

English

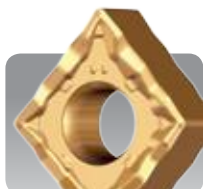


RHINO LINE



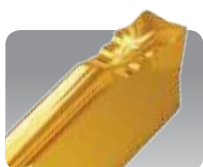
TaeguTec
Member IMC Group

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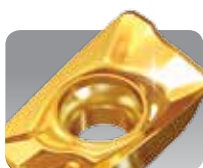
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RHINOTURN

ECO TURNING LINE



TaeguTec
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Recommendations for Chip Breakers

RHINO-TURN Negative inserts

For steel

	 Stable   Unstable
Finishing	     WA FS FG FM FT
Medium	   PC MM MT
Roughing	

For stainless steel

	 Stable   Unstable
Finishing	 EA
Medium	    GG-ML MK EM MM
Roughing	

For super alloys

	 Stable   Unstable
Finishing	 EA
Medium	   GG-ML MK EM
Roughing	

For cast iron

	 Stable   Unstable
Finishing	
Medium	 MG-
Roughing	 MA-

For aluminum

	 Stable   Unstable
Finishing	
Medium	 GG-ML
Roughing	

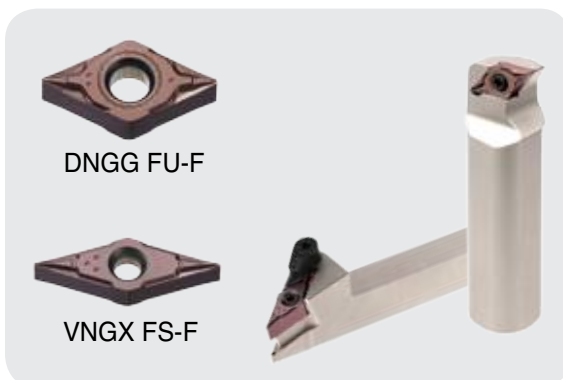
Smaller and stronger inserts

- Suitable for mass production
- Very stable machining
- Replaceable for ISO negative inserts in medium to finish application



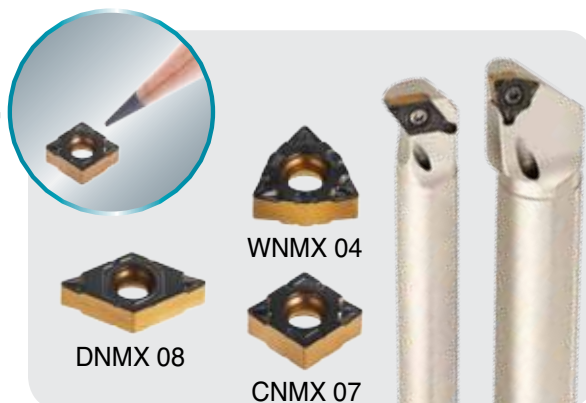
Double-sided ground inserts suitable for swiss type automatic lathes

- External holders and sleeve holders with high pressure coolant
- Ground and sharp cutting edge inserts with TT4410 and TT4430 new grades



Economical double-sided mini size inserts

- Optimum in low depth of cut less than 2mm
- Replaceable for ISO positive inserts
- Suitable for small boring diameter



70° corner angle multi purpose inserts

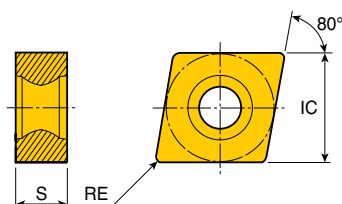
- Integrated shape of C and D-type
- External/Internal turning, facing and profiling
- Low cutting force & reliable performance in tool-life, chip control for automotive parts



CNGG CNMA CNMG

Insert

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	4.76	0.1-1.2

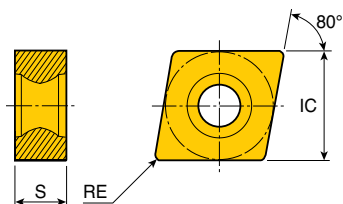
Insert	Designation	ap (mm)	Feed (mm/rev)	CVD coated														PVD coated				K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080		TT3010	TT3020	TT9020
  Medium	CNGG 090401 ML	0.1-1.0	0.03-0.10																•						•
	090402 ML	0.2-1.2	0.05-0.15																•						•
	090404 ML	0.5-1.5	0.05-0.20																•						•
	090408 ML	0.5-1.5	0.08-0.25																•						•
  Roughing	CNMA 090408	1.0-3.0	0.15-0.60			•	•																		
	090412	1.0-3.0	0.15-0.70			•	•																		
  Medium	CNMG 090404	0.5-3.0	0.10-0.45			•	•																		
	090408	0.5-3.0	0.10-0.50			•	•																		
	090412	0.5-3.0	0.10-0.55			•	•																		
  Finishing	CNMG 090404 EA	0.20-1.5	0.05-0.30											•	•	•			•	•					
	090408 EA	0.30-1.5	0.07-0.40											•	•	•			•	•					
  Medium	CNMG 090408 EM	0.5-3.0	0.13-0.40											•	•	•			•	•					
	090412 EM	0.7-3.0	0.15-0.40											•	•	•			•	•					
  Finishing	CNMG 090404 FG	0.2-2.0	0.07-0.30									•	•				•								
	090408 FG	0.5-2.0	0.10-0.35									•	•				•								
	090412 FG	0.5-2.0	0.15-0.40									•	•				•								
  Finishing	CNMG 090404 FM	0.25-2.0	0.07-0.30	•	•						•	•	•	•			•								
	090408 FM	0.3-2.0	0.10-0.35		•						•	•	•	•			•								
	090412 FM	0.35-2.0	0.15-0.40	•	•						•	•	•	•			•								
  Finishing	CNMG 090402 FS	0.2-1.5	0.05-0.25	•	•						•	•													
	090404 FS	0.25-1.5	0.07-0.30	•	•						•	•													
	090408 FS	0.5-1.5	0.10-0.30	•	•						•	•													

• : Standard items

CNMG CNMX

Insert

Negative 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	7.0	3.18	0.4
09	9.52	4.76	0.4-1.2

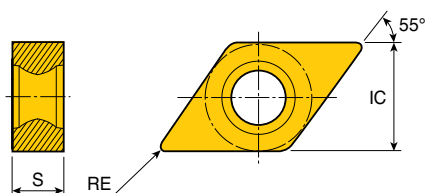
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated						K10							
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080		TT3010	TT3020	TT9020				
 Finishing	CNMG 090404 FT	0.4-3.0	0.07-0.30									●	●	●	●			●											
	090408 FT	0.5-3.0	0.10-0.40									●	●	●	●			●											
	090412 FT	0.6-3.0	0.15-0.50									●	●	●	●			●											
 Medium	CNMG 090404 MK	0.7-3.0	0.17-0.40														●	●		●		●							
	090408 MK	1.0-3.0	0.20-0.50														●	●		●	●	●	●	●					
	090412 MK	1.2-3.0	0.23-0.50														●	●		●		●							
 Medium	CNMG 090404 MM	0.4-3.0	0.15-0.45										●	●	●	●	●	●	●			●							
	090408 MM	0.5-3.0	0.20-0.50										●	●	●	●	●	●	●			●							
	090412 MM	0.7-3.0	0.23-0.50										●	●	●	●	●	●	●			●							
 Medium	CNMG 090404 MT	0.8-3.0	0.10-0.35									●	●	●	●			●											
	090408 MT	1.0-3.0	0.15-0.45		●							●	●	●	●			●		●		●							
	090412 MT	1.2-3.0	0.20-0.55									●	●	●	●			●											
 Medium	CNMG 090404 PC	0.4-3.0	0.10-0.30									●	●	●	●			●				●							
	090408 PC	0.5-3.0	0.15-0.40									●	●	●	●			●				●							
	090412 PC	0.6-3.0	0.18-0.50									●	●	●	●			●				●							
 Finishing	CNMG 090404 WA	0.25-2.5	0.08-0.25	●	●		●	●		●	●	●					●												
	090408 WA	0.25-3.0	0.10-0.40	●	●		●	●		●	●	●					●												
	090412 WA	0.4-3.0	0.20-0.50	●	●		●	●		●	●	●					●												
 Finishing	CNMX 070304 FGP	0.3-2.0	0.05-0.25	●								●	●						●				●						

● : Standard items

DNGG DNGX DNMG

Insert

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
08	7.0	3.18	0.2
13	11.11	5.56	0.1-1.2

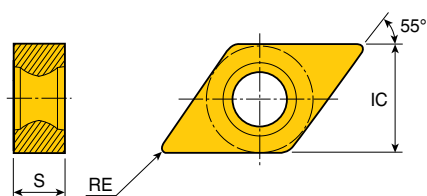
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet	CVD coated										PVD coated					K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080		TT3010	TT3020	TT9020
 Finishing For Swiss	DNGG 130501M FU-F	0.2-2.5	0.03-0.12																		•	•	
	130502M FU-F	0.2-2.5	0.04-0.12																		•	•	
	130504M FU-F	0.4-2.5	0.05-0.12																		•	•	
 Medium	DNGG 130501 ML	0.1-1.0	0.03-0.10														•						•
	130502 ML	0.2-1.2	0.05-0.15														•						•
	130504 ML	0.5-1.5	0.05-0.20														•						•
	130508 ML	0.5-1.5	0.08-0.25														•						•
 Finishing For Swiss	DNGX 080302M SM-F	0.2-1.2	0.02-0.12																•				
 Medium	DNMG 130504	0.5-3.5	0.10-0.45			•	•											•	•				
	130508	0.5-3.5	0.10-0.50			•	•											•	•				
	130512	0.5-3.5	0.10-0.55			•	•																
 Finishing	DNMG 130504 EA	0.20-1.5	0.05-0.30									•	•	•					•				
	130508 EA	0.30-1.5	0.07-0.40									•	•	•									
 Medium	DNMG 130508 EM	0.5-3.0	0.13-0.40									•	•	•			•		•				
	130512 EM	0.7-3.0	0.15-0.40									•	•	•			•		•				
 Finishing	DNMG 130504 FG	0.2-2.0	0.07-0.30								•	•				•							
	130508 FG	0.5-2.0	0.10-0.35								•	•				•							
	130512 FG	0.5-2.0	0.15-0.40								•	•				•							
 Finishing	DNMG 130504 FM	0.25-2.0	0.07-0.30	•						•	•	•	•			•							
	130508 FM	0.3-2.0	0.10-0.35	•						•	•	•	•			•							
	130512 FM	0.35-2.0	0.15-0.40	•						•	•	•	•			•							

● : Standard items

DNMG DNMX DNUX

Insert

Negative 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
08	7.0	3.18	0.4
13	11.11	5.56	0.2-1.2

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	DNMG 130502 FS	0.2-2.0	0.05-0.25	●	●							●	●												
	130504 FS	0.25-2.0	0.07-0.30	●	●							●	●												
	130508 FS	0.5-2.0	0.10-0.30	●	●							●	●												
  Finishing	DNMG 130504 FT	0.25-3.0	0.07-0.30								●	●	●	●			●								
	130508 FT	0.3-3.0	0.10-0.40								●	●	●	●			●								
	130512 FT	0.35-3.0	0.15-0.50								●	●	●	●			●								
  Medium	DNMG 130504 MK	0.7-4.0	0.17-0.40													●	●		●		●				
	130508 MK	1.0-4.0	0.20-0.45													●	●		●		●	●	●		
	130512 MK	1.2-4.0	0.23-0.50													●	●		●		●				
  Medium	DNMG 130504 MM	0.4-4.0	0.15-0.45									●	●	●	●	●	●	●	●	●	●		●		
	130508 MM	0.5-4.0	0.20-0.50									●	●	●	●	●	●	●	●	●	●				
	130512 MM	0.7-4.0	0.23-0.50									●	●	●	●	●	●	●	●	●	●				
  Medium	DNMG 130504 MT	0.8-4.0	0.10-0.35								●	●	●	●				●							
	130508 MT	1.0-4.0	0.15-0.45								●	●	●	●				●							
	130512 MT	1.2-4.0	0.20-0.55								●	●	●	●				●							
  Medium	DNMG 130504 PC	0.4-3.5	0.10-0.30								●	●	●	●				●							
	130508 PC	0.5-3.5	0.15-0.40								●	●	●	●				●							
	130512 PC	0.6-3.5	0.18-0.50								●	●	●	●				●							
  Finishing	DNMG 130504 WA *	0.25-2.5	0.08-0.25	●	●		●	●		●	●	●					●								
	130508 WA *	0.25-3.0	0.10-0.35	●	●		●	●		●	●	●					●								
	130512 WA *	0.4-3.5	0.15-0.45	●	●		●	●		●	●	●					●								
  Finishing	DNMX 080304 FGP	0.3-2.0	0.05-0.25	●								●	●					●					●		
  Right hand Medium	DNUX 130504 R11	1.5-4.5	0.15-0.35									●	●		●	●				●					
	130504 L11	1.5-4.5	0.15-0.35									●	●		●	●				●					
	130508 R11	2.0-4.5	0.21-0.45								●	●	●		●	●				●					
	130508 L11	2.0-4.5	0.21-0.45								●	●			●	●				●					

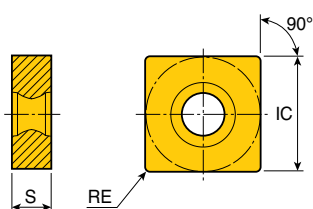
* Marked: Wiper inserts should be applied to
□DJNR/L..., □DUNR/L..., □DZNR/L...

