screw type boring heads



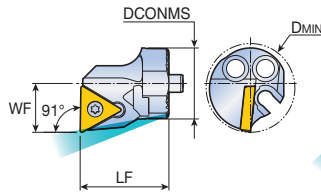


Fig.1

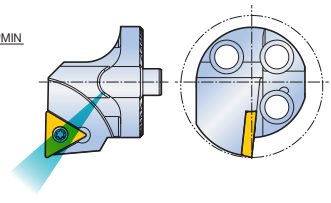
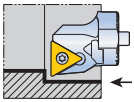


Fig.2

QH-STFCR

Approach angle	Designation	Dimension (mm)				Coolant hole	Fig.	Insert
		DCONMS	LF	WF	DMIN			
91°	**QH16-STFCR/L-1102**	16	20	11	20	●	1	TC…T 1102…
	**QH20-STFCR/L-1102**	20	20	13	25	●	2	
	QH25-STFCR/L-1102	25	22	17	32	●	2	
	QH32-STFCR/L-16	32	32	22	40	●	2	TC… 16T3…
	QH40-STFCR/L-16 *	40	38	27	50	●	2	 A277, A278, A315, A316

▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

Designation	Screw	Shim	Shim screw	Wrench			
							
...-1102	SO 25065I	-	-	T 7	-		
...-16	SO 35124I	SST 32	SO 50090S	T 15	L-W 3.5		

QH-SVUBR/L

Screw type boring heads



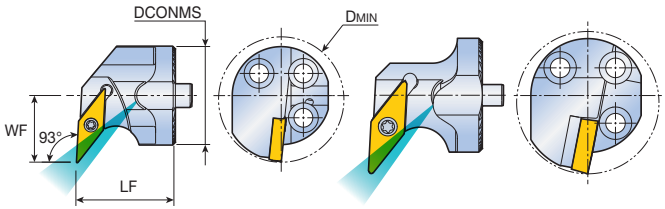
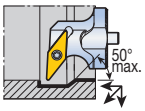


Fig.1 Fig.2

QH-SVUBR

Approach angle	Designation	Dimension (mm)				Coolant hole	Fig.	Insert
		DCONMS	LF	WF	DMIN			
93°	**QH20-SVUBR/L-11**	20	20	16	27	●	1	VB... 1103...
	QH25-SVUBR/L-11	25	25	17	31	●	1	
	QH32-SVUBR/L-16	32	32	22	40	●	2	VB... 1604...
	QH40-SVUBR/L-16 *	40	32	27	50	●	2	A283, A284, A317



▸ *: When applying Ø50mm shank, DMIN for the assembly is Ø60mm
When applying Ø60mm shank, DMIN for the assembly is Ø70mm

Spare parts

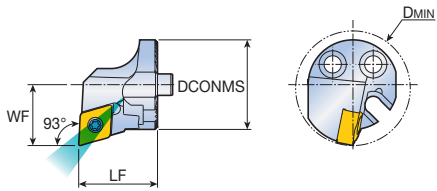
Designation	Screw	Shim	Shim screw	Wrench			
							
SVUBR/L-11	SO 25065I	-	-	T 7	-		
SVUBR/L-16	SO 35124I	SSV 32	SO 50090S	T 15	L-W 3.5		

QH-SXUNR/L

HUSHBORE ANTI VIBRATION BAR

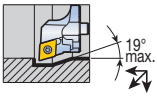
Screw type boring heads





QH-SXUNR

Approach angle	Designation	Dimension (mm)				Coolant hole	Insert
		DCONMS	LF	WF	DMIN		
93°	**QH32-SXUNR/L-1105**	32	32	22	40	●	XNMV 1105...
							POSSTURN
							A259

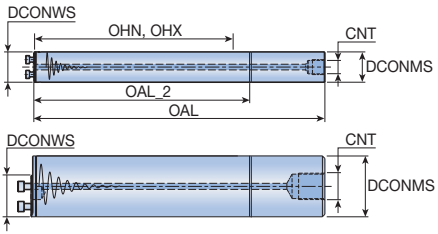


Spare parts

Designation	Screw	Wrench					
							
...1105	TS 40G110I	T 15					

Anti-vibration shanks for boring





Designation	Dimension (mm)							Coolant hole	Kg	Fig.
	DCONMS	DCONWS	OAL	OAL_2	OHN	OHX	CNT			
QS16A-7D	16	16	156.3	100	55	92	G 1/8	●	0.24	1
QS16E-10D(1)	16	16	204.3	-	96	140	-	●	0.46	1
QS20A-7D	20	20	200.3	125	70	120	G 1/4	●	0.47	1
QS20E-10D(1)	20	20	260.3	-	120	180	-	●	0.90	1
QS25A-7D	25	25	257.5	155	88	155	G 1/4	●	0.95	1
QS25A-10D	25	25	332.5	255	155	230	G 1/4	●	1.28	1
QS25E-12D(1)	25	25	380.0	-	230	280	G 1/8	●	1.75	1
QS25E-14D(1)	25	25	430.0	-	280	330	G 1/8	●	2.01	1
QS32A-7D	32	32	323.0	190	120	192	G 3/8	●	2.06	1
QS32A-10D	32	32	419.0	320	192	288	G 3/8	●	2.75	1
QS32E-12D(1)	32	32	480.0	-	288	352	G 1/4	●	3.52	1
QS32E-14D(1)	32	32	544.0	-	352	416	G 1/4	●	4.13	1
QS40A-7D	40	40	411.0	240	128	251	G 1/2	●	3.98	1
QS40A-10D	40	40	531.0	410	248	368	G 1/2	●	5.25	1
QS40E-12D(1)	40	40	608.0	-	368	448	G 3/8	●	6.96	1
QS40E-14D(1)	40	40	688.0	-	448	528	G 3/8	●	7.97	1
QS50A-7D	50	40	523.0	305	168	318	G 1/2	●	7.21	2
QS50A-10D	50	40	673.0	520	318	468	G 1/2	●	10.44	2
QS50E-12D(1)	50	40	768.0	-	468	568	G 1/2	●	14.00	2
QS50E-14D(1)	50	40	868.0	-	568	668	G 1/2	●	15.65	2
QS60A-7D	60	40	633.0	380	208	388	G 3/4	●	12.68	2
QS60A-10D	60	40	813.0	630	388	568	G 3/4	●	18.31	2
QS60E-12D(1)	60	40	920.0	-	588	688	G 3/4	●	30.00	2
QS60E-14D(1)	60	40	1040.0	-	688	808	G 3/4	●	30.00	2

- (1) Carbide shank
- OHN: Minimum overhang
- OHX: Maximum overhang
- OAL_2: Minimum length after shortening(only steel bar can be shortened)

Spare parts

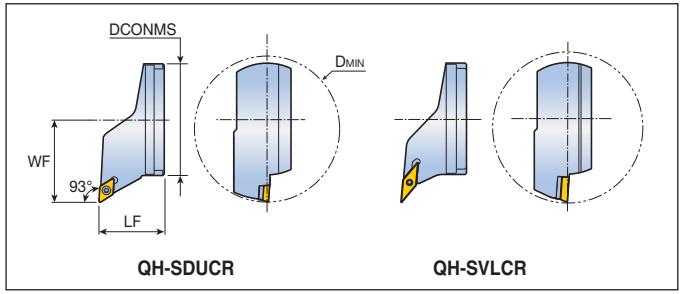
Designation	Screw	Wrench					
							
QS16	SH M3x0.5X10	L-W 2.5					
QS20	SH M3.5x0.6X10	L-W 2.5					
QS25	SH M4x0.7X12	L-W 3					
QS32	SH M5x0.8X12	L-W 4					
QS40/50/60	SH M6x1X16	L-W 5					

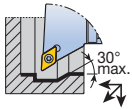
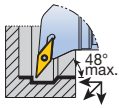
QH-SDUCR/L-VH QH-SVLCR/L-VH

HUSHBORE ANTI VIBRATION BAR

Screw type boring heads





Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
93°	**QH80-SDUCR/L-11-VH**	77	45	57	100	DC...T 11T3... A268-A270, A313
						
95°	**QH80-SVLCR/L-16-VH**	77	45	57	100	VC...T 1604... A285
						

Spare parts

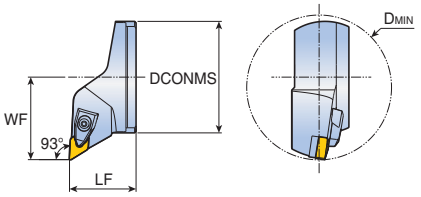
Designation	Screw	Shim		Shim screw	Stopper screw	Wrench		
								
SDUCR/L	SR 16-236 P	TDC 3-1P	-	SR TC-3P	SH M3x0.5x6	T-15/5	L-W 4	L-W 2.5
SVLCR/L...	SR 16-236 P	-	TVC 3-1P	SR TC-3P	SH M3x0.5x6	T-15/5	L-W 4	L-W 2.5

QH-TDUNR/L-VH

HUSHBORE ANTI VIBRATION BAR

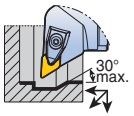
Screw type boring heads





QH-TDUNR

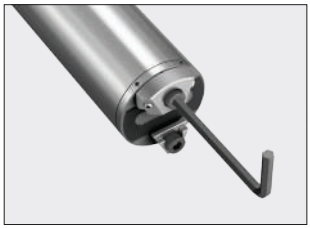
Approach angle	Designation	Dimension (mm)				Insert
		DCONMS	LF	WF	DMIN	
93°	**QH80-TDUNR/L-1504-VH**	77	46	57	100	DN... 1504...
	QH80-TDUNR/L-1506-VH	77	46	57	100	DN... 1506... A236-A240, A295, A306



Spare parts

Designation	Shim	Shim screw	Clamp	Clamp Screw	Spring	Wrench	
							
-1504-VH	RDT 443	CSTB4S	DLM 4	DLS 4	DSP 4	T-15/5	L-W 3.0
-1506-VH	RDT 433	CSTB4S	DLM 4	DLS 4	DSP 4	T-15/5	L-W 3.0

Head assembly instructions



❶ Loosen the screw.



❷ Slide the head into the slot.

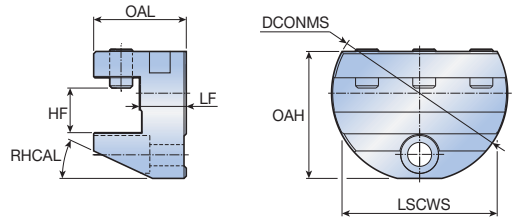


❸ Tighten the screw.

QH80-VH

Perpendicular adaptor for external square-shank tools





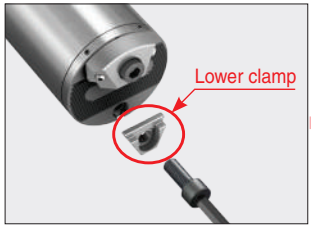
Designation	Dimension (mm)						
	DCONMS	LF	HF	OAL	OAH	LSCWS	RHCAL
QH80- 2020-VH	77.0	20.5	20.0	40.5	55.5	67.8	25.0

- Used with external 20x20 square holders
- Since there is a deviation in the DMIN value for each holder, it is recommended to use the boring head after checking for interference with the workpiece.

Spare parts

Designation	Screw	Wrench				
						
QH80	SR M10x16 DIN913	L-W 5				

Square holder assembly instructions



❶ Remove the lower clamp.



❷ After sliding the adapter into the boring bar, tighten the clamp screw.

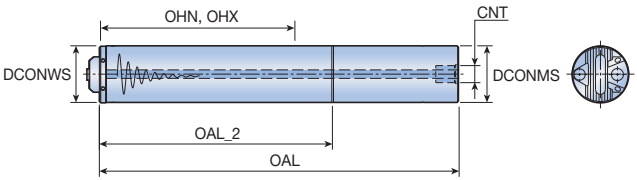


❸ Slide the square holder into the adapter and tighten the adapter screw.

QS-VH

Anti-vibration shanks for boring





Designation	Dimension (mm)							Coolant hole	Kg
	DCONMS	DCONWS	OAL	OAL_2	OHN	OHX	CNT		
QS80A-7D-VH	80	80	880	630	396	515	G 3/4	●	31.80
QS80A-10D-VH	80	80	1200	630	515	755	G 3/4	●	52.30
QS80E-12D-VH(1)	80	80	1240	-	755	916	G 3/4	●	60.00
QS80E-14D-VH(1)	80	80	1400	-	916	1076	G 3/4	●	70.00

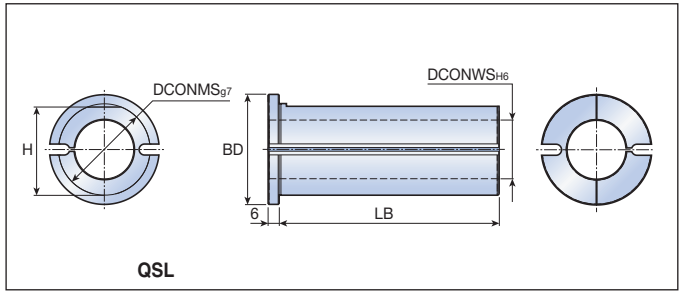
▸ (1) Carbide shank
▸ OHN: Minimum overhang
▸ OHX: Maximum overhang
▸ OAL_2: Minimum length after shortening(only steel bar can be shortened)

Spare parts

Designation	Upper Clamp	Lower Clamp	Screw		Spring	Wrench
						
QS80	UCP-M10	LCP-M10	SH M10X1.5X25	SH M3X0.5X6	DSP 12.5X0.9X18	L-W 8

HUSH-BORE sleeve





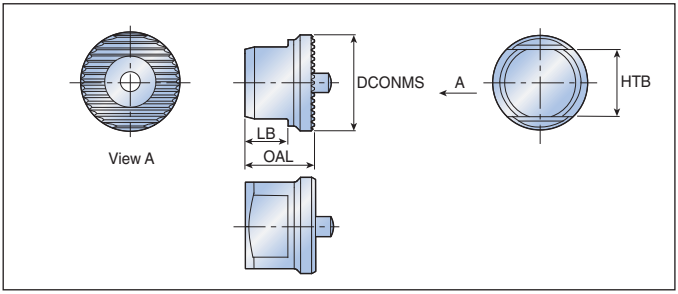
QSL

Designation	Dimension (mm)				
	DCONMS	DCONWS	BD	LB	H
QSL- 32-16-L66	32	16	42	60	31.0
32-20-L66	32	20	42	60	31.0
32-25-L66	32	25	42	60	31.0
40-16-L106	40	16	50	100	38.5
40-20-L106	40	20	50	100	38.5
40-25-L106	40	25	50	100	38.5
40-32-L106	40	32	50	100	38.5
50-20-L126	50	20	60	120	48.5
50-25-L126	50	25	60	120	48.5
50-32-L126	50	32	60	120	48.5
50-40-L126	50	40	60	120	48.5
60-32-L156	60	32	70	150	58.5
60-40-L156	60	40	70	150	58.5
60-50-L156	60	50	70	150	58.5

QH-SET

Center height set up device for Anti-vibration boring bars



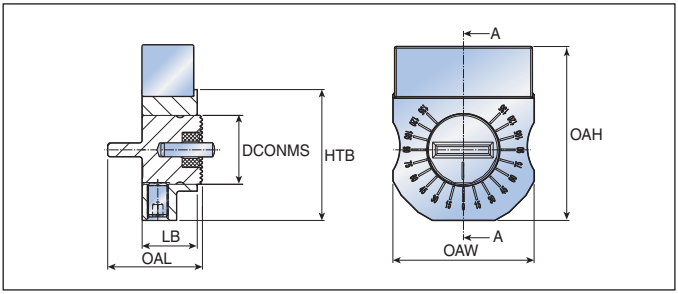


Designation	Dimension (mm)				
	DCONMS	HTB	OAL	LB	Shank
QH-SET 16-25	20	15	14.5	9	16, 20, 25
QH-SET 32-60	29	16	17.5	11.5	32, 40, 50, 60

QH-SET-LEV

Center height set up device for Anti-vibration boring bars

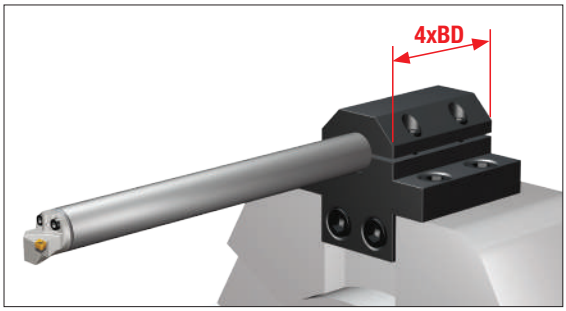




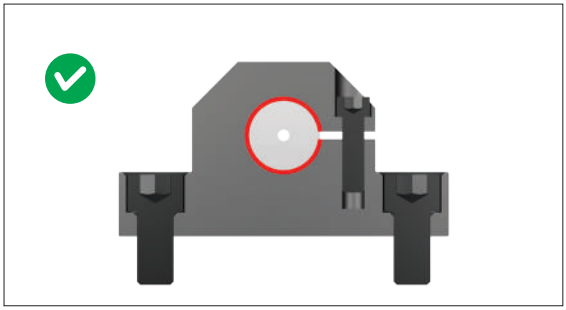
Designation	Dimension (mm)						
	DCONMS	HTB	OAL	LB	Shank	OAH	OAW
QH-SET 16-25-LEV	20	38	27.5	16	16, 20, 25	50.5	41
QH-SET 32-60-LEV	29	49	28.0	16	32, 40, 50, 60	59.0	49



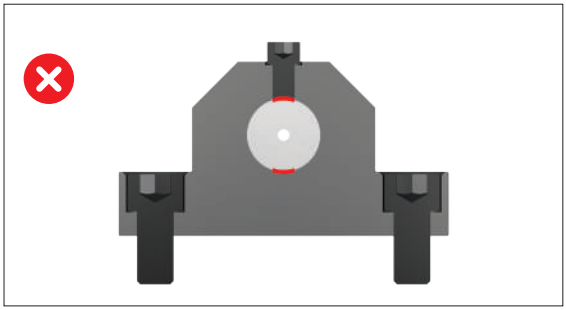
Set the shank to the holder so that the head's upper surface is horizontal to the gauge.



The mounted shank requires a length of at least 4XBD.



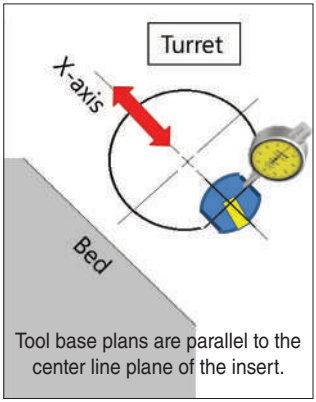
TaeguTec recommends the use of slit holders that have the full surface contact of the shank's cylinder.

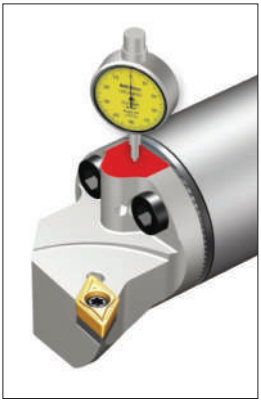


It is not recommended to use side lock clamping during operation; this will put the screw in direct contact with the shank.

How to set up Center Height?

Method 1. Using Dial Indicator on head of HUSHBORE

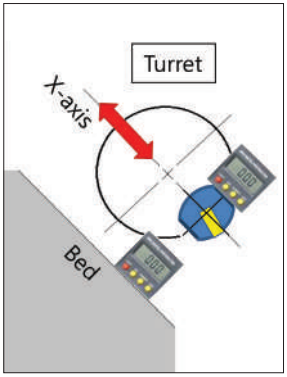






The planes that serve as the foundation for the top and bottom of the tool are designed/made parallel to the centerline plane of the insert. Therefore, you can set the center height of the cutting edge using the face of the head and the dial indicator. For good performance, keep the scale of the dial gauge within ±0.01mm while rotating the HushBore body minutely.

Method 2. Using digital magnetic protractor on head of HUSHBORE



❶



❷



❶ Attach digital magnetic protractor to the machine axis plane. Calibrate the angle to zero on the bed plate.

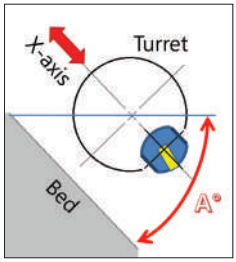
❷ Attach digital magnetic protractor to the Hushbore head top or bottom plane and set the head position to zero angle, while rotating the HushBore shank

※ This item is not for sale. You can easily buy at website such as Amazon, Aliexpress, etc

How to set up Center Height?

Method 3. Using bubble level device after assembling on HUSHBORE shank









❶ Assemble bubble level device on HUSHBORE shank

- Magnetic core makes it easy to attach bubble level devices to the HushBore shank.

❷ Check machine axis angle(Bed tilted angle).

❸ Match bubble level device angle with machine axis angle.(A degree)

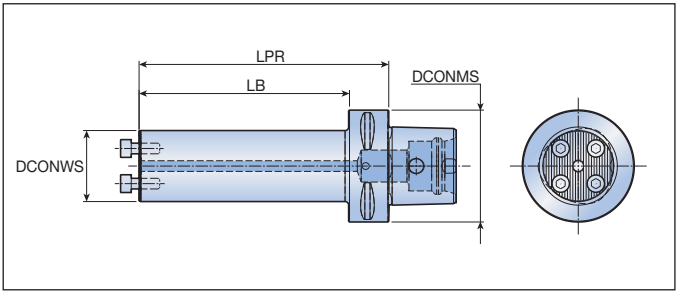
❹ Set bubble level to the middle between the lines while rotating the HushBore shank.

※ Item no. : 3342510 AVC-SET 16-25-LEV for Ø16~Ø25

3342511 AVC-SET 32-60-LEV for Ø32~Ø60

C-ADAPTERs with HUSH-BORE head connection





Designation	Dimension (mm)				Coolant hole
	DCONMS	DCONWS	LPR	LB	
C4-CS16A-2.5D	40	16	40	20	●
C4-CS20A-2.5D	40	20	50	30	●
C4-CS25A-2.5D	40	25	55	35	●
C4-CS32A-2.5D	40	32	75	55	●
C4-CS40A-3D	40	40	80	80	●
C5-CS16A-2.5D	50	16	40	20	●
C5-CS20A-2.5D	50	20	50	30	●
C5-CS25A-2.5D	50	25	55	35	●
C5-CS32A-2.5D	50	32	75	55	●
C5-CS40A-3D	50	40	100	80	●
C6-CS16A-2.5D	63	16	40	18	●
C6-CS20A-2.5D	63	20	50	28	●
C6-CS25A-2.5D	63	25	65	43	●
C6-CS32A-3D	63	32	90	68	●
C6-CS32A-4D	63	32	125	103	●
C6-CS40A-3D	63	40	100	78	●
C6-CS40A-4D	63	40	140	118	●
C6-CS16E-5D	63	16	80	58	●
C6-CS20E-5D	63	20	100	78	●
C6-CS25E-5D	63	25	115	93	●
C6-CS32E-5D	63	32	150	128	●
C6-CS40E-5D	63	40	185	163	●

▸ 5D: Carbide core type

Spare parts

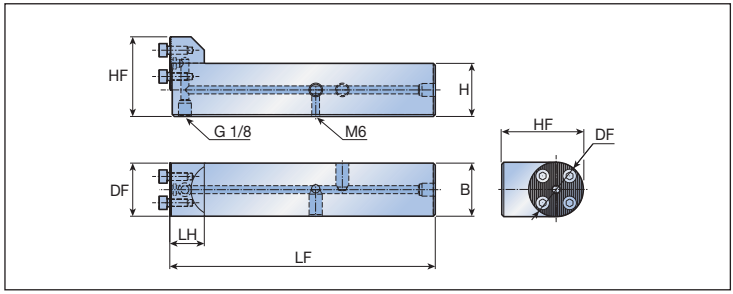
Designation	Screw	Wrench			
					
CS16	SH M3x0.5X10	L-W 2.5			
CS20	SH M3.5x0.6X10	L-W 2.5			
CS25	SH M4x0.7X12	L-W 3			
CS32	SH M5x0.8X12	L-W 4			
CS40	SH M6x1X16	L-W 5			

▸ Please refer to A136, A203-A212 pages for HUSH-BORE heads

QSS

Head changeable square shank





Designation	Dimension (mm)						Coolant hole
	B	H	LF	LH	HF	DF	
QSS- N2020-D20-TB-MC	20	20	92	21	30	20	●
N2020-D25-TB-MC	20	20	92	21	32.5	25	●
N2020-D32-TB-MC	20	20	92	21	36	32	●
N2525-D25-TB-MC	25	25	107	21	37.5	25	●
N2525-D32-TB-MC	25	25	107	21	41	32	●
N2525-D40-TB-MC	25	25	107	21	45	40	●
N3232-D32-TB-MC	32	32	152	21	48	32	●
N3232-D40-TB-MC	32	32	152	26	52	40	●
N4040-D40-TB-MC	40	40	200	26	60	40	●

Spare parts

Designation	Screw	Plug		Wrench	
					
...-D20...	SH M3.5x0.6X10	RSS M6	PLG G1/8-L6.5	L-W 2.5	
...-D25...	SH M4x0.7X12	RSS M6	PLG G1/8-L6.5	L-W 3	
...N2020/N2525-D32...	SH M5x0.8X12	RSS M6	PLG G1/8-L6.5	L-W 4	
...N3232-D32...	SH M5x0.8X12	-	PLG G1/8-L6.5	L-W 4	
...N2525-D40...	SH M6x1X16	RSS M6	PLG G1/8-L6.5	L-W 5	
...N3232/N4040-D40...	SH M6x1X16	-	PLG G1/8-L6.5	L-W 5	

▸ Please refer to A136, A203-A212 pages for HUSH-BORE heads

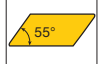
Turning Inserts



Insert Designation System

C	N	M	G
1	2	3	4

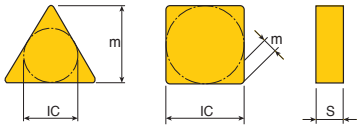
1 Shape

											
C	D	E	H	K	R	S	T	V	W	X	Z

2 Clearance angle

			
N	B	C	P

3 Tolerance



Class	m	S	IC
A	±0.005	±0.025	±0.025
F	±0.005	±0.025	±0.013
C	±0.013	±0.025	±0.025
H	±0.013	±0.025	±0.013
E	±0.025	±0.025	±0.025
G	±0.025	±0.13	±0.025
M	±0.08~±0.18	±0.13	±0.05~±0.13
U	±0.13~±0.38	±0.13	±0.08~±0.25

Diameter of IC	Tolerance			
	On m		On IC	
	Class M	Class U	Class M	Class U
6.35	±0.08	±0.13	±0.05	±0.08
9.52	±0.08	±0.13	±0.05	±0.08
12.70	±0.13	±0.20	±0.08	±0.13
15.88	±0.15	±0.27	±0.10	±0.18
19.05	±0.15	±0.27	±0.10	±0.18
25.40	±0.18	±0.38	±0.13	±0.25
31.75	±0.18	±0.38	±0.13	±0.25

4 Type

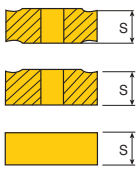
					
A	G	M	R	B, W	T, H

12	04	08	(R)	MP
5	6	7	8	9

5 Cutting edge length

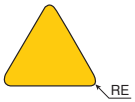
I.C(mm)	C	D	E	R	S	T	V,Y	W	K	H
3.97	03	04			03	06		02		
4.76	04	05			04	08	08			
5.56	05	06			05	09	09	03		
6.35	06	07			06	11	11			
7.94	08	09			07	13	13	05		
8.0				08						
9.52	09	11		09	09	16	16	06	16	
10.0				10						
11.11		13								
12.0				12						
12.7	12	15	13		12	22	22	08		05
15.88	16	19		15	15	27	27	10		
16.0				16						
19.05	19	23		19	19	33	33	13		10
20.0				20						
25.0				25						
25.4	25	31		25	25	44	44	17		
31.75	32	38			31	54	54	21		
32.0				32						