•: Standard items

SNMG

Insert

Negative square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	4.76	0.4-1.2

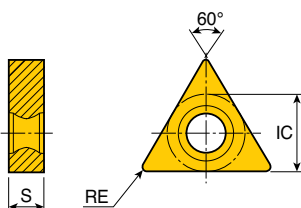
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated										PVD coated					K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020		TT9080	TT3010	TT3020
  Medium	SNMG 090404	0.5-3.0	0.10-0.45				●	●		●	●													
	090408	0.5-3.0	0.10-0.50				●	●		●	●													
	090412	0.5-3.0	0.10-0.55				●	●		●														
  Finishing	SNMG 090404 EA	0.2-1.5	0.05-0.30										●	●	●		●		●					
	090408 EA	0.3-1.5	0.07-0.40										●	●	●		●		●					
  Medium	SNMG 090408 EM	0.5-3.0	0.13-0.40										●	●	●		●		●					
	090412 EM	0.7-3.0	0.15-0.40										●	●	●		●		●					
  Finishing	SNMG 090404 FG	0.2-2.0	0.07-0.30	●						●	●					●								
	090408 FG	0.5-2.0	0.10-0.35	●						●	●					●								
	090412 FG	0.5-2.0	0.15-0.40							●	●					●								
  Finishing	SNMG 090404 FM	0.25-2.0	0.07-0.30	●						●	●	●	●			●								
	090408 FM	0.3-2.0	0.10-0.35	●	●					●	●	●	●			●								
	090412 FM	0.35-2.0	0.15-0.40	●						●	●	●	●			●								
  Medium	SNMG 090404 MK	0.7-3.0	0.17-0.40											●	●		●		●					
	090408 MK	1.0-3.0	0.20-0.50											●	●		●		●					
	090412 MK	1.2-3.0	0.23-0.50											●	●		●		●					
  Medium	SNMG 090404 MM	0.4-3.0	0.15-0.45							●	●	●	●	●	●	●								
	090408 MM	0.5-3.0	0.20-0.50							●	●	●	●	●	●	●				●				
	090412 MM	0.7-3.0	0.23-0.50							●	●	●	●	●	●	●								
  Medium	SNMG 090404 MT	0.8-3.0	0.10-0.35							●	●	●	●			●								
	090408 MT	1.0-3.0	0.15-0.45							●	●	●	●			●		●						
	090412 MT	1.2-3.0	0.20-0.55							●	●	●	●			●								
  Medium	SNMG 090404 PC	0.4-3.0	0.10-0.30							●	●	●	●			●								
	090408 PC	0.5-3.0	0.15-0.40							●	●	●	●			●								
	090412 PC	0.6-3.0	0.18-0.50							●	●	●	●			●								

• : Standard items

TNGG TNMG

Insert

Negative triangular inserts



Size	Dimension (mm)		
	IC	S	RE
13	7.94	4.76	0.2-1.2

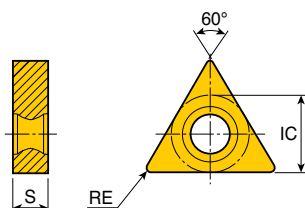
Insert	Designation	ap (mm)	Feed (mm/rev)	CVD coated												PVD coated						K10		
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080		TT3010	TT3020
  Left hand Medium	TNGG 130402 L	0.8-3.5	0.10-0.30	●																				
	130402 R	0.8-3.5	0.10-0.30	●																				
	130404 L	1.0-3.5	0.12-0.30	●																				
	130408 R	1.3-3.5	0.15-0.35	●																				
	130408 L	1.3-3.5	0.15-0.35	●																				
	130408 R	1.3-3.5	0.15-0.35	●																				
  Medium	TNMG 130404	0.5-3.5	0.10-0.45			●	●																	
	130408	0.5-3.5	0.10-0.50			●	●																	
	130412	0.5-3.5	0.10-0.55			●	●																	
  Finishing	TNMG 130404 EA	0.2-1.5	0.05-0.30										●	●	●		●		●					
	130408 EA	0.3-1.5	0.07-0.40										●	●	●		●		●					
  Medium	TNMG 130408 EM	0.5-3.0	0.13-0.40										●	●	●		●		●					
	130412 EM	0.7-3.0	0.15-0.40										●	●	●		●		●					
  Finishing	TNMG 130404 FG	0.25-1.5	0.07-0.30								●	●					●							
	130408 FG	0.3-1.5	0.10-0.35								●	●					●							
	130412 FG	0.35-1.5	0.15-0.40								●	●					●							
  Finishing	TNMG 130404 FM	0.25-1.5	0.07-0.30	●	●					●	●	●	●				●							
	130408 FM	0.3-1.5	0.10-0.35	●	●					●	●	●	●				●							
	130412 FM	0.35-1.5	0.15-0.40	●	●					●	●	●	●				●							
  Finishing	TNMG 130402 FS	0.2-1.0	0.05-0.25	●	●					●	●													
	130404 FS	0.25-1.0	0.07-0.30	●	●					●	●													
	130408 FS	0.5-1.0	0.10-0.30	●	●					●	●													

● : Standard items

TNMG

Insert

Negative triangular inserts



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

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 130404 FT	0.25-2.5	0.07-0.30									•	•	•			•								
	130408 FT	0.3-2.5	0.10-0.40									•	•	•	•		•								
	130412 FT	0.35-2.5	0.15-0.50									•	•	•	•		•								
 Medium	TNMG 130404 MK	0.7-3.0	0.17-0.40													•	•		•	•					
	130408 MK	1.0-3.0	0.20-0.45													•	•		•	•					
	130412 MK	1.2-3.0	0.23-0.50													•	•		•	•					
 Medium	TNMG 130404 MM	0.4-3.0	0.15-0.45									•	•	•	•	•	•	•			•				
	130408 MM	0.5-3.0	0.20-0.50									•	•	•	•	•	•	•			•				
	130412 MM	0.7-3.0	0.23-0.50									•	•	•	•	•	•	•			•				
 Medium	TNMG 130404 MT	0.8-3.0	0.10-0.35									•	•	•	•			•							
	130408 MT	1.0-3.0	0.15-0.45									•	•	•	•			•							
	130412 MT	1.2-3.0	0.20-0.55									•	•	•	•			•							
 Medium	TNMG 130404 PC	0.4-3.0	0.10-0.30									•	•	•	•			•			•				
	130408 PC	0.5-3.0	0.15-0.40					•				•	•	•	•			•			•				
	130412 PC	0.6-3.0	0.18-0.50									•	•	•	•			•							
 Finishing	TNMG 130404 WA *	0.25-2.5	0.08-0.25	•	•		•	•				•	•	•				•							
	130408 WA *	0.25-3.0	0.10-0.35	•	•		•	•				•	•	•				•							
	130412 WA *	0.40-3.5	0.15-0.45	•	•		•	•				•	•	•				•							
									</																

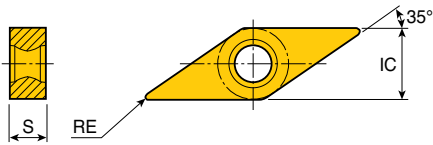
• * Marked: Wiper inserts should be applied to
□ TGNR/L..., □ TFNR/L...

• : Standard items

VNGX VNMX

Insert

Negative 35° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
13	7.94	4.76	0.1-1.2

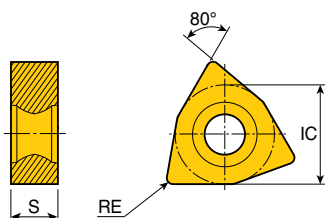
Insert	Designation	ap (mm)	Feed (mm/rev)	CVD coated												PVD coated					K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT9080		TT3010	TT3020	TT4410
 Finishing For Swiss	VNGX 130401M FS-F	0.2-1.0	0.03-0.12																			●	●	
	130402M FS-F	0.2-1.0	0.04-0.12																			●	●	
 Medium	VNGX 130401 ML	0.1-1.0	0.03-0.10															●						●
	130402 ML	0.2-1.2	0.05-0.15															●						
	130404 ML	0.5-1.5	0.05-0.20															●						
 Finishing	VNMX 130404 FG	0.5-2.0	0.08-0.20	●							●	●					●		●	●				
	130408 FG	0.5-2.0	0.10-0.23	●							●	●					●		●	●				
 Finishing	VNMX 130404 FM	0.25-1.5	0.07-0.30	●							●	●	●	●			●		●	●				
	130408 FM	0.3-1.5	0.10-0.35	●							●	●	●	●			●		●	●				
 Finishing	VNMX 130402 FS	0.2-1.0	0.05-0.20	●	●						●	●												
	130404 FS	0.25-1.0	0.07-0.20	●	●						●	●												
	130408 FS	0.5-1.0	0.10-0.23	●	●						●	●												
 Finishing	VNMX 130404 FX	0.2-2.0	0.05-0.20	●	●						●	●							●					
	130408 FX	0.2-2.0	0.07-0.20	●	●						●	●							●					
 Medium	VNMX 130404 MK	0.7-3.0	0.17-0.35													●	●		●	●				
	130408 MK	1.0-3.0	0.20-0.40			●										●	●		●	●	●	●		
 Medium	VNMX 130404 MT	0.8-3.0	0.15-0.36	●							●	●	●	●			●		●	●				
	130408 MT	1.0-3.0	0.17-0.36	●			●	●			●	●	●	●			●		●	●				
	130412 MT	1.5-3.0	0.20-0.40				●	●			●	●	●	●			●		●	●				
 Medium	VNMX 130404 PC	0.4-3.0	0.15-0.36								●	●	●	●			●		●	●				
	130408 PC	0.5-3.0	0.17-0.36								●	●	●	●			●		●	●				
	130412 PC	1.0-3.0	0.20-0.40								●	●	●	●			●		●	●				

●: Standard items

WNMX

Insert

Negative 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
04	7	3.18	0.4
06	9.52	4.76	0.4-1.2

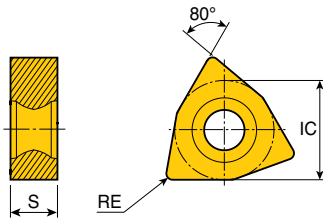
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet	CVD coated										PVD coated					K10					
				PV3010 CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020		TT9080	TT3010	TT3020	TT9020	
  Medium	WNMX 060404 EM	0.4-3.0	0.10-0.35																•		•				
	060408 EM	0.5-3.0	0.13-0.40																•		•				
	060412 EM	0.7-3.0	0.15-0.40																•		•				
  Finishing	WNMX 060404 FG	0.2-2.0	0.07-0.30	•	•						•	•						•		•					
  Finishing	WNMX 040304 FGP	0.3-2.0	0.05-0.25	•							•	•							•				•		
  Finishing	WNMX 060404 FM	0.25-2.0	0.07-0.30		•						•	•	•					•							
	060408 FM	0.3-2.0	0.10-0.35		•						•	•	•					•							
	060412 FM	0.35-2.0	0.15-0.40		•						•	•	•					•							
  Finishing	WNMX 060404 FS	0.25-1.5	0.07-0.30	•	•						•	•	•												
	060408 FS	0.5-1.5	0.10-0.30	•	•						•	•	•												
  Medium	WNMX 060404 MK	0.7-3.0	0.17-0.40															•		•					
	060408 MK	1.0-3.0	0.20-0.45															•		•					
	060412 MK	1.2-3.0	0.23-0.50															•		•					
  Medium	WNMX 060404 MM	0.4-3.0	0.15-0.45															•		•					
	060408 MM	0.5-3.0	0.20-0.50									•	•		•	•	•	•		•		•			
	060412 MM	0.7-3.0	0.23-0.50												•	•	•	•		•		•			
  Medium	WNMX 060404 MT	0.8-3.0	0.10-0.35				•	•		•	•	•		•	•	•	•		•						
	060408 MT	1.0-3.0	0.15-0.45				•	•		•	•	•		•	•	•	•		•						
	060412 MT	1.2-3.0	0.20-0.55				•	•		•	•	•					•								

• : Standard items

WNMX

Insert

Negative 80° trigon inserts



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

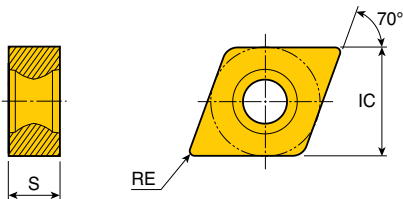
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet	CVD coated												PVD coated					K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080		TT3010	TT3020	TT9020
  Medium	WNMX 060404 PC	0.4-3.0	0.10-0.30									●	●	●											
	060408 PC	0.5-3.0	0.15-0.40									●	●	●							●				
	060412 PC	0.6-3.0	0.18-0.50									●	●	●							●				
  Finishing	WNMX 060404 WA	0.25-2.5	0.08-0.25	●	●		●	●				●	●	●						●					
	060408 WA	0.25-3.0	0.10-0.40	●	●		●	●				●	●	●						●					
	060412 WA	0.4-3.0	0.20-0.50	●	●		●	●				●	●	●						●					

● : Standard items

XNMG

Insert

Negative 70° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
09	8.7	4.76	0.4
11	11.11	5.56	0.4-1.2

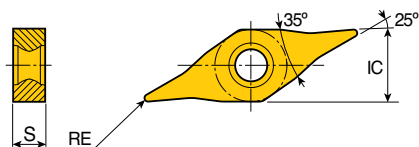
Insert	Designation	ap (mm)	Feed (mm/rev)	Cermet		CVD coated											PVD coated					K10			
				PV3010	CT3000	TT3005	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9080		TT3010	TT3020	TT9020
  Finishing	XNMG 090404 FLP	0.20-1.50	0.07-0.30								●	●	●												
  Finishing	XNMG 110504 FGP	0.25-2.00	0.07-0.30								●	●	●												
	110508 FGP	0.30-2.00	0.10-0.35								●	●	●												
	110512 FGP	0.35-2.00	0.15-0.40								●	●													
  Medium	XNMG 110508 MLP	0.50-3.50	0.10-0.40								●	●	●												
	110512 MLP	0.60-3.50	0.15-0.50								●	●	●												

● : Standard items

YNMG

Insert

Negative 25° rhombic inserts



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

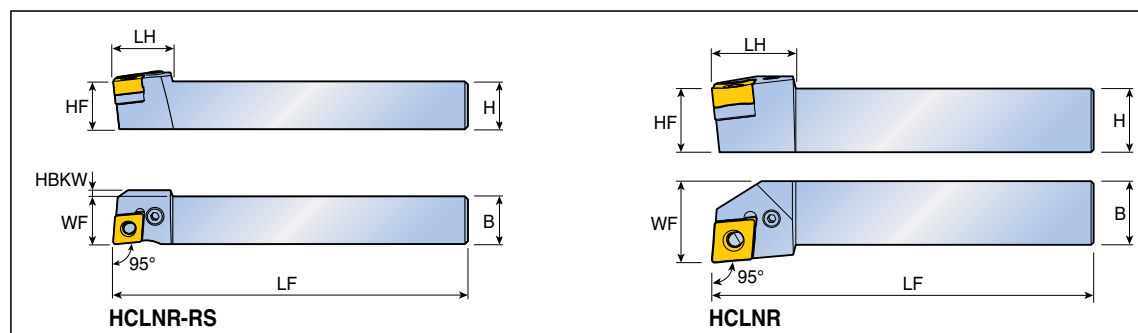
[illegible]

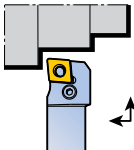
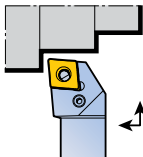
● : Standard items

HCLNR/L-RS HCLNR/L

Holder

Hook lever type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
95° 	HCLNR/L 1212 K0904-RS	12	12	16	125	18	12	2	CN... 0904... RHINO TURN
	1616 K0904-RS	16	16	16	125	20	16	-	
95° 	HCLNR/L 1616 H0904	16	16	16	100	22	20	-	CN... 0904... RHINO TURN
	2020 H0904	20	20	20	100	22	25	-	
	2020 K0904	20	20	20	125	22	25	-	
	2525 M0904	25	25	25	150	22	32	-	

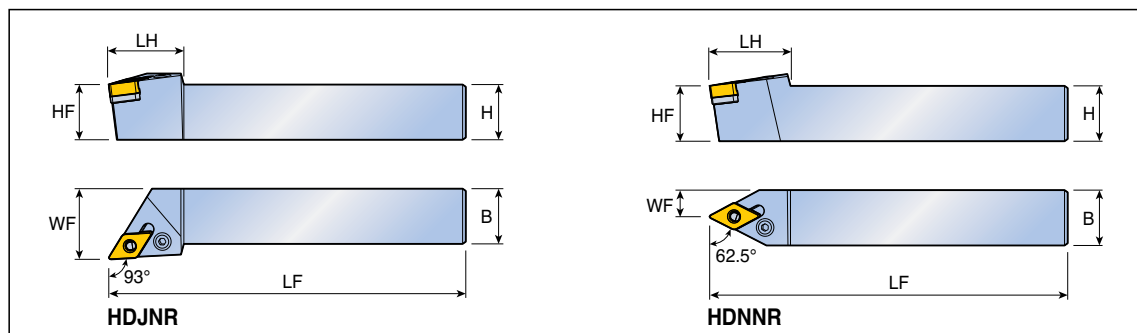
Spare parts

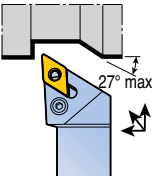
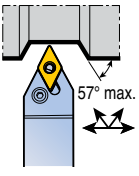
Designation	Lever	Screw	Snap ring	Shim	Shim pin	Wrench	
...1212...0904	 LCL 09B-NX	 LCS 3B	 LSR 3B	-	-	 L-W 2	
...0904	LCL 09-NX	LCS 3	-	LSC 32A	LSP 3A	L-W 2.5	

HDJNR/L HDNNR/L

Holder

Hook lever type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
93° 	HDJNR/L 2020 H1305	20	20	20	100	34	25		DN... 1305...
	2020 K1305	20	20	20	125	34	25		<i>RHINO TURN</i>
	2525 M1305	25	25	25	150	34	32		
62.5° 	HDNNR/L 2020 K1305	20	20	20	125	36.5	10		
	2525 M1305	25	25	25	150	36.5	12		

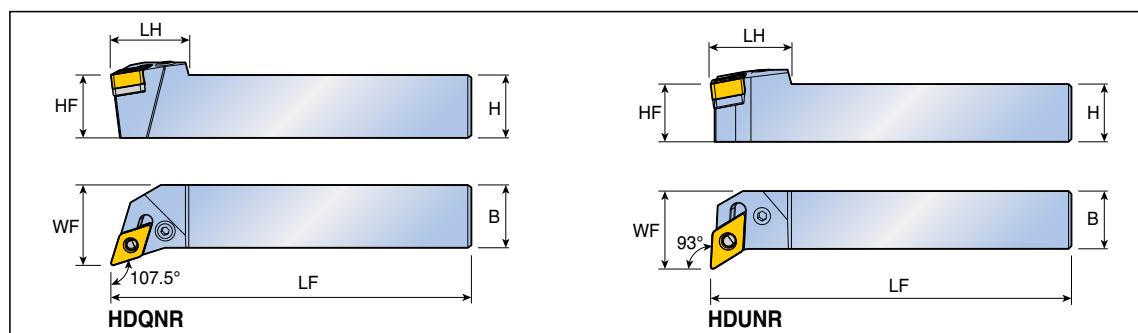
Spare parts

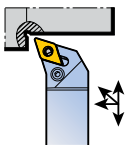
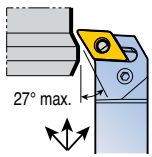
Designation	Lever	Screw	Shim	Shim pin	Wrench		
...1305	LCL 11-NX	LCS 4	LSD 3.52	LSP 4	L-W 3		

HDQNR/L HDUNR/L

Holder

Hook lever type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
107.5° 	HDQNR/L 2020 K1305	20	20	20	125	31	25		DN... 1305...
	2525 M1305	25	25	25	150	31	32		RHINO TURN
93° 	HDUNR/L 2020 K1305	20	20	20	125	28	27		

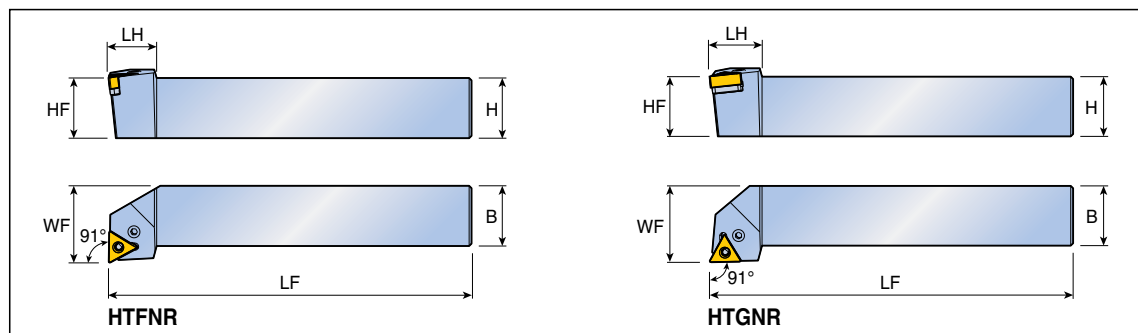
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench		
...1305	LCL 11-NX	LCS 4	LSD 3.52	LSP 4	L-W 3		

HTFNR/L HTGNR/L

Holder

Hook lever type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
91° 	HTFNR/L 2020 K1304	20	20	20	125	20	25		TN... 1304...
	2525 M1304	25	25	25	150	20	32		
91° 	HTGNR/L 1616 H1304	16	16	16	100	22	20		
	2020 H1304	20	20	20	100	22	25		
	2020 K1304	20	20	20	125	22	25		
	2525 M1304	25	25	25	150	22	32		

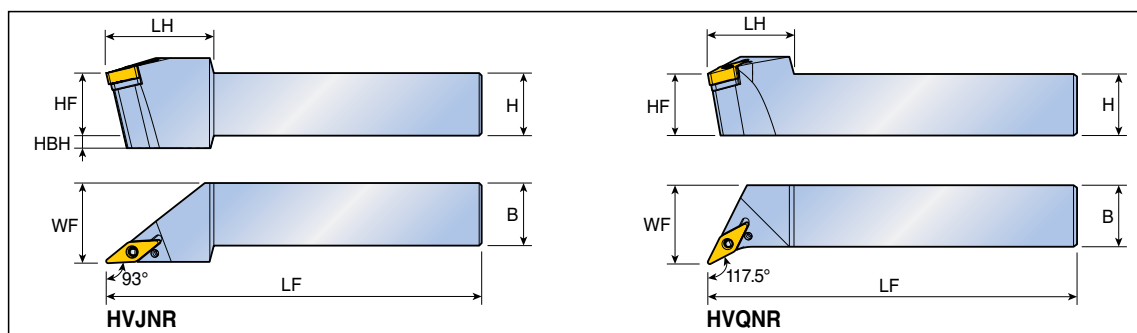
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench		
...1304	LCL 08-NX	LCS 3-NX	LST 2.51.8	LSP 3B	L-W 2.5		

HVJNR/L HVQNR/L

Holder

Hook lever type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBH	
93° 	HVJNR/L 1616 H1304	16	16	16	100	30	20	5	VN...X 1304...
	2020 K1304	20	20	20	125	35	25	-	YNMG 1304...
	2525 M1304	25	25	25	150	43	32	-	RHINO TURN
117.5° 	HVQNR/L 2020 K1304	20	20	20	125	35	25	-	
	2525 M1304	25	25	25	150	35	32	-	

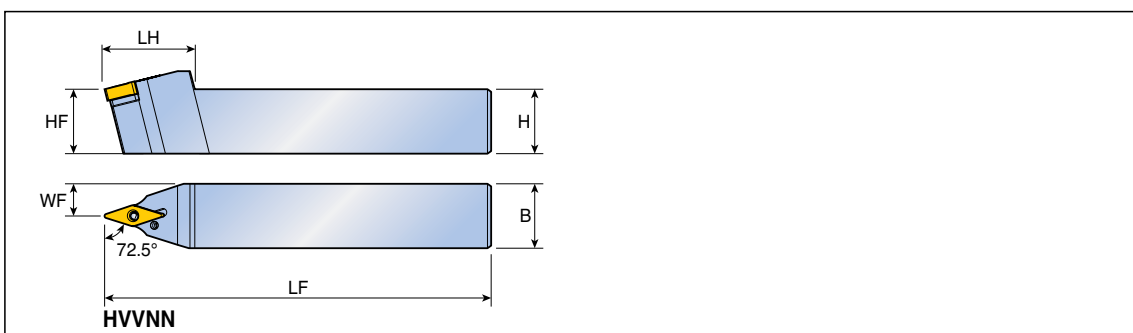
Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
...1304	LCL 08-NX	LCS 4-DH	LSV 2.51.8H	LSP 3B	L-W 2.5			

HVVNN

Holder

Hook lever type holders

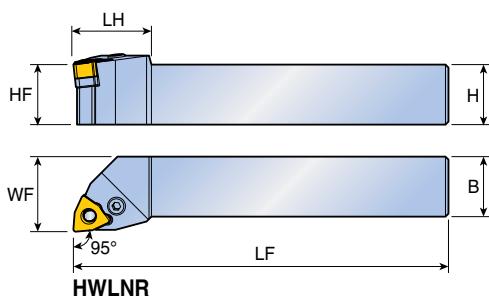


Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
72.5° 	HVVNN 2020 K1304	20	20	20	125	35	10		VN...X 1304...
	2525 M1304	25	25	25	150	35	12.5		YNMG 1304...

Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
...1304	LCL 08-NX	LCS 4-DH	LSV 2.51.8H	LSP 3B	L-W 2.5			

Hook lever type holders

[illegible]

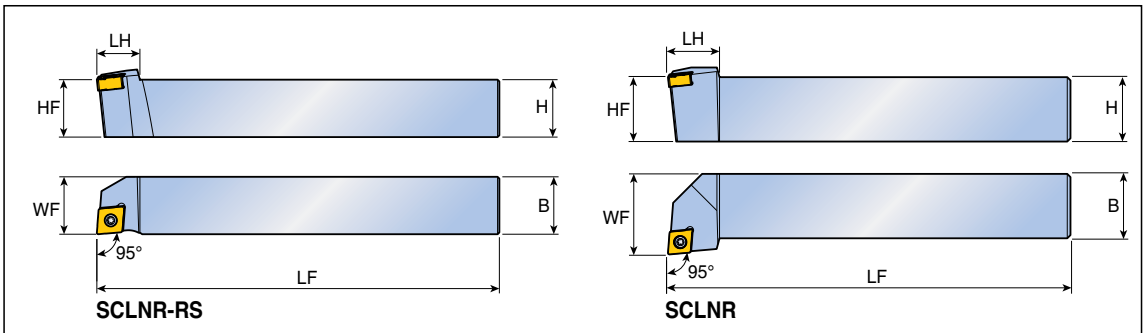
Spare parts

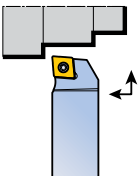
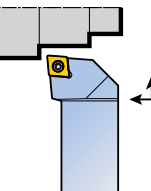
[illegible]

SCLNR/L-RS SCLNR/L

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
95° 	SCLNR/L 1212 K0703-RS	12	12	12	125	12	12		CNMX 0703... 
	1616 K0703-RS	16	16	16	125	12	16		
95° 	SCLNR/L 1616 H0703	16	16	16	100	12	20		
	2020 K0703	20	20	20	125	16	25		

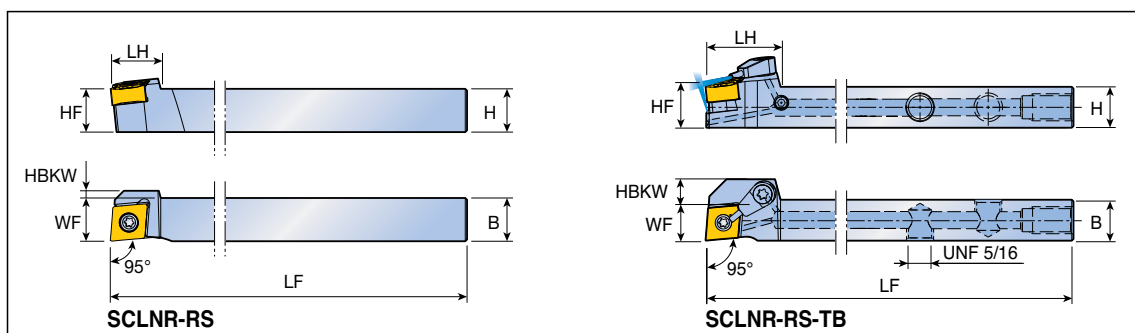
Spare parts

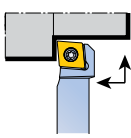
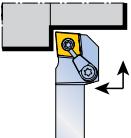
Designation	Screw	Wrench					
							
...0703...	TS 25D060/HG-P	T 7P					

SCLNR-RS SCLNR-RS-TB

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
95° 	SCLNR 1212 K0904-RS	12	12	12	125	14	12	2	CN... 0904
	1616 K0904-RS	16	16	16	125	14	16	-	RHINO TURN
	2020 K0904-RS	20	20	20	125	14	20	-	
95°  COOLBURST	SCLNR 1212 K0904-RS-TB	12	12	12	125	22	12	19	
	1616 K0904-RS-TB	16	16	16	125	22	16	18	
	2020 K0904-RS-TB	20	20	20	125	22	20	-	

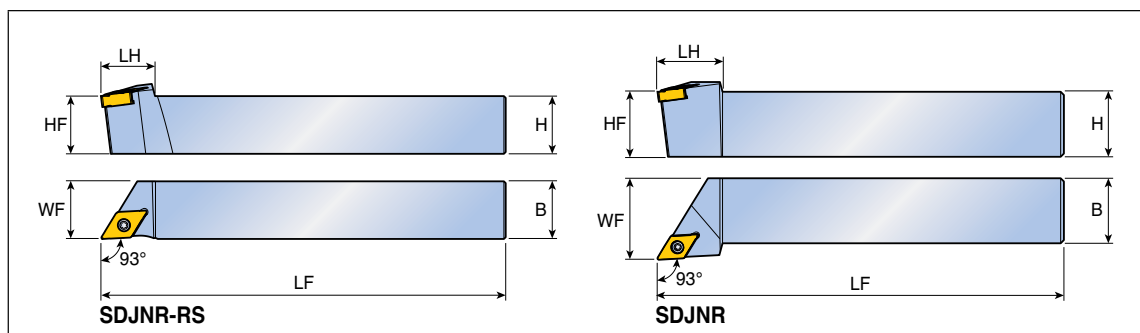
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench			
							
SCLNR-RS	TS 35083/HG	-	-	T 10	-		
SCLNR-RS-TB	TS 35083/HG	S-CU-TB	PLG 5/16 UNF	T 10	L-W 5/32		

SDJNR/L-RS SDJNR/L

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
93° 	SDJNR/L 1212 K0803-RS	12	12	12	125	15	12	DN...X 0803...
	1616 K0803-RS	16	16	16	125	15	16	
93° 	SDJNR/L 1616 H0803	16	16	16	100	16	20	
	2020 K0803	20	20	20	125	20	25	