6 Thickness



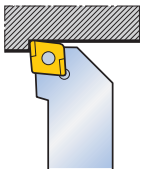
01	1.59mm
T1	1.98mm
02	2.38mm
T2	2.78mm
03	3.18mm
T3	3.97mm
04	4.76mm
05	5.56mm
06	6.35mm
07	7.94mm
09	9.52mm

7 Corner radius

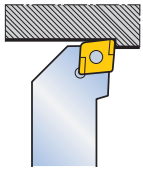


01	0.1mm
02	0.2mm
04	0.4mm
05	0.5mm
08	0.8mm
12	1.2mm
16	1.6mm
20	2.0mm
24	2.4mm
32	3.2mm

8 Hand of insert



R: Right-hand



L: Left-hand

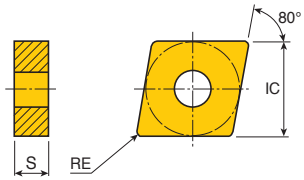
9 Chip breaker

For chip breakers, see page A31-A42

CNGG CNMA

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.1-1.6
16	15.88	6.35	1.2-1.6
19	19.05	6.35	0.8-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**CNGG 120401 ML**	0.1-3.5	0.03-0.10																●		●				
	120402 ML	0.2-3.5	0.05-0.15																●		●				●
	120404 ML	0.8-3.5	0.10-0.30																●		●				●
	120408 ML	1.0-3.5	0.12-0.35																●		●				●
 Roughing	**CNMA 120404**	1.0-5.0	0.15-0.50				●	●	●																●
	120408	1.0-6.0	0.15-0.60				●	●	●																●
	120412	1.5-6.0	0.15-0.70				●	●	●		●														
	120416	2.0-6.0	0.20-0.80				●	●	●																
	160612	2.0-8.0	0.15-0.70				●	●	●																
	160616	2.0-8.0	0.20-0.80					●																	
	190608	2.0-10.0	0.15-0.70						●																
	190612	2.0-10.0	0.15-0.70					●	●																
	190616	3.0-10.0	0.15-1.00				●	●	●																
wiper  Roughing	**CNMA 120408 WT**	0.7-5.0	0.15-0.80				●																		



A58-A59, A98-A99, A146, A170, A194, A203, A205

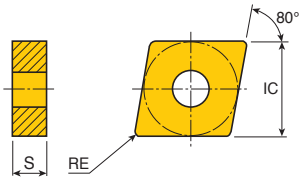
●: Standard items

ADVANCE CUTTING TaeguTec

CNMD

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
19	19.05	6.35	2.4
25	25.4	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**CNMD 250924 HD**										●	●	●												
	Roughing	4.0-15.0	0.55-1.50																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing																									
 Roughing	**CNMD 190624 HT**										●	●													
	Roughing	4.0-9.0	0.35-0.90																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing	**250924 HT**										●	●													
	Roughing	5.0-12.0	0.55-1.30																						
	Finishing	2.0-5.0	0.40-0.80																						
 Roughing	**CNMD 190624 HY**										●	●													
	Roughing	4.0-12.0	0.50-1.10																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing	**250924 HY**										●	●	●												
	Roughing	4.0-15.0	0.55-1.50																						
	Finishing	2.0-5.0	0.40-0.80																						
 Roughing	**CNMD 250924 HZ**										●	●	●												
	Roughing	4.0-15.0	0.55-1.50																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing																									

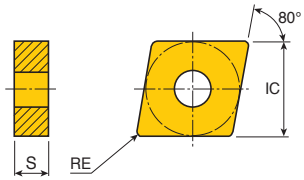


A58

●: Standard items

CNMG

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
16	15.88	4.76	0.4-1.6
19	19.05	6.35	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**CNMG 120404**	1.0-5.0	0.17-0.45				●	●			●	●	●				●			●					●
	120408	1.5-5.0	0.23-0.60		●		●	●	●		●	●	●				●		●	●					
	120412	2.0-5.0	0.25-0.60				●	●			●	●					●								
	160604	2.0-6.5	0.20-0.45									●													
	160608	2.0-6.5	0.25-0.60								●	●					●								
	160612	2.0-6.5	0.27-0.60									●													
	160616	2.0-6.5	0.29-0.60								●														
	190604	3.0-8.0	0.20-0.45								●	●					●								
	190608	3.0-8.0	0.25-0.60				●	●			●	●	●				●								
	190612	3.0-8.0	0.30-0.60				●	●			●	●	●				●	●							
	190616	3.0-8.0	0.35-0.70								●	●	●				●								
 Finishing	**CNMG 120404 EA**	0.15-1.5	0.05-0.30											●	●	●	●		●	●	●	●	●		
	120408 EA	0.15-1.5	0.07-0.40											●	●	●	●		●		●	●	●		
 Medium	**CNMG 120404 EM**	0.5-5.0	0.11-0.50											●	●	●			●		●				
	120408 EM	0.5-5.0	0.13-0.50											●	●	●			●		●				
	120412 EM	0.5-5.0	0.15-0.55											●	●	●			●		●				
	120416 EM	0.5-5.0	0.17-0.60												●				●						
	160608 EM	0.5-6.5	0.13-0.50																●						
	160612 EM	0.5-6.5	0.15-0.55																●						
	190608 EM	0.5-8.0	0.13-0.50																●						
	190612 EM	0.5-8.0	0.15-0.55												●				●		●				●
	190616 EM	0.5-8.0	0.17-0.60																●						
 Roughing	**CNMG 120408 ET**	1.2-5.5	0.17-0.55											●	●	●	●		●		●	●	●		
	120412 ET	1.2-5.5	0.20-0.60											●	●	●			●		●	●	●		
	160608 ET	2.5-7.0	0.20-0.60																●						
	160612 ET	2.5-7.0	0.25-0.60												●				●		●				
	190608 ET	3.0-9.0	0.20-0.60																●						
	190612 ET	3.0-9.0	0.25-0.60												●	●			●		●				
	190616 ET	3.0-9.0	0.30-0.65																●						



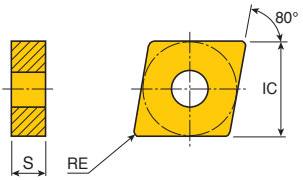
A58-A59, A98-A99, A146, A170, A194, A203, A205

●: Standard items

ADVANCE CUTTING TaeguTec

CNMG

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.2-1.6
16	15.88	6.35	0.8-1.6
19	19.05	6.35	1.2-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Finishing	**CNMG 120404 FA**	0.2-2.0	0.05-0.20		●						●	●					●							
	120408 FA	0.3-2.0	0.05-0.25	●	●						●	●												
 Finishing	**CNMG 120404 FC**	0.2-2.5	0.05-0.30	●	●					●	●	●		●	●		●							
	120408 FC	0.3-2.5	0.08-0.35	●						●	●	●		●	●		●							
	120412 FC	0.3-2.5	0.10-0.40	●							●	●												
 Finishing	**CNMG 120404 FG**	0.2-2.5	0.05-0.30	●	●						●	●					●							
	120408 FG	0.3-2.5	0.08-0.35	●	●						●	●					●							
 Finishing	**CNMG 120402 FLP**	0.1-2.0	0.06-0.18								●	●												
	120404 FLP	0.2-2.0	0.08-0.30								●	●												
	120408 FLP	0.3-2.0	0.10-0.30								●	●												
 Roughing	**CNMG 120408 KT**	0.38-7.0	0.19-0.53				●	●	●															
	120412 KT	0.50-7.0	0.25-0.70				●	●	●															
	120416 KT	0.75-7.0	0.28-0.85				●	●	●															
	160612 KT	0.8-9.0	0.25-0.75				●	●																
	160616 KT	1.0-9.0	0.30-0.85				●	●																
	190612 KT	1.0-14.0	0.25-0.75				●	●																
	190616 KT	1.5-14.0	0.30-0.85				●	●																
 Medium	**CNMG 120404 MC**	0.5-3.5	0.10-0.30					●		●	●	●					●	●		●				
	120408 MC	0.7-3.5	0.12-0.35		●						●	●					●							
	120412 MC	0.7-3.5	0.15-0.40							●														
 Medium	**CNMG 120404 MGP**	0.3-5.0	0.12-0.40								●	●												●
	120408 MGP	0.5-5.0	0.15-0.55								●	●												●
	120412 MGP	0.6-5.0	0.17-0.55								●	●												●
	120416 MGP	0.8-5.0	0.20-0.60								●	●												
	160608 MGP	1.5-6.5	0.20-0.55								●	●												
	160612 MGP	2.0-6.5	0.25-0.55								●	●												

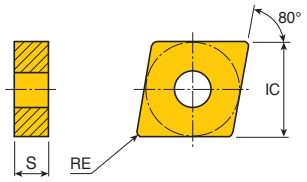


A58-A59, A98-A99, A146, A170, A194, A203, A205

●: Standard items

CNMG

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.2
16	15.88	6.35	0.8-1.6
19	19.05	6.35	0.8-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**CNMG 120408 MGS**	1.0-4.0	0.15-0.40			●																●	●		●
	120412 MGS	1.5-4.0	0.17-0.50			●																●	●		●
 Medium	**CNMG 120404 ML**	0.8-3.5	0.10-0.30		●						●	●		●	●		●		●	●					●
	120408 ML	1.0-3.5	0.12-0.35		●						●	●		●	●		●		●	●	●				●
	120412 ML	1.3-3.5	0.15-0.35														●		●						
 Medium	**CNMG 120404 MLP**	0.25-3.5	0.10-0.30								●	●													
	120408 MLP	0.5-3.5	0.10-0.40								●	●													
	120412 MLP	0.6-3.5	0.15-0.50								●	●													
 Type B Medium	**CNMG 120404 MP**	0.8-4.0	0.10-0.30								●	●		●	●	●	●		●	●					
	120408 MP	1.0-4.0	0.12-0.40								●	●		●	●	●	●	●	●	●					
	120412 MP	1.5-4.0	0.15-0.50								●	●		●	●		●		●	●					
	160612 MP ✓	2.5-6.0	0.15-0.50									●													
 Type B Medium	**CNMG 120404 MT**	1.0-5.0	0.15-0.40		●		●	●	●		●	●					●		●	●					
	120408 MT	1.2-5.0	0.17-0.55	●	●		●	●	●		●	●	●	●	●	●	●	●	●	●	●				
	120412 MT	1.5-5.0	0.20-0.55				●	●			●	●	●	●	●	●	●	●	●	●					
	160608 MT ✓	2.0-6.5	0.20-0.55				●					●													
	160612 MT ✓	2.0-6.5	0.25-0.55				●				●	●					●		●	●					
	160616 MT	2.0-6.5	0.30-0.55								●														
	190608 MT	3.0-8.0	0.23-0.55				●				●	●		●	●	●	●		●	●					
	190612 MT	3.0-8.0	0.25-0.55								●	●	●		●	●	●		●	●					
	190616 MT	3.0-8.0	0.30-0.55									●													



A58-A59, A98-A99, A146, A170, A194, A203, A205

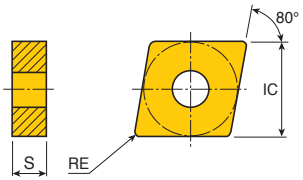
▸ ✓: Type B chip breaker

●: Standard items

ADVANCE CUTTING TaeguTec

CNMG

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
16	15.88	6.35	0.8-1.6
19	19.05	6.35	0.8-1.6
25	25.4	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium	**CNMG 120404 PC**	0.4-5.0	0.10-0.40							●	●	●		●	●	●	●								
	120408 PC	0.5-5.0	0.15-0.50							●	●	●	●	●	●	●	●				●			●	
	120412 PC	0.6-5.0	0.17-0.55							●	●	●			●	●					●				
	120416 PC	0.8-5.0	0.20-0.60								●	●					●								
	160608 PC	2.0-6.5	0.20-0.55								●	●													
	160612 PC	2.0-6.5	0.25-0.55								●	●													
	160616 PC	2.0-6.5	0.30-0.55								●	●													
	190608 PC	3.0-8.0	0.23-0.55								●	●													
	190612 PC	3.0-8.0	0.25-0.55								●	●													
	190616 PC	3.0-8.0	0.30-0.55									●													
 Roughing	**CNMG 120408 RGP**	1.5-6.0	0.25-0.70									●	●												
	120412 RGP	2.0-6.0	0.25-0.70									●	●												
	120416 RGP	2.5-6.0	0.30-0.70									●	●												
	160612 RGP	3.0-7.0	0.25-0.70									●	●												
	160616 RGP	3.0-7.0	0.30-0.85									●	●												
	190616 RGP	3.0-9.0	0.30-0.85									●	●												
 Type B Roughing	**CNMG 120408 RT**	2.5-6.0	0.25-0.70				●	●	●	●	●	●	●		●	●	●	●	●						
	120412 RT ✓	2.5-6.0	0.25-0.70				●	●	●		●	●	●		●	●	●	●							
	120416 RT	2.5-6.0	0.30-0.70					●		●	●							●							
	160612 RT	3.0-7.0	0.25-0.70				●	●			●	●	●				●	●	●						
	160616 RT	3.0-7.0	0.30-0.85				●	●			●	●													
	190608 RT	3.0-9.0	0.25-0.70							●		●	●				●								
	190612 RT	3.0-9.0	0.25-0.70				●	●		●	●	●	●		●		●	●	●						
	190616 RT	3.0-9.0	0.30-0.85				●	●			●	●	●				●	●		●					
	250924 RT	5.0-12.0	0.45-1.00								●	●						●							
 Finishing	**CNMG 120404 SF**	0.5-1.5	0.08-0.25														●		●	●					
	120408 SF	0.7-1.5	0.10-0.30		●						●	●					●		●	●					



A58-A59, A98-A99, A146, A170, A194, A203, A205

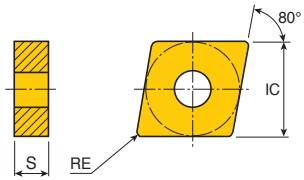
▸ ✓: Type B chip breaker

●: Standard items

CNMG CNMM

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.2
19	19.05	6.35	1.2-2.4
25	25.4	9.52	2.4-3.2

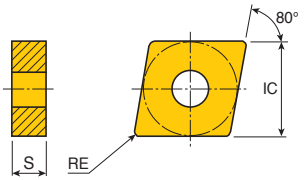
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
wiper	**CNMG 120404 WS**	0.5-2.0	0.05-0.35	●	●						●	●					●								
Finishing																									
wiper	**CNMG 120408 WT**	1.0-5.0	0.15-0.60				●	●			●	●					●								
	120412 WT	1.0-5.0	0.20-0.80								●	●					●								
Medium																									
	CNMM 250924 EH	2.5-15.0	0.45-1.20											●	●	●									
Roughing																									
	CNMM 190612 HT	4.0-9.0	0.35-0.90								●						●								
	190616 HT	4.0-9.0	0.45-1.00								●	●													
	190624 HT	4.0-9.0	0.55-1.20								●	●						●							
	250724 HT	5.0-12.0	0.55-1.30														●	●							
	250924 HT	5.0-12.0	0.55-1.30															●							
	250932 HT	5.0-13.0	0.65-1.30															●							
Roughing																									
	CNMM 190624 HY	4.0-12.0	0.50-1.10								●	●													
	250924 HY	4.0-15.0	0.55-1.50								●	●	●												
Roughing																									
	CNMM 250924 HZ	4.0-15.0	0.55-1.50								●	●													
Roughing																									

A58-A59, A98-A99, A146, A170, A194, A203, A205

●: Standard items

CNMM

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76-5.56	0.8-1.2
16	15.88	6.35-7.94	0.8-2.4
19	19.05	6.35	0.8-2.4
25	25.4	7.94-9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**CNMM 120408 RH**	2.5-6.0	0.30-0.70								●	●					●								
	120412 RH	2.5-6.0	0.30-0.80								●	●					●								
	160608 RH	3.0-8.0	0.30-0.70									●									●				
	160612 RH	3.0-8.0	0.30-0.80								●	●					●								
	160616 RH	4.0-8.0	0.45-1.00								●	●					●								
	190612 RH	4.0-9.0	0.35-0.80								●	●					●	●							
	190616 RH	4.0-9.0	0.45-1.00								●	●			●		●								
	190624 RH	4.0-9.0	0.55-1.20								●	●					●								
	250924 RH *	5.0-12.0	0.55-1.20									●													
 Roughing	**CNMM 120408 RX**	0.7-7.0	0.20-0.55								●	●													
	120412 RX	1.0-7.0	0.25-0.70								●	●													
	160612 RX	1.0-9.0	0.25-0.70								●						●								
	160616 RX	1.5-9.0	0.30-0.90								●	●	●		●	●									
	160624 RX	2.0-9.0	0.35-1.20							●		●													
	190608 RX	0.7-10.0	0.20-0.55									●													
	190612 RX	1.0-10.0	0.25-0.70								●	●													
	190616 RX	1.5-10.0	0.30-0.90								●	●	●												
	190624 RX	2.0-10.0	0.35-1.10									●	●												
	250724 RX	2.0-12.0	0.35-1.20									●													
	250924 RX	2.0-12.0	0.35-1.20									●													



A58-A59, A98-A99, A146, A170, A194

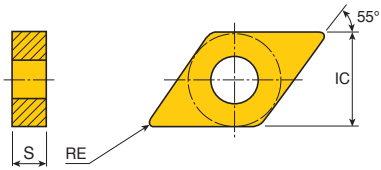
▸ *: Chip breaker shape is not the same as shown in the catalogue

●: Standard items

DNGG DNMA DNMG

T-TURN

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	9.52	4.76	0.8
15	12.7	4.76-6.35	0.1-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT3010	TT3020	TT9020	TT4410	TT4430	K10
 Medium	**DNGG 150401 ML**	0.1-1.0	0.03-0.10																●						●
	150402 ML	0.2-1.2	0.05-0.15																●						●
	150404 ML	0.8-3.5	0.10-0.30																●						●
	150408 ML	1.0-3.5	0.12-0.35																●						●
 Roughing	**DNMA 150408**	0.8-4.0	0.15-0.65				●	●																	
	150608	0.8-4.0	0.15-0.65				●	●																	
	150412	1.2-4.0	0.15-0.65				●	●																	
	150612	1.2-4.0	0.15-0.65					●																	
 Medium	**DNMG 150404**	1.0-4.0	0.17-0.45					●				●													
	150604	1.0-4.0	0.17-0.45	●			●	●			●	●					●								
	150408	1.5-4.0	0.17-0.55								●														
	150608	1.5-4.0	0.17-0.55				●	●	●		●	●	●				●								●
	150412	1.5-4.0	0.25-0.55				●				●														
	150612	1.5-4.0	0.25-0.55				●		●		●	●					●								
	150416	2.5-4.0	0.25-0.65														●								
	150616	2.5-4.0	0.25-0.65								●														
 Finishing	**DNMG 150404 EA**	0.1-1.5	0.05-0.2												●										
	150408 EA	0.1-1.5	0.10-0.4											●											
	150604 EA	0.1-1.5	0.05-0.2												●				●		●	●	●		
	150608 EA	0.1-1.5	0.10-0.4											●					●		●	●	●		
 Medium	**DNMG 110408 EM #**	0.5-4.0	0.13-0.50											●	●	●									
	150408 EM	0.5-5.0	0.13-0.50											●	●	●									
	150608 EM	0.5-5.0	0.13-0.50											●	●	●			●		●				
	150412 EM	0.5-5.0	0.15-0.55											●	●	●									
	150612 EM	0.5-5.0	0.15-0.55											●	●	●									
 Roughing	**DNMG 150408 ET**	1.0-6.0	0.20-0.60											●	●	●			●					●	
	150412 ET	1.0-6.0	0.25-0.60											●	●	●			●					●	
	150608 ET	1.0-6.0	0.20-0.60											●		●			●			●	●	●	
	150612 ET	1.0-6.0	0.25-0.60											●		●			●			●	●	●	



A52, A53, A60-A61, A73, A100, A146, A171, A177-A179, A195, A203, A206, A215

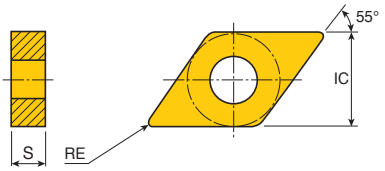
▸ #: Insert with screw hole

●: Standard items

ADVANCE CUTTING TaeguTec

DNMG

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	9.52	4.76	0.4-0.8
15	12.7	4.76-6.35	0.4-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**DNMG 150408 FA**	0.2-2.0	0.05-0.20								●						●								
	150608 FA	0.2-2.0	0.05-0.20	●							●						●								
 Finishing	**DNMG 110404 FC #**	0.5-2.0	0.07-0.20	●													●								
	110408 FC #	0.7-2.0	0.10-0.25		●						●	●			●		●								
	150404 FC	0.2-2.5	0.05-0.30							●	●	●													
	150604 FC	0.2-2.5	0.05-0.30								●				●										
	150408 FC	0.3-2.5	0.08-0.35	●	●					●	●	●					●								
	150608 FC	0.3-2.5	0.08-0.35							●	●	●					●								
	150412 FC	0.5-2.5	0.08-0.35							●	●	●													
	150612 FC	0.5-2.5	0.08-0.35									●													
 Type B Finishing	**DNMG 110404 FG #**	0.5-2.0	0.07-0.20	●	●						●	●			●		●								
	110408 FG #	0.7-2.0	0.10-0.25	●	●						●						●								
	150404 FG	0.5-2.0	0.07-0.20	●	●					●	●	●					●								
	150604 FG	0.5-2.0	0.07-0.20	●	●					●	●	●					●								
	150408 FG ✓	0.7-2.0	0.10-0.25	●	●					●	●	●					●								
	150412 FG ✓	1.0-2.0	0.12-0.25								●														
	150608 FG ✓	0.7-2.0	0.10-0.25	●	●					●	●	●					●								
 Finishing	**DNMG 150602 FLP**	0.1-2.0	0.06-0.18								●	●													
	150604 FLP	0.2-2.0	0.08-0.30								●	●													
	150608 FLP	0.3-2.0	0.10-0.30								●	●													
	150612 FLP	0.4-2.0	0.12-0.30								●	●													
 Roughing	**DNMG 150408 KT**	0.38-7.0	0.17-0.47				●	●	●																
	150608 KT	0.38-7.0	0.17-0.47				●	●	●																
	150412 KT	0.5-7.0	0.23-0.63				●	●	●																
	150612 KT	0.5-7.0	0.23-0.63				●	●	●																



A52, A53, A60-A61, A73, A100, A146, A171, A177-A179, A195, A203, A206, A215

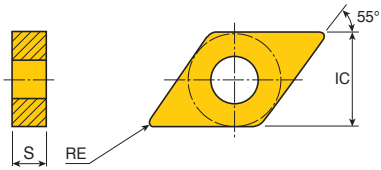
▸ #: Insert with screw hole
▸ ✓: Type B chip breaker

●: Standard items

DNMG

T-TURN

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
15	12.7	4.76-6.35	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium	**DNMG 150604 MC**	0.5-3.5	0.10-0.30							●	●	●					●								
	150408 MC	0.7-3.5	0.12-0.35							●		●	●												
	150608 MC	0.7-3.5	0.12-0.35								●	●	●				●	●		●					
	150412 MC	1.0-3.5	0.15-0.35							●							●								
	150612 MC	1.0-3.5	0.15-0.35								●						●								
 Medium	**DNMG 150404 MGP**	0.4-4.0	0.10-0.40							●	●	●	●				●							●	
	150408 MGP	0.4-4.0	0.10-0.40							●	●	●					●							●	
	150412 MGP	0.4-4.0	0.10-0.40							●	●	●					●							●	
	150604 MGP	0.3-4.0	0.12-0.35							●	●	●	●				●							●	
	150608 MGP	0.5-4.0	0.15-0.50							●	●	●					●							●	
	150612 MGP	0.6-4.0	0.17-0.50							●	●	●					●							●	
	150616 MGP	0.8-4.0	0.20-0.55								●						●								
 Medium	**DNMG 150408 MGS**	1.0-4.0	0.15-0.40			●																●	●		●
	150608 MGS	1.0-4.0	0.15-0.40			●																●	●		●
	150612 MGS	1.0-4.0	0.17-0.40			●																●	●		●
 Medium	**DNMG 150404 ML**	0.8-3.5	0.10-0.30									●					●		●						
	150604 ML	0.8-3.5	0.10-0.30								●	●					●		●						●
	150408 ML	1.0-3.5	0.12-0.35									●					●		●						●
	150608 ML	1.0-3.5	0.12-0.35								●	●			●		●	●	●	●					●
 Medium	**DNMG 150604 MLP**	0.25-3.5	0.10-0.30								●	●													
	150608 MLP	0.5-3.5	0.10-0.40								●	●													
	150612 MLP	0.6-3.5	0.15-0.50								●	●													
 Type B Medium	**DNMG 150404 MP**	0.8-4.0	0.10-0.30								●				●		●		●						
	150604 MP	0.8-4.0	0.10-0.30								●	●			●		●		●						
	150408 MP	1.0-4.0	0.12-0.40								●						●		●	●					
	150608 MP	1.0-4.0	0.12-0.40								●	●			●	●	●		●	●	●				
	150612 MP ✓	1.0-4.0	0.15-0.40								●			●	●	●	●		●						



A52, A53, A60-A61, A73, A100, A146, A171, A177-A179, A195, A203, A206, A215

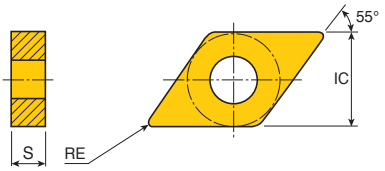
▸ ✓: Type B chip breaker

●: Standard items

ADVANCE CUTTING TaeguTec

DNMG

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	9.52	4.76	0.8-1.2
15	12.7	4.76-6.35	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium	**DNMG 110408 MT #**	1.0-3.0	0.17-0.40		●		●	●			●	●					●		●						
	110412 MT #	1.0-3.0	0.20-0.45				●	●			●														
	150404 MT	0.8-4.0	0.15-0.40		●			●	●		●	●					●								
	150604 MT	0.8-4.0	0.15-0.40		●		●	●	●		●	●					●		●						
	150408 MT	1.0-4.0	0.17-0.50		●			●	●		●	●		●	●		●		●	●					
	150608 MT	1.0-4.0	0.17-0.50		●		●	●	●		●	●		●	●	●	●	●	●	●					
	150412 MT	1.3-4.0	0.20-0.50					●			●						●								
	150612 MT	1.3-4.0	0.20-0.50				●	●	●		●	●					●		●	●					
 Medium	**DNMG 110408 PC #**	0.5-3.0	0.17-0.40							●	●	●													
	150404 PC	0.4-4.0	0.10-0.40							●	●	●													
	150604 PC	0.4-4.0	0.10-0.40								●	●		●	●		●								
	150408 PC	0.5-4.0	0.15-0.50							●	●	●					●							●	
	150608 PC	0.5-4.0	0.15-0.50							●	●	●		●	●	●	●							●	
	150412 PC	0.6-4.0	0.17-0.55							●	●	●					●							●	
	150612 PC	0.6-4.0	0.17-0.55							●	●	●												●	
 Roughing	**DNMG 150608 RGP**	1.5-4.5	0.25-0.65								●	●													
	150612 RGP	2.0-4.5	0.25-0.65								●	●													
	150616 RGP	2.5-4.5	0.30-0.65								●	●													
 Roughing	**DNMG 150408 RT**	2.0-4.0	0.25-0.65					●	●	●	●														
	150608 RT	2.0-4.0	0.25-0.65				●	●	●		●	●					●								
	150412 RT	2.5-4.0	0.25-0.65					●				●													
	150612 RT	2.5-4.0	0.25-0.65				●	●	●			●					●								
	150616 RT	2.5-5.5	0.25-0.70								●	●					●								



A52, A53, A60-A61, A73, A100, A146, A171, A177-A179, A195, A203, A206, A215

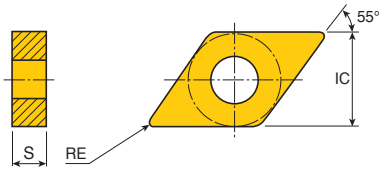
▸ #: Insert with screw hole

●: Standard items

DNMG DNMM

T-TURN

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
15	12.7	4.76-6.35	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Right-hand Medium	**DNMG 150404 L-VF**	0.7-4.5	0.10-0.35									●													
	150404 R-VF	0.7-4.5	0.10-0.35	●								●					●								
	150604 L-VF	0.7-4.5	0.10-0.35								●	●					●								
	150604 R-VF	0.7-4.5	0.10-0.35	●							●	●					●	●							
	150408 L-VF	1.0-4.5	0.12-0.45								●	●							●		●				
	150408 R-VF	1.0-4.5	0.12-0.45								●	●							●		●				
	150608 L-VF	1.0-4.5	0.12-0.45	●							●	●					●	●							
	150608 R-VF	1.0-4.5	0.12-0.45	●							●	●													
wiper  Finishing	**DNMG 150408 WS ***	0.8-4.0	0.10-0.30					●							●										
	150608 WS *	0.8-4.0	0.10-0.30	●				●			●														
wiper  Medium	**DNMG 150412 WT ***	1.0-5.0	0.15-0.60														●								
	150612 WT *	1.0-5.0	0.15-0.60	●							●						●								
 Roughing	**DNMM 150612 RX**	2.5-4.5	0.30-0.65									●													
	150616 RX	2.5-6.0	0.30-0.70								●														



A52, A53, A60-A61, A73, A100, A146, A171, A177-A179, A195, A203, A206, A215

▸ *: Wiper inserts should be applied to ☐DJNR/L..., ☐DUNR/L..., ☐DZNR/L...