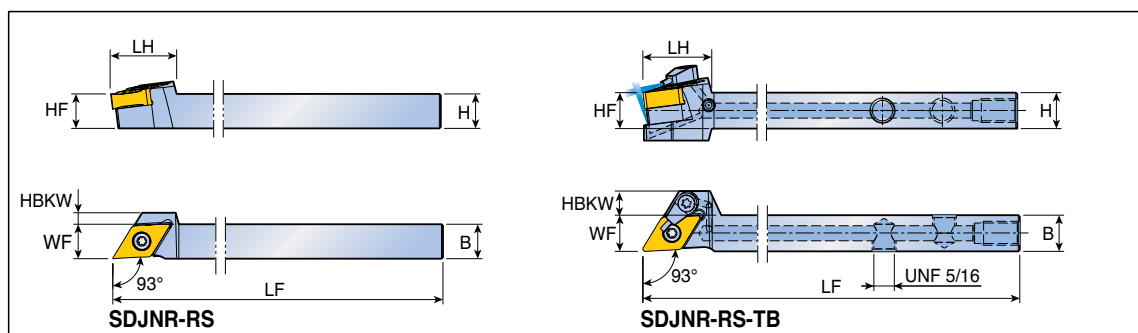
Spare parts

Designation	Screw	Wrench					
...0803...	TS 25D060/HG-P	T 7P					

SDJNR-RS SDJNR-RS-TB

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
93° 	SDJNR 1212 K1305-RS	12	12	12	125	23	12	4	DN...1305... <i>RHINO TURN</i>
	1616 K1305-RS	16	16	16	125	23	16	-	
	2020 K1305-RS	20	20	20	125	23	20	-	
93° 	SDJNR 1212 K1305-RS-TB	12	12	12	125	23	12	8	
	1616 K1305-RS-TB	16	16	16	125	23	16	4	

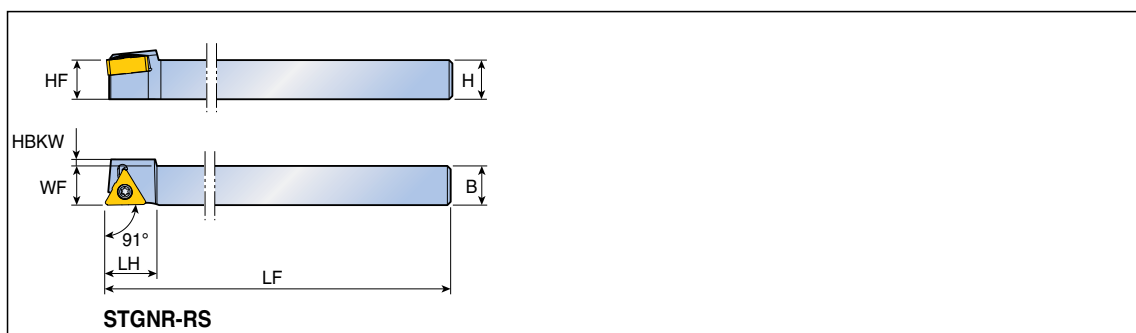
Spare parts

Designation	Screw	Cooling unit	Plug	Wrench				
SDJNR-RS	TS 40G110I	-	-	T 15	-			
SDJNR-RS-TB	TS 40G110I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32			

STGNR-RS

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
91°	STGNR 1212 K1304-RS	12	12	12	125	16	12	2	TN...1304...
	1616 K1304-RS	16	16	16	125	16	16	-	RHINO TURN
	2020 K1304-RS	20	20	20	125	16	20	-	

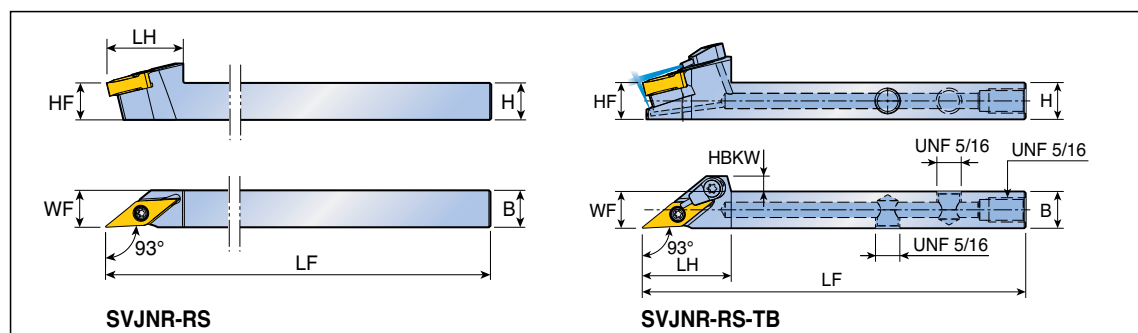
Spare parts

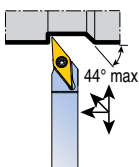
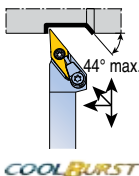
Designation	Screw	Wrench					
							
STGNR-RS	TS 30080I/HG	T 9					

SVJNR-RS SVJNR-RS-TB

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
93° 	SVJNR 1212 K1304-RS	12	12	12	125	25	12	-	VN...X 1304...
	1616 K1304-RS	16	16	16	125	25	16	-	YNMG 1304...
	2020 K1304-RS	20	20	20	125	25	20	-	RHINO TURN
93° 	SVJNR 1212 K1305-RS-TB	12	12	12	125	29	12	5	
	1616 K1305-RS-TB	16	16	16	125	29	16	1	

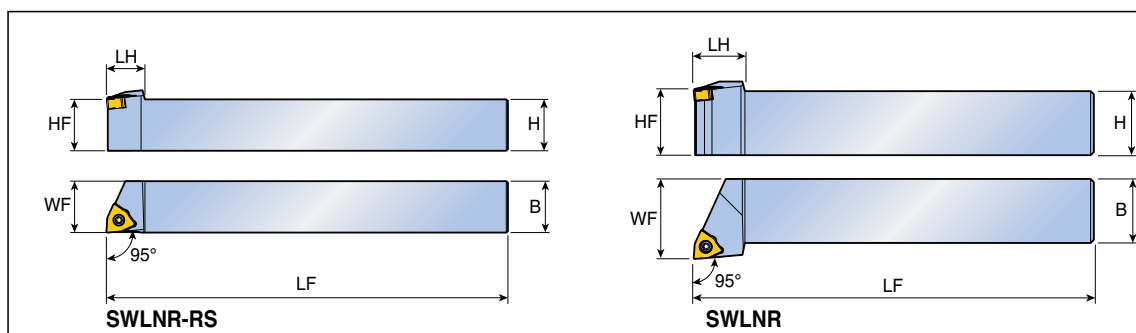
Spare parts

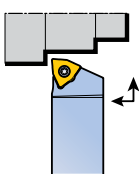
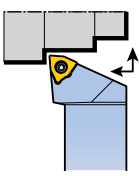
Designation	Screw	Cooling unit	Plug	Wrench			
SVJNR-RS	TS 30080I/HG	-	-	T 9	-		
SVJNR-RS-TB	TS 30080I/HG	S-CU-TB	PLG 5/16 UNF	T 9	L-W 5/32		

SWLNR/L-RS SWLNR/L

Holder

Screw type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
95° 	SWLNR/L 1212 K0403-RS	12	12	12	125	12	12		WNMX 0403... 
	1616 K0403-RS	16	16	16	125	12	16		
95° 	SWLNR/L 1616 H0403	16	16	16	100	16	20		
	2020 K0403	20	20	20	125	16	25		

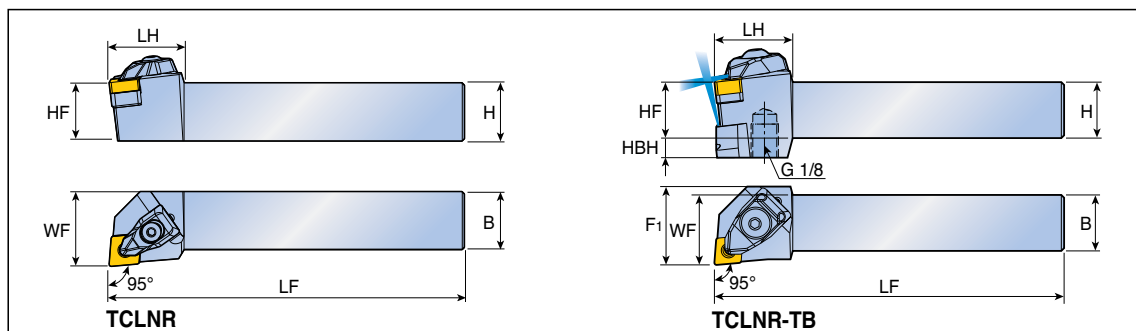
Spare parts

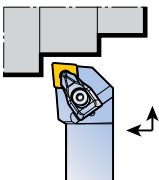
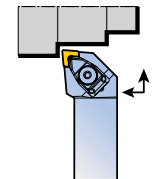
Designation	Screw 	Wrench 						
...0403...	TS 25D060/HG-P	T 7P						

TCLNR/L TCLNR/L-TB

Holder

T-holders



Approach angle	Designation	Dimension (mm)								Insert
		H	HF	B	LF	LH	WF	HBH	F1	
95° 	TCLNR/L 2020 H0904	20	20	20	100	25	25			CN... 0904... RHINO TURN
	2020 K0904	20	20	20	125	25	25			
	2525 M0904	25	25	25	150	25	32			
95°  COOLBURST	TCLNR/L 2020 K0904-TB	20	20	20	125	28	25	7	28	
	2525 M0904-TB	25	25	25	150	28	32	7	32	

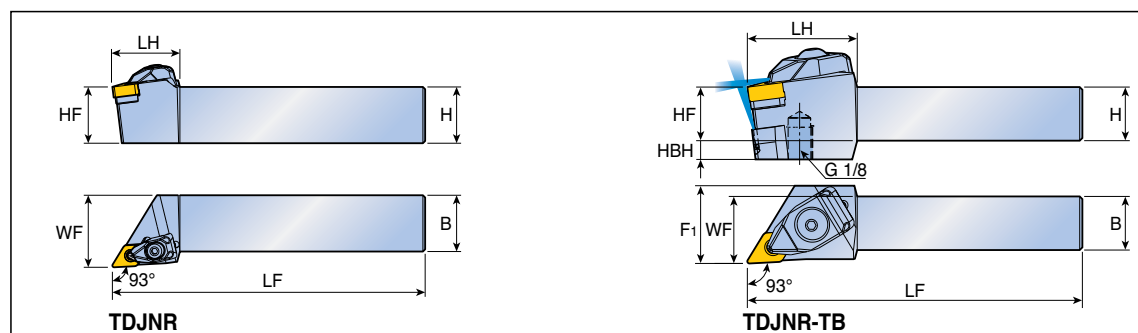
Spare parts

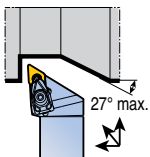
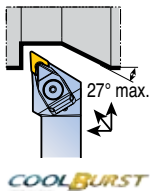
Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
									
...0904	DLM 3-NX	DLS 3	DSP 3	-	-	LSC 32A	SO 40085I	L-W 2.5	T 15
...0904-TB	DLM 3-NX-TB	BH M4x0.7x16-TB	DSP 3	O-RING ID4.47x1.78	O-RING ID6.07x1.78	LSC 32A	SO 40085I	L-W 3	T 15

TDJNR/L TDJNR/L-TB

Holder

T-holders



Approach angle	Designation	Dimension (mm)								Insert
		H	HF	B	LF	LH	WF	HBH	F1	
93° 	TDJNR/L 2020 H1305	20	20	20	100	33	25			DN... 1305... 
	2020 K1305	20	20	20	125	33	25			
	2525 M1305	25	25	25	150	36	32			
93° 	TDJNR/L 2020 K1305-TB	20	20	20	125	41	25	7	29	
	2525 M1305-TB	25	25	25	150	41	32	7	32	

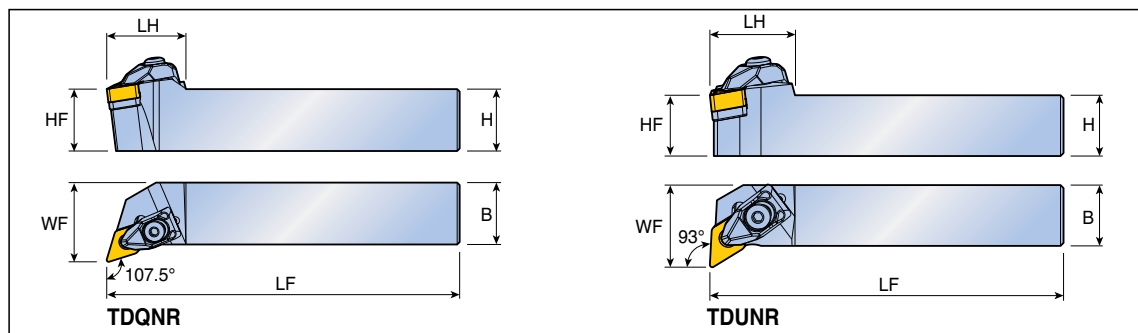
Spare parts

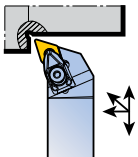
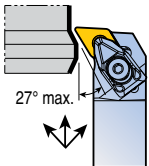
Designation	Clamp 	Clamp screw 	Spring 	Upper O-ring 	Lower O-ring 	Shim 	Shim screw 	Wrench 	
...1305	DLM 3.5-NX	DLS 4	DSP 4	-	-	LSD 3.52	SO 50090I	L-W 3	T 20
...2020-TB	DLM 3.5-NX-TB	BH M5x0.8x21-MO-TB	DSP 4	O-RING ID5.28x1.78	O-RING ID7.59x2.62	LSD 3.52	SO 50090I-MO	L-W 3	T 20
...2525-TB	DLM 3.5-NX-TB	BH M5x0.8x21-MO-TB	DSP 4	O-RING ID5.28x1.78	O-RING ID7.59x2.62	LSD 3.52	SO 50090I	L-W 3	T 20

TDQNR/L TDUNR/L

Holder

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
107.5° 	TDQNR/L 2020 K1305	20	20	20	125	32	25		DN... 1305...
	2525 M1305	25	25	25	150	32	32		<i>RHINO TURN</i>
93° 	TDUNR/L 2020 K1305	20	20	20	125	28	27		
	2525 M1305	25	25	25	150	28	32		