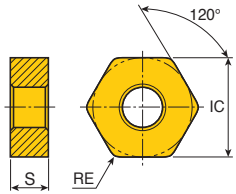
●: Standard items

ADVANCE CUTTING TaeguTec

HNMG

T-TURN

Negative 120° hexagonal inserts



Size	Dimension (mm)		
	IC	S	RE
05	12.7	4.76	0.8
10	19.05	6.35	1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**HNMG 050408 GU**	0.5-3.5	0.15-0.60				●	●				●					●							
	100612 GU	1.0-5.0	0.25-0.70				●	●				●												
 Medium	**HNMG 050408 SU**	0.5-3.5	0.15-0.50											●			●		●					
	100612 SU	1.0-5.0	0.25-0.70																●					



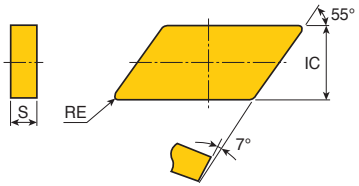
A101, A196

●: Standard items

KNUX

T-TURN

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76	0.5-1.0

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Right-hand Medium	**KNUX 160405 L11**	1.5-5.0	0.15-0.35								●	●			●		●							●
	160405 R11	1.5-5.0	0.15-0.35				●				●	●	●		●		●	●		●				
	160410 L11	2.0-5.0	0.21-0.45								●	●					●							
	160410 R11	2.0-5.0	0.21-0.45								●	●					●							
 Right-hand Medium	**KNUX 160405 L12**	2.0-5.0	0.24-0.50								●	●					●							
	160405 R12	2.0-5.0	0.24-0.50								●	●					●							
	160410 L12	2.5-6.0	0.30-0.60									●												
	160410 R12	2.5-6.0	0.30-0.60									●												

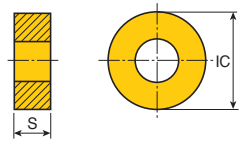


A47, A165

●: Standard items

RNMG

Negative round inserts



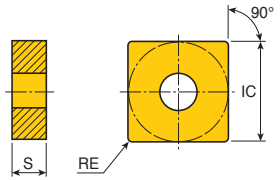
Size	Dimension (mm)	
	IC	S
12	12.7	4.76
15	15.88	6.35
19	19.05	6.35
25	25.4	9.52

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**RNMG 120400**	2.0-5.0	0.30-0.60							●		●					●							
	150600	3.5-7.0	0.35-0.70									●												
	190600	4.5-9.0	0.45-0.80									●												
	250900	4.0-12.0	0.55-1.20									●						●						

●: Standard items

SNMA SNMD

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.8-1.6
15	15.88	6.35	1.2-1.6
19	19.05	6.35	1.2-1.6
25	25.4	7.94-9.52	2.4
31	31.75	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**SNMA 120408**	1.0-6.0	0.15-0.70				●	●																●
	120412	1.5-6.0	0.20-0.80				●	●																
	120416	2.0-6.0	0.30-1.00				●	●																
	150612	2.0-8.0	0.20-0.80				●																	
	150616	2.0-8.0	0.30-1.00					●																
	190612	2.0-10.0	0.20-0.80				●	●																●
	190616	2.0-10.0	0.30-1.00					●																
	250724	3.0-13.0	0.40-1.20					●			●													
 Roughing	**SNMD 250924 HD**										●	●	●											
	Roughing	4.0-15.0	0.55-1.50																					
 Finishing	Finishing	2.0-5.0	0.40-0.80																					
 Roughing	**SNMD 310924 HD**										●	●						●						
	Roughing	7.0-25.0	0.60-1.50																					
 Finishing	Finishing	2.0-5.0	0.40-0.80																					

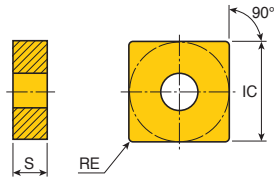


A51, A64, A65,
A102, A103, A147,
A172, A197

●: Standard items

SNMD

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
19	19.05	6.35	2.4
25	25.4	9.52	2.4
31	31.75	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**SNMD 190624 HT**										●	●													
	Roughing	4.0-9.0	0.55-1.20																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing	**250924 HT**										●	●													
	Roughing	5.0-12.0	0.55-1.30																						
	Finishing	2.0-5.0	0.40-0.80																						
 Roughing	**SNMD 310924 HT**										●	●						●							
	Roughing	6.0-22.0	0.50-1.40																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing																									
 Roughing	**SNMD 190624 HY**										●	●													
	Roughing	4.0-12.0	0.50-1.10																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing	**250924 HY**										●	●	●												
	Roughing	4.0-15.0	0.55-1.50																						
	Finishing	2.0-5.0	0.40-0.80																						
 Roughing	**SNMD 250924 HZ**										●	●	●												
	Roughing	4.0-15.0	0.55-1.50																						
	Finishing	2.0-5.0	0.40-0.80																						
 Finishing																									

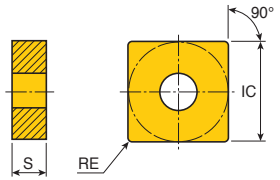


A51, A64, A65, A172

●: Standard items

SNMG

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
15	15.88	6.35	0.8-1.6
19	19.05	6.35	0.4-1.6
25	25.4	7.94-9.52	1.6-2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**SNMG 120404**	1.0-5.0	0.17-0.45								●	●					●								
	120408	1.5-5.0	0.23-0.60		●		●	●	●		●	●	●				●								
	120412	2.0-5.0	0.25-0.60					●				●					●								
	120416	2.0-5.0	0.35-0.70									●					●								
	150608	1.5-6.0	0.25-0.60									●					●								
	150612	2.0-6.0	0.25-0.60									●													
	150616	2.0-6.0	0.35-0.70								●						●								
	190604	3.0-8.0	0.17-0.45									●													
	190608	3.0-8.0	0.25-0.60				●				●	●					●		●						
	190612	3.0-8.0	0.30-0.60				●	●			●	●	●				●								
	190616	3.0-8.0	0.35-0.70								●	●	●				●								
	250716	4.0-12.0	0.35-0.70								●	●					●								
	250724	5.0-12.0	0.50-1.00								●	●					●								
	250924	5.0-12.0	0.50-1.00									●													
 Finishing	**SNMG 120404 EA**	0.1-1.5	0.05-0.20											●	●				●						
	120408 EA	0.1-1.5	0.10-0.40											●	●				●						
 Medium	**SNMG 120408 EM**	0.8-5.0	0.13-0.50											●	●	●			●		●				
	120412 EM	0.8-5.0	0.15-0.55											●	●	●			●						
	150612 EM	0.8-6.5	0.15-0.55											●	●	●			●	●					
	150616 EM	0.8-6.5	0.17-0.60											●	●	●			●	●					
	190612 EM	0.8-8.0	0.15-0.55											●	●	●			●						
	190616 EM	0.8-8.0	0.17-0.60											●	●	●			●						
 Roughing	**SNMG 120408 ET**	2.0-7.0	0.25-0.70											●	●	●			●			●	●		
	120412 ET	2.0-7.0	0.30-0.70											●	●	●			●			●	●		
	190608 ET	3.0-9.0	0.30-0.75											●	●	●			●		●				
	190612 ET	3.0-9.0	0.35-0.75											●	●	●			●						



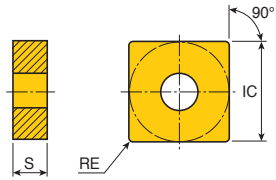
A64, A65, A102, A103, A147, A172, A197

●: Standard items

SNMG

T-TURN

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
15	15.88	6.35	1.2-1.6
19	19.05	6.35	1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**SNMG 120404 FC**	0.2-2.5	0.05-0.30									●													
	120408 FC	0.2-2.5	0.08-0.35	●								●													
	120412 FC	0.3-2.5	0.10-0.40		●							●													
 Finishing	**SNMG 120404 FG**	0.5-3.0	0.07-0.20		●							●							●						
	120408 FG	0.7-3.0	0.10-0.25	●	●						●	●													
 Finishing	**SNMG 120404 FLP**	0.2-2.0	0.08-0.30								●	●													
	120408 FLP	0.3-2.0	0.10-0.30								●	●													
 Roughing	**SNMG 120408 KT**	0.38-7.0	0.19-0.53			●	●	●																	
	120412 KT	0.50-7.0	0.28-0.70			●	●	●																	
	120416 KT	0.75-7.0	0.30-0.75			●	●																		
	150612 KT	0.6-8.5	0.30-0.75			●	●																		
	150616 KT	0.9-8.5	0.30-0.85			●	●																		
	190616 KT	1.3-12.0	0.30-0.85			●	●																		
 Medium	**SNMG 120408 MC**	0.7-3.5	0.12-0.35								●	●					●			●					
	120412 MC	0.7-3.5	0.15-0.40								●						●								
 Medium	**SNMG 120404 MGP**	0.3-5.0	0.12-0.40								●	●													
	120408 MGP	0.5-5.0	0.15-0.55								●	●													
	120412 MGP	0.6-5.0	0.17-0.55								●	●													
	120416 MGP	0.8-5.0	0.20-0.60								●	●													
 Medium	**SNMG 120408 MGS**	1.0-4.0	0.15-0.40			●																●	●		●
	120412 MGS	1.3-4.0	0.17-0.40			●																●	●		●
	190616 MGS	1.5-8.0	0.17-0.60			●																●	●		●
 Medium	**SNMG 120408 ML**	1.0-3.5	0.12-0.35								●	●					●			●					●
	120412 ML	1.0-3.5	0.15-0.35								●	●					●								



A64, A65, A102, A103, A147, A172, A197

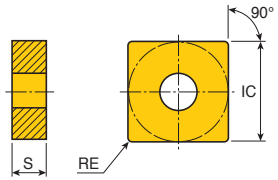
●: Standard items

ADVANCE CUTTING TaeguTec

SNMG SNMM

T-TURN

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
15	15.88	6.35	0.8-1.2
19	19.05	6.35	0.8-1.6
25	25.4	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium	**SNMG 120404 MLP**	0.25-3.5	0.10-0.30								●	●												
	120408 MLP	0.5-3.5	0.10-0.40								●	●												
	120412 MLP	0.6-3.5	0.15-0.50								●	●												
 Type B Medium	**SNMG 120404 MP** ✓	0.8-4.0	0.10-0.30								●	●					●			●				
	120408 MP	1.0-4.0	0.12-0.40								●	●			●		●		●	●	●			
	120412 MP	1.3-4.0	0.15-0.40									●					●							
	150608 MP	1.5-6.0	0.25-0.60								●													
 Type B Medium	**SNMG 120404 MT** ✓	1.0-5.0	0.12-0.40	●								●					●							
	120408 MT	1.2-5.0	0.17-0.55	●		●	●	●		●	●	●		●	●	●	●		●	●				
	120412 MT	1.5-5.0	0.20-0.55			●				●	●	●			●		●		●	●				
	150612 MT ✓	2.0-7.0	0.30-0.65									●	●											
	190608 MT	3.0-8.0	0.17-0.55									●			●									
	190612 MT	3.0-8.0	0.20-0.55									●			●	●	●			●				
 Medium	**SNMG 120404 PC**	0.4-5.0	0.12-0.40									●												
	120408 PC	0.5-5.0	0.15-0.50								●	●			●		●				●			●
	120412 PC	0.6-5.0	0.15-0.50								●	●												●
 Roughing	**SNMG 120408 RGP**	1.5-6.0	0.25-0.70								●	●												
	120412 RGP	2.0-6.0	0.25-0.70								●	●												
	120416 RGP	2.5-6.0	0.30-0.70								●	●												
 Type B Roughing	**SNMG 120408 RT**	2.5-6.0	0.25-0.70				●	●			●	●					●							
	120412 RT	2.5-6.0	0.30-0.70				●	●		●	●	●				●								
	120416 RT	2.5-6.0	0.40-0.70							●	●	●												
	150612 RT	3.0-7.0	0.30-0.70					●		●										●				
	190612 RT	3.0-9.0	0.30-0.75							●	●	●	●		●		●		●					
	190616 RT ✓	3.0-9.0	0.40-0.90							●	●	●			●		●		●	●				
	250924 RT	5.0-12.0	0.40-1.00										●											
 Roughing	**SNMM 250924 EH**	2.8-18.0	0.45-1.20											●	●	●								



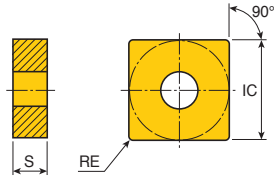
A64, A65, A102, A103, A147, A172, A197

▸ ✓: Type B chip breaker

●: Standard items

SNMM

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.8-1.2
15	15.88	6.35-7.94	1.2
19	19.05	6.35	0.8-2.4
25	25.4	7.94-9.52	1.6-2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**SNMM 190612 HT**	4.0-9.0	0.35-0.90								●	●												
	190616 HT	4.0-9.0	0.45-1.00								●	●						●						
	190624 HT	4.0-9.0	0.55-1.20								●													
	250724 HT	5.0-12.0	0.55-1.30								●	●			●		●	●						
	250924 HT	5.0-12.0	0.55-1.30								●							●						
	250932 HT	5.0-13.0	0.65-1.30									●												
 Roughing	**SNMM 190624 HY**	4.0-12.0	0.50-1.10								●	●												
	250924 HY	4.0-15.0	0.55-1.50							●	●	●												
 Roughing	**SNMM 250924 HZ**	4.0-15.0	0.55-1.50								●	●												
 Roughing	**SNMM 120408 RH**	2.5-6.0	0.30-0.70									●					●							
	120412 RH	2.5-6.0	0.30-0.80									●					●							
	150612 RH	3.0-7.0	0.30-0.80									●					●							
	190608 RH*	3.0-9.0	0.30-0.70									●												
	190612 RH	4.0-9.0	0.30-0.80									●	●					●						
	190616 RH	4.0-9.0	0.45-1.00									●			●		●			●				
	190624 RH	4.0-9.0	0.55-1.20									●												
	250716 RH*	5.0-12.0	0.55-1.00									●												
	250724 RH*	5.0-12.0	0.55-1.20									●	●				●							
	250924 RH*	5.0-12.0	0.55-1.20									●												
 Roughing	**SNMM 120408 RX**	0.7-7.0	0.20-0.55								●	●	●											
	120412 RX	1.0-7.0	0.25-0.70								●	●	●											
	150612 RX	1.0-9.0	0.25-0.70								●	●	●											
	190612 RX	1.0-10.0	0.25-0.70								●	●												
	190616 RX	1.5-10.0	0.30-0.90									●												
	190624 RX	2.0-10.0	0.35-1.10									●												
	250724 RX	2.0-12.0	0.35-1.20								●													
	250924 RX	2.0-12.0	0.35-1.20								●	●												



A64, A65, A102, A103, A147, A172, A197

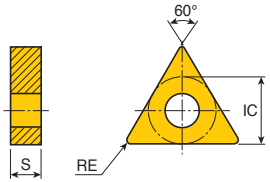
▸ *: Chip breaker shape is not the same as shown in the catalogue

●: Standard items

TNGG TNMA TNMG

T-TURN

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.4-0.8
16	9.52	4.76	0.4-1.6
22	12.7	4.76	0.4-1.6
27	15.88	6.35	0.8-1.6
33	19.05	7.94-9.52	1.6-2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Left-hand Medium	**TNGG 160404 L**	1.0-3.5	0.12-0.30	●								●													
	160404 R	1.0-3.5	0.12-0.30	●								●					●								
	160408 L	1.3-3.5	0.15-0.35	●																					
	160408 R	1.3-3.5	0.15-0.35	●								●													
	220404 L	1.0-5.0	0.12-0.30	●													●								
	220404 R	1.0-5.0	0.12-0.30	●								●					●								
	220408 L	1.3-5.0	0.15-0.35	●													●								
	220408 R	1.3-5.0	0.15-0.35	●													●								
 Roughing	**TNMA 160404**	1.0-4.0	0.15-0.30			●	●	●																	
	160408	1.0-4.0	0.15-0.40			●	●	●																	
	160412	1.5-4.5	0.20-0.50				●	●																	
	160416	1.0-4.5	0.20-0.50			●																			
	220408	1.5-5.0	0.15-0.40				●	●																	
	220412	1.5-5.0	0.20-0.50			●	●																		
	220416	2.0-5.0	0.20-0.61			●	●																		
 Medium	**TNMG 110304**	1.2-3.0	0.15-0.40								●	●													
	110308	1.5-3.0	0.17-0.40								●														
	160404	1.5-3.5	0.17-0.45			●	●	●			●	●					●			●					●
	160408	2.0-3.5	0.17-0.55			●	●	●			●	●					●			●					●
	160412	2.0-3.5	0.25-0.55								●						●								
	220404	1.5-5.0	0.17-0.45			●					●	●					●								
	220408	2.0-5.0	0.17-0.55			●	●				●	●					●	●							
	220412	2.0-5.0	0.25-0.55								●	●													
	220416	2.0-5.0	0.30-0.60									●													
	270608	2.0-5.0	0.17-0.55									●	●												
	270612	3.0-7.0	0.25-0.55									●													
	270616	3.0-7.0	0.30-0.60									●													
	330716	3.0-9.0	0.35-0.70									●	●					●							
	330924	3.0-9.0	0.40-0.80										●												

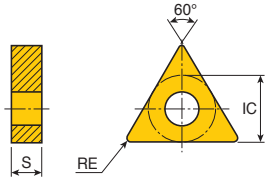


A54, A66, A67, A104, A107, A108, A148, A173, A200, A204

●: Standard items

TNMG

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.4
16	9.52	4.76	0.2-1.2
22	12.7	4.76	0.8-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						K10
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	
 Finishing	**TNMG 160404 EA**	0.1-1.5	0.05-0.20											●	●				●		●				
	160408 EA	0.1-1.5	0.10-0.40																●		●				
 Medium	**TNMG 160408 EM**	0.8-4.5	0.13-0.50											●	●				●		●				
	160412 EM	0.8-4.5	0.15-0.55																●		●				
	220408 EM	0.8-6.0	0.13-0.50											●	●	●					●				
	220412 EM	0.8-6.0	0.15-0.55											●		●					●				
 Roughing	**TNMG 160408 ET**	2.0-5.0	0.25-0.65											●	●	●			●		●				
	220408 ET	2.5-7.0	0.25-0.65											●	●	●			●		●				
	220412 ET	2.5-7.0	0.25-0.65											●		●			●		●				
 Finishing	**TNMG 160404 FC**	0.2-2.5	0.05-0.30	●	●					●	●	●			●		●		●						
	160408 FC	0.2-2.5	0.08-0.35	●						●	●	●			●	●	●								
	160412 FC	0.3-2.5	0.10-0.40							●	●														
 Finishing	**TNMG 110304 FG**	0.5-1.5	0.07-0.20		●												●								
	160404 FG	0.5-2.0	0.07-0.20	●	●						●	●					●								
	160408 FG	0.7-2.0	0.10-0.25	●	●						●	●					●								
	160412 FG	0.7-2.0	0.13-0.30		●																				
	220408 FG	0.7-2.0	0.10-0.25								●	●													
 Finishing	**TNMG 160402 FLP**	0.1-2.0	0.06-0.18								●	●													
	160404 FLP	0.2-2.0	0.08-0.30								●	●													
	160408 FLP	0.3-2.0	0.10-0.30								●	●													
	160412 FLP	0.4-2.0	0.12-0.30								●	●													
 Right-hand Medium	**TNMG 160404 L-FS**	0.8-3.0	0.15-0.30		●							●					●								
	160404 R-FS	0.8-3.0	0.15-0.30		●							●					●			●					
	160408 L-FS	1.0-3.5	0.20-0.40		●							●													
	160408 R-FS	1.0-3.5	0.20-0.40		●							●					●			●					



A54, A66, A67, A104, A107, A108, A148, A173, A200, A204

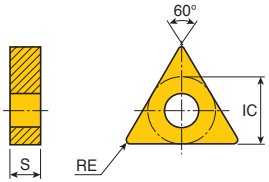
●: Standard items

ADVANCE CUTTING TaeguTec

TNMG

T-TURN

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.8
16	9.52	4.76	0.4-1.2
22	12.7	4.76	0.4-1.2
27	15.88	6.35	1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**TNMG 160408 KT**	0.34-6.2	0.17-0.42				●	●	●																
	160412 KT	0.45-6.3	0.20-0.56				●	●																	
	220408 KT	0.38-7.0	0.19-0.53				●	●																	
	220412 KT	0.5-7.0	0.25-0.70				●	●																	
 Medium	**TNMG 160408 MC**	0.7-3.5	0.17-0.40								●	●					●								
 Medium	**TNMG 160404 MGP**	0.3-4.5	0.12-0.35								●	●													
	160408 MGP	0.5-4.5	0.15-0.50								●	●													
	160412 MGP	0.6-4.5	0.17-0.50								●	●													
 Medium	**TNMG 160404 ML**	0.8-3.5	0.10-0.30								●	●					●		●	●					
	160408 ML	1.0-3.5	0.12-0.35								●	●	●				●		●	●					
	160412 ML	1.5-3.5	0.15-0.35														●								
	220404 ML	1.0-4.0	0.10-0.30														●								●
	220408 ML	1.0-4.0	0.12-0.35									●					●								●
 Medium	**TNMG 160404 MLP**	0.25-2.5	0.10-0.30								●	●													
	160408 MLP	0.5-2.5	0.10-0.40								●	●													
	160412 MLP	0.6-2.5	0.15-0.50								●	●													
 Medium	**TNMG 160404 MP**	0.8-3.5	0.10-0.30									●			●		●		●	●	●	●	●		
	160408 MP	1.0-3.5	0.12-0.40								●	●			●	●	●		●	●		●	●		
	160412 MP	1.5-3.5	0.15-0.40								●						●		●			●	●		
	220404 MP	1.0-3.5	0.12-0.35																●						
	220408 MP	1.0-4.0	0.12-0.40								●	●			●				●	●					
 Type B Medium	**TNMG 110308 MT**	1.0-3.0	0.17-0.40								●	●					●								
	160404 MT	1.0-3.5	0.17-0.40		●		●	●			●	●					●		●	●					
	160408 MT	1.2-3.5	0.17-0.50	●	●		●	●	●		●	●			●		●		●	●					
	160412 MT	1.5-3.5	0.20-0.50				●				●	●					●								
	220404 MT	1.2-5.0	0.15-0.40								●	●													
	220408 MT	1.2-5.0	0.17-0.50				●				●	●					●			●					
	220412 MT ✓	1.5-5.0	0.20-0.50								●	●					●			●					
	270612 MT ✓	3.0-7.0	0.20-0.50					●					●				●		●						



A54, A66, A67, A104, A107, A108, A148, A173, A200, A204

▸ ✓: Type B chip breaker

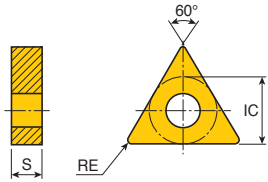
●: Standard items

TaeguTec

TNMG TNMM

T-TURN

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76	0.4-1.2
22	12.7	4.76	0.8-1.6
27	15.88	6.35	1.2
33	19.05	9.52	2.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium	**TNMG 160404 PC**	1.0-3.5	0.15-0.40							●	●	●			●									●	
	160408 PC	0.5-4.5	0.15-0.50							●	●	●		●	●	●	●				●			●	
	160412 PC	0.6-4.5	0.17-0.55							●	●	●													
	220408 PC	1.2-5.0	0.17-0.50								●	●													
	220412 PC	1.5-5.0	0.20-0.50								●	●													
 Roughing	**TNMG 160408 RGP**	1.5-5.0	0.25-0.65								●	●													
	160412 RGP	2.0-5.0	0.25-0.65								●	●													
 Roughing	**TNMG 160408 RT**	2.0-5.0	0.25-0.65				●	●	●			●													
	160412 RT	2.0-5.0	0.25-0.65				●	●	●			●													
	220408 RT	2.0-7.0	0.25-0.65									●	●				●								
	220412 RT	2.5-7.0	0.25-0.65					●																	
	330924 RT	3.0-9.0	0.35-0.70									●	●					●							
 Finishing	**TNMG 160408 SF**	0.7-1.5	0.10-0.30		●												●		●						
 Right-hand Medium	**TNMG 160404 L-VF**	0.7-3.5	0.10-0.30		●						●	●					●								
	160404 R-VF	0.7-3.5	0.10-0.30	●	●						●	●					●			●					
	160408 L-VF	1.0-3.5	0.12-0.35		●							●					●								
	160408 R-VF	1.0-3.5	0.12-0.35		●						●	●					●								
	220408 L-VF	1.2-5.0	0.15-0.45									●									●				
	220408 R-VF	1.2-5.0	0.15-0.45									●									●				
 Type B  Roughing	**TNMM 160408 RH**	2.0-7.0	0.30-0.70									●													
	220408 RH	2.0-7.0	0.30-0.70							●	●	●													
	220412 RH	2.5-7.0	0.30-0.70									●					●	●							
	270612 RH ✓	3.0-8.0	0.30-0.80								●														
 Roughing	**TNMM 160408 RX**	0.7-6.0	0.20-0.55								●	●	●												
	160412 RX	1.0-7.0	0.25-0.70								●	●	●												
	220408 RX	0.7-7.5	0.20-0.55								●	●	●												
	220412 RX	1.0-7.5	0.25-0.70								●	●	●												
	220416 RX	1.5-7.5	0.30-0.90								●	●	●												



A54, A66, A67, A104, A107, A108, A148, A173, A200, A204

▸ ✓: Type B chip breaker

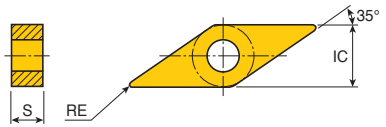
●: Standard items

ADVANCE CUTTING TaeguTec

VNGG VNMG

T-TURN

Negative 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
13	7.94	4.76	0.4-0.8
16	9.52	4.76	0.1-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated									
				PV3010	CT3000	TT3005	TT7005	TT7015	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	K10
 Medium	**VNGG 160401 ML**	0.1-1.0	0.03-0.10																						●
	160402 ML	0.2-1.2	0.05-0.15														●								●
	160404 ML	0.8-3.0	0.10-0.27														●								●
	160408 ML	0.8-3.5	0.10-0.30														●								●
 Medium	**VNMG 160404**	1.0-3.0	0.17-0.40		●		●	●	●	●					●										
	160408	1.5-3.0	0.17-0.50				●	●	●	●					●										
	160412	1.5-3.0	0.20-0.50				●	●		●															
 Finishing	**VNMG 160404 EA**	0.1-1.5	0.05-0.20									●	●				●		●	●	●				
	160408 EA	0.2-2.5	0.08-0.30						●			●					●			●	●				
 Medium	**VNMG 160408 EM**	0.8-3.5	0.13-0.50									●							●						
 Finishing	**VNMG 160408 FA**	0.3-2.0	0.05-0.25						●						●		●								
 Finishing	**VNMG 130404 FC #**	0.5-1.5	0.08-0.20						●	●			●												
	130408 FC #	0.5-2.0	0.10-0.23							●															
	160404 FC	0.3-2.5	0.05-0.30	●					●	●			●												
	160408 FC	0.3-2.5	0.08-0.35						●	●			●												
 Finishing	**VNMG 130404 FG #**	0.5-1.5	0.08-0.20		●						●	●					●		●						
	130408 FG #	0.5-2.0	0.10-0.23		●						●	●													
	160404 FG	0.5-2.0	0.08-0.20	●	●					●	●	●			●		●		●	●					
	160408 FG	0.5-2.0	0.10-0.23	●	●					●	●	●					●		●						
 Finishing	**VNMG 160402 FLP**	0.1-1.5	0.06-0.18								●	●													
	160404 FLP	0.2-1.5	0.08-0.30								●	●													
	160408 FLP	0.3-1.5	0.10-0.30								●	●													
	160412 FLP	0.4-1.5	0.12-0.30								●	●													



A55, A56, A85, A105, A149, A188, A190, A206

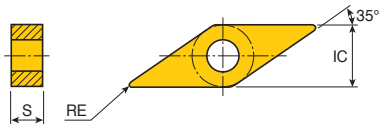
▸ #: Insert with screw hole

●: Standard items

VNMG VNMM

T-TURN

Negative 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
13	7.94	4.76	0.4-0.8
16	9.52	4.76	0.4-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Finishing	**VNMG 160404 FX**	0.2-2.0	0.05-0.20		●						●	●													
	160408 FX	0.2-2.0	0.07-0.20	●	●					●	●	●													
	160412 FX	0.2-2.0	0.10-0.23								●	●													
 Medium	**VNMG 160404 MGP**	0.3-3.0	0.12-0.30								●	●													
	160408 MGP	0.5-3.0	0.15-0.36								●	●													
	160412 MGP	0.6-3.0	0.17-0.36								●	●													
 Medium	**VNMG 160404 MLP**	0.25-2.5	0.10-0.30								●	●												●	
	160408 MLP	0.3-2.5	0.10-0.36								●	●												●	
 Type B Medium	**VNMG 130404 MT #**	0.8-2.5	0.15-0.36		●			●	●		●						●								
	130408 MT #	1.0-2.5	0.17-0.36				●				●	●					●								
	160404 MT ✓	0.8-3.0	0.15-0.36		●				●		●	●				●	●			●						
	160408 MT	1.0-2.5	0.17-0.36		●		●	●	●		●	●				●	●	●		●	●					
 Medium	**VNMG 160404 PC**	0.4-3.0	0.15-0.36							●	●	●		●											
	160408 PC	0.5-3.0	0.17-0.36							●	●	●													
 Medium	**VNMM160404 ML**	0.8-3.0	0.10-0.27														●								●
	160408 ML	1.0-3.0	0.12-0.32														●								●



A55, A56, A85, A105, A149, A188, A190

▸ ✓: Type B chip breaker
▸ #: Insert with screw hole

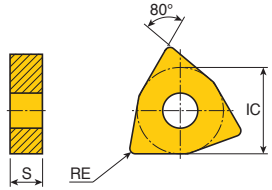
●: Standard items

ADVANCE CUTTING TaeguTec

WNMA WNMG

T-TURN

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
06	9.52	4.76	0.4-1.2
08	12.7	4.76	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**WNMA 060408**	1.0-4.0	0.15-0.70					●																	
	060412	1.5-4.0	0.20-0.80				●																		
	080408	1.0-5.0	0.15-0.70				●	●																	
	080412	1.5-5.0	0.20-0.80				●	●																	
	080416	1.5-5.0	0.20-0.80				●	●																	
 Finishing	**WNMG 080404 EA**	0.1-1.5	0.05-0.20																●		●				
	080408 EA	0.1-1.5	0.10-0.40											●	●	●			●						
 Medium	**WNMG 060408 EM**	0.8-3.0	0.13-0.50												●				●		●				
	060412 EM	0.8-3.0	0.15-0.55											●	●	●			●		●				
	080404 EM	0.8-4.0	0.10-0.45											●	●	●					●				
	080408 EM	0.8-4.0	0.12-0.45											●	●	●			●		●				
	080412 EM	0.8-4.0	0.12-0.45											●	●	●			●		●				
 Roughing	**WNMG 060408 ET**	0.8-4.0	0.15-0.50											●	●	●			●		●				
	060412 ET	0.8-4.0	0.15-0.50											●	●	●			●		●				
	080408 ET	0.8-4.5	0.15-0.55												●	●			●						
	080412 ET	0.8-4.5	0.20-0.50												●	●			●						
 Finishing	**WNMG 060404 FC**	0.5-2.0	0.07-0.20		●						●	●			●										
	080404 FC	0.5-2.0	0.07-0.20							●		●													
	080408 FC	0.5-2.0	0.07-0.20	●	●					●	●	●		●	●	●									
	080412 FC	0.5-2.0	0.10-0.25								●														
 Finishing	**WNMG 060404 FG**	0.5-2.0	0.07-0.20	●	●						●	●					●								
	060408 FG	0.7-2.0	0.10-0.25	●	●						●														
	080404 FG	0.5-2.0	0.07-0.20	●	●					●	●	●					●		●						
	080408 FG	0.7-2.0	0.10-0.25	●	●						●	●					●								



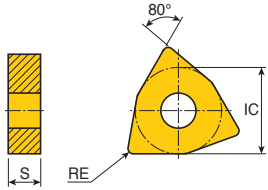
A57, A68, A106,
A149, A169,
A198, A207

●: Standard items

WNMG

T-TURN

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
06	9.52	4.76	0.2-1.2
08	12.7	4.76	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**WNMG 080402 FLP**	0.1-2.0	0.06-0.18								●	●													
	080404 FLP	0.2-2.0	0.08-0.30								●	●													
	080408 FLP	0.3-2.0	0.10-0.30								●	●													
 Roughing	**WNMG 080408 KT**	0.29-5.5	0.17-0.47				●	●	●																
	080412 KT	0.39-5.5	0.23-0.63				●	●	●																
	080416 KT	0.5-5.5	0.25-0.60				●	●																	
 Medium	**WNMG 060404 MC**	0.5-2.5	0.10-0.30								●						●								
	060408 MC	0.7-3.0	0.12-0.35								●														
	080408 MC	0.7-3.5	0.12-0.35		●						●	●	●				●								
	080412 MC	0.7-3.5	0.15-0.40								●	●													
 Medium	**WNMG 080404 MGP**	0.3-4.0	0.12-0.40								●	●													
	080408 MGP	0.5-4.0	0.15-0.55								●	●													
	080412 MGP	0.6-4.0	0.17-0.55								●	●													
	080416 MGP	0.8-4.0	0.20-0.60								●	●													
 Medium	**WNMG 080408 MGS**	1.0-4.0	0.15-0.40			●																●	●		●
	080412 MGS	1.3-4.0	0.17-0.40			●																●	●		●
 Medium	**WNMG 080408 ML**	1.0-3.5	0.12-0.35									●		●	●		●		●	●					●
	080412 ML	1.3-3.5	0.15-0.35																●						
 Medium	**WNMG 080404 MLP**	0.25-3.5	0.10-0.30								●	●													
	080408 MLP	0.5-3.5	0.10-0.40								●	●													
	080412 MLP	0.6-3.5	0.15-0.50								●	●													
 Type B Medium	**WNMG 060408 MP**	1.0-3.0	0.12-0.35									●			●		●		●	●					
	060412 MP	1.3-3.0	0.15-0.40														●								
	080404 MP ✓	1.0-4.0	0.10-0.35									●													
	080408 MP	1.0-4.0	0.12-0.40								●	●		●	●	●	●		●	●	●				
	080412 MP	1.3-4.0	0.15-0.40								●	●				●	●								



A57, A68, A106, A149, A169, A198, A207

▸ ✓: Type B chip breaker

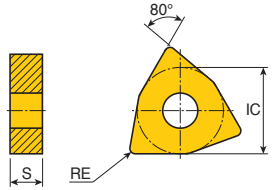
●: Standard items

ADVANCE CUTTING TaeguTec

WNMG

T-TURN

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
06	9.52	4.76	0.4-1.2
08	12.7	4.76	0.4-1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Type B Medium	**WNMG 060404 MT**	1.0-3.0	0.12-0.40				●	●			●	●			●		●		●	●					
	060408 MT	1.2-3.0	0.15-0.45				●	●			●	●			●		●		●	●					
	060412 MT	1.5-3.0	0.23-0.50								●														
	080404 MT ✓	1.0-4.0	0.12-0.40		●			●	●		●	●			●		●		●	●					
	080408 MT	1.2-4.0	0.17-0.55		●		●	●	●		●	●	●	●		●	●		●	●	●				
	080412 MT	1.5-4.0	0.25-0.55					●	●		●	●			●	●	●			●					
	080416 MT	1.5-4.0	0.25-0.55					●		●	●														
 Medium	**WNMG 060408 PC**	0.5-4.0	0.15-0.50								●	●													
	060412 PC	0.6-4.0	0.17-0.50								●	●													
	080408 PC	0.5-4.0	0.15-0.50							●	●	●		●	●	●			●		●			●	
	080412 PC	0.6-4.0	0.17-0.50							●	●	●	●		●						●			●	
	080416 PC	0.8-4.0	0.20-0.50								●	●													
 Roughing	**WNMG 080408 RGP**	1.5-4.0	0.25-0.70								●	●													
	080412 RGP	2.0-4.0	0.25-0.70								●	●													
	080416 RGP	2.5-4.0	0.30-0.75								●	●													
 Roughing	**WNMG 080408 RT**	2.5-4.0	0.25-0.70				●	●			●	●	●		●	●	●	●							
	080412 RT	2.5-4.0	0.25-0.70				●	●	●		●	●					●	●							
	080416 RT	2.5-4.0	0.30-0.75				●				●	●													
wiper  Finishing	**WNMG 080408 WS**	0.5-2.0	0.07-0.35					●			●	●													
wiper  Medium	**WNMG 060408 WT**	0.7-3.5	0.15-0.60								●						●								
	060412 WT	0.7-3.5	0.20-0.80					●			●														
	080408 WT	1.0-4.0	0.15-0.60		●		●				●	●					●								
	080412 WT	1.0-4.0	0.20-0.80		●		●	●			●	●	●												



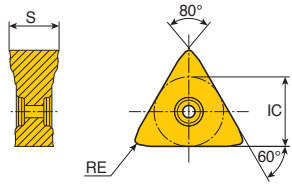
A57, A68, A106, A149, A169, A198, A207

▸ ✓: Type B chip breaker

●: Standard items

TNMV

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
21	12.5	9	0.8

Insert	Designation	BWT		FWT		CVD coated										PVD coated						
		ap (mm)	Feed (mm/rev)	ap (mm)	Feed (mm/rev)	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**TNMV 210908-BM**	0.7-2.0	0.60-1.20	0.5-3.5	0.20-0.60						●	●											
 Medium	**TNMV 210908-BS**	0.7-2.0	0.60-1.20	1.0-3.5	0.20-0.40										●				●				

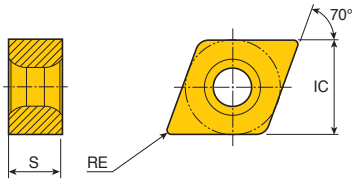
A132, A136, A148

▸ BWT: Backward turning
▸ FWT: Forward turning

●: Standard items

XNMV

Negative 70° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	11.11	5.56	0.8

Insert	Designation	BWT		FWT		CVD coated										PVD coated						
		ap (mm)	Feed (mm/rev)	ap (mm))	Feed (mm/rev)	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**XNMV 110508L-BM**	0.5-1.8	0.50-0.80	0.5-3.5	0.10-0.40						●	●											
	110508R-BM	0.5-1.8	0.50-0.80	0.5-3.5	0.10-0.40						●	●											
 Medium	**XNMV 110508L-BS**	0.5-1.8	0.40-0.80	1.0-4.0	0.15-0.40						●	●								●	●		
	110508R-BS	0.5-1.8	0.40-0.80	1.0-4.0	0.15-0.40						●	●								●	●		



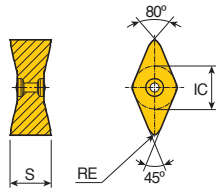
A133, A190,
A199, A212

- BWT: Backward turning
- FWT: Forward turning
- Apply L insert to L holder and R boring bar
- Apply R insert to R holder and L boring bar

●: Standard items

ZNMV

Negative rhombic inserts with 80° corner angle



Size	Dimension (mm)		
	IC	S	RE
14	10.5	10	0.8

Insert	Designation	BWT		FWT		CVD coated									PVD coated						
		ap (mm)	Feed (mm/rev)	ap (mm)	Feed (mm/rev)	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**ZNMV 141008-BM**	0.5-2.5	0.40-1.00	0.5-2.0	0.20-0.60					●	●	●											
 Medium	**ZNMV 141008-BS**	0.5-2.5	0.50-1.00	1.0-2.0	0.20-0.40	●				●	●	●								●	●		



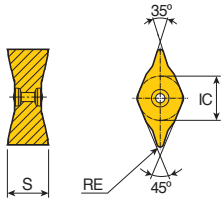
A134, A150, A207

- BWT: Backward turning
- FWT: Forward turning
- Products are made by license; Prime Turning is a proprietary technology of AB Sandvik Coromant

●: Standard items

ZNMV Y-BF

Negative rhombic inserts with 35° corner angle



Size	Dimension (mm)		
	IC	S	RE
14	10.5	10	0.8

Insert	Designation	BWT		FWT		CVD coated									PVD coated						
		ap (mm)	Feed (mm/rev)	ap (mm))	Feed (mm/rev)	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**ZNMV 141008Y-BF**	0.25-1.5	0.20-0.50	0.25-1.0	0.20-0.35	●				●	●	●											



A134, A136, A207

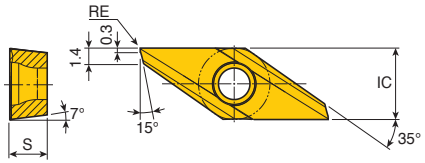
- BWT: Backward turning
- FWT: Forward turning

●: Standard items

ADVANCE CUTTING TaeguTec

BTVC

Positive 7° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0-0.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	**BTVC**	**110300R-F**	0.03-3.5	0.01-0.12										●		
		110301MR-F	0.05-3.5	0.01-0.15										●		
		110302MR-F	0.10-3.5	0.01-0.15										●		

Right-hand Back Turn

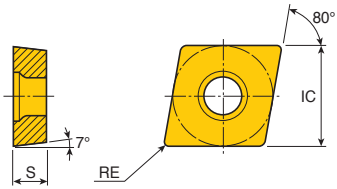
A89, A140

▸ - F: Sharp edge

●: Standard items

CCET

Positive 7° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.03-0.8
09	9.52	3.97	0.03-0.8

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	CCET	**0602003 L-GF**	0.1-1.5	0.02-0.15		●						●				
		**0602003 R-GF**	0.1-1.5	0.02-0.15		●						●				
		060201 L-GF	0.2-1.5	0.02-0.15		●						●				
		060201 R-GF	0.2-1.5	0.02-0.15		●						●				
		060202 L-GF	0.3-1.5	0.03-0.17								●				
		060202 R-GF	0.3-1.5	0.03-0.17								●				
		060204 L-GF	0.3-1.5	0.05-0.20								●				
		060204 R-GF	0.3-1.5	0.05-0.20		●						●				
		060208 L-GF	0.4-1.5	0.07-0.22		●						●				
		060208 R-GF	0.4-1.5	0.07-0.22		●						●				
		09T3003 L-GF	0.1-2.5	0.02-0.15								●				
		09T3003 R-GF	0.1-2.5	0.02-0.15								●				
		09T301 L-GF	0.2-2.5	0.02-0.15								●				
		09T301 R-GF	0.2-2.5	0.0 2-0.15		●						●				
		09T302 L-GF	0.3-2.5	0.03-0.17		●						●				
		09T302 R-GF	0.3-2.5	0.03-0.17		●						●				
		09T304 L-GF	0.3-2.5	0.05-0.20								●				
		09T304 R-GF	0.3-2.5	0.05-0.20								●				
		09T308 L-GF	0.4-2.5	0.07-0.22		●						●				
		09T308 R-GF	0.4-2.5	0.07-0.22								●				
TOPMINI wiper	CCET	**0602003 L-GW***	0.1-1.5	0.02-0.15								●				
		**0602003 R-GW***	0.1-1.5	0.02-0.15								●				
		09T3003 L-GW*	0.1-2.5	0.02-0.15								●				
		09T3003 R-GW*	0.1-2.5	0.02-0.15								●				

Right-hand Finishing

Right-hand Finishing



A69-A71, A92, A151, A174, A175, A209

▸ *: Wiper inserts should be applied to ☐CLCR/L...

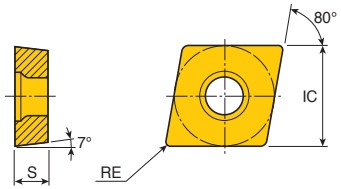
●: Standard items

ADVANCE CUTTING TaeguTec

CCGT

T-TURN

Positive 7° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
03	3.5	1.4	0.03-0.4
04	4.3	1.8	0.03-0.4
06	6.35	2.38	0.1-0.4
09	9.52	3.97	0.1-0.8
12	12.7	4.76	0.2-0.8

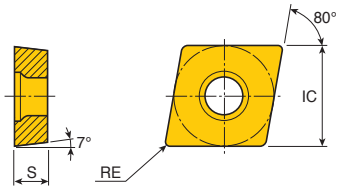
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
				PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	CCGT **0301003 L-FF**	0.05-0.3	0.03-0.10								●				
	0301003 R-FF	0.05-0.3	0.03-0.10								●				
	030101 L-FF	0.08-0.4	0.03-0.12		●						●				
	030101 R-FF	0.08-0.4	0.03-0.12		●						●				
	030102 L-FF	0.1-0.4	0.03-0.15		●						●				
	030102 R-FF	0.1-0.4	0.03-0.15		●						●				
	030104 L-FF	0.1-0.4	0.05-0.20		●						●				
	030104 R-FF	0.1-0.4	0.05-0.20								●				
	0401003 L-FF	0.05-0.4	0.03-0.10								●				
	0401003 R-FF	0.05-0.4	0.03-0.10		●						●				
	040101 L-FF	0.1-0.5	0.03-0.12								●				
	040101 R-FF	0.1-0.5	0.03-0.12								●				
	040102 L-FF	0.1-0.5	0.03-0.15		●						●				
	040102 R-FF	0.1-0.5	0.03-0.15		●						●				
	040104 L-FF	0.1-0.5	0.05-0.20		●						●				
Right-hand Finishing	**040104 R-FF**	0.1-0.5	0.05-0.20		●						●				
	CCGT **060202 FL**	0.5-2.0	0.10-0.20												●
	060204 FL	0.5-2.0	0.10-0.25												●
	09T301 FL	0.5-2.5	0.10-0.25												●
	09T302 FL	0.5-2.5	0.10-0.25												●
	09T304 FL	0.5-2.5	0.10-0.25												●
	09T308 FL	0.8-3.0	0.10-0.30												●
	120402 FL	0.5-2.5	0.10-0.25												●
	120404 FL	0.5-2.5	0.10-0.25												●
Medium For aluminum	**120408 FL**	1.0-3.5	0.10-0.30												●
TOPMINI	CCGT **060201 SA**	0.1-1.5	0.02-0.15			●					●				
	060202 SA	0.1-1.5	0.02-0.15			●					●				
	060204 SA	0.1-2.4	0.03-0.20			●					●				
	09T301 SA	0.1-2.5	0.02-0.15			●					●				
	09T302 SA	0.1-2.5	0.02-0.15			●					●				
	09T304 SA	0.1-2.5	0.03-0.20			●		●			●				
Finishing	**09T308 SA**	0.1-2.5	0.03-0.25			●					●				

A69-A71, A92, A151, A174, A175, A209

●: Standard items

CCGT

Positive 7° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.2
09	9.52	3.97	0.1-0.4

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	CCGT	**09T304M SH-F**	0.7-3.5	0.07-0.17									●	●		
 Roughing For Swiss																
TOPMINI	CCGT	**060202M SM-F**	0.2-1.5	0.02-0.12									●	●		
 Medium For Swiss		**09T301M SM-F**	0.2-1.5	0.02-0.12									●	●		
		09T302M SM-F	0.2-1.5	0.02-0.12									●	●		
		09T304M SM-F	0.3-1.5	0.03-0.12									●	●		
TOPMINI	CCGT	**060202M SL-F**	0.02-0.2	0.02-0.10									●	●		
 Finishing For Swiss		**09T301M SL-F**	0.02-0.2	0.015-0.10									●	●		
		09T302M SL-F	0.02-0.2	0.02-0.10									●	●		

A69-A71, A92, A151, A174, A175, A209

▸ M: Corner radius minus tolerance
▸ - F: Sharp edge

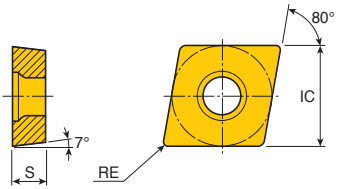
●: Standard items

ADVANCE CUTTING TaeguTec

CCMT

T-TURN

Positive 7° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.2-0.8
09	9.52	3.97	0.2-0.8
12	12.7	4.76	0.4-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**CCMT 060202 FA**	0.1-1.5	0.03-0.15	●	●										●		●		●		●				
	060204 FA	0.2-1.5	0.05-0.15	●	●							●					●		●	●					
	09T302 FA	0.1-2.0	0.03-0.15	●	●										●		●		●		●				
	09T304 FA	0.2-2.0	0.05-0.20	●	●							●							●	●					
	09T308 FA	0.3-2.0	0.08-0.25	●	●							●					●		●						
 Type B Finishing	**CCMT 060204 FG**	0.3-1.5	0.05-0.15	●	●		●	●			●	●			●	●	●		●	●	●	●	●		
	09T304 FG	0.4-2.0	0.07-0.20	●	●	●	●	●			●	●			●	●	●		●	●	●	●	●		
	09T308 FG	0.6-2.0	0.10-0.25	●	●	●	●				●	●			●	●	●		●	●		●	●		
	120408 FG ✓	0.6-2.0	0.10-0.25	●								●					●		●						
 Medium	**CCMT 060202 FM**	0.5-1.5	0.07-0.15		●						●	●					●		●						
	060204 FM	0.5-1.5	0.08-0.15								●	●					●		●	●					
	09T302 FM	0.5-2.0	0.07-0.20	●							●	●					●		●	●					
	09T304 FM	0.5-2.5	0.08-0.25								●	●					●		●	●					
	09T308 FM	0.8-2.5	0.10-0.25	●							●	●					●		●	●					
 Type B Medium	**CCMT 060204 MT** ✓	0.5-2.0	0.07-0.20	●	●		●	●		●	●	●	●		●	●	●		●	●					●
	060208 MT ✓	0.7-2.0	0.13-0.30	●	●		●	●			●	●	●				●		●		●				
	09T304 MT	0.7-3.5	0.10-0.25	●	●		●	●	●		●	●			●	●	●		●	●					
	09T308 MT	1.0-3.5	0.13-0.30		●		●	●	●		●	●	●	●	●	●	●		●	●					
	120404 MT ✓	1.0-5.0	0.10-0.25	●	●		●	●			●	●					●			●					
	120408 MT	1.3-5.0	0.13-0.30		●		●	●	●		●	●	●		●	●	●		●	●					
	120412 MT	1.5-5.0	0.17-0.35				●				●	●					●								
 Medium	**CCMT 060204 PC**	0.3-2.0	0.06-0.18		●					●	●	●		●	●						●				
	060208 PC	0.4-2.0	0.08-0.25								●	●		●	●						●				
	09T304 PC	0.35-3.0	0.08-0.25		●						●	●		●	●		●				●				
	09T308 PC	0.5-3.0	0.10-0.28		●					●	●	●		●	●						●				
	120404 PC	0.4-4.0	0.08-0.25								●	●		●	●						●				
	120408 PC	0.7-4.0	0.10-0.30		●						●	●		●	●						●				
	120412 PC	1.0-4.0	0.12-0.35		●						●	●		●	●		●				●				
wiper  Medium	**CCMT 09T308 WT** *	0.7-3.0	0.10-0.40				●				●	●					●		●						



A69-A71, A92, A151, A154, A174, A175, A209

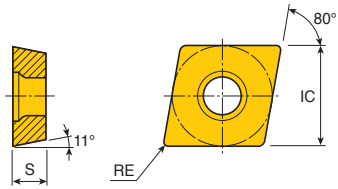
▸ ✓: Type B chip breaker

▸ *: Wiper inserts should be applied to ☐CLCR/L...

●: Standard items

CPMT

Positive 11° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.4-0.8
08	7.94	2.38	0.4-0.8
09	9.52	3.18-3.97	0.4-0.8

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**CPMT 080204 FG**	0.4-1.5	0.07-0.20		●							●					●								
	080208 FG	0.6-1.5	0.10-0.25		●							●					●								
	090304 FG	0.4-2.0	0.07-0.20		●							●					●								
	090308 FG	0.6-2.0	0.10-0.25		●						●	●					●								
 Medium	**CPMT 080204 FM**	0.5-2.0	0.08-0.20	●	●						●	●					●		●	●					
	080208 FM	0.8-2.0	0.10-0.20								●	●					●		●	●					
	090304 FM	0.5-2.5	0.08-0.25	●	●						●	●					●		●	●					
	090308 FM	0.8-2.5	0.10-0.25								●	●					●		●	●					
 Medium	**CPMT 060204 PC**	0.3-2.0	0.06-0.18		●		●	●						●	●		●		●						
	060208 PC	0.4-2.0	0.08-0.25		●			●						●	●		●		●						
	090304 PC	0.45-3.0	0.08-0.25		●							●		●	●		●		●						
	090308 PC	0.6-3.0	0.10-0.30		●							●		●	●		●		●						
	09T304 PC	0.45-3.0	0.08-0.25		●						●	●					●				●				
	09T308 PC	0.6-3.0	0.10-0.30		●		●	●				●		●	●		●		●						

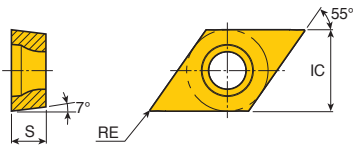

A176, A177

●: Standard items

DCET

T-TURN

Positive 7° clearance 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.03-0.8
11	9.52	3.97	0.03-0.8

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated								Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	**DCET**	**0702003 L-GF**	0.2-1.5	0.01-0.15		●						●				
		0702003 R-GF	0.2-1.5	0.01-0.15								●				
		070201 L-GF	0.2-1.5	0.02-0.15		●						●				
		070201 R-GF	0.2-1.5	0.02-0.15		●						●				
		070202 L-GF	0.3-1.5	0.03-0.17		●						●				
		070202 R-GF	0.3-1.5	0.03-0.17		●						●				
		070204 L-GF	0.3-1.5	0.05-0.20		●						●				
		070204 R-GF	0.3-1.5	0.05-0.20		●						●				
		070208 L-GF	0.3-1.5	0.05-0.20		●						●				
		070208 R-GF	0.3-1.5	0.05-0.20		●						●				
		11T3003 L-GF	0.2-2.5	0.02-0.15		●						●				
		11T3003 R-GF	0.2-2.5	0.02-0.15		●						●				
		11T301 L-GF	0.2-2.5	0.02-0.15		●						●				
		11T301 R-GF	0.2-2.5	0.02-0.15					●			●				
		11T302 L-GF	0.3-2.5	0.03-0.17		●						●				
		11T302 R-GF	0.3-2.5	0.03-0.17					●			●				
		11T304 L-GF	0.3-2.5	0.05-0.20					●			●				
		11T304 R-GF	0.3-2.5	0.05-0.20				●	●			●				
		11T308 L-GF	0.3-2.5	0.05-0.20								●				
		11T308 R-GF	0.3-2.5	0.05-0.20								●				
TOPMINI wiper	**DCET**	**0702003 L-GW ***	0.1-1.5	0.02-0.15								●				
		0702003 R-GW *	0.1-1.5	0.02-0.15								●				
		11T3003 L-GW *	0.1-1.5	0.02-0.15								●				
		11T3003 R-GW *	0.1-1.5	0.02-0.15								●				

Right-hand Finishing

Right-hand Finishing

A72-A75, A93, A95, A97, A137, A141, A151, A178-A180, A209, A214

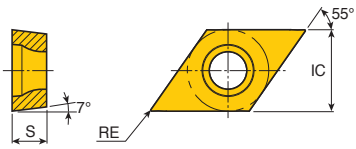
▸ *: Wiper inserts should be applied to ☐DJCR/L..., ☐DUCR/L..., ☐DZCR/L...