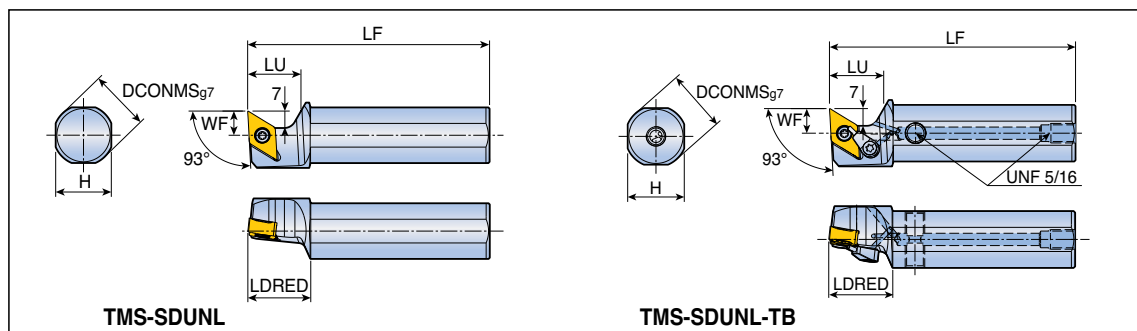
Spare parts

Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Wrench  		
...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52	SO 50090I	L-W 3	T 20	

TMS-SDUNL TMS-SDUNL-TB

Holder

Sleeve holders



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	WF	LU	LDRED	
93° 	TMS-16X SDUNL 1305	16	15	85	10	22	26	DN...1305... RHINO TURN
	19.05H SDUNL 1305	19.05	17	100	10	22	26	
	20H SDUNL 1305	20	18	100	10	22	26	
	22H SDUNL 1305	22	20	100	10	22	26	
	25H SDUNL 1305	25	23	100	10	22	26	
93° COOLBURST	TMS-25H SDUNL 1305-TB	25	23	100	10	22	26	

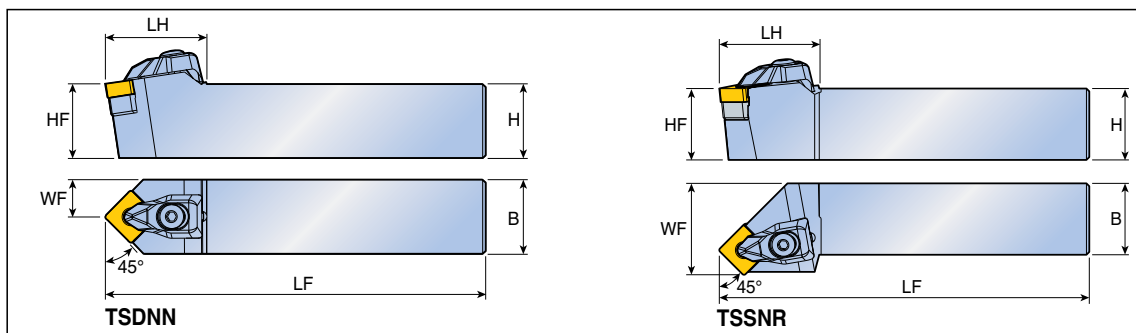
Spare parts

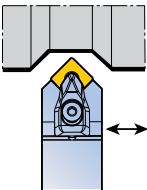
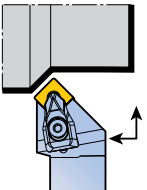
Designation	Screw	Cooling unit	Plug	Wrench		
TMS-SDUNL	TS 40G110I	-	-	T 15	-	
TMS-SDUNL-TB	TS 40G110I	S-CU-TB	PLG 5/16 UNF	T 15	L-W 5/32	

TSDNN TSSNR/L

Holder

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
45° 	TSDNN 2020 K0904	20	20	20	125	28	10		SN... 0904... 
	2525 M0904	25	25	25	150	28	12.5		
45° 	TSSNR/L 2020 K0904	20	20	20	125	29	25		
	2525 M0904	25	25	25	150	29	32		

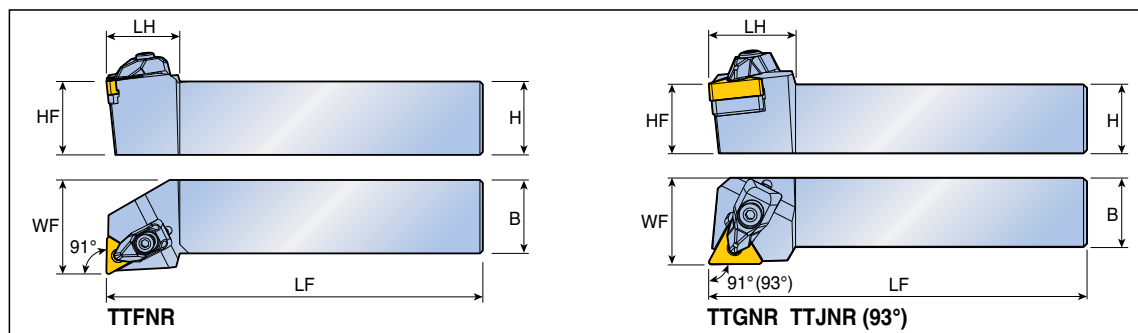
Spare parts

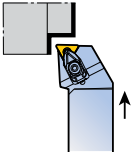
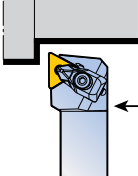
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
								
...0904	DLM 3-NX	DLS 3	DSP 3	LSS 32A	SO 40085I	L-W 2.5	T 15	

TTFNR/L TTGNR/L TTJNR/L

Holder

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
91° 	TTFNR/L 2020 K1304	20	20	20	125	25	25		TN... 1304... <i>RHINO TURN</i>
	2525 M1304	25	25	25	150	25	32		
91°(93°) 	TTGNR/L 2020 H1304	20	20	20	100	25	25		
	2020 K1304	20	20	20	125	25	25		
	2525 M1304	25	25	25	150	25	32		
	TTJNR/L 2525 M1304	25	25	25	150	25	32		

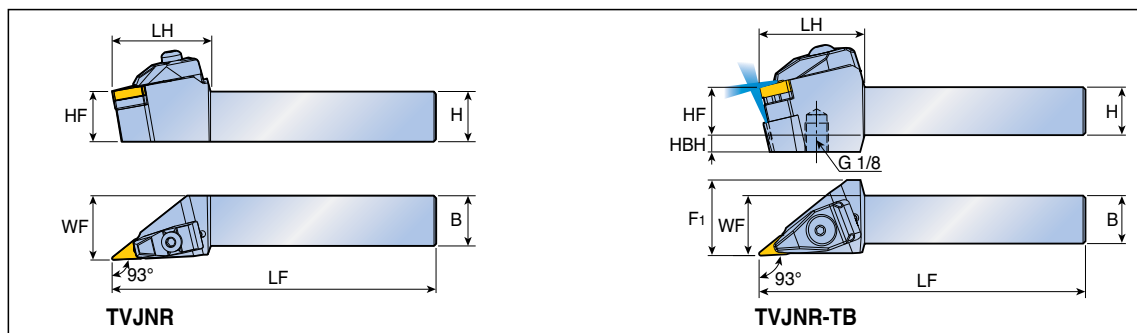
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench		
...1304								
	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52	SO 40085I	L-W 2.5	T 15	

TVJNR/L TVJNR/L-TB

Holder

T-holders

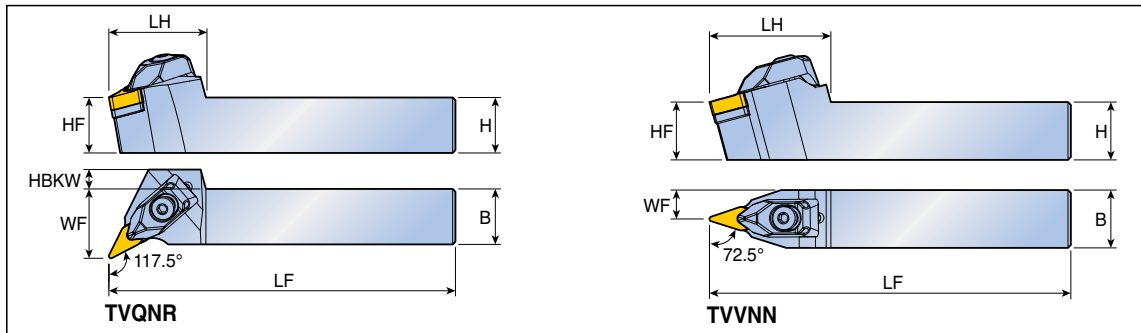


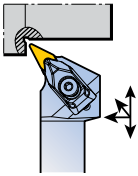
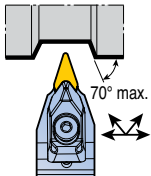
Approach angle	Designation	Dimension (mm)								Insert
		H	HF	B	LF	LH	WF	HBH	F1	
93° 	TVJNR/L 2020 K1304	20	20	20	125	42	25			VN...X 1304...
	2525 M1304	25	25	25	150	42	32			YNMG 1304...
										<i>RHINO TURN</i>
93° 	TVJNR/L 2020 K1304-TB	20	20	20	125	44	25	7	31.5	
	2525 M1304-TB	25	25	25	150	44	32	7	32.0	

Spare parts

Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
...1304	DLM 2.5V-NX	DLS 4	DSP 4	-	-	MSVI 2.522	SO 40085I	L-W 3	T 15
...1304-TB	DLM 2.5V-NX-TB	BH M5X 0.8X21-MO-TB	DSP 4	O-RING ID5.28x 1.78	O-RING ID7.59x 2.62	MSVI 2.522	SO 40085I	L-W 3	T 15

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBKW	
117.5° 	TVQNR/L 2020 K1304	20	20	20	125	35	25	7	VN...X 1304...
	2525 M1304	25	25	25	150	35	32	-	YNMG 1304... <i>RHINO TURN</i>
72.5° 	TVVNN 2020 K1304	20	20	20	125	42	10		
	2525 M1304	25	25	25	150	42	12.5		

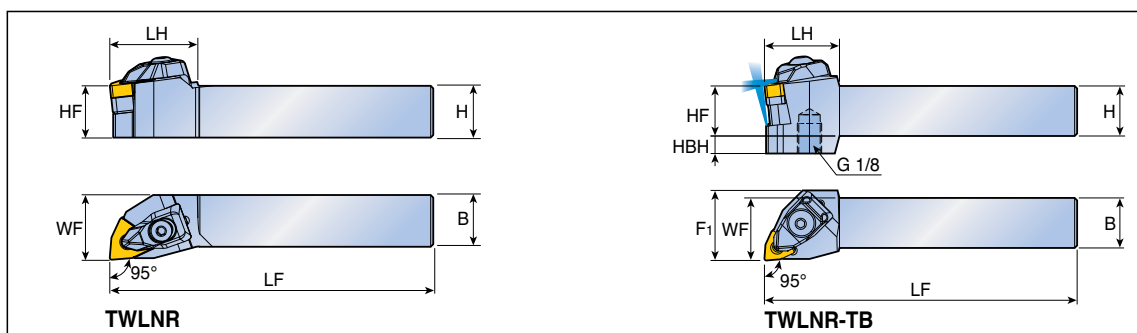
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Wrench	
...1304	DLM 2.5V-NX	DLS 4	DSP 4	MSVI 2.522	SO 40085I	L-W 3	T 15

TWLNR/L TWLNR/L-TB

Holder

T-holders



Approach angle	Designation	Dimension (mm)								Insert
		H	HF	B	LF	LH	WF	HBH	F1	
95° 	TWLNR/L 2020 K0604	20	20	20	125	26	25			WN...X 0604... RHINO TURN
	2525 M0604	25	25	25	150	26	32			
95° 	TWLNR/L 2020 K0604-TB	20	20	20	125	30	25	7	28	
	2525 M0604-TB	25	25	25	150	30	32	7	32	

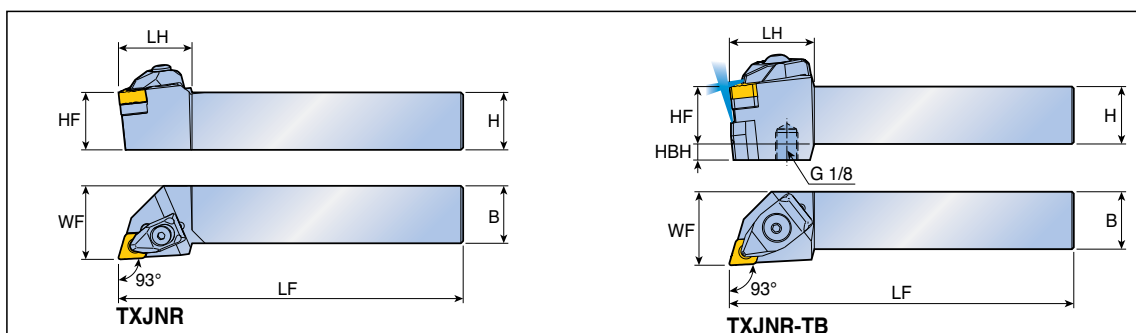
Spare parts

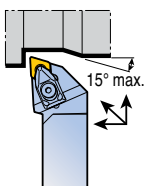
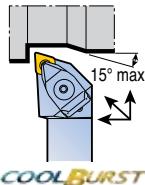
Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
...0604	DLM 3-NX	DLS 3	DSP 3	-	-	LSW 32A	SO 40085I	L-W 2.5	T 15
...0604-TB	DLM 3-NX-TB	BH M4x0.7x 16-TB	DSP 3	O-RING ID4.47x 1.78	O-RING ID6.07x 1.78	LSW 32A	SO 40085I	L-W 3	T 15

TXJNR/L TXJNR/L-TB

Holder

T-holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF	HBH	
93° 	TXJNR/L 2020 K0904	20	20	20	125	25	25		XNMG 0904... <i>RHINOXTURN</i>
	2525 M0904	25	25	25	150	25	32		XNMG 1105... <i>RHINOXTURN</i>
	2020 K1105	20	20	20	125	32	25		
	2525 M1105	25	25	25	150	32	32		
93° 	TXJNR/L 2525 M0904-TB	25	25	25	150	30	32	7	XNMG 0904... <i>RHINOXTURN</i>
	2525 M1105-TB	25	25	25	150	37	32	7	XNMG 1105... <i>RHINOXTURN</i>

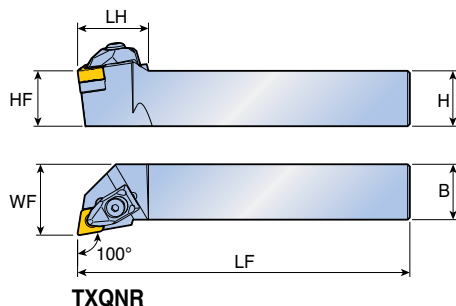
Spare parts

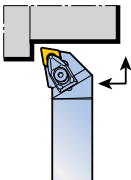
Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
									
...0904	DLM 2.5-NX	DLS 3	DSP 3	-	-	TSX 2.73	SO 40085I	L-W 2.5	T 15
...1105	DLM 3.5-NX	DLS 4	DSP 4	-	-	TSX 3.53	SO 50090I	L-W 3	T 20
...0904-TB	DLM 3-NX-TB	BH M4x 0.7x16-TB	DSP 3	O-RING ID4.47x 1.78	O-RING ID6.07x 1.78	TSX 2.73	SO 40085I	L-W 3	T 15
...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