●: Standard items

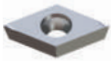
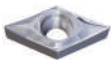
DCGT

T-TURN

Positive 7° clearance 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.03-0.4
11	9.52	3.97	0.03-0.8

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
				PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOP MINI	**DCGT 0702003 L-FF**	0.05-0.3	0.03-0.10		●						●				
	**0702003 R-FF**	0.05-0.3	0.03-0.10								●				
	070201 L-FF	0.08-0.4	0.03-0.12								●				
Right-hand Finishing	**070201 R-FF**	0.08-0.4	0.03-0.12		●						●				
	070202 L-FF	0.1-0.4	0.03-0.15								●				
	070202 R-FF	0.1-0.4	0.03-0.15								●				
	070204 L-FF	0.1-0.4	0.05-0.20								●				
	070204 R-FF	0.1-0.4	0.05-0.20								●				
	11T3003 L-FF	0.05-0.4	0.03-0.10		●						●				
	11T3003 R-FF	0.05-0.4	0.03-0.10		●						●				
	11T301 L-FF	0.1-0.5	0.03-0.12		●						●				
	11T301 R-FF	0.1-0.5	0.03-0.12		●						●				
	11T302 L-FF	0.1-0.5	0.03-0.15								●				
	11T302 R-FF	0.1-0.5	0.03-0.15								●				
	11T304 L-FF	0.1-0.5	0.05-0.20		●						●				
	11T304 R-FF	0.1-0.5	0.05-0.20		●						●				
	**DCGT 070202 FL**	0.5-2.0	0.05-0.20												●
	070204 FL	0.5-2.5	0.05-0.25												●
Medium For aluminum	**11T302 FL**	0.5-2.5	0.05-0.25												●
	11T304 FL	0.5-2.5	0.05-0.25												●
	11T308 FL	0.8-3.0	0.08-0.30												●
TOP MINI	**DCGT 070201 SA**	0.1-1.5	0.02-0.15			●					●				
	**070202 SA**	0.1-1.5	0.02-0.15			●					●				
	070204 SA	0.1-1.5	0.03-0.20			●					●				
	11T301 SA	0.1-2.5	0.01-0.05			●					●				
Finishing	**11T302 SA**	0.1-2.5	0.02-0.15			●					●				
	11T304 SA	0.1-2.5	0.03-0.20			●					●				
	11T308 SA	0.1-2.5	0.03-0.20			●					●				



A72-A75, A93, A95, A97,
A137, A141, A151,
A178-A180, A209, A214

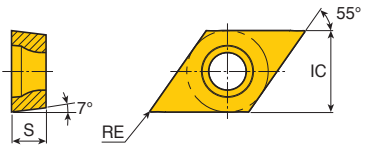
●: Standard items

ADVANCE CUTTING TaeguTec

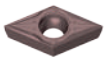
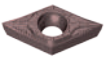
DCGT

T-TURN

Positive 7° clearance 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.1-0.4
11	9.52	3.97	0.1-0.4

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		PVD coated								Uncoated	
				PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT9020	TT9225	TT4410	TT4430	P20	K10
TOPMINI	DCGT **11T302M SH-E**	0.7-3.5	0.05-0.15										●		
	**11T302M SH-F**	0.7-3.5	0.05-0.15									●	●		
	11T304M SH-F	0.7-3.5	0.07-0.17									●	●		
Roughing For Swiss															
TOPMINI	DCGT **11T301M ST-E**	0.3-5.0	0.03-0.08										●		
	**11T302M ST-E**	0.5-5.0	0.03-0.10										●		
	11T304M ST-E	0.7-5.0	0.05-0.12										●		
	11T301M ST-F	0.3-5.0	0.03-0.08							●			●		
Roughing For Swiss	**11T302M ST-F**	0.5-5.0	0.03-0.10							●			●		
	11T304M ST-F	0.7-5.0	0.05-0.12							●			●		
TOPMINI	DCGT **070201M SM-F**	0.2-1.5	0.02-0.12									●	●		
	**070202M SM-F**	0.2-1.5	0.02-0.12									●	●		
	070204M SM-F	0.2-1.5	0.03-0.12									●	●		
	11T301M SM-F	0.2-1.5	0.02-0.12									●	●		
Medium For Swiss	**11T302M SM-F**	0.2-1.5	0.02-0.12									●	●		
	11T304M SM-F	0.2-1.5	0.03-0.12									●	●		
TOPMINI	DCGT **070201M SL-F**	0.02-0.25	0.015-0.10									●	●		
	**070202M SL-F**	0.02-0.25	0.02-0.10									●	●		
	11T301M SL-F	0.02-0.25	0.015-0.10									●	●		
	11T302M SL-F	0.02-0.25	0.02-0.10									●	●		
Finishing For Swiss															



A72-A75, A93, A95, A97, A137, A141, A151, A178-A180, A209, A214

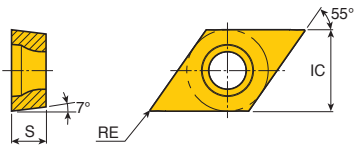
- M: Corner radius minus tolerance
- - F: Sharp edge
- - E: Micro honing edge

●: Standard items

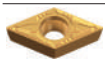
DCMT

T-TURN

Positive 7° clearance 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.2-0.8
11	9.52	3.97	0.2-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Finishing	**DCMT 070202 FA**	0.1-1.5	0.03-0.15	●	●												●		●		●				
	070204 FA	0.2-1.5	0.05-0.20	●	●						●	●							●	●					
	11T302 FA	0.1-2.0	0.03-0.15	●	●									●			●		●		●				
	11T304 FA	0.2-2.0	0.05-0.20	●	●						●	●					●		●	●					
	11T308 FA	0.3-2.0	0.08-0.25	●	●						●	●					●		●	●					
 Finishing	**DCMT 070204 FG**	0.4-1.5	0.07-0.20	●	●					●	●	●			●	●	●		●	●	●				
	070208 FG	0.4-2.0	0.07-0.20	●	●						●	●			●		●			●					
	11T304 FG	0.6-1.5	0.10-0.25	●	●	●	●	●			●	●		●	●	●	●		●	●	●	●	●		
	11T308 FG	0.6-2.0	0.10-0.25	●	●	●	●	●		●	●	●			●	●	●		●		●	●	●		
 Medium	**DCMT 070202 FM**	0.5-1.5	0.07-0.20								●	●					●		●	●					
	070204 FM	0.5-1.5	0.08-0.20	●							●	●			●	●	●		●	●	●			●	
	070208 FM	0.8-1.5	0.10-0.20	●	●						●	●					●		●	●					
	11T302 FM	0.5-2.0	0.07-0.20		●						●	●					●		●	●					
	11T304 FM	0.5-2.0	0.08-0.20	●	●						●	●					●		●	●					
	11T308 FM	0.8-2.5	0.10-0.25								●	●					●		●	●					
 Medium	**DCMT 11T304 MT**	0.7-3.0	0.10-0.25	●	●		●	●		●	●	●	●		●	●	●		●	●					
	11T308 MT	1.0-3.0	0.13-0.30		●		●	●	●	●	●	●			●	●	●		●	●	●				
	11T312 MT	1.5-3.0	0.17-0.35		●		●	●			●						●		●		●				
 Medium	**DCMT 070204 PC**	0.3-2.0	0.06-0.18								●	●		●	●						●				
	070208 PC	0.4-2.0	0.08-0.25								●	●		●	●						●				
	11T304 PC	0.35-3.0	0.08-0.25		●					●	●	●		●	●						●				
	11T308 PC	0.5-3.0	0.10-0.28							●	●	●		●	●						●				
	11T312 PC	0.5-3.0	0.12-0.32								●	●		●	●						●				



A72-A75, A93, A95, A97, A137, A141, A151, A154, A178-A180, A209, A214

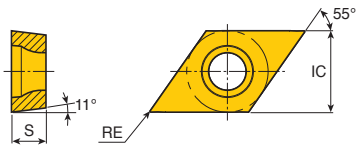
●: Standard items

ADVANCE CUTTING TaeguTec

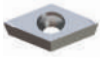
DPET DPGT

T-TURN

Positive 11° clearance 55° rhombic inserts



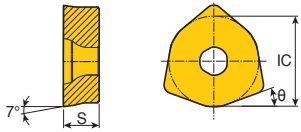
Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.03-0.2
11	9.52	3.97	0.03-0.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		PVD coated								Uncoated	
				PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI  Right-hand Finishing	**DPET 070201 R-GF**	0.2-1.5	0.02-0.15								●				
	070202 L-GF	0.3-1.5	0.03-0.17								●				
	070202 R-GF	0.3-1.5	0.03-0.17		●						●				
	11T3003 L-GF	0.2-2.5	0.02-0.15								●				
	11T301 L-GF	0.2-2.5	0.02-0.15								●				
	11T301 R-GF	0.2-2.5	0.02-0.15								●				
	11T302 L-GF	0.3-2.5	0.03-0.17		●						●				
	11T302 R-GF	0.3-2.5	0.03-0.17		●						●				
TOPMINI  Right-hand Finishing	**DPGT 0702003 R-FF**	0.05-0.3	0.03-0.10								●				
	070202 L-FF	0.1-0.4	0.03-0.15								●				
	070202 R-FF	0.1-0.4	0.03-0.15		●						●				
	11T3003 R-FF	0.05-0.4	0.03-0.10								●				
	11T301 R-FF	0.1-0.5	0.03-0.12		●						●				
	11T302 L-FF	0.1-0.5	0.03-0.15		●						●				
	11T302 R-FF	0.1-0.5	0.03-0.15		●						●				

●: Standard items

FCMX

Positive 7° clearance high feed inserts



Size	Dimension (mm)		
	IC	S	θ
10-HFG	15.45	6.5	15°
10-HFP	16.45	6.5	20°

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 High feed For general	**FCMX 100616-HFG**	0.5-2.0	1.50-3.00								●	●			●									
 High feed For alloy steel	**FCMX 100616-HFP**	0.5-2.5	1.00-2.50								●	●	●											



A131

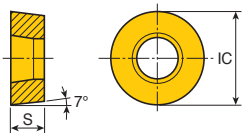
●: Standard items

ADVANCE CUTTING TaeguTec

RCGT RCMT RCMX

T-TURN

Positive 7° clearance round inserts



Size	Dimension (mm)		Size	Dimension (mm)	
	IC	S		IC	S
08	8.0	3.18	**20**	20.0	6.35
10	10.0	3.18-3.97	**25**	25.0	7.94
12	12.0	4.76	**32**	32.0	9.52
16	16.0	6.35			

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Medium For aluminum	**RCGT 0803MO FL**	1.0-4.0	0.20-0.40																					●
	1003MO FL	1.0-5.0	0.20-0.40																					●
	10T3MO FL	1.0-5.0	0.20-0.40																					●
 Medium	**RCMT 080300 MGS**	0.5-2.0	0.15-0.30			●																●	●	●	●
	120400 MGS	1.0-3.0	0.25-0.50			●																●	●		●
 Medium	**RCMT 080300 MT**	0.5-3.0	0.15-0.40								●	●					●								
	10T300 MT	1.0-4.0	0.20-0.50				●	●		●	●	●					●								
	120400 MT	2.0-5.0	0.30-0.60				●	●			●	●													
	160600 MT	3.0-7.0	0.40-0.80									●													
 Medium	**RCMT 080300 PC**	0.5-3.0	0.15-0.40																					●	
	10T300 PC	1.0-4.0	0.20-0.50																					●	
	120400 PC	2.0-5.0	0.30-0.60							●	●	●		●	●	●			●					●	
 Roughing	**RCMX 100300**	1.5-4.0	0.25-0.50				●	●			●	●					●								●
	120400	2.5-5.0	0.30-0.60				●	●			●	●					●	●							
	160600	3.0-7.0	0.40-0.75				●	●		●	●	●					●								
	200600	3.5-9.0	0.48-0.90				●	●			●	●	●				●								●
	250700	4.0-12.0	0.55-1.20				●	●	●	●	●	●	●					●		●					●
	320900	5.0-15.0	0.65-1.50				●				●	●	●					●							
 Roughing	**RCMX 100300 RA**	1.0-4.0	0.20-0.50								●	●	●												
	120400 RA	2.0-5.0	0.25-0.60								●	●	●		●										
	160600 RA	2.5-7.0	0.35-0.75								●	●	●												
	200600 RA	3.0-9.0	0.40-0.90				●			●	●	●								●					
	250700 RA	3.5-12.0	0.50-1.20							●	●	●	●												
	320900 RA	4.0-15.0	0.60-1.50								●	●	●												



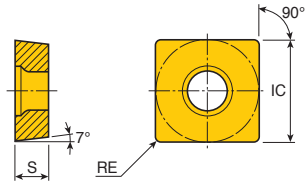
A62, A63,
A76, A77, A152

●: Standard items

SCGT SCMT

T-TURN

Positive 7° clearance square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.97	0.4-0.8
12	12.7	4.76	0.2-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium For aluminum	**SCGT 09T308 FL**	0.5-3.0	0.10-0.30																						●
	120402 FL	0.5-3.0	0.10-0.30																						●
	120404 FL	0.5-4.0	0.10-0.30																						●
	120408 FL	1.0-4.0	0.10-0.30																						●
 Finishing	**SCMT 09T304 FG**	0.6-2.0	0.08-0.25								●				●										
	09T308 FG	0.6-2.0	0.10-0.25								●	●			●		●		●	●					
 Medium	**SCMT 09T304 FM**	0.5-2.5	0.08-0.25								●	●					●		●	●					
	09T308 FM	0.8-2.5	0.10-0.25								●	●					●		●	●					
 Medium	**SCMT 09T304 MT**	0.7-3.5	0.10-0.25	●	●		●	●		●	●	●			●		●			●					
	09T308 MT	1.0-3.5	0.13-0.30		●		●	●	●		●	●	●		●	●	●	●	●	●					
	120404 MT	1.0-5.0	0.10-0.25		●		●	●			●	●					●								
	120408 MT	1.0-5.0	0.13-0.30		●		●	●	●		●	●	●		●	●	●		●	●					
	120412 MT	1.0-5.0	0.15-0.35				●	●		●		●	●							●					
 Medium	**SCMT 09T304 PC**	0.35-3.0	0.08-0.25		●						●	●			●						●				
	09T308 PC	0.5-3.0	0.10-0.28		●						●	●		●	●						●				
	120404 PC	0.4-4.0	0.08-0.25								●	●			●						●				
	120408 PC	0.7-4.0	0.10-0.30		●						●	●		●	●						●				
	120412 PC	1.0-4.0	0.12-0.35								●	●		●	●						●				



A78, A181

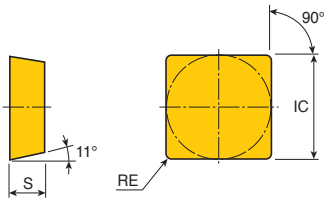
●: Standard items

ADVANCE CUTTING TaeguTec

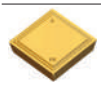
SPGN SPMR SPUN

T-TURN

Positive 11° clearance square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.18	0.4-0.8
12	12.7	3.18-4.76	0.4-1.6
15	15.88	4.76	0.4-1.2
19	19.05	4.76	0.4-1.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
					PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**SPGN**	**090304**	0.7-3.5	0.08-0.20								●														●
		090308	0.7-3.5	0.10-0.25								●														●
		120304	1.0-5.0	0.08-0.20				●																		●
		120308	1.0-5.0	0.10-0.25								●	●													●
		120312	1.0-5.0	0.15-0.30																		●				
		120408	1.0-5.0	0.10-0.25																						●
		120416	1.0-5.0	0.18-0.33																						●
		150404	1.5-7.0	0.08-0.20								●														●
		190404	1.5-9.0	0.08-0.20								●														
		190408	1.5-9.0	0.10-0.25																						●
 Medium	**SPMR**	**090304**	0.7-3.5	0.10-0.25								●	●					●								
		090308	1.0-3.5	0.13-0.30								●	●					●								
		120304	1.0-5.0	0.10-0.25								●	●					●								
		120308	1.0-5.0	0.13-0.30								●	●	●				●								
		120312	1.0-5.0	0.15-0.35										●												
 Medium	**SPUN**	**120304**	1.0-5.0	0.10-0.30								●	●													
		120308	1.0-5.0	0.15-0.40		●						●	●													●
		150404	1.5-7.0	0.10-0.30														●								
		190412	1.5-9.0	0.20-0.50									●													

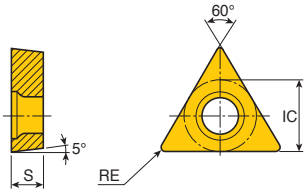


A48, A166

●: Standard items

TBGT

Positive 5° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
06	3.97	1.59	0.03-0.4

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	TBGT	**0601003 R-FF**	0.05-0.3	0.03-0.10		●						●				
		0601003 L-FF	0.05-0.3	0.03-0.10		●						●				
		060101 R-FF	0.08-0.4	0.03-0.12		●						●				
		060101 L-FF	0.08-0.4	0.03-0.12								●				
		060102 R-FF	0.1-0.4	0.03-0.15								●				
		060102 L-FF	0.1-0.4	0.03-0.15		●						●				
		060104 R-FF	0.1-0.4	0.05-0.20		●						●				
		060104 L-FF	0.1-0.4	0.05-0.20		●						●				



Right-hand
Finishing

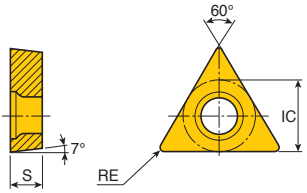
A185, A186

●: Standard items

TCET TCGT

T-TURN

Positive 7° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
08	4.76	2.38	0.1-0.2
09	5.56	2.36	0.4
11	6.35	2.38-3.18	0.1-0.4
16	9.52	3.97	0.4-0.8

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	TCET	**0802003 R-GF**	0.2-1.5	0.01-0.15		●										
		**080201 L-GF**	0.2-1.5	0.02-0.15		●										
		080201 R-GF	0.2-1.5	0.02-0.15		●						●				
		080202 L-GF	0.3-1.5	0.03-0.17		●						●				
Right-hand Finishing		**080202 R-GF**	0.3-1.5	0.03-0.17		●						●				
		110301 L-GF	0.2-1.5	0.02-0.15								●				
		110301 R-GF	0.2-1.5	0.02-0.15		●						●				
		110302 L-GF	0.3-1.5	0.03-0.17		●						●				
		110302 R-GF	0.3-1.5	0.03-0.17		●						●				
		110304 L-GF	0.5-1.5	0.05-0.20		●						●				
		110304 R-GF	0.5-1.5	0.05-0.20		●						●				
	TCGT	**090204 FL**	0.2-2.5	0.05-0.25												●
		110204 FL	0.2-3.0	0.05-0.30												●
		16T304 FL	0.5-3.0	0.05-0.30												●
Medium For aluminum		**16T308 FL**	0.5-3.0	0.10-0.30												●
TOPMINI	TCGT	**110201 SA**	0.1-2.5	0.01-0.05			●					●				
		**110202 SA**	0.2-2.5	0.02-0.15			●					●				
Finishing		**110204 SA**	0.2-2.5	0.03-0.20			●					●				



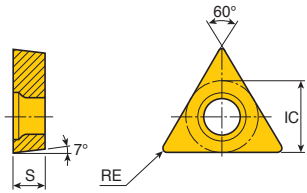
A79-A81, A152, A155, A182, A210

●: Standard items

TCMT

T-TURN

Positive 7° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
06	3.97	1.98	0.2
09	5.56	2.38	0.2-0.8
11	6.35	2.38	0.2-0.8
16	9.52	3.97	0.4-1.2
22	12.7	4.76	0.8

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**TCMT 06T102 FA**	0.4-1.2	0.03-0.15		●												●								
	110202 FA	0.1-1.5	0.03-0.15		●							●							●		●				
	110204 FA	0.1-1.5	0.05-0.15	●	●							●					●								
 Finishing	**TCMT 090208 FG**	0.6-1.5	0.10-0.25	●	●						●	●					●								
	110204 FG	0.4-1.5	0.07-0.20	●	●							●			●	●	●			●	●				
	110208 FG	0.6-1.5	0.10-0.25	●	●		●	●			●	●			●	●	●		●						
	16T304 FG	0.4-2.0	0.07-0.20	●	●		●					●					●			●					
	16T308 FG	0.6-2.0	0.10-0.25	●	●		●	●			●	●			●	●	●		●		●				
 Medium	**TCMT 090202 FM**	0.5-1.5	0.07-0.20	●	●						●	●					●		●	●					
	090204 FM	0.5-1.5	0.08-0.20		●						●	●					●		●	●					
	110202 FM	0.5-1.5	0.07-0.20	●	●						●	●					●		●	●					
	110204 FM	0.5-1.5	0.08-0.20	●	●						●	●					●		●	●					
	110208 FM	0.8-1.5	0.10-0.20	●	●						●	●					●		●	●					
	16T304 FM	0.5-2.0	0.08-0.20	●							●	●					●		●	●					
	16T308 FM	0.8-2.0	0.10-0.20	●	●						●	●					●		●	●					
	16T312 FM	1.0-2.5	0.10-0.25	●	●						●	●					●		●	●					
 Type B Medium	**TCMT 090204 MT** ✓	0.6-2.0	0.10-0.25	●	●		●	●			●	●			●	●	●		●	●					
	090208 MT ✓	0.8-2.0	0.13-0.30		●		●	●			●	●					●								
	110204 MT ✓	0.6-3.0	0.10-0.25	●	●		●	●			●	●			●	●	●		●	●					●
	110208 MT ✓	0.8-3.0	0.13-0.30	●	●		●	●			●	●			●	●	●		●	●					
	16T304 MT	0.8-5.0	0.10-0.25		●		●	●			●	●	●		●	●	●		●						
	16T308 MT	1.0-5.0	0.10-0.30	●	●		●	●		●	●	●	●		●	●	●		●	●					●
	16T312 MT	1.5-5.0	0.10-0.30				●					●													
	220408 MT	2.0-6.0	0.10-0.35								●														
 Medium	**TCMT 090204 PC**	0.3-2.0	0.06-0.18		●						●	●		●	●						●				
	090208 PC	0.4-2.0	0.08-0.25								●	●		●	●						●				
	110204 PC	0.3-2.5	0.06-0.20								●	●		●	●						●				
	110208 PC	0.42-2.5	0.09-0.26								●	●		●	●						●				
	16T304 PC	0.35-3.0	0.08-0.25								●	●		●	●						●				
	16T308 PC	0.5-3.0	0.10-0.28								●	●		●	●						●				
	16T312 PC	0.6-3.0	0.12-0.36		●						●	●		●	●						●				



A79-A81, A152, A182, A210

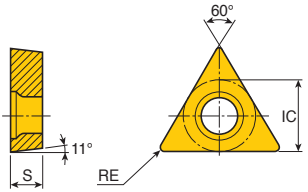
▸ ✓: Type B chip breaker

●: Standard items

ADVANCE CUTTING TaeguTec

TPET TPGT

Positive 11° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
08	4.76	2.38	0.03-0.2
11	6.35	3.18	0.03-0.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	TPET	**0802003 L-GF**	0.2-1.5	0.01-0.15		●										
		**0802003 R-GF**	0.2-1.5	0.01-0.15		●										
		080201 L-GF	0.2-1.5	0.02-0.15		●						●				
Right-hand Finishing		**080201 R-GF**	0.2-1.5	0.02-0.15								●				
		080202 L-GF	0.3-1.5	0.03-0.17		●						●				
		080202 R-GF	0.3-1.5	0.03-0.17		●						●				
		1103003 L-GF	0.2-1.5	0.01-0.15		●										
		110301 L-GF	0.2-1.5	0.02-0.15		●						●				
		110302 L-GF	0.3-1.5	0.03-0.17		●						●				
		110302 R-GF	0.3-1.5	0.03-0.17		●						●				
TOPMINI	TPGT	**0802003 L-FF**	0.05-0.3	0.03-0.10								●				
		**0802003 R-FF**	0.05-0.3	0.03-0.10								●				
		080201 L-FF	0.08-0.4	0.03-0.12		●						●				
Right-hand Finishing		**080201 R-FF**	0.08-0.4	0.03-0.12		●						●				
		080202 L-FF	0.1-0.4	0.03-0.15								●				
		080202 R-FF	0.1-0.4	0.03-0.15		●						●				
		1103003 L-FF	0.05-0.4	0.03-0.10		●						●				
		1103003 R-FF	0.05-0.4	0.03-0.10								●				
		110301 L-FF	0.1-0.5	0.03-0.12		●						●				
		110301 R-FF	0.1-0.5	0.03-0.12		●						●				
		110302 L-FF	0.1-0.5	0.03-0.15		●						●				
		110302 R-FF	0.1-0.5	0.03-0.15		●						●				



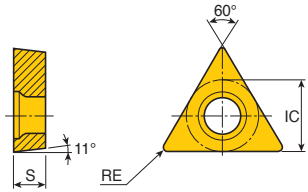
A80, A183, A184

●: Standard items

TPGN TPGT TPGX

T-TURN

Positive 11° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
09	5.56	2.38	0.2-0.4
11	6.35	3.18	0.2-0.8
16	9.52	4.76	0.2-1.2
22	12.7	4.76	0.4-3.0
27	15.88	6.35	0.8

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated								
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	P20	K10
 Finishing	**TPGN 090204**	0.5-3.0	0.07-0.20																						●	●
	110304	0.7-3.0	0.07-0.20																						●	●
	110308	1.0-3.0	0.10-0.25								●															●
	160302	1.0-5.0	0.05-0.18																							●
	160304	1.0-5.0	0.07-0.20								●														●	●
	160308	1.0-5.0	0.10-0.25					●			●	●													●	●
	160312	1.0-5.0	0.15-0.30																							●
	220404	1.5-7.0	0.07-0.20																						●	●
	220408	1.5-7.0	0.10-0.25									●														●
	220412	1.5-7.0	0.15-0.30																						●	●
	220416	1.5-7.0	0.20-0.35																						●	
	220425	1.5-7.0	0.25-0.40																							●
	270608	3.0-8.0	0.15-0.25								●															
 Right-hand Finishing	**TPGT 090204 L-C**	0.3-1.5	0.05-0.20		●																					
	110304 L-C	0.5-2.0	0.05-0.20		●																					●
	110304 R-C	0.5-2.0	0.05-0.20		●																					
	110308 L-C	0.5-2.0	0.07-0.25		●																					
	160404 L-C	0.7-3.0	0.05-0.20		●																					
	160404 R-C	0.7-3.0	0.05-0.20		●																					
 Left-hand Finishing	**TPGX 090202 L**	0.4-1.5	0.05-0.15		●																					●
	090204 L	0.6-1.5	0.08-0.20		●																					●
	110302 L	0.5-1.5	0.08-0.20		●																					
	110302 R	0.5-1.5	0.08-0.20		●																					
	110304 L	0.6-2.0	0.08-0.20		●																					●
	110304 R	0.6-2.0	0.08-0.20		●																					