TXQNR/L

Holder

T-holders



Approach angle	Designation	Dimension (mm)						Insert
		H	HF	B	LF	LH	WF	
100° 	TXQNR/L 2020 K0904	20	20	20	125	25	25	XNMG 0904...
	2525 M0904	25	25	25	150	25	32	RHINO X TURN
	2020 K1105	20	20	20	125	30	25	XNMG 1105...
	2525 M1105	25	25	25	150	32	32	RHINO X TURN

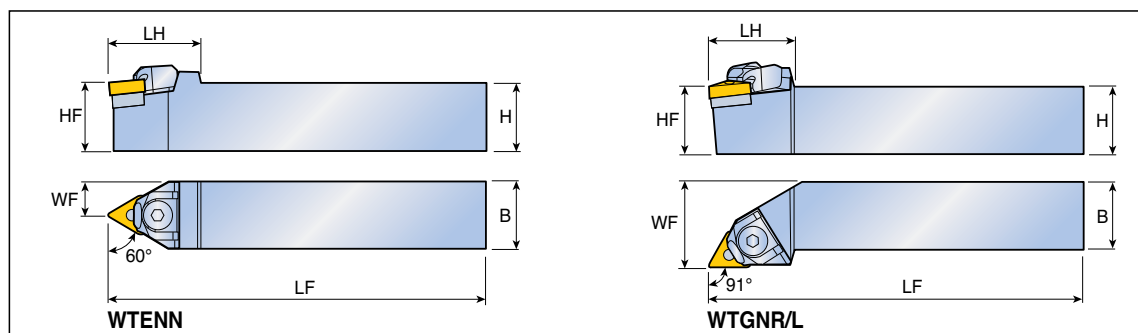
Spare parts

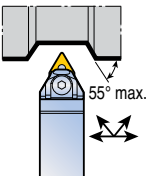
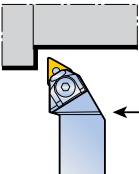
Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Wrench  	
...0904	DLM 2.5-NX	DLS 3	DSP 3	TSX 2.73	SO 40085I	L-W 2.5	T 15
...1105	DLM 3.5-NX	DLS 4	DSP 4	TSX 3.53	SO 50090I	L-W 3	T 20

WTENN WTGNR/L

Holder

Wedge clamp type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
60° 	WTENN	2020 K1304	20	20	20	125	28	10.0	TN... 1304... <i>RHINO</i> TURN
	2525 M1304	25	25	25	150	28	12.5		
91° 	WTGNR/L	2020 K1304	20	20	20	125	27	25	
	2525 M1304	25	25	25	150	27	32		

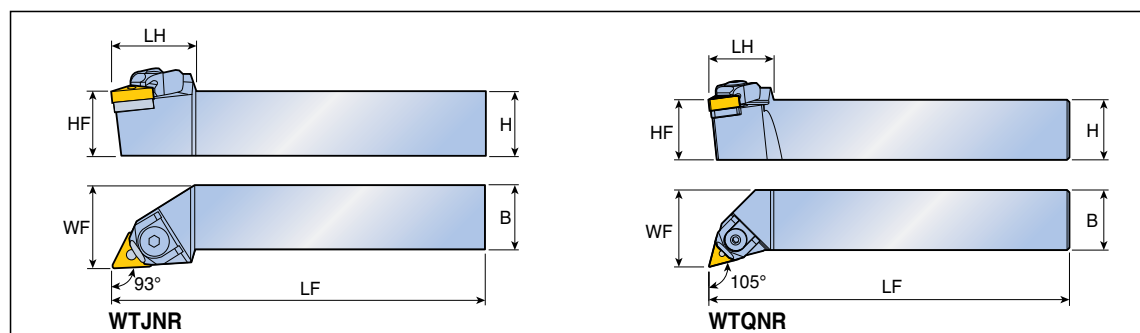
Spare parts

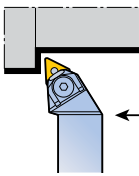
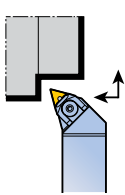
Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench	
...1304	WC 2.53	WCS 2.5	CSR 2	WST 2.52	WSS 2.52	L-W 2.5	

WTJNR/L WTQNR/L

Holder

Wedge clamp type holders



Approach angle	Designation	Dimension (mm)							Insert
		H	HF	B	LF	LH	WF		
93° 	WTJNR/L 2020 K1304	20	20	20	125	27	25		TN... 1304... <i>RHINO TURN</i>
	2525 M1304	25	25	25	150	27	32		
105° 	WTQNR/L 2020 K1304	20	20	20	125	27	25		
	2525 M1304	25	25	25	150	27	32		

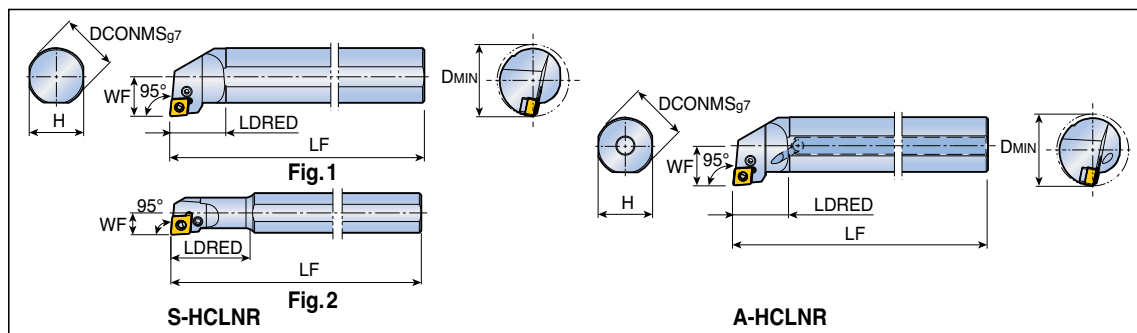
Spare parts

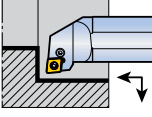
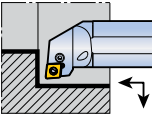
Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench	
...1304	WC 2.53	WCS 2.5	CSR 2	WST 2.52	WSS 2.52	L-W 2.5	

S-HCLNR/L A-HCLNR/L

Boring Bar

Hook lever type boring bars



Approach angle	Designation	Dimension (mm)						Fig.	Insert
		DCONMS	H	LF	LDRED	WF	DMIN		
95° 	S16Q HCLNR/L 0904	16	15	180	25	11	20	1	CN... 0904... RHINO TURN
	S20Q HCLNR/L 0904	20	18	180	28	13	25	1	
	S20Q HCLNR/L 0904-D20	20	18	180	40	11	20	2	
	S25R HCLNR/L 0904	25	23	200	31	17	32	1	
	S32S HCLNR/L 0904	32	30	250	31	22	40	1	
	S40T HCLNR/L 0904	40	37	300	55	27	50	1	
95° 	A16Q HCLNR/L 0904	16	15	180	25	11	20		
	A20Q HCLNR/L 0904	20	18	180	28	13	25		
	A25R HCLNR/L 0904	25	23	200	31	17	32		
	A32S HCLNR/L 0904	32	30	250	31	22	40		

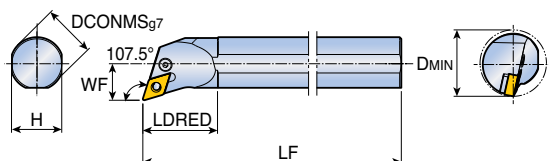
Spare parts

Designation	Lever 	Screw 	Shim 	Shim pin 	Snap ring 	Wrench 	
S ...0904	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2	
S ...0904...D	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2	
S32S ...0904	LCL 09-NX	LCS 3	LSC 32	LSP 3A	-	L-W 2.5	
S40T ...0904	LCL 09-NX	LCS 3	LSC 32	LSP 3A	-	L-W 2.5	
A ...0904	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2	
A32S ...0904	LCL 09-NX	LCS 3	LSC 32	LSP 3A	-	L-W 2.5	

S-HDQNR/L

Boring Bar

Hook lever type boring bars



S-HDQNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
107.5°	S32S HDQNR/L1305	32	30	250	45	22	40	DN... 1305... RHINO TURN

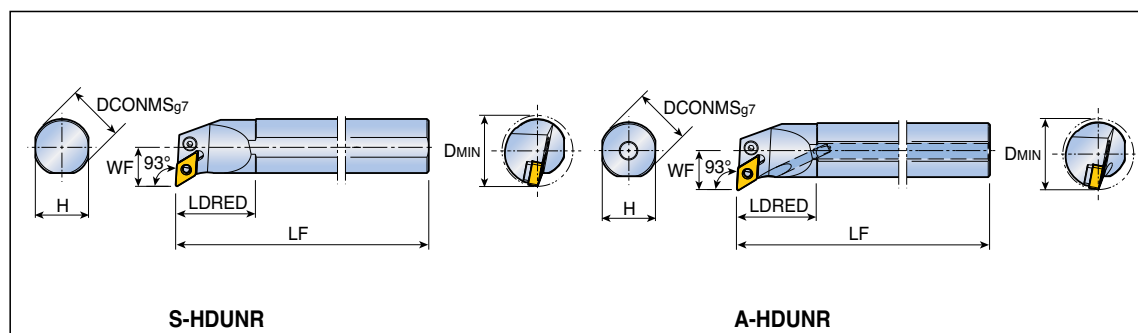
Spare parts

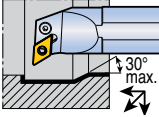
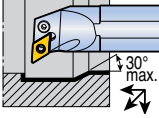
Designation	Lever	Screw	Shim	Shim pin	Wrench			
...1305	LCL 11-NX	LSC 4S	LSD 3.52B	LSP 4	L-W 3			

S-HDUNR/L A-HDUNR/L

Boring Bar

Hook lever type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S32S HDUNR/L 1305	32	30	250	45	22	40	DN... 1305... RHINO TURN
	S40T HDUNR/L 1305	40	37	300	55	27	50	
93° 	A32S HDUNR/L 1305	32	30	250	45	22	40	
	A40T HDUNR/L 1305	40	37	300	55	27	50	

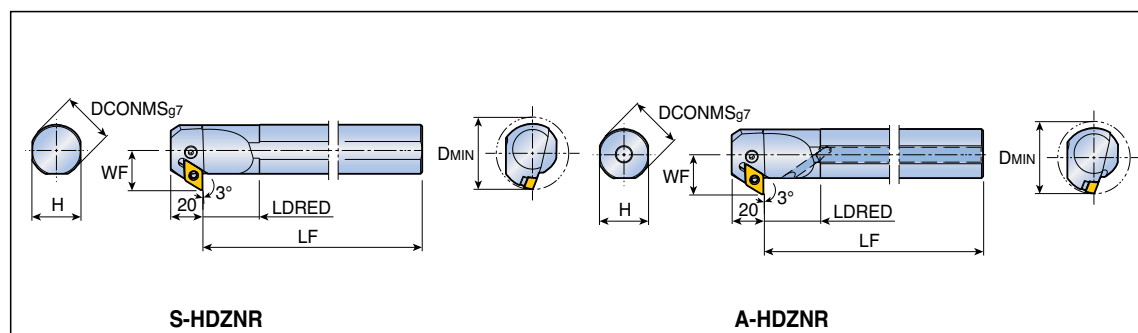
Spare parts

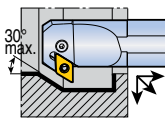
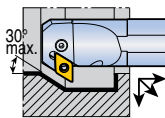
Designation	Lever 	Screw 	Shim 	Shim pin 	Wrench 			
...1305	LCL 11-NX	LCS 4S	LSD 3.52B	LSP 4	L-W 3			

S-HDZNR/L A-HDZNR/L

Boring Bar

Hook lever type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S32S HDZNR/L1305	32	30	250	35	25	45	DN... 1305... 
	S40T HDZNR/L1305	40	37	300	40	29	50	
93° 	A32S HDZNR/L1305	32	30	250	35	25	45	
	A40T HDZNR/L1305	40	37	300	40	29	50	

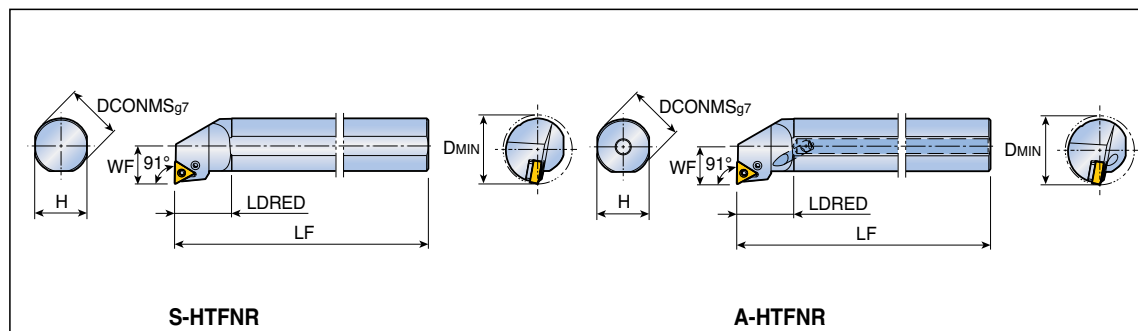
Spare parts

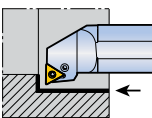
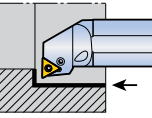
Designation	Lever 	Screw 	Shim 	Shim pin 	Wrench 			
...1305	LCL 11-NX	LCS 4S	LSD 3.52B	LSP 4	L-W 3			

S-HTFNR/L A-HTFNR/L

Boring Bar

Hook lever type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91° 	S16Q HTFNR/L 1304	16	15	180	25	11	20	TN... 1304... <i>RHINO TURN</i>
	S20Q HTFNR/L 1304	20	18	180	28	13	25	
	S25R HTFNR/L 1304	25	23	200	33	17	32	
	S32S HTFNR/L 1304	32	30	250	33	22	40	
91° 	A16Q HTFNR/L 1304	16	15	180	25	11	20	
	A20Q HTFNR/L 1304	20	18	180	28	13	25	
	A25R HTFNR/L 1304	25	23	200	33	17	32	
	A32S HTFNR/L 1304	32	30	250	33	22	40	

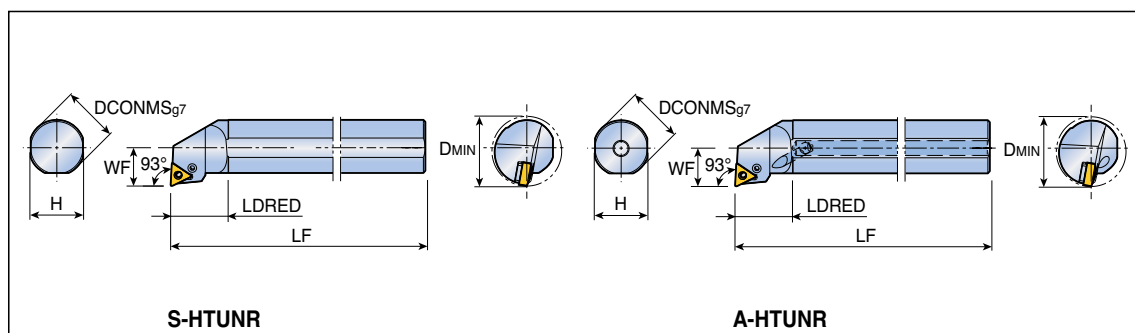
Spare parts

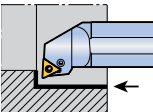
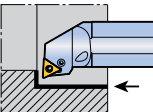
Designation	Lever 	Screw 	Shim 	Shim pin 	Snap ring 	Wrench 		
...1304	LCL 08B-NX	LCS 3B	-	-	LSR 3B	L-W 2		
...32S...1304	LCL 08-NX	LCS 3-NX	LST 2.51.8B	LSP 3B	-	L-W 2.5		

S-HTUNR/L A-HTUNR/L

Boring Bar

Hook lever type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S16Q HTUNR/L 1304	16	15	180	25	11	20	TN... 1304... 
	S20Q HTUNR/L 1304	20	18	180	28	13	25	
	S25R HTUNR/L 1304	25	23	200	33	17	32	
	S32S HTUNR/L 1304	32	30	250	33	22	40	
93° 	A16Q HTUNR/L 1304	16	15	180	25	11	20	
	A20Q HTUNR/L 1304	20	18	180	28	13	25	
	A25R HTUNR/L 1304	25	23	200	33	17	32	
	A32S HTUNR/L 1304	32	30	250	33	22	40	

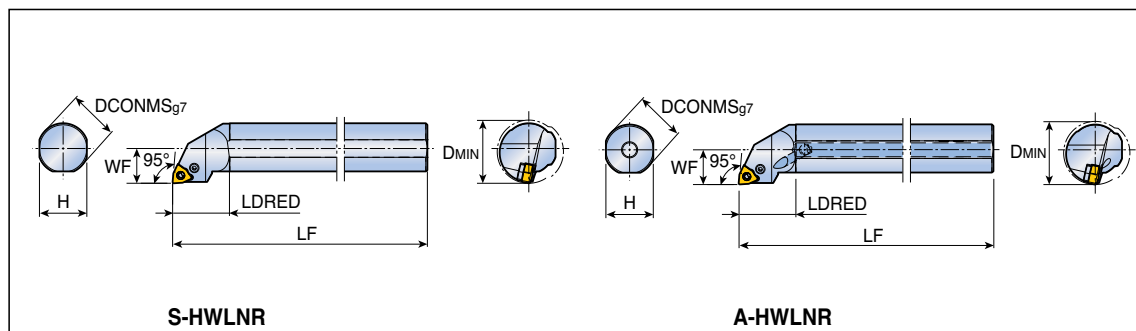
Spare parts

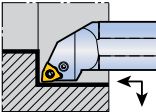
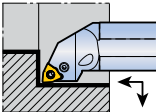
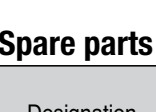
Designation	Lever 	Screw 	Shim 	Shim pin 	Snap ring 	Wrench 		
...1304	LCL 08B-NX	LCS 3B	-	-	LSR 3B	L-W 2		
...32S...1304	LCL 08-NX	LCS 3-NX	LST 2.51.8B	LSP 3B	-	L-W 2.5		

S-HWLNR/L A-HWLNR/L

Boring Bar

Hook lever type boring bars

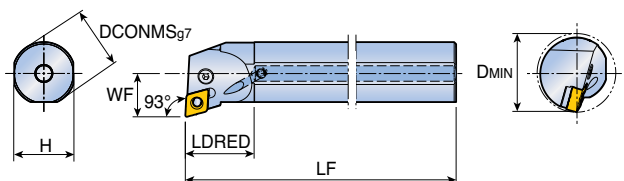


Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	S16Q HWLNR/L 0604	16	15	180	30	11	20	WN...X 0604... RHINO TURN
	S20Q HWLNR/L 0604	20	18	180	33	13	25	
	S25R HWLNR/L 0604	25	23	200	36	17	32	
	S32S HWLNR/L 0604	32	30	250	36	22	40	
95° 	A16Q HWLNR/L 0604	16	15	180	30	11	20	
	A20Q HWLNR/L 0604	20	18	180	33	13	25	
	A25R HWLNR/L 0604	25	23	200	36	17	32	
	A32S HWLNR/L 0604	32	30	250	36	22	40	
95° 								

Spare parts

Designation	Lever 	Screw 	Shim 	Shim pin 	Snap ring 	Wrench 		
...0604	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2		
...32S ...0604	LCL 09-NX	LCS 3	LSW 32	LSP 3A	-	L-W 2.5		

Hook lever type boring bars



A-HXUNR

[illegible]

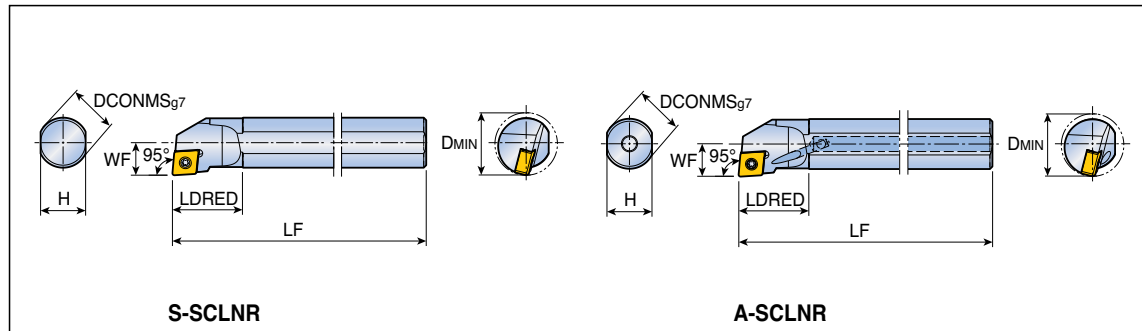
Spare parts

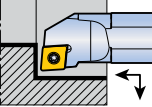
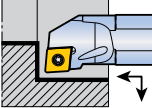
[illegible]

S-SCLNR/L A-SCLNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	S16Q SCLNR/L 0904	16	15	180	25	11	20	CN... 0904...
	S20Q SCLNR/L 0904	20	18	180	28	13	25	RHINO TURN
	S20Q SCLNR/L 0904-D20	20	18	180	40	11	20	
95° 	A12M SCLNR/L 0703	12	11	150	21.5	9	16	CNMX 0703...
	A16Q SCLNR/L 0703	16	15	180	24.5	11	20	RHINO TURN
	A16Q SCLNR/L 0904	16	15	180	25	11	20	CN... 0904...
	A20Q SCLNR/L 0904	20	18	180	28	13	25	RHINO TURN

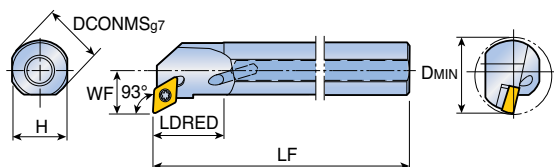
Spare parts

Designation	Screw 	Wrench 					
...0703	TS 25D060/HG-P	T 7P					
...0904	TS 35083I/HG	T 10					

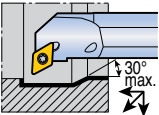
A-SDUNR/L

Boring Bar

Screw type boring bars



A-SDUNR

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93°	A12M SDUNR/L 0803	12	11	150	21.5	9	16	DN...X 0803...
	A16Q SDUNR/L 0803	16	15	180	24.5	11	20	RHINO TURN
								

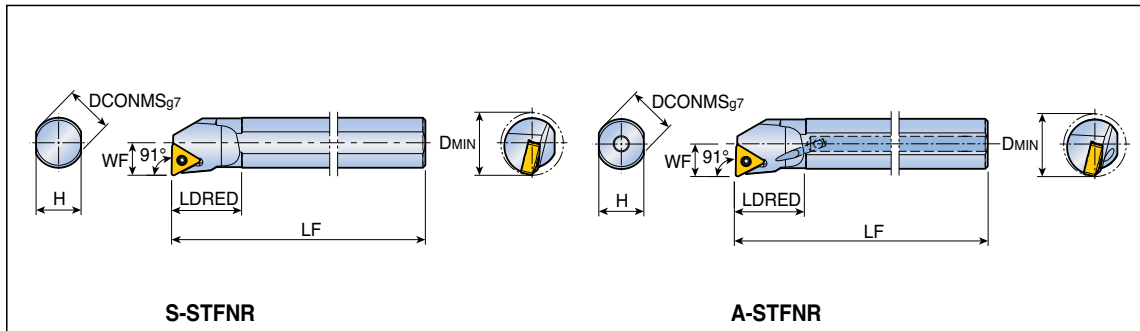
Spare parts

Designation	Screw	Wrench						
...0803	TS 25D060/HG-P	T 7P						

S-STFNR/L A-STFNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91° 	S16Q STFNR/L 1304	16	15	180	25	11	20	TN... 1304... <i>RHINO TURN</i>
	S20Q STFNR/L 1304	20	18	180	28	13	25	
91° 	A16Q STFNR/L 1304	16	15	180	25	11	20	
	A20Q STFNR/L 1304	20	18	180	28	13	25	

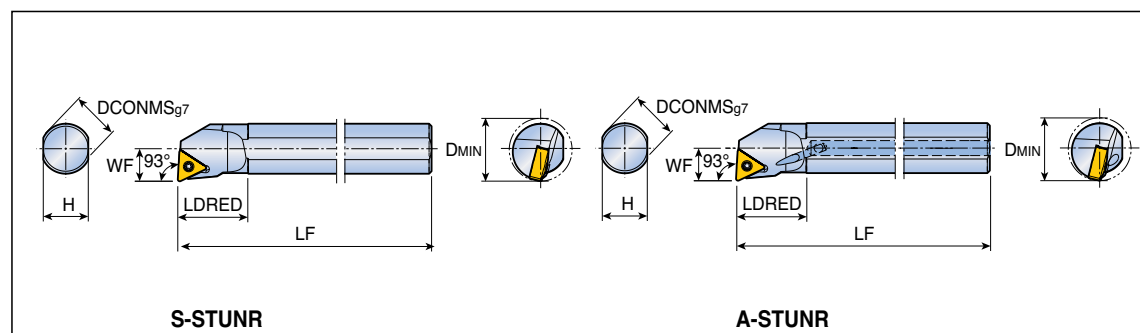
Spare parts

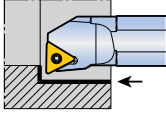
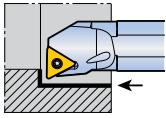
Designation	Screw 	Wrench 					
...1304	TS 30080I/HG	T 9					

S-STUNR/L A-STUNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S16Q STUNR/L 1304	16	15	180	25	11	20	TN... 1304... <i>RHINO</i> TURN
	S20Q STUNR/L 1304	20	18	180	28	13	25	
93° 	A16Q STUNR/L 1304	16	15	180	25	11	20	
	A20Q STUNR/L 1304	20	18	180	28	13	25	

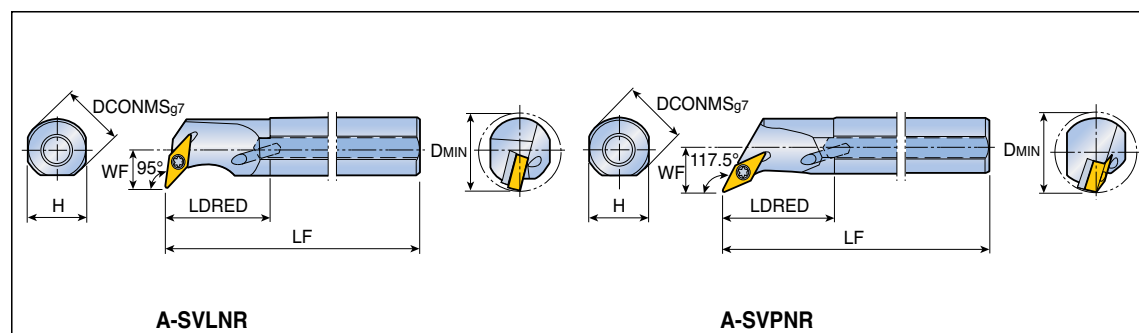
Spare parts

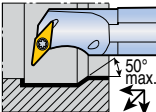
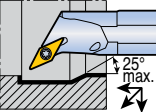
Designation	Screw 	Wrench 						
...1304	TS 30080I/HG	T 9						

A-SVLNR/L A-SVPNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	A25T SVLNR/L 1304	25	23	300	40	16	31	VN...X 1304...
	A32T SVLNR/L 1304	32	30	300	45	20	38	YNMG 1304...
								RHINO TURN
117.5° 	A25T SVPNR/L 1304	25	23	300	45	19	33	
	A32T SVPNR/L 1304	32	30	300	47	26	44	

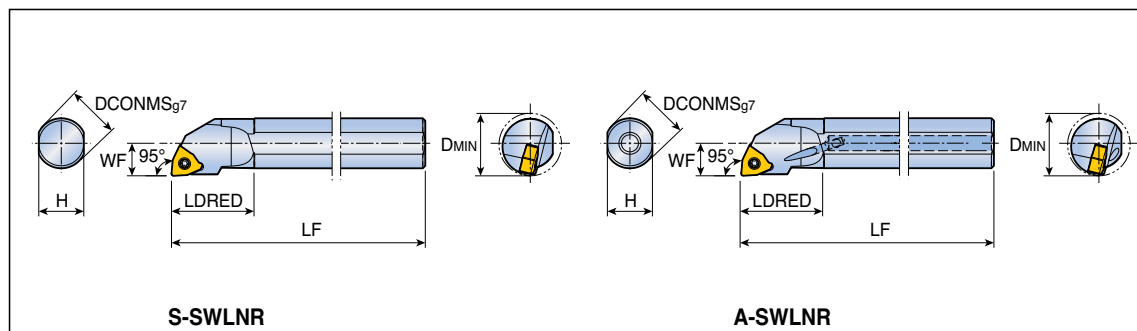
Spare parts

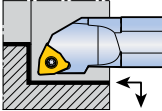
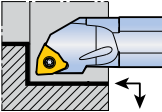
Designation	Screw	Shim	Shim screw	Wrench				
								
..1304	TS 30120I/HG	SSVN 2.523	TS 5030062S	T 9	L-W 3.5			

S-SWLNR/L A-SWLNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	S16Q SWLNR/L 0604	16	15	180	30	11	20	WN...X 0604...
	S20Q SWLNR/L 0604	20	18	180	33	13	25	RHINO TURN
95° 	A12M SWLNR/L 0403	12	11	150	21.5	9	16	WNMX 0403...
	A16Q SWLNR/L 0403	16	15	180	24.5	11	20	RHINO TURN
	A16Q SWLNR/L 0604	16	15	180	30	11	20	WNMX 0604..
	A20Q SWLNR/L 0604	20	18	180	33	13	25	RHINO TURN