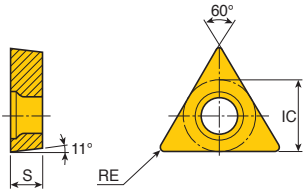
A49, A50, A80,
A167, A183, A184

●: Standard items

TPMR TPMT

T-TURN

Positive 11° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
09	5.56	2.38	0.2-0.8
11	6.35	2.38-3.18	0.2-0.8
16	9.52	3.18-3.97	0.2-1.2
22	12.7	4.76	0.4-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Type B  Medium	**TPMR 090204** ✓	0.5-2.0	0.10-0.25								●	●					●								
	090208 ✓	0.7-2.0	0.13-0.30		●			●			●	●					●								
	110304 ✓	0.7-3.0	0.10-0.25		●		●	●			●	●					●			●					
	110308	1.0-3.0	0.13-0.30	●	●			●			●	●					●								
	160304 ✓	1.0-5.0	0.10-0.25		●		●	●			●	●	●				●		●	●					
	160308	1.0-5.0	0.13-0.30		●		●	●			●	●					●		●	●					
	160312	1.0-5.0	0.15-0.35								●	●													
	220404 ✓	1.0-7.0	0.10-0.25									●					●								
	220408 ✓	1.5-7.0	0.13-0.30				●					●					●								
	220412 ✓	1.5-7.0	0.15-0.35									●													
 Finishing	**TPMT 090202 FA**	0.1-1.2	0.03-0.15	●	●						●	●					●		●	●					
	090204 FA	0.2-1.2	0.05-0.20	●	●						●	●							●	●					
	110302 FA	0.1-1.5	0.03-0.15	●	●						●	●					●		●	●					
	110304 FA	0.2-1.5	0.05-0.20	●	●						●	●					●		●	●					
	110308 FA	0.3-1.5	0.08-0.25	●	●						●	●					●		●	●					
	16T304 FA	0.2-2.0	0.05-0.20	●	●						●	●					●		●	●					
	16T308 FA	0.3-2.0	0.08-0.25	●	●						●	●					●		●	●					
 Finishing	**TPMT 110304 FG**	0.4-1.5	0.07-0.20	●	●		●				●	●					●			●					
 Medium	**TPMT 090202 FM**	0.5-1.5	0.07-0.20	●	●						●	●					●		●	●					
	090204 FM	0.5-1.5	0.08-0.20	●	●						●	●					●		●	●					
	110302 FM	0.5-1.5	0.07-0.20		●						●	●					●		●	●					
	110304 FM	0.5-1.5	0.08-0.20	●							●	●					●		●	●					
	110308 FM	0.8-1.5	0.10-0.20								●	●					●		●	●					
	160302 FM	0.5-2.0	0.07-0.20	●							●	●					●		●	●					
	160304 FM	0.5-2.0	0.08-0.20	●	●						●	●					●		●	●					
	160308 FM	0.8-2.5	0.10-0.25		●						●	●					●		●	●					
 Medium	**TPMT 090204 PC**	0.3-2.0	0.06-0.18		●							●		●	●		●		●						
	110204 PC	0.4-2.5	0.06-0.20											●	●				●						
	110208 PC	0.5-2.5	0.10-0.26		●									●	●		●		●						
	110304 PC	0.4-2.5	0.06-0.20											●	●		●		●						
	110308 PC	0.5-2.5	0.10-0.26		●							●			●		●		●						
	16T304 PC	0.45-3.0	0.08-0.25		●							●		●	●				●						
	16T308 PC	0.5-3.0	0.10-0.30									●		●	●				●						



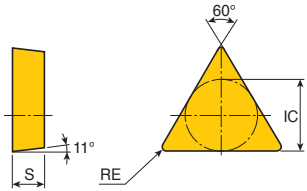
A49, A50, A80, A167, A183, A184

▸ ✓: Type B chip breaker

●: Standard items

TPUN

Positive 11° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.4-0.8
16	9.52	3.18	0.4-1.2
22	12.7	4.76	0.4-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Medium	**TPUN 110304**	1.0-3.0	0.10-0.30									●												●
	110308	1.0-3.0	0.15-0.40								●	●												●
	160304	1.0-5.0	0.10-0.30								●	●												●
	160308	1.0-5.0	0.15-0.40								●	●								●				●
	160312	1.5-5.0	0.20-0.50									●												
	220404	1.5-7.0	0.10-0.30								●													
	220408	1.5-7.0	0.15-0.40									●												●
	220412	1.5-7.0	0.20-0.50									●												

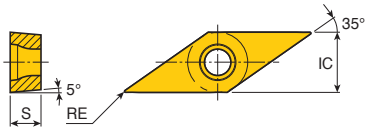


A49, A50, A167

●: Standard items

VBET VBGT

Positive 5° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.03-0.4
16	9.52	4.76	0.1-0.4

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	VBET	**110301 L-GF**	0.2-1.5	0.02-0.15		●						●				
		110301 R-GF	0.2-1.5	0.02-0.15		●						●				
		110302 L-GF	0.3-1.5	0.03-0.17								●				
Right-hand Finishing		**110302 R-GF**	0.3-1.5	0.03-0.17		●						●				
		110304 L-GF	0.3-1.5	0.05-0.20								●				
		110304 R-GF	0.3-1.5	0.05-0.20								●				
TOPMINI wiper	VBET	**1103003 L-GW ***	0.1-1.5	0.02-0.15								●				
		1103003 R-GW *	0.1-1.5	0.02-0.15								●				
Right-hand Finishing																
TOPMINI	VBGT	**1103003 L-FF**	0.05-0.4	0.03-0.10		●						●				
		1103003 R-FF	0.05-0.4	0.03-0.10		●						●				
		110301 L-FF	0.1-0.5	0.03-0.12		●						●				
Left-hand Finishing		**110301 R-FF**	0.1-0.5	0.03-0.12		●						●				
		110302 L-FF	0.1-0.5	0.03-0.15		●						●				
		110302 R-FF	0.1-0.5	0.03-0.15		●						●				
TOPMINI	VBGT	**110301 SA**	0.1-1.5	0.01-0.20			●					●				
		110302 SA	0.2-1.5	0.02-0.20			●					●				
		110304 SA	0.2-1.5	0.05-0.20	●		●					●				
Finishing		**160401 SA**	0.1-1.5	0.01-0.20			●					●				
		160402 SA	0.2-1.5	0.02-0.20			●					●				
		160404 SA	0.2-2.5	0.03-0.20								●				
TOPMINI	VBGT	**110302M SL-F**	0.02-0.25	0.02-0.10									●	●		
Finishing For Swiss																
TOPMINI	VBGT	**110301M SM-F**	0.2-1.5	0.02-0.12									●	●		
		110302M SM-F	0.2-1.5	0.02-0.12									●	●		
Medium For Swiss		**110304M SM-F**	0.2-1.5	0.03-0.12									●	●		

A82, A83, A86-A88, A94, A96, A97, A138, A153, A187, A189, A191, A192, A211

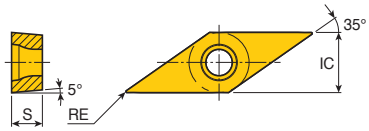
- *: Wiper inserts should be applied to ☐VJBR/L...
- M: Corner radius minus tolerance
- - F: Sharp edge

●: Standard items

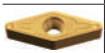
VBGT VBMT VBMX

T-TURN

Positive 5° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.4-0.8
16	9.52	4.76	0.2-1.2

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated					
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT2010	K10
 Finishing	**VBGT 160404 FGS**	0.2-2.5	0.03-0.20			●													●			●	●		●
	160408 FGS	0.3-2.5	0.05-0.20			●													●			●	●		●
	160412 FGS	0.3-2.5	0.07-0.20			●													●			●	●		●
 Finishing	**VBMT 110304 FA**	0.2-1.5	0.05-0.20	●	●						●	●					●		●	●					
	160404 FA	0.2-2.0	0.05-0.20	●	●						●	●					●		●	●					
	160408 FA	0.3-2.0	0.08-0.25	●	●						●	●					●		●						
 Finishing	**VBMT 160404 FG**	0.5-1.5	0.07-0.20	●	●	●	●				●	●		●	●		●		●	●		●	●		
	160408 FG	0.7-2.0	0.10-0.25	●	●	●	●	●			●	●		●	●		●		●			●	●		
 Medium	**VBMT 110304 FM**	0.5-1.5	0.08-0.20								●	●					●		●	●					
	110308 FM	0.5-1.5	0.10-0.20								●	●					●		●	●					
	160404 FM	0.5-2.0	0.08-0.20	●	●						●	●					●		●	●					
	160408 FM	0.8-2.0	0.10-0.20		●						●	●					●		●	●					
	160412 FM	1.0-2.5	0.10-0.25	●							●	●					●		●	●					
 Finishing	**VBMT 160404 FX**	0.2-2.0	0.05-0.20	●	●						●	●							●		●			●	
	160408 FX	0.2-2.0	0.07-0.20	●	●					●	●	●									●				
 Medium	**VBMT 160404 MT**	0.6-3.0	0.10-0.25	●	●		●	●		●	●	●			●		●		●	●					●
	160408 MT	0.9-3.0	0.13-0.30	●	●		●	●		●	●	●			●		●		●	●					
	160412 MT	1.2-3.0	0.15-0.30		●						●	●					●								
 Medium	**VBMT 160404 PC**	0.5-2.8	0.07-0.22		●						●	●			●						●				
	160408 PC	0.5-2.8	0.10-0.27								●	●			●						●				
	160412 PC	0.5-2.8	0.10-0.28		●		●				●	●					●		●						
 Finishing	**VBMX 160402 FG**	0.3-1.5	0.05-0.20								●								●						
	160404 FG	0.5-1.5	0.07-0.20		●						●								●						
	160408 FG	0.7-2.0	0.10-0.25		●						●								●				●		



A82, A83, A86-A88, A90, A91, A94, A96, A97, A138, A150, A153, A187, A189, A191, A192, A208, A211

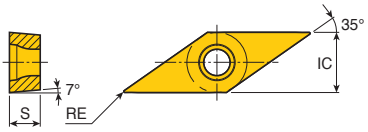
●: Standard items

ADVANCE CUTTING TaeguTec

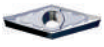
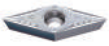
VCGT

T-TURN

Positive 7° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.08-0.4
16	9.52	4.76	0.2-1.2
22	12.7	5.56	3.0

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
 Medium For aluminum	**VCGT**	**110302 FL**	0.2-2.5	0.05-0.20												●
		110304 FL	0.5-3.0	0.05-0.25												●
		160402 FL	0.5-2.5	0.05-0.25												●
		160404 FL	0.5-3.0	0.05-0.25												●
		160408 FL	0.5-3.0	0.10-0.25												●
		160412 FL	0.5-3.0	0.10-0.25												●
		220530 FL	1.5-4.5	0.15-0.30												●
TOPMINI  Roughing For Swiss	**VCGT**	**1103008 SH-F**	0.5-2.5	0.05-0.15								●				
		110301 SH-F	0.5-2.5	0.05-0.15								●				
		110302 SH-F	0.5-2.5	0.05-0.15								●				
TOPMINI  Medium For Swiss	**VCGT**	**110301M SM-F**	0.2-1.5	0.02-0.12									●	●		
		110302M SM-F	0.2-1.5	0.02-0.12									●	●		
		110304M SM-F	0.2-1.5	0.03-0.12									●	●		
TOPMINI  Finishing For Swiss	**VCGT**	**110301 SA**	0.1-1.5	0.01-0.20			●					●				
		110302 SA	0.2-1.5	0.02-0.20			●					●				
		110304 SA	0.2-1.5	0.05-0.20			●					●				
TOPMINI  Finishing For Swiss	**VCGT**	**110302M SL-F**	0.02-0.25	0.02-0.10									●	●		



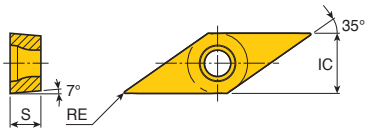
A84, A85, A94, A139, A189, A191, A192

- M: Corner radius minus tolerance
- F: Sharp edge

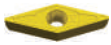
●: Standard items

VCMT

Positive 7° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
08	4.76	2.38	0.2-0.4
11	6.35	3.18	0.4
16	9.52	4.76	0.4-0.8

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 VCMT 08, 11  VCMT 16 Medium	**VCMT 080202 PC**	0.2-1.5	0.02-0.15		●							●			●										
	080204 PC	0.2-1.5	0.05-0.20	●	●						●	●			●										
	110304 PC	0.1-1.7	0.05-0.20		●						●	●			●						●				
	160404 PC	0.3-2.0	0.05-0.20		●						●	●		●	●						●				
	160408 PC	0.3-2.0	0.07-0.20		●						●	●			●						●				
 Medium	**VCMT 080202 FM**	0.5-1.5	0.07-0.15	●							●	●					●		●	●					
	080204 FM	0.5-1.5	0.08-0.15	●	●						●	●					●		●	●					
	110304 FM	0.5-1.5	0.08-0.20								●	●					●		●	●					
	160404 FM	0.5-2.0	0.08-0.20	●							●	●					●		●	●					
	160408 FM	0.8-2.0	0.10-0.20		●						●	●					●		●	●					



A84, A85, A88,
A139, A189, A191,
A192, A214

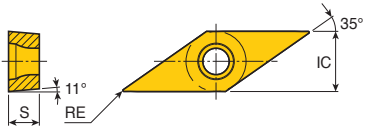
●: Standard items

ADVANCE CUTTING TaeguTec

VPET VPGT

T-TURN

Positive 11° clearance 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
08	4.76	2.38	0.1-0.2
11	6.35	3.18	0.03-0.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated							Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI	**VPET**	**080201 L-GF**	0.2-1.5	0.02-0.15		●						●				
		**080201 R-GF**	0.2-1.5	0.02-0.15		●						●				
		080202 L-GF	0.3-1.5	0.03-0.17		●						●				
Right-hand Finishing		**080202 R-GF**	0.3-1.5	0.03-0.17		●						●				
		1103003 L-GF	0.2-1.5	0.02-0.12		●						●				
		1103003 R-GF	0.2-1.5	0.02-0.12		●						●				
		110301 L-GF	0.2-1.5	0.02-0.15		●						●				
		110301 R-GF	0.2-1.5	0.02-0.15								●				
		110302 L-GF	0.3-1.5	0.03-0.17		●						●				
		110302 R-GF	0.3-1.5	0.03-0.17		●						●				
TOPMINI	**VPGT**	**080201 L-FF**	0.08-0.4	0.03-0.12		●						●				
		**080201 R-FF**	0.08-0.4	0.03-0.12		●						●				
		080202 L-FF	0.1-0.4	0.03-0.15								●				
Left-hand Finishing		**080202 R-FF**	0.1-0.4	0.03-0.15		●						●				
		1103003 L-FF	0.05-0.4	0.03-0.10		●						●				
		1103003 R-FF	0.05-0.4	0.03-0.10		●						●				
		110301 L-FF	0.1-0.5	0.03-0.12								●				
		110301 R-FF	0.1-0.5	0.03-0.12		●						●				
		110302 L-FF	0.1-0.5	0.03-0.15		●						●				
		110302 R-FF	0.1-0.5	0.03-0.15								●				

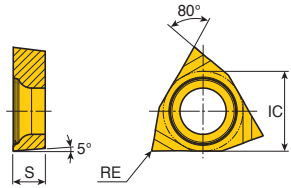


A188

●: Standard items

WBGT WBMT

Positive 5° clearance 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
06	3.97	1.59	0.03-0.4

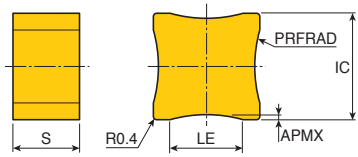
Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		PVD coated								Uncoated	
					PV3010	CT3000	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	TT4410	TT4430	P20	K10
TOPMINI  Left-hand Finishing	**WBGT**	**0601003 R-FF**	0.05-0.3	0.03-0.10		●						●				
		0601003 L-FF	0.05-0.3	0.03-0.10		●						●				
		060101 R-FF	0.08-0.4	0.03-0.12		●						●				
		060101 L-FF	0.08-0.4	0.03-0.12								●				
		060102 R-FF	0.1-0.4	0.03-0.15		●						●				
		060102 L-FF	0.1-0.4	0.03-0.15		●						●				
		060104 R-FF	0.1-0.4	0.05-0.20		●						●				
		060104 L-FF	0.1-0.4	0.05-0.20		●	●					●				
	WBMT	**060102 R-C**	0.1-0.4	0.03-0.15		●										
		060102 L-C	0.1-0.4	0.03-0.15		●										

 A193

●: Standard items

SNG

Negative square inserts for pipe skiving



Size	Dimension (mm)				
	LE	IC	S	PRFRAD	APMX
SNG 452	8.7	12.70	7.94	10-70	0.14-1.0

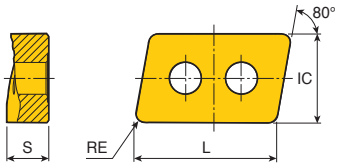
Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated						
					PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Pipe skiving	**SNG 452**	**10R**	-	-													●								
		16R	-	-													●								
		20R	-	-													●								
		25R	-	-													●								
		30R	-	-													●								
		40R	-	-													●								
		50R	-	-													●								
		60R	-	-													●								
		70R	-	-													●								

●: Standard items

LNMM

T-TURN

Inserts



Size	Dimension (mm)			
	L	IC	S	RE
40	40.6	25.4	11.65	2.38

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
					PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**LNMM**	**401224 R-HX**	6.0-32.0	0.70-1.50								●	●	●					●						
		401224 L-HX	6.0-32.0	0.70-1.50									●						●						



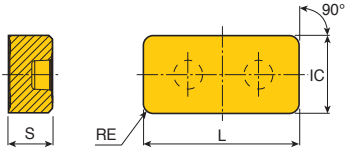
A126

●: Standard items

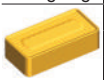
LNMX

T-TURN

Inserts



Size	Dimension (mm)			
	L	IC	S	RE
50	50.8	25.4	14.2	3.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated						
					PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Roughing	**LNMX**	**501432 HD**	6.0-40.0	0.70-1.60									●	●					●						
 Roughing	**LNMX**	**501432 HY**	5.0-40.0	0.65-1.50									●			●			●						

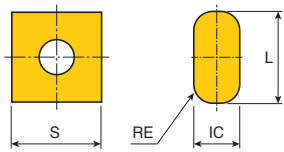


A126

●: Standard items

LNMX

TOP-RAIL inserts



Size	Dimension (mm)			
	L	IC	S	RE
19	19.05	10	19.05	4.0
30	30	12	19.05	4.0

Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated												PVD coated						
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080	TT3010	TT3020	TT9020	K10
 Finishing	**LNMX 191940 TWF**	0.3-5.0	0.30-1.0							●	●	●												
  Medium	**LNMX 191940 TWM**	1.5-9.0	0.45-1.5							●	●	●												
	301940 TWM	1.5-15.0	0.50-1.5							●	●	●												
 Roughing	**LNMX 301940 TWR**	2.0-15.0	0.70-1.8							●	●	●												



A127

●: Standard items

ADVANCE CUTTING TaeguTec

Hard Turning for Ceramic Inserts

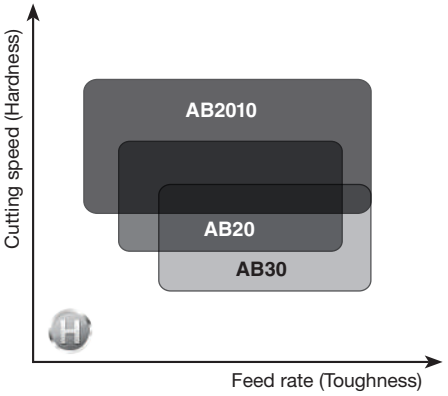
T-TURN

Selection guide for ceramic grades

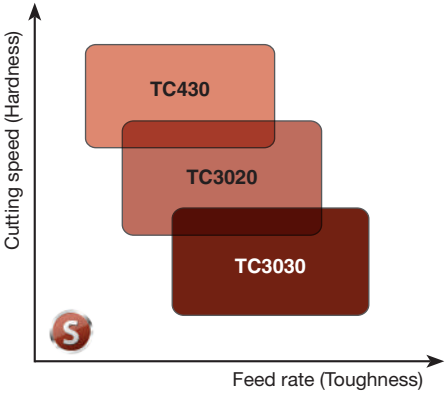
For cast iron



For hardened steel (HRc 40~60)



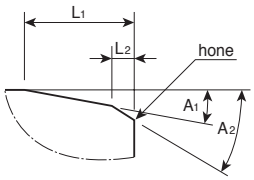
For super alloys



Information of Ceramic type

CE	Pressed type
CH	Dimple type
WZ	Wiper geometry

Edge preparations for ceramic inserts

Single land		Double land			
Symbol	Width(mm) X angle	Symbol	Width(mm) X angle		Shape
			L1 X A1	L2 X A2	
T2	0.10 X 30°	U1	0.7 X 15°	0.15 X 30°	
T3	0.15 X 30°	U2	1.5 X 15°	0.15~0.2 X 30°	
T4	0.20 X 30°	U3	2.0 X 15°	0.2 X 30°	
T5	0.30 X 20°	- All items are honed			
T6	0.10 X 20°				
T7	0.20 X 20°				

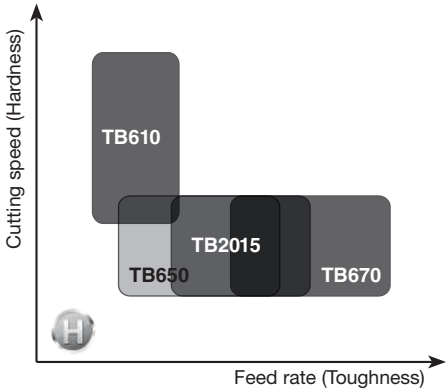
▸ Edge preparations of non symbol items is 0.2 X 25° with no hone except ☐NMG-CE 0.25 X 20° with hone

Hard Turning for CBN and PCD Inserts

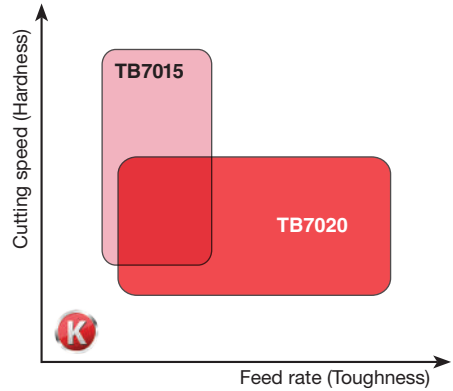
T-TURN

Selection guide for CBN and PCD grades

For hardened steel (HRc ≥ 50, CBN)

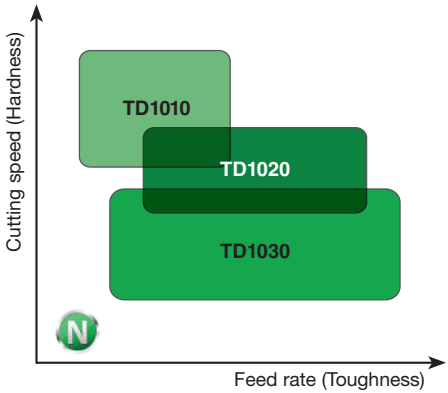


For cast iron (CBN)



▸ TB730 for General turning of sintered or powder metals

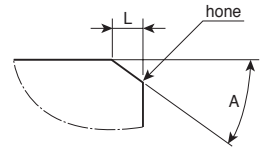
For non-ferrous material (PCD)



Information of CBN/PCD type

CBN	LS	Brazed small size CBN Tip, 1 corner
	LS2	Brazed small size CBN Tip, 2 corners
	LN	Brazed large size CBN Tip, 1 corner
	LN2	Brazed large size CBN Tip, 2 corners
	SD	Solid type
	FT	Full Top type
	DA	Dimple type
	WZ	Wiper geometry
PCD	LN-7	Rake angle 7°
	LN-10	Rake angle10°
	CB	Chip breaker - Roughing medium
	CF	Chip breaker - Finishing

Edge preparations for CBN inserts

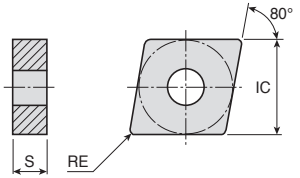
Single land				
Symbol	Width(mm) X angle L X A	Symbol	Width(mm) X angle L X A	Shape
TL	0.13X15°	SL	0.13X15°+ honed	
TM	0.13X25°	SM	0.13X25°+ honed	
TH	0.13X35°	SH	0.13X35°+ honed	

▸ Edge preparations of non symbol items depends on grades
TB610, TB2015, TB650, TB670: 0.13x20°+honed
TB730, TB7015 : 0.13x20°+no honed
TB7020 : 0.20x20°+honed

CNGA CNGN

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76	0.4-1.6
16	15.88	4.76-6.35	0.8-1.6
19	19.05	6.35-7.94	0.8-1.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**CNGA**	**120404**	0.1-3.0	0.05-0.15	●	●	●							
		120404 T2	0.1-3.0	0.05-0.15			●							
		120404 T7	0.1-3.0	0.05-0.15					●					
		120404 T7-WZ	0.1-3.0	0.05-0.15	●									
		120408	0.1-3.0	0.05-0.20	●	●	●		●	●	●			
		120408 E	0.1-3.0	0.05-0.20								●	●	●
		120408 S7	0.1-3.0	0.05-0.20	●									
		120408 T2	0.1-3.0	0.05-0.20		●	●							
		120408 T6	0.1-3.0	0.05-0.20		●						●	●	●
		120408 T6-WZ	0.1-3.0	0.05-0.20							●			
		120408 T7	0.1-3.0	0.05-0.20				●	●					
		120408 T7-WZ	0.1-3.0	0.05-0.20	●	●								
		120412	0.1-3.0	0.05-0.25	●	●	●			●	●			
		120412 T2	0.1-3.0	0.05-0.25		●								
		120412 T6-WZ	0.1-3.0	0.05-0.25						●				
		120412 T7	0.1-3.0	0.05-0.25					●					
		120412 T7-WZ	0.1-3.0	0.05-0.25	●	●								
		120416	0.1-3.0	0.05-0.30		●	●			●	●			
		160608	0.1-3.5	0.05-0.20		●								
		160612	0.1-3.5	0.05-0.25			●							
		160616	0.1-3.5	0.05-0.30			●							
		190608	0.1-4.5	0.05-0.20			●							
		190612	0.1-4.5	0.05-0.25			●							
	**CNGN**	**120404**	0.1-3.0	0.05-0.15			●							
		120404 T6	0.1-3.0	0.05-0.15								●		
		120408	0.1-3.0	0.05-0.20	●	●	●				●			
		120408 E	0.1-3.0	0.05-0.20								●	●	●
		120408 T6	0.1-3.0	0.05-0.20								●		
		120408 T7	0.1-3.0	0.05-0.20					●					
		120412 E	0.1-3.0	0.05-0.25								●	●	●
		120412 T6	0.1-3.0	0.05-0.25								●		
		120412 T7	0.1-3.0	0.05-0.25				●						
		120416	0.1-3.0	0.05-0.30							●			
		120416 T6	0.1-3.0	0.05-0.30								●		



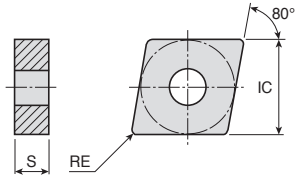
A58-A59 A112, A119, A146, A170, A194, A203, A205

●: Standard items

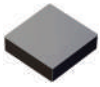
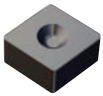
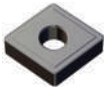
CNGN CNGX-CH CNMG-CE

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76-7.94	0.4-1.6

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic										
					AB2010	AB20	AB30	AW120	SC500	AS500	SC10	AS10	TC430	TC3020	TC3030
	**CNGN**	**120708**	0.1-3.0	0.05-0.20	●	●	●								
		120708 E	0.1-3.0	0.05-0.20									●	●	●
		120708 T6	0.1-3.0	0.05-0.20									●	●	●
		120712	0.1-3.0	0.05-0.25			●					●			
		120712 E	0.1-3.0	0.05-0.25									●	●	●
		120712 T6	0.1-3.0	0.05-0.25									●	●	●
		120712 T7	0.1-3.0	0.05-0.25				●							
		120716	0.1-3.0	0.05-0.30			●				●				
		120716 T6	0.1-3.0	0.05-0.30									●	●	●
		120716 T7	0.1-3.0	0.05-0.30				●							
 Dimple type	**CNGX**	**120712 CH**	0.1-3.5	0.05-0.30								●			
		120712 T7-CH	0.1-3.5	0.05-0.30					●	●		●			
		120716 CH	0.1-3.5	0.05-0.35							●	●			
		120716 T7-CH	0.1-3.5	0.05-0.35						●					
 Pressed type	**CNMG**	**120404 CE**	0.1-3.0	0.05-0.15			●								
		120408 CE	0.1-3.0	0.05-0.20		●	●								



A58-A59, A113, A114, A119, A146, A170, A194, A201, A203, A205

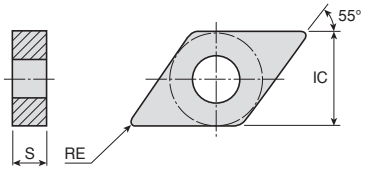
●: Standard items

ADVANCE CUTTING TaeguTec

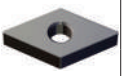
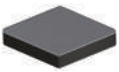
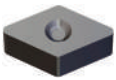
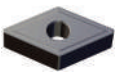
DNGA DNGN DNGX-CH DNMG-CE

T-TURN

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
12	10	8.0	1.2
15	12.7	4.76-8.0	0.4-1.6

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**DNGA**	**150404**	0.1-2.5	0.05-0.15		●	●							
		150408	0.1-2.5	0.05-0.20	●	●	●							
		150412	0.1-2.5	0.05-0.25	●	●	●							
		150604	0.1-2.5	0.05-0.15	●	●	●							
		150608	0.1-2.5	0.05-0.20	●	●	●				●			
		150612	0.1-2.5	0.05-0.25	●	●	●				●			
		150616	0.1-2.5	0.05-0.30		●	●							
	**DNGN**	**150408**	0.1-2.5	0.05-0.20		●								
		150704	0.1-2.5	0.05-0.15			●							
		150708	0.1-2.5	0.05-0.20			●							
		150708 T6	0.1-2.5	0.05-0.20									●	
		150708 T7	0.1-2.5	0.05-0.20				●						
		150712 T6	0.1-2.5	0.05-0.25									●	
		150712 T7	0.1-2.5	0.05-0.25				●						
 Dimple type	**DNGX**	**120712 T7-CH**	0.1-3.0	0.05-0.30							●			
		150708 T7-CH	0.1-3.0	0.05-0.25							●			
		150712 CH	0.1-3.0	0.05-0.30						●	●			
		150712 T7-CH	0.1-3.0	0.05-0.30					●					
		150716 CH	0.1-3.5	0.05-0.35							●			
		150716 T7-CH	0.1-3.5	0.05-0.35							●			
 Pressed type	**DNMG**	**150608 CE**	0.1-2.5	0.05-0.20			●							

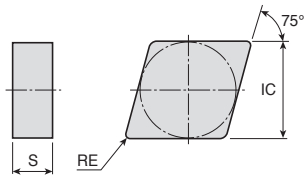


A52, A53, A60, A61, A115, A120, A146, A171, A195, A203, A206, A215

●: Standard items

ENGN

Negative 75° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
13	12.7	7.94	0.8-1.6

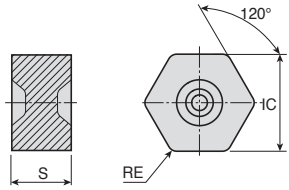
Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**ENGN**	**130708**	0.1-2.5	0.05-0.20	●	●	●							
		130712 T5	0.1-2.5	0.05-0.25			●							
		130716	0.1-2.5	0.05-0.30		●								
		130716 U2	0.1-2.5	0.05-0.30			●							


A121

●: Standard items

HNGX-CH

Negative 120° hexagonal inserts



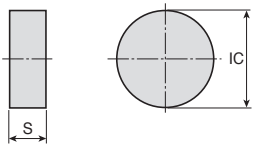
Size	Dimension (mm)		
	IC	S	RE
05	12.7	7.94	1.2-1.6

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
 Dimple type	**HNGX**	**050712 CH**	0.05-0.25	0.10-2.00							●			
		050712 T7-CH	0.05-0.25	0.10-2.00					●					
		050716 CH	0.05-0.3	0.10-2.00							●			

●: Standard items

RNGN

Negative round inserts



Size	Dimension (mm)	
	IC	S
09	9.52	3.18-4.76
12	12.7	4.76-7.94
15	15.88	7.94
19	19.05	7.94
25	25.4	9.52

Insert	Designation	ap (mm)	Feed (mm/rev)	Ceramic									
				AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**RNGN 090300**	0.1-2.5	0.05-0.15		●	●							
	090300 T6	0.1-2.5	0.05-0.15								●		
	090400 T6	0.1-2.5	0.05-0.15								●		
	120400	0.1-4.0	0.05-0.20	●	●	●							
	120400 E	0.1-4.0	0.05-0.20								●		●
	120400 T6	0.1-4.0	0.05-0.20								●		
	120700	0.1-4.0	0.05-0.20	●	●	●							
	120700 E	0.1-4.0	0.05-0.20									●	●
	120700 E04	0.1-4.0	0.05-0.20									●	
	120700 S6	0.1-4.0	0.05-0.20									●	●
	120700 T6	0.1-4.0	0.05-0.20								●	●	●
	150700	0.1-4.5	0.05-0.25		●	●							
	150700 T6	0.1-4.5	0.05-0.25								●		
	150700 U2	0.1-4.5	0.05-0.25			●							
	190700	0.1-5.0	0.05-0.30		●	●							
	190700 E04	0.1-5.0	0.05-0.30									●	●
	190700 T6	0.1-5.0	0.05-0.30								●	●	●
	190700 U2	0.1-5.0	0.05-0.30			●							
	250900 E04	0.1-5.0	0.05-0.35									●	●
	250900 T6	0.1-5.0	0.05-0.35									●	●



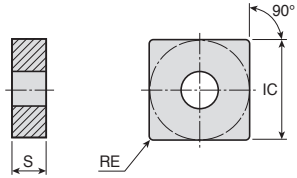
A122

●: Standard items

SNGA SNGN

T-TURN

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76-7.94	0.4-1.6
15	15.88	7.94	1.6
19	19.05	6.35-7.94	0.8-1.6

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**SNGA**	**120404**	0.1-3.0	0.05-0.15	●	●	●							
		120408	0.1-3.0	0.05-0.20	●	●	●							
		120408 S7	0.1-3.0	0.05-0.20	●									
		120412	0.1-3.0	0.05-0.25	●	●	●				●			
		120416	0.1-3.0	0.05-0.30						●	●			
		190608	0.1-4.5	0.05-0.20			●							
		190612	0.1-4.5	0.05-0.25			●							
	**SNGN**	**120404**	0.1-3.0	0.05-0.15	●	●	●							
		120404 T7	0.1-3.0	0.05-0.15				●						
		120408	0.1-3.0	0.05-0.20	●	●	●				●			
		120408 T6	0.1-3.0	0.05-0.20								●	●	●
		120412	0.1-3.0	0.05-0.25	●	●	●				●			
		120412 T6	0.1-3.0	0.05-0.25								●		●
		120412 T7	0.1-3.0	0.05-0.25				●						
		120416	0.1-3.0	0.05-0.30	●	●	●				●			
		120416 T6	0.1-3.0	0.05-0.30								●		
		120416 T7	0.1-3.0	0.05-0.30				●						
		120708	0.1-3.0	0.05-0.20	●	●	●							
		120708 T6	0.1-3.0	0.05-0.20								●		
		120708 T7	0.1-3.0	0.05-0.20				●						
		120712	0.1-3.0	0.05-0.25	●	●	●			●				
		120712 T6	0.1-3.0	0.05-0.25								●	●	●
		120712 T7	0.1-3.0	0.05-0.25				●						
		120716	0.1-3.0	0.05-0.30	●		●							
		120716 T7	0.1-3.0	0.05-0.30				●						
		150716	0.1-3.5	0.05-0.30			●							
		190716	0.1-4.0	0.05-0.30			●							



A64, A65, A102,
A103, A123, A124,
A172, A197

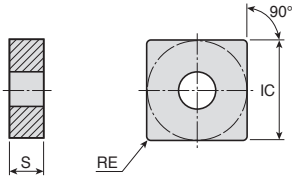
●: Standard items

ADVANCE CUTTING
TaeguTec

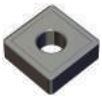
SNGX-CH SNMG-CE

T-TURN

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	4.76-7.94	0.8-1.6
15	15.8 8	7.94	1.6

Insert	Designation	ap (mm)	Feed (mm/rev)	Ceramic										
				AB2010	AB20	AB30	AW120	SC500	AS500	SC10	AS10	TC430	TC3020	TC3030
 Dimple type	**SNGX 120712 CH**	0.1-3.0	0.05-0.30							●	●			
	120716 CH	0.1-3.0	0.05-0.35							●	●			
	120716 T7-CH	0.1-3.0	0.05-0.35					●	●		●			
	150716 T7-CH	0.1-3.5	0.05-0.35								●			
 Pressed type	**SNMG 120408 CE**	0.1-3.0	0.05-0.20			●								

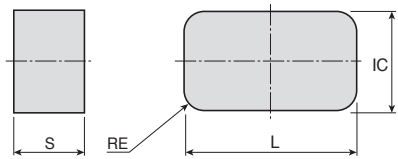


A64, A65, A102, A103, A116, A172, A197

●: Standard items

LNU T32-

Negative square inserts



Size	Dimension (mm)			
	L	IC	S	RE
LNU	38.1	19.05	12.77	3.2
T32	31.75	19.05	12.7	2.0

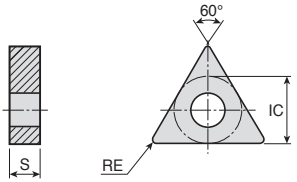
Insert	Designation	ap (mm)	Feed (mm/rev)	Ceramic										
				AB2010	AB20	AB30	AW120	SC500	AS500	SC10	AS10	TC430	TC3020	TC3030
	**LNU 6688 T**	1.0-20.0	0.20-1.00		●	●			●					
	**T32- 32**	1.0-15.0	0.20-0.25		●	●			●					

●: Standard items

TNGA TNGN TNMG-CE

T-TURN

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76	0.4-1.6
22	12.7	4.76	0.4-1.6

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**TNGA**	**160404**	0.1-2.5	0.05-0.15	●	●	●							
		160404 T2	0.1-2.5	0.05-0.15			●							
		160408	0.1-2.5	0.05-0.20	●	●	●							
		160408 T2	0.1-2.5	0.05-0.20			●							
		160412	0.1-2.5	0.05-0.25	●	●	●							
		160412 T2	0.1-2.5	0.05-0.25			●							
		160416	0.1-2.5	0.05-0.30		●								
		220404	0.1-3.0	0.05-0.15		●	●							
		220408	0.1-3.0	0.05-0.20	●	●	●							
		220412	0.1-3.0	0.05-0.25		●	●							
		220416	0.1-3.0	0.05-0.30		●	●							
	**TNGN**	**160404**	0.1-2.5	0.05-0.15		●	●							
		160408	0.1-2.5	0.05-0.20	●	●	●				●			
		160408 T7	0.1-2.5	0.05-0.20				●						
		160412	0.1-2.5	0.05-0.25		●	●							
		160412 T7	0.1-2.5	0.05-0.25				●	●					
		160416 T7	0.1-1.0	0.05-0.20				●						
 Pressed type	**TNMG**	**160408 CE**	0.1-2.5	0.05-0.20			●							

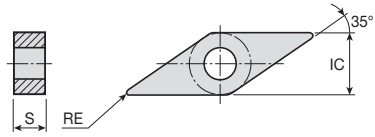


A54, A66, A67, A103, A107, A108, A148, A173, A200, A204

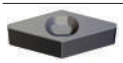
●: Standard items

VNGA VNGX-CH

Negative 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76-7.94	0.4-1.2
22	12.7	4.76	1.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**VNGA**	**160404**	0.05-1.0	0.05-0.10	●	●	●							
		160408	0.05-1.0	0.05-0.15	●	●	●							
		160412	0.05-1.5	0.05-0.20		●	●							
		220412	0.05-2.0	0.05-0.20			●							
 Dimple type	**VNGX**	**160712 T7-CH**	0.05-1.5	0.05-0.20							●			

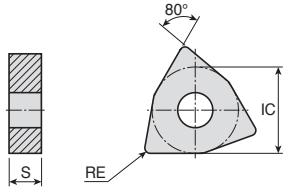


A55, A56, A105,
A149, A206

●: Standard items

WNGA

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
08	12.7	4.76	0.8-1.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**WNGA**	**080408**	0.1-2.5	0.05-0.25	●	●	●			●	●			
		080408 T7-WZ	0.1-2.5	0.05-0.25	●	●								
		080412	0.1-2.5	0.05-0.25	●	●	●			●	●			
		080412 T7	0.1-2.5	0.05-0.25					●					



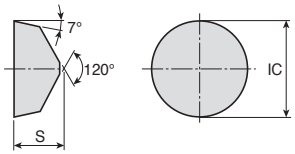
A57, A68, A106,
A149, A169,
A198, A207

●: Standard items

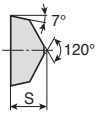
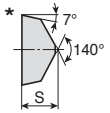
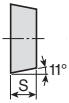
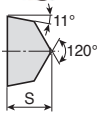
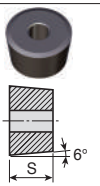
ADVANCE CUTTING
TaeguTec

RCGX RPGN RPGX T11-

Positive round inserts



Size	Dimension (mm)		Size	Dimension (mm)	
	IC	S		IC	S
06	6.35	3.18-6.35	**19**	19.05	10.0
09	9.52	7.94	**25**	25.4	12.0
12	12.7	4.76-7.94	**T11**	31.9	19.05
15	15.88	8			

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**RCGX**	**060600 T6**	0.1-2.0	0.05-0.25								●		
		060600 U1	0.1-2.0	0.05-0.25			●							
		090700 E	0.1-3.0	0.05-0.35								●	●	●
		090700 E04	0.1-3.0	0.05-0.30									●	●
		**090700 T6**	0.1-3.0	0.05-0.30								●	●	●
		090700 U1	0.1-3.0	0.05-0.30		●	●							
		120700	0.1-4.0	0.05-0.35			●							
		120700 E	0.1-4.0	0.05-0.35									●	●
		120700 E04	0.1-4.0	0.05-0.35									●	●
		**120700 T6**	0.1-4.0	0.05-0.35								●	●	●
		120700 U2	0.1-4.0	0.05-0.35		●	●							
		151000 U2	0.1-5.0	0.05-0.35		●	●							
		191000 U2	0.1-5.0	0.05-0.35		●	●							
		251200 U3 *	0.1-5.0	0.05-0.35			●							
	**RPGN**	**060300 E**	0.1-2.0	0.05-0.25										●
		120400 E	0.1-4.0	0.05-0.35									●	●
		**120400 T6**	0.1-4.0	0.05-0.35								●	●	●
	**RPGX**	**090700 E**	0.1-3.0	0.05-0.35									●	●
		090700 T6	0.1-3.0	0.05-0.35								●	●	●
		**120700 E**	0.1-4.0	0.05-0.35									●	●
		120700 T6	0.1-4.0	0.05-0.35								●	●	●
	**T11-**	**3219**	0.1-5.0	0.05-0.35		●								



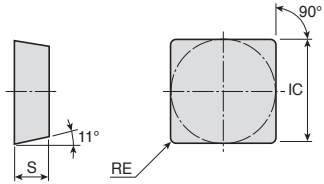
A109, A110, A111

▸ *: This is the only item with a 140° bottom

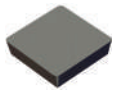
●: Standard items

SPGN

Positive square inserts



Size	Dimension (mm)		
	IC	S	RE
12	12.7	3.18-4.76	0.8-1.2

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**SPGN**	**120308**	0.1-3.5	0.05-0.20			●				●			
		120412	0.1-3.5	0.05-0.20							●			

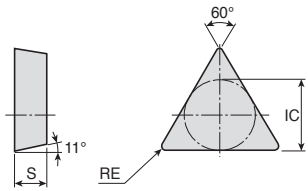


A48, A166

●: Standard items

TPGN

Positive triangular inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.4-0.8
16	9.52	3.18	0.4-0.8
22	12.7	4.76	0.8

Insert	Designation		ap (mm)	Feed (mm/rev)	Ceramic									
					AB2010	AB20	AB30	AW120	AS500	SC10	AS10	TC430	TC3020	TC3030
	**TPGN**	**110304**	0.1-2.0	0.05-0.10	●	●	●							
		110308	0.1-2.0	0.05-0.10	●	●	●							
		160304	0.1-2.5	0.05-0.15	●	●	●							
		160308	0.1-2.5	0.05-0.20	●	●	●							
		160308 T6	0.1-2.5	0.05-0.20								●		
		220408	0.1-3.0	0.05-0.20			●							



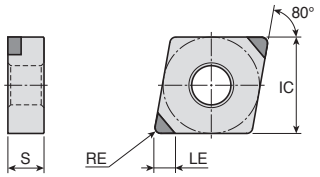
A49, A50, A167

●: Standard items

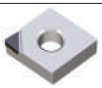
CNGA CNGN-SD CNGX-DA

T-TURN

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.18	0.8
12	12.7	4.76	0.4-1.6

Insert	Designation	LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
					TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**CNGA 120404 WZ-LS2**	2.1	0.1-0.5	0.05-0.30	●	●	●						
	120408 WZ-LS2	2.1	0.1-0.5	0.05-0.30	●	●	●	●					
	120408 WZ-LS4	2.1	0.1-0.5	0.05-0.30	●	●	●						
	120412 WZ-LS2	2.5	0.1-0.5	0.05-0.30		●	●	●					
	120412 WZ-LS4	2.5	0.1-0.5	0.05-0.30			●						
	**CNGA 120404 LN**	4.2	0.1-0.5	0.05-0.30	●		●		●				
	120404 LS2	2.2	0.1-0.5	0.05-0.30	●	●	●	●	●				
	120404 LS4	2.2	0.1-0.5	0.05-0.30		●	●						
	120408 LN	4.0	0.1-0.5	0.05-0.30	●	●		●	●				
	120408 LN4	4.0	0.1-0.5	0.05-0.30		●							
	120408 LS2	2.1	0.1-0.5	0.05-0.30	●	●	●	●	●				
	120408 LS4	2.1	0.1-0.5	0.05-0.30		●	●	●	●				
	120412 LN	3.9	0.1-0.5	0.05-0.30	●		●		●				
	120412 LS2	2.5	0.1-0.5	0.05-0.30		●		●	●				
	120412 LS4	2.5	0.1-0.5	0.05-0.30			●	●					
 10°	**CNGA 120404 LN-10**	4.0	0.1-3.0	0.05-0.25								●	
	120408 LN-10	3.9	0.1-3.0	0.05-0.25								●	
	120412 LN-10	3.8	0.1-3.0	0.05-0.25								●	
 Solid CBN	**CNGN 090308 SD**	-	0.1-3.0	0.05-0.30						●			
	120412 SD	-	0.1-4.0	0.05-0.30						●			
	120416 SD	-	0.1-4.0	0.05-0.30						●			
 Dimple type	**CNGX 120408 DA**	-	0.1-4.0	0.05-0.30						●			
	120412 DA	-	0.1-4.0	0.05-0.30						●			
	120416 DA	-	0.1-4.0	0.05-0.30						●			

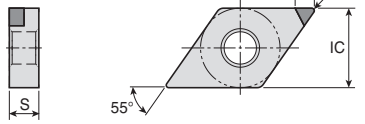


A58-A59, A112, A119, A146, A170, A194, A203, A205

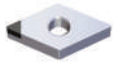
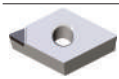
●: Standard items

DNGA

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
15	12.7	4.76-6.35	0.4-1.2

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN							PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020		TD1010	TD1020	TD1030
	**DNGA**	**150404 LN**	4.2	0.1-0.5	0.05-0.30	●	●	●							
		150404 LS2	2.6	0.1-0.5	0.05-0.30	●	●	●							
		150404 LS4	2.6	0.1-0.5	0.05-0.30	●	●								
		150408 LN	3.9	0.1-0.5	0.05-0.30	●	●	●		●					
		150408 LS2	2.3	0.1-0.5	0.05-0.30	●	●	●	●						
		150408 LS4	2.3	0.1-0.5	0.05-0.30			●							
		150412 LN	3.5	0.1-0.5	0.05-0.30		●			●					
		150412 LS2	2.2	0.1-0.5	0.05-0.30			●	●						
		150412 LS4	2.2	0.1-0.5	0.05-0.30			●							
		150604 LN	4.2	0.1-0.5	0.05-0.30		●	●	●	●					
		150604 LS2	2.6	0.1-0.5	0.05-0.30	●	●	●	●						
		150608 LN	3.9	0.1-0.5	0.05-0.30	●	●	●	●						
		150608 LS2	2.3	0.1-0.5	0.05-0.30	●	●	●	●	●					
		150608 LS4	2.3	0.1-0.5	0.05-0.30			●							
		150612 LS2	2.2	0.1-0.5	0.05-0.30			●							
 	**DNGA**	**150404 LN-10**	4.0	0.1-2.5	0.05-0.20									●	
		150408 LN-10	3.7	0.1-2.5	0.05-0.20									●	
		150604 LN-10	4.0	0.1-2.5	0.05-0.20									●	
		150608 LN-10	3.7	0.1-2.5	0.05-0.20									●	



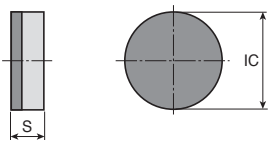
A52, A53, A60, A61, A146, A171, A195, A203, A206

●: Standard items

RNGN-FT/SD

T-TURN

Negative round inserts



Size	Dimension (mm)	
	IC	S
09	9.52	3.18
12	12.7	4.76

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN							PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020		TD1010	TD1020	TD1030
 Full Top CBN	**RNGN**	**090300 FT**	-	0.1-1.0	0.05-0.30		●	●		●					
		120300 FT	-	0.1-1.5	0.05-0.30					●					
		120400 FT	-	0.1-1.5	0.05-0.30					●					
 Solid CBN	**RNGN**	**090300 SD**	-	0.1-2.0	0.05-0.30						●				
		120400 SD	-	0.1-3.0	0.05-0.30						●				



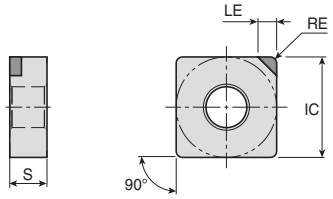
A122

●: Standard items

SNGA SNGN-SD SNGX-DA

T-TURN

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.18	1.2
12	12.7	4.76	0.4-1.6

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN							PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020		TD1010	TD1020	TD1030
	**SNGA**	**120404 LS2**	2.5	0.1-0.5	0.05-0.30			●	●						
		120408 LN	4.2	0.1-0.5	0.05-0.30		●			●					
		120408 LS2	2.5	0.1-0.5	0.05-0.30			●		●					
		120408 LS4	2.5	0.1-0.5	0.05-0.30			●							
		120408 LS8	2.5	0.1-0.5	0.05-0.30			●							
 Solid CBN	**SNGN**	**090312 SD**	-	0.1-3.0	0.05-0.30						●				
		120416 SD	-	0.1-4.0	0.05-0.30						●				
 Dimple type	**SNGX**	**120416 DA**	-	0.1-4.0	0.05-0.30						●				



A64, A65, A102, A103,
A118, A123, A124,
A147, A172, A197

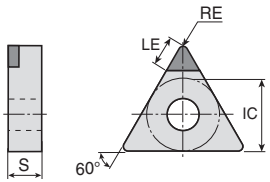
●: Standard items

ADVANCE CUTTING TaeguTec

TNGA

T-TURN

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76	0.4-1.2
22	12.7	4.76	0.4-0.8

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**TNGA**	**160404 LN**	4.3	0.1-0.5	0.05-0.30		●	●		●				
		160404 LS3	2.2	0.1-0.5	0.05-0.30	●		●	●					
		160404 LS6	2.2	0.1-0.5	0.05-0.30		●							
		160408 LN	4.0	0.1-0.5	0.05-0.30		●	●		●				
		160408 LS3	2.1	0.1-0.5	0.05-0.30	●	●	●	●	●				
		160408 LS6	2.1	0.1-0.5	0.05-0.30			●						
		160412 LS3	2.5	0.1-0.5	0.05-0.30			●						
		220404 LN	4.1	0.1-0.5	0.05-0.30		●							
		220408 LS	2.6	0.1-0.5	0.05-0.30		●							
 	**TNGA**	**160404 LN-10**	4.3	0.1-3.0	0.05-0.20								●	



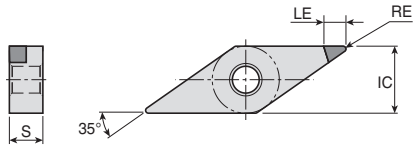
A54, A66, A67, A104, A107, A108, A148, A173, A200, A204

●: Standard items

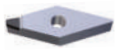
TaeguTec

VNGA

Negative 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
16	9.52	4.76	0.4-0.8

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**VNGA**	**160404 LN**	5.0	0.1-0.5	0.05-0.30		●							
		160404 LS	3.2	0.1-0.5	0.05-0.30		●							
		160404 LS2	3.2	0.1-0.5	0.05-0.30		●	●	●					
		160408 LN	4.1	0.1-0.5	0.05-0.30		●							
		160408 LS2	2.4	0.1-0.5	0.05-0.30	●	●	●	●					
		160408 LS4	2.4	0.1-0.5	0.05-0.30					●				
 	**VNGA**	**160404 LN-10**	5.0	0.1-2.0	0.05-0.20								●	



A55, A56, A105, A149, A206

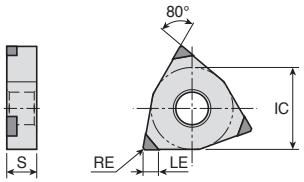
●: Standard items

ADVANCE CUTTING TaeguTec

WNGA

T-TURN

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
06	9.52	4.76	0.8
08	12.7	4.76	0.8-1.2

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**WNGA**	**060408 WZ-LS6**	2.1	0.05-0.5	0.05-0.30			●						
		080408 WZ-LS3	2.1	0.05-0.5	0.05-0.30	●	●	●						
		080408 WZ-LS6	2.1	0.05-0.5	0.05-0.30			●						
		080412 WZ-LS3	2.1	0.05-0.5	0.05-0.30			●						
	**WNGA**	**080408 LS3**	2.1	0.1-0.5	0.05-0.20			●						
		080408 LS6	2.1	0.1-0.5	0.05-0.20			●						



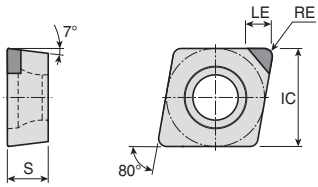
A57, A68, 106,
A149, A169,
A198, A207

●: Standard items

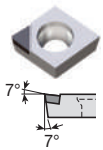
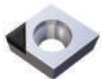
CCGW CCGT-CB CCGT-CF

T-TURN

Positive 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.2-0.8
09	9.52	3.97	0.2-0.8
12	12.7	4.76	0.4-0.8

Insert	Designation	LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
					TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**CCGW 060202 LS**	2.4	0.05-0.5	0.05-0.30		●			●				
	060202 LS2	2.2	0.05-0.5	0.05-0.30			●	●					
	060204 LS	2.4	0.05-0.5	0.05-0.30		●			●				
	060204 LS2	2.1	0.05-0.5	0.05-0.30	●		●	●					
	060208 LS2	2.1	0.05-0.5	0.05-0.30	●		●	●					
	09T304 LS	2.4	0.05-0.5	0.05-0.30		●			●				
	09T304 LS2	2.4	0.05-0.5	0.05-0.30	●	●	●	●	●				
	09T304 WZ-LS	2.8	0.05-0.5	0.05-0.30		●							
	09T304 WZ-LS2	2.4	0.05-0.5	0.05-0.30			●	●					
	09T308 LS	2.3	0.05-0.5	0.05-0.30		●			●				
	09T308 LS2	2.3	0.05-0.5	0.05-0.30	●		●	●					
	09T308 WZ-LS	2.3	0.05-0.5	0.05-0.30		●							
	09T308 WZ-LS2	2.3	0.05-0.5	0.05-0.30		●		●					
	120404 LS2	2.1	0.05-0.5	0.05-0.30				●					
	120408 LS	2.5	0.05-0.5	0.05-0.30					●				
	120408 LS2	2.1	0.05-0.5	0.05-0.30				●					
	**CCGW 060202 LN-7**	3.1	0.08-3.0	0.05-0.30							●	●	●
	060204 LN-7	3.1	0.08-3.0	0.05-0.30							●	●	●
	09T304 LN-7	4.0	0.1-3.0	0.05-0.30							●	●	●
	09T308 LN-7	3.9	0.1-3.0	0.05-0.30							●	●	
	120404 LN-7	4.0	0.1-3.0	0.05-0.30							●	●	●
	120408 LN-7	3.9	0.1-3.0	0.05-0.30							●	●	
  PCD chip breaker	**CCGT 060204 CB**	3.1	0.5-1.5	0.10-0.50								●	
	09T302 CB	4.15	0.5-2.0	0.10-0.50								●	
	09T304 CB	4.1	0.5-2.0	0.10-0.50								●	
	09T308 CB	4.0	0.5-2.0	0.10-0.50								●	
	120404 CB	4.1	0.5-2.0	0.10-0.50								●	
	120408 CB	4.0	0.5-2.0	0.10-0.50								●	
  PCD chip breaker	**CCGT 09T302 CF**	4.15	0.1-1.0	0.05-0.20								●	
	09T304 CF	4.1	0.1-1.0	0.05-0.20								●	
	120404 CF	4.1	0.1-1.0	0.05-0.20								●	
	120408 CF	4.0	0.1-1.0	0.05-0.20								●	



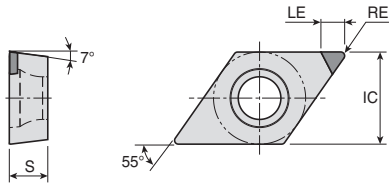
A69-A71, A92, A151, A174, A175, A209

●: Standard items

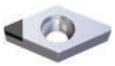
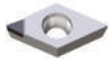
ADVANCE CUTTING TaeguTec

DCGW DCGT-CB DCGT-CF

Positive 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.2-0.8
11	9.52	3.97	0.2-0.8

Insert	Designation	LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
					TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**DCGW 070202 LS**	2.6	0.05-0.5	0.05-0.30		●							
	070202 LS2	2.6	0.05-0.5	0.05-0.30	●		●	●					
	070204 LS	2.4	0.05-0.5	0.05-0.30		●			●				
	070204 LS2	2.4	0.05-0.5	0.05-0.30	●		●	●					
	070208 LS2	2.6	0.05-0.5	0.05-0.30				●					
	11T304 LS	2.6	0.05-0.5	0.05-0.30		●			●				
	11T304 LS2	3.4	0.05-0.5	0.05-0.30	●		●	●					
	11T308 LS	2.2	0.05-0.5	0.05-0.30		●			●				
	11T308 LS2	2.2	0.05-0.5	0.05-0.30	●		●	●					
 	**DCGW 070202 LN-7**	3.4	0.1-2.0	0.05-0.30							●	●	
	070204 LN-7	3.3	0.1-2.0	0.05-0.30							●	●	
	11T302 LN-7	3.9	0.1-2.0	0.05-0.30							●	●	●
	11T304 LN-7	3.7	0.1-2.0	0.05-0.30							●	●	●
	11T308 LN-7	3.3	0.1-2.0	0.05-0.30							●	●	●
  PCD chip breaker	**DCGT 070202 CB**	3.4	0.5-1.5	0.10-0.50								●	
	070204 CB	3.3	0.5-1.5	0.10-0.50								●	
	11T302 CB	4.9	0.5-2.5	0.10-0.50								●	
	11T304 CB	4.7	0.5-2.5	0.10-0.50								●	
	11T308 CB	4.6	0.5-2.5	0.10-0.50								●	
  PCD chip breaker	**DCGT 070202 CF**	3.4	0.1-1.0	0.05-0.20								●	
	070204 CF	3.3	0.1-1.0	0.05-0.20								●	
	11T302 CF	4.9	0.1-1.5	0.05-0.20								●	
	11T304 CF	4.7	0.1-1.5	0.05-0.20								●	
	11T308 CF	4.6	0.1-1.5	0.05-0.20								●	

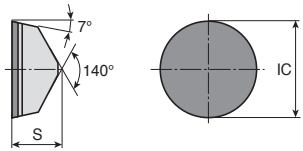


A72-A75, A93, A95, A97, A137, A141, A151, A178-A180, A209, A214

●: Standard items

RCGX-FT

Positive round inserts



Size	Dimension (mm)	
	IC	S
06	6.35	3.18
09	9.52	3.18
12	12.7	4.76

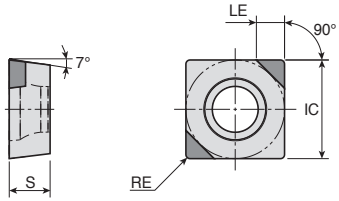
Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
 Full Top CBN	**RCGX**	**060300 FT**	-	0.1-1.0	0.05-0.30					●				
		090300 FT	-	0.1-1.5	0.05-0.30					●				
		120400 FT	-	0.1-1.5	0.05-0.30					●				

A109-A111

●: Standard items

SCGW

Positive square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.18-3.97	0.4-0.8

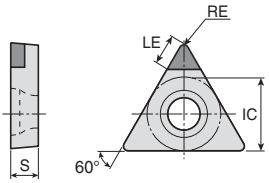
Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**SCGW**	**09T304 LS2**	2.7	0.05-0.5	0.05-0.30				●					
		09T308 LS2	2.7	0.05-0.5	0.05-0.30				●					

A78, A181

●: Standard items

TCGW TPGN TPGW

Positive triangular inserts



Size	Dimension (mm)		
	IC	S	RE
08	4.76	2.38	0.4
09	5.56	2.38	0.4-0.8
11	6.35	2.38-3.18	0.2-0.8
16	9.52	3.18-4.76	0.4-0.8

Insert	Designation		LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
						TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**TCGW**	**090204 LS3**	2.3	0.05-0.5	0.05-0.30			●	●					
		110204 LS	2.3	0.05-0.5	0.05-0.30		●			●				
		110204 LS3	2.3	0.05-0.5	0.05-0.30	●		●	●					
		110208 LS	2.1	0.05-0.5	0.05-0.30		●			●				
		110208 LS3	2.1	0.05-0.5	0.05-0.30			●	●					
		16T304 LS	2.8	0.05-0.5	0.05-0.30		●			●				
		16T304 LS3	2.8	0.05-0.5	0.05-0.30			●	●					
		16T308 LS	2.5	0.05-0.5	0.05-0.30		●			●				
		16T308 LS3	2.5	0.05-0.5	0.05-0.30	●		●	●					
	**TPGN**	**090204 LS3**	2.3	0.05-0.5	0.05-0.30	●								
		110302 LS3	2.8	0.05-0.5	0.05-0.30				●					
		110304 LS	2.6	0.05-0.5	0.05-0.30		●			●				
		110304 LS3	2.6	0.05-0.5	0.05-0.30				●					
		110308 LS3	2.3	0.05-0.5	0.05-0.30	●		●						
		160304 LS	2.8	0.05-0.5	0.05-0.30		●							
		160304 LS3	2.8	0.05-0.5	0.05-0.30	●		●						
		160308 LS	2.5	0.05-0.5	0.05-0.30		●							
		160308 LS3	2.5	0.05-0.5	0.05-0.30	●		●	●					
	**TPGW**	**080204 LS3**	2.1	0.05-0.5	0.05-0.30			●						
		090204 LS3	2.3	0.05-0.5	0.05-0.30			●	●					
		090208 LS3	2.0	0.05-0.5	0.05-0.30			●						
		110302 LS3	2.8	0.05-0.5	0.05-0.30	●								
		110304 LS	2.6	0.05-0.5	0.05-0.30		●	●						
		110304 LS3	2.6	0.05-0.5	0.05-0.30	●			●					
		110308 LS3	2.3	0.05-0.5	0.05-0.30	●		●						
		160404 LS3	2.8	0.05-0.5	0.05-0.30			●						



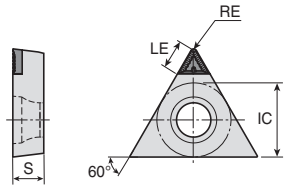
A49, A50,
A79-A81, A152, A155,
A167, A182, A210

●: Standard items

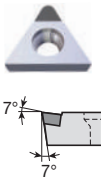
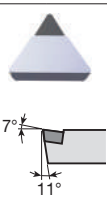
TCGW TPGN TCGT-CB

T-TURN

Positive triangular inserts



Size	Dimension (mm)		
	IC	S	RE
09	5.56	2.38	0.4-0.8
11	6.35	2.38-3.18	0.2-0.8
16	9.52	3.18-3.97	0.2-0.8

Insert	Designation	LE (mm)	ap (mm)	Feed (mm/rev)	CBN							PCD		
					TB610	TB650	TB670	TB730	TB7015	TB7020		TD1010	TD1020	TD1030
	**TCGW 090204 LN-7**	3.3	0.1-2.0	0.05-0.30									●	
	090208 LN-7	3.0	0.1-2.0	0.05-0.30									●	
	110204 LN-7	3.8	0.1-2.0	0.05-0.30								●	●	●
	16T304 LN-7	3.8	0.1-2.0	0.05-0.30									●	
	16T308 LN-7	3.5	0.1-2.0	0.05-0.30									●	
	**TPGN 110302 LN-7**	3.9	0.1-2.0	0.05-0.30									●	
	110304 LN-7	3.8	0.1-2.0	0.05-0.30									●	
	160302 LN-7	4.4	0.1-2.0	0.05-0.30									●	
	160304 LN-7	4.3	0.1-2.0	0.05-0.30									●	
 PCD chip breaker	**TCGT 090204 CB**	2.8	0.5-1.5	0.10-0.50									●	
	110204 CB	3.8	0.5-2.0	0.10-0.50									●	
	16T304 CB	3.9	0.5-2.0	0.10-0.50									●	
	16T308 CB	3.6	0.5-2.0	0.10-0.50									●	

A79-A81,
A152, A155, A167,
A182, A210

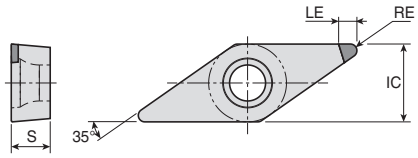
●: Standard items

ADVANCE CUTTING TaeguTec

VBGW VCGW VCGT-CB VCGT-CF

T-TURN

Positive 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
11	6.35	3.18	0.2-0.4
16	9.52	4.76	0.2-1.2
22	12.7	5.56	3.0

Insert	Designation	LE (mm)	ap (mm)	Feed (mm/rev)	CBN						PCD		
					TB610	TB650	TB670	TB730	TB7015	TB7020	TD1010	TD1020	TD1030
	**VBGW 110304 LS2**	3.2	0.05-0.5	0.05-0.30			●						
	160402 LS2	3.6	0.05-0.5	0.05-0.30			●						
	160404 LS	3.2	0.05-0.5	0.05-0.30		●			●				
	160404 LS2	3.2	0.05-0.5	0.05-0.30	●		●	●					
	160408 LS	2.3	0.05-0.5	0.05-0.30		●			●				
	160408 LS2	2.3	0.05-0.5	0.05-0.30	●		●	●					
	**VBGW 160402 LN-7**	5.2	0.1-2.0	0.05-0.30								●	
	160404 LN-7	5.0	0.1-2.0	0.05-0.30								●	
	**160408 LN-7**	4.2	0.1-2.0	0.05-0.30								●	
	**VCGW 160404 LN-7**	5.0	0.1-2.0	0.05-0.30							●	●	●
	160408 LN-7	4.1	0.1-2.0	0.05-0.30							●	●	●
													
	**VCGT 110302 CB**	4.7	0.5-2.0	0.10-0.50								●	
	110304 CB	5.0	0.5-2.0	0.10-0.50								●	
	**160404 CB**	7.3	0.5-3.5	0.10-0.50								●	
	160408 CB	6.4	0.5-3.5	0.10-0.50								●	
PCD chip breaker	**160412 CB**	6.2	0.5-3.5	0.10-0.50								●	
													
	**VCGT 160404 CF**	7.3	0.1-2.0	0.05-0.20								●	
	160408 CF	6.4	0.1-2.0	0.05-0.20								●	
													
PCD chip breaker													



A82, A83, A86-A88, A94, A96, A97, A138, A153, A187, A189, A191, A192, A211

●: Standard items

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics		70 Shore D	29
			Hard rubber		55 Shore D	30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys		Pure	Rm 400	190	36
			Alpha+beta alloys, hardened	Rm 1050	310	37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

▸ For more information of material groups, see the materials & grades "material conversion table"

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

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

Cutting speed Vc(m/min)										
Coated										
TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100
			310-580	280-530	230-480	190-400				200-450
			270-530	240-480	200-420	170-360				170-390
			230-490	200-440	160-380	130-320				130-350
			250-500	220-450	190-400	160-340				160-370
			210-470	180-420	150-350	120-300				120-320
			230-550	200-500	170-400	130-280				140-370
			180-330	150-280	140-250	80-170				110-220
			160-300	130-250	120-230	70-150				90-200
			150-280	120-230	110-200	60-140				80-170
			210-420	190-380	140-280	100-220				110-250
			100-200	90-180	70-130	45-100				40-100
							160-250	120-200	110-170	
							150-230	110-180	100-150	
							130-220	100-170	90-150	
300-550	290-450	280-400								
300-430	250-360	200-320								
160-400	150-350	140-300								
140-350	130-300	120-280								
200-460	250-390	230-350								
180-350	200-320	180-300								
							40-80	30-70	30-60	
							30-70	20-60	20-50	
							35-70	25-60	25-50	
							30-70	20-60	20-50	
							30-70	20-60	20-50	

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics		70 Shore D	29
			Hard rubber		55 Shore D	30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys		Pure	Rm 400	190	36
			Alpha+beta alloys, hardened	Rm 1050	310	37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

▸ For more information of material groups, see the materials & grades "material conversion table"

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

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

Cutting speed Vc(m/min)										
Coated										
TT7100	TT3005	TT5080	TT4410	TT3010	TT3020	TT9080	TT4430	TT9020	TT8080	TT8020
170-380			170-380				160-370	150-350	110-310	100-300
150-340			170-340				160-340	150-320	110-280	100-270
110-300			150-270				140-270	130-250	90-210	80-200
140-320			170-270				160-270	140-260	100-220	90-210
100-280			150-250				140-250	130-230	90-190	80-180
110-260			150-270				140-270	130-250	90-210	80-200
60-150			60-130				60-130	50-130	40-120	40-120
50-120			50-100				50-100	40-100	40-90	40-90
40-120			30-100				30-100	30-100	30-90	30-90
80-200			60-180				60-180	60-180	60-160	60-160
40-90			40-80				40-80	40-80	40-80	40-80
		160-390	150-380			120-290	120-270	120-270	110-260	100-250
		160-280	150-270			120-270	120-250	120-250	110-240	100-230
		100-250	90-240			90-240	90-220	90-220	80-200	80-200
	60-200	50-180	40-170	50-170	40-165	40-160	40-160		30-80	20-70
	50-180	40-160	40-150	40-150	30-145	30-130	30-130		20-60	10-50
	55-120	45-100	45-90	45-90	35-85	35-80	35-80		20-50	10-40
	45-110	35-90	30-80	35-80	30-75	30-70	30-70		20-40	10-30
	40-100	30-80	30-80	30-70	30-65	30-60	30-60		20-30	10-20
	120-220	110-200	110-190	110-190	100-185	90-180	90-180		80-160	70-150
	60-120	50-100	50-90	50-90	40-85	40-80	40-80		30-50	20-40

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics		70 Shore D	29
			Hard rubber		55 Shore D	30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys		Pure	Rm 400	190	36
			Alpha+beta alloys, hardened	Rm 1050	310	37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

▸ For more information of material groups, see the materials & grades "material conversion table"

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

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

Cutting speed Vc(m/min)								
Uncoated	Cermet		Ceramic					
K10	PV3010	CT3000	AW120	AB2010	AB20	AB30	TC430	TC3020
	350-650	300-570						
	270-520	250-500						
	240-480	220-460						
	260-500	240-470						
	240-460	220-440						
	240-540	220-520						
	190-330	170-300						
	170-300	150-270						
	140-270	130-250						
	260-405	250-395						
	140-205	130-195						
	200-300	180-270						
	200-270	170-250						
	170-260	150-240						
110-180	230-330	220-320				600-1200		
95-140	215-290	205-280				500-900		
95-135	145-220	135-200	600-1200			450-610		
90-125	105-150	95-140	500-900			350-510		
110-140	170-265	160-255	600-800			600-800		
90-125	180-240	170-230	500-700			500-700		
200-1000								
200-1000								
50-400								
50-500								
40-350								
50-500								
50-500								
30-300								
50-300								
50-150								
55-85								200-350
40-65								200-350
32-55							270-400	200-350
21-40							230-330	200-350
16-26							210-300	200-350
50-75								
45-70								
				95-145	90-140	50-100		
						60-120		
						50-100		

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
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			Pearlitic		230	20
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			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics		70 Shore D	29
			Hard rubber		55 Shore D	30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys		Pure	Rm 400	190	36
			Alpha+beta alloys, hardened	Rm 1050	310	37
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			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

▸ For more information of material groups, see the materials & grades "material conversion table"

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

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

Cutting speed Vc(m/min)						
Ceramic				PCD		
TC3030	AS500	SC10	AS10	TD1010	TD1020	TD1030
	600-1000	500-900	500-900			
	550-900	450-800	450-800			
	400-650	345-580	345-580			
	300-550	250-480	250-480			
	550-800	500-740	500-740			
	450-750	400-640	400-640			
				300-2500	300-2300	300-2000
				300-2500	300-2300	300-2000
				200-1500	200-1400	200-1300
				200-1500	200-1400	200-1300
				80-1000	80-900	80-800
				60-600	60-550	60-500
				60-600	60-550	60-500
				30-400	30-380	30-360
				100-1000	100-900	100-800
				100-600	100-550	100-500
150-250						
150-250						
150-250						
150-250						
150-250						

Recommended Cutting Conditions

T-TURN

Machining data for turning grades

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
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			Austenitic	600	180	14
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			Pearlitic		260	18
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			Cured		100	22
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			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics		70 Shore D	29
			Hard rubber		55 Shore D	30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys		Pure	Rm 400	190	36
			Alpha+beta alloys, hardened	Rm 1050	310	37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

▸ For more information of material groups, see the materials & grades "material conversion table"

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

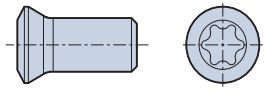
Recommended Cutting Conditions

Machining data for turning grades

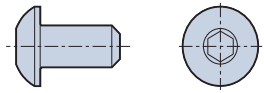
Cutting speed Vc(m/min)							
CBN							
TB610	TB2015	TB650	TB670	TB730	TB7015	TB7020	
				300-1200	300-1200	300-800	
				200-1000	200-1000	500-1000	
90-280	80-230	80-230	70-180	80-130			
80-250	70-200	70-200	60-150	60-120			
			100-200	120-180	120-180	120-180	
				100-140	100-140	100-140	

▶ Recommeneded clamping torque for each screw

Designation	Thread	Length	Torx / Hexa	Tightening Torque
TS 16031I	M1.6	3.12	Torx 6	0.6 Nm
TS 20038I	M2	3.8	Torx 6	0.6 Nm
TS 20038I/HG-P	M2	3.8	Torx plus 6	0.6 Nm
TS 20043I/HG-P	M2	4.3	Torx plus 6	0.6 Nm
TS 22046I	M2.2	4.6	Torx 7	0.9 Nm
TS 30080I/HG	M3	8	Torx 9	2 Nm
TS 30120I/HG	M3	12	Torx 9	2 Nm
TS 35070I/HG	M3.5	7	Torx 15	3 Nm
TS 35083I/HG	M3.5	8.3	Torx 10	2 Nm
TS 35110I	M3.5	11	Torx 15	3 Nm
TS 40097I	M4	9.7	Torx 15	3.5 Nm
TS 40G110I	M4	11	Torx 15	3.5 Nm
TS 40140AJ/HG	M4	14	Torx 15	3.5 Nm
TS 50A105I	M5	10.5	Torx 20	5.5 Nm
SO 22050I	M2.2	6	Torx 7	0.9 Nm
SO 25050I	M2.5	5.2	Torx 7	0.9 Nm
SO 25055I-MO	M2.5	6	Torx 8	1.2 Nm
SO 25065I	M2.5	6.5	Torx 7	0.9 Nm
SO 30055I	M3	5.5	Torx 9	2 Nm
SO 30100I	M3	7	Torx 9	2 Nm
SO 30040I	M3	8.3	Torx 9	2 Nm
SO 35080I	M3.5	8.5	Torx 15	3 Nm
SO 35124I	M3.5	11.7	Torx 15	3 Nm
SO 35120I	M3.5	12	Torx 10	2 Nm
SO 40073I	M4	7.3	Torx 15	3.5 Nm
SO 40085I	M4	8.5	Torx 15	3.5 Nm
SO 40090I	M4	8.6	Torx 15	3.5 Nm
SO 40050I	M4	11.3	Torx 15	3.5 Nm
SO 45100I	M4.5	10	Torx 20	5 Nm
SO 45130I	M4.5	14.3	Torx 20	5 Nm
SO 50090I-MO	M5	8	Torx 20	5 Nm
SO 50090I	M5	12.1	Torx 20	5.5 Nm

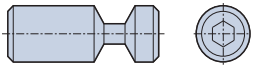


Designation	Thread	Length	Torx / Hexa	Tightening Torque
BH M2.5X0.45X10	M2.5	11.5	Hexa 1.5mm	0.8 Nm
BH M4X0.7X16-TB	M4	19	Hexa 3mm	2.8 Nm
BH M5X0.8X10	M5	13.55	Hexa 3mm	5.5 Nm
BH M5X0.8X21-MO-TB	M5	24.55	Hexa 3mm	5.5 Nm
BH M6X1X25	M6	29.2	Hexa 4mm	9.5 Nm

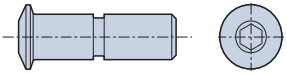


Recommeneded clamping torque for each screw

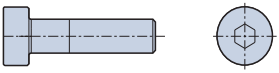
Designation	Thread	Length	Torx / Hexa	Tightening Torque
LCS 2	M5x0.8	14	Hexa 2mm	2.5 Nm
LCS 2B	M5x0.8	10	Hexa 2mm	2.5 Nm
LCS 3	M6x1.0	16.5	Hexa 2.5mm	3 Nm
LCS 3B	M5x0.8	12	Hexa 2mm	2.5 Nm
LCS 4	M8x1.0	21	Hexa 3mm	4 Nm
LCS 4B	M6x1.0	13.5	Hexa 2.5mm	3 Nm
LCS 4S	M8x1.0	18	Hexa 3mm	4 Nm
LCS 5	M8x1.0	23	Hexa 3mm	4 Nm
LCS 6	M10x1.0	27	Hexa 4mm	6 Nm
LCS 8	M12	36	Hexa 5mm	10 Nm
LCS 8-L39	M12	39	Hexa 5mm	10 Nm
LCS 8-L43	M12	43	Hexa 5mm	10 Nm
LCS 16C	M6	21	Hexa 2.5mm	3 Nm
LCS 25C	M10	30	Hexa 4mm	6 Nm



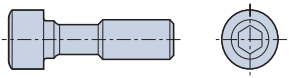
Designation	Thread	Length	Torx / Hexa	Tightening Torque
CLS 1.25	M3	4.7	Hexa 1.5mm	2 Nm
CLS 2C	M4	7.6	Hexa 2.5mm	2.5 Nm
CLS 2	M5	6.3	Hexa 2.5mm	3 Nm
CLS 3C	M5	9.5	Hexa 3mm	3.5 Nm
CLS 3S	M6	4.5	Hexa 3mm	4 Nm
CLS 3	M6	9.8	Hexa 3mm	4 Nm
CLS 4	M8	22	Hexa 4mm	8 Nm
CLS 16K	1/4-20 UNC	12	Hexa 4mm	6 Nm



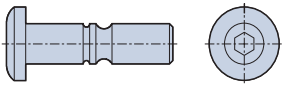
Designation	Thread	Length	Torx / Hexa	Tightening Torque
CSC 4	1/4-20 UNC	17	Hexa 4mm	6 Nm



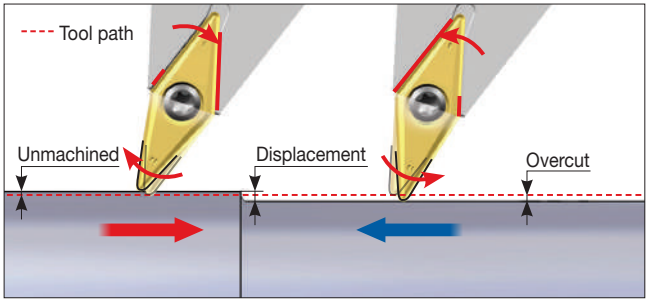
Designation	Thread	Length	Torx / Hexa	Tightening Torque
DLS 3	M4	16.8	Hexa 2.5mm	2 Nm
DLS 4	M5	21	Hexa 3mm	4.2 Nm
DLS 5	M6	26.5	Hexa 4mm	6 Nm

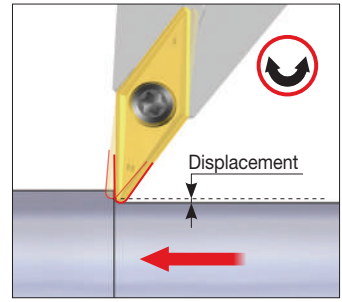


Designation	Thread	Length	Torx / Hexa	Tightening Torque
WCS 2.5	M5	20	Hexa 2.5mm	3 Nm
WCS 4	M6	26	Hexa 3mm	4 Nm
WCS 4B	M6	22.5	Hexa 3mm	4 Nm



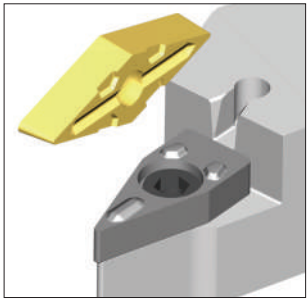
Displacement along the machining direction of conventional ISO inserts

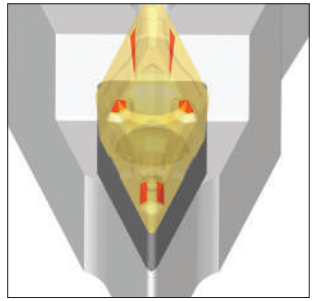


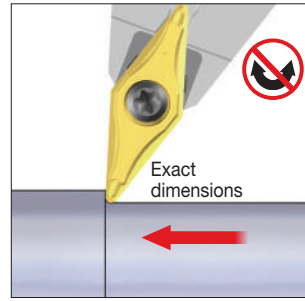


Unique and powerful clamping design

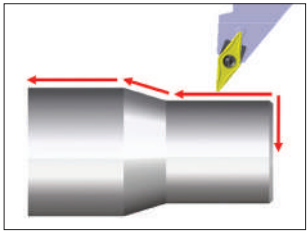
Insert's bottom face groove seats to a special shim and the back end fits into a specially designed pocket



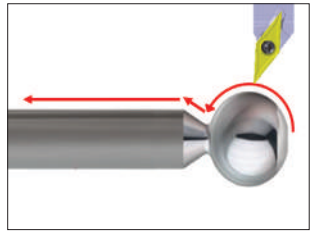




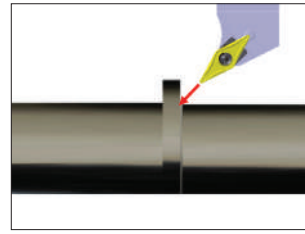
Application



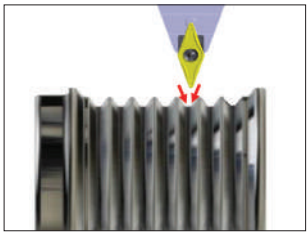
External and facing turning



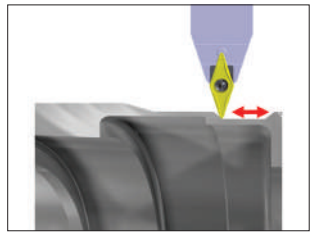
Profile turning



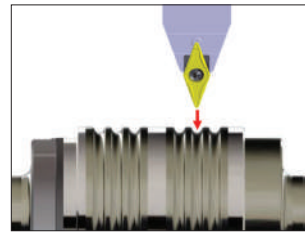
Undercut turning



Pulley turning



Multi-directional turning



Groove turning