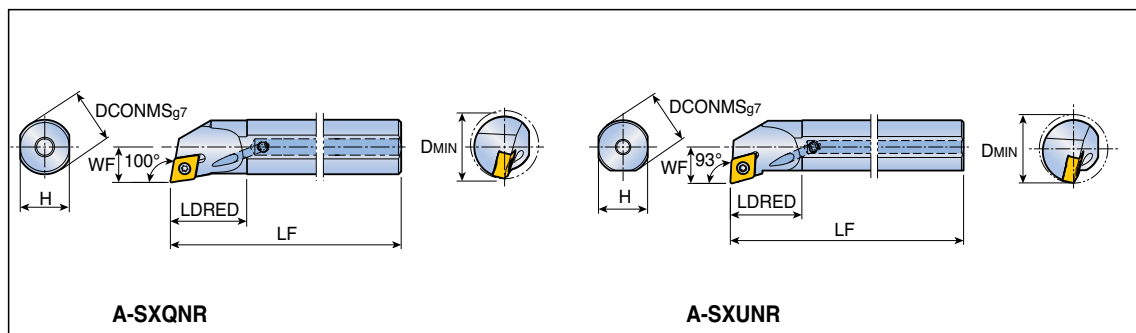
Spare parts

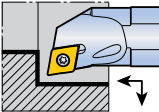
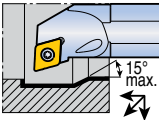
Designation	Screw 	Wrench 					
...0403	TS 25D060/HG-P	T 7P					
...0604	TS 350831/HG	T 10					

A-SXQNR/L A-SXUNR/L

Boring Bar

Screw type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
100° 	A16Q SXQNR/L 0904	16	15	180	24.5	11	20	XNMG 0904...
	A20Q SXQNR/L 0904	20	18	180	28	13	25	RHINOXTURN
	A20Q SXQNR/L 1105	20	18	180	28	13	25	XNMG 1105...
								RHINOXTURN
93° 	A25R SXUNR/L 1105	25	23	200	33.4	17	32	

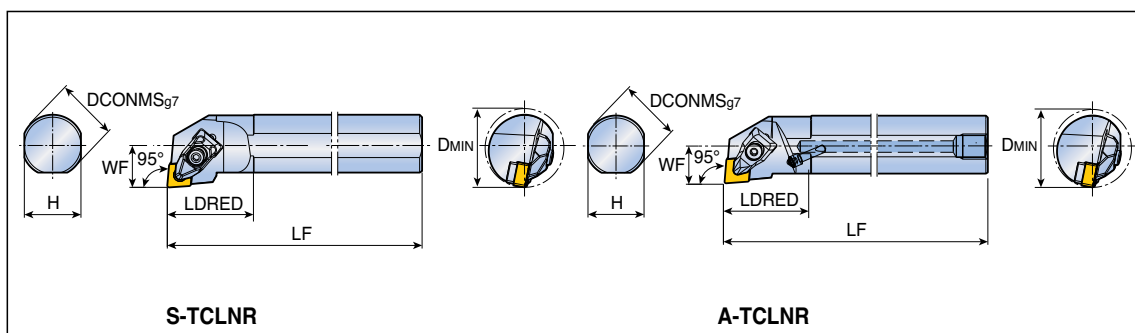
Spare parts

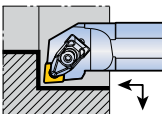
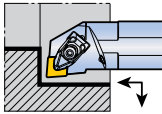
Designation	Screw 	Wrench 					
...0904	TS 30080I/HG	T 9					
...1105	TS 40G110I	T 15					

S-TCLNR/L A-TCLNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	S25R TCLNR/L 0904	25	23	200	35	17	32	CN... 0904... <i>RHINO TURN</i>
	S32S TCLNR/L 0904	32	30	250	35	22	40	
	S40T TCLNR/L 0904	40	37	300	45	27	50	
95° 	A25R TCLNR/L 0904	25	23	200	35	17	32	
	A32S TCLNR/L 0904	32	30	250	35	22	40	

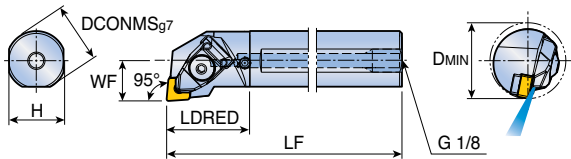
Spare parts

Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Nozzle 	Wrench 	
S25R ...0904	DLM 3-NX	DLS 3	DSP 3	LSC 32	SO 40073I	-	L-W 2.5	T 15
S32S, S40T...0904	DLM 3-NX	DLS 3	DSP 3	LSC 32	SO 40085I	-	L-W 2.5	T 15
A25R...0904	DLM 3-NX	DLS 3	DSP 3	LSC 32	SO 40073I	NZ 62	L-W 2.5	T 15
A32S...0904	DLM 3-NX	DLS 3	DSP 3	LSC 32	SO 40085I	NZ 62	L-W 2.5	T 15

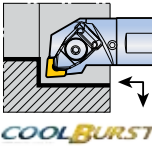
A-TCLNR/L-TB

Boring Bar

T-holder type boring bars with high pressure coolant



A-TCLNR-TB

Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	A25R TCLNR/L 0904-TB	25	23	200	35	17	32	CN... 0904...
	A32S TCLNR/L 0904-TB	32	30	250	35	22	40	RHINO TURN

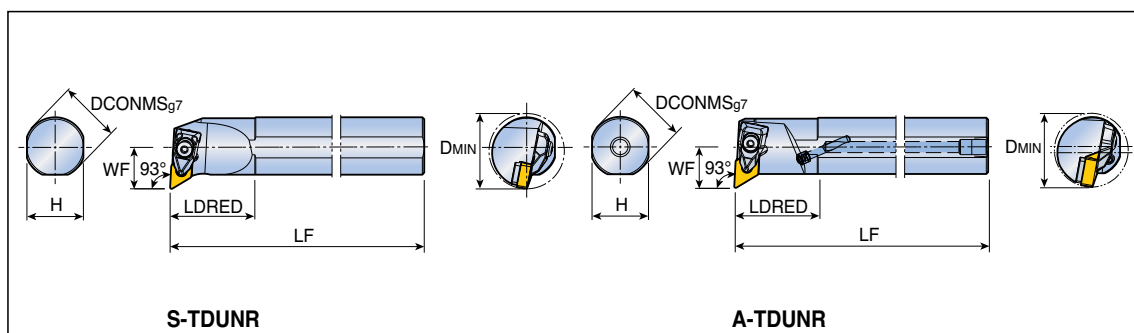
Spare parts

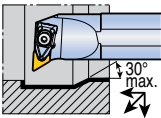
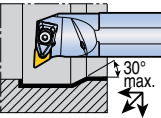
Designation	Clamp	Clamp screw	Spring	Upper O-ring	Lower O-ring	Shim	Shim screw	Wrench	
									
...0904-TB	DLM 3-NX-TB	BH M4x0.7x 16-TB	DSP 3	O-RING ID4.47x 1.78	O-RING ID6.07x 1.78	LSC 32	SO 40073I	L-W 3	T 15

S-TDUNR/L A-TDUNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S32S TDUNR/L 1305	32	30	250	45	22	40	DN... 1305... 
	S40T TDUNR/L 1305	40	37	300	55	27	50	
93° 	A32S TDUNR/L 1305	32	30	250	45	22	40	
	A40T TDUNR/L 1305	40	37	300	55	27	50	

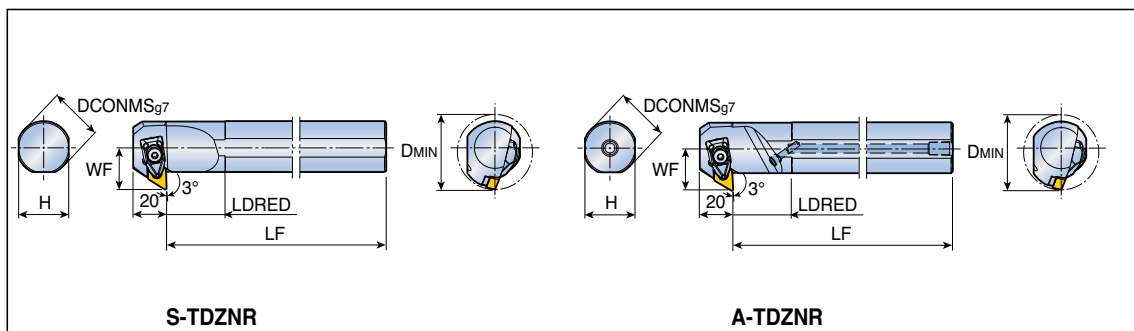
Spare parts

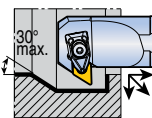
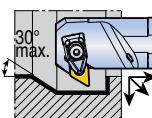
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
S ...1305								
A32S...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	-	L-W 3	T 20
A32S...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	NZ 62	L-W 3	T 20
A40T...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	NZ 104	L-W 3	T 20

S-TDZNR/L A-TDZNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S32S TDZNR/L 1305	32	30	250	35	25	45	DN... 1305... RHINO TURN
	S40T TDZNR/L 1305	40	37	300	40	29	50	
93° 	A32S TDZNR/L 1305	32	30	250	35	25	45	
	A40T TDZNR/L 1305	40	37	300	40	29	50	

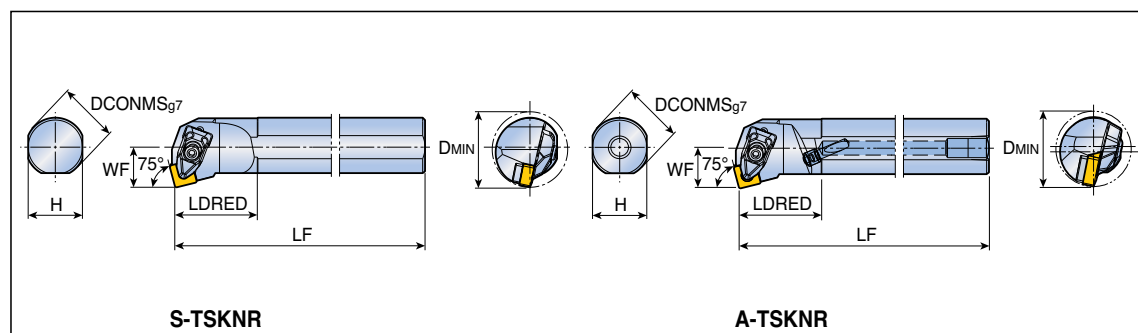
Spare parts

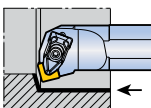
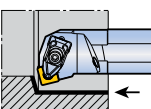
Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
S ...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	-	L-W 3	T 20
A32S...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	NZ 62	L-W 3	T 20
A40T ...1305	DLM 3.5-NX	DLS 4	DSP 4	LSD 3.52B	TS 50A105I	NZ 104	L-W 3	T 20

S-TSKNR/L A-TSKNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
75° 	S25R TSKNR/L 0904	25	23	200	35	17	32	SN... 0904... RHINO TURN
	S32S TSKNR/L 0904	32	30	250	35	22	40	
75° 	A25R TSKNR/L 0904	25	23	200	35	17	32	
	A32S TSKNR/L 0904	32	30	250	35	22	40	

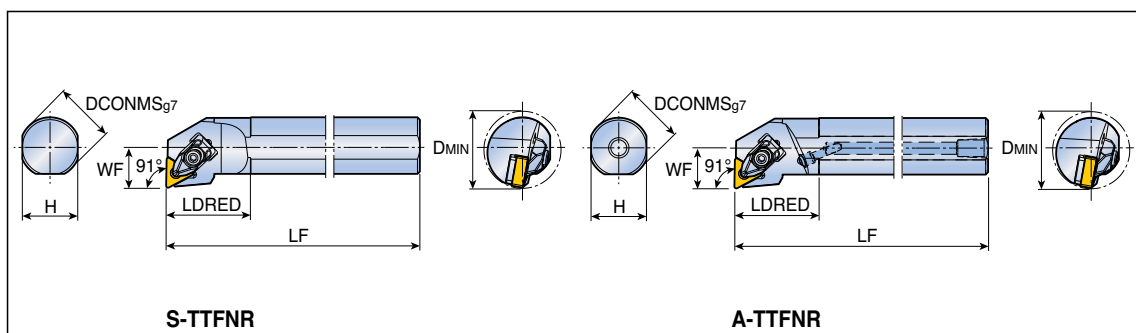
Spare parts

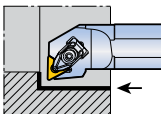
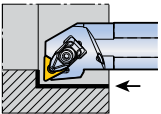
Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Nozzle 	Wrench 	
S25R...0904	DLM 3.5-NX	DLS 3	DSP 3	LSS 32	SO 40073I	-	L-W 2.5	T 15
S32S...0904	DLM 3.5-NX	DLS 3	DSP 3	LSS 32	SO 40085I	-	L-W 2.5	T 15
A25R...0904	DLM 3.5-NX	DLS 3	DSP 3	LSS 32	SO 40073I	NZ 62	L-W 2.5	T 15
A32S...0904	DLM 3.5-NX	DLS 3	DSP 3	LSS 32	SO 40085I	NZ 62	L-W 2.5	T 15

S-TTFNR/L A-TTFNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
91° 	S25R TTFNR/L 1304	25	23	200	35	17	32	TN... 1304... RHINO TURN
	S32S TTFNR/L 1304	32	30	250	35	22	40	
91° 	A25R TTFNR/L 1304	25	23	200	35	17	32	
	A32S TTFNR/L 1304	32	30	250	35	22	40	

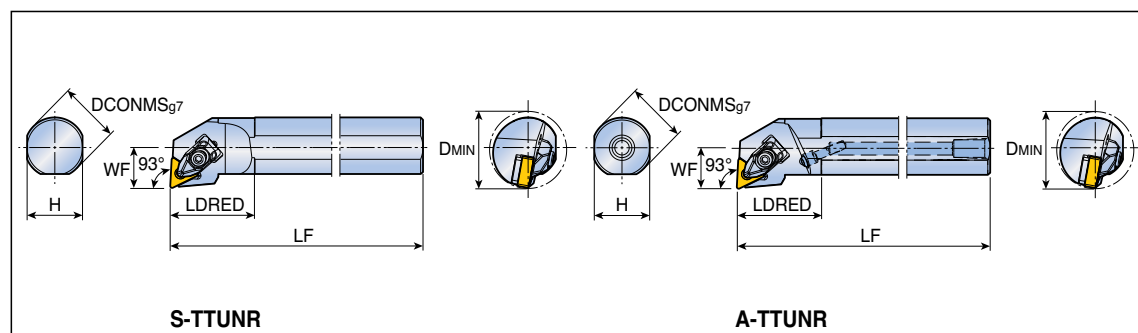
Spare parts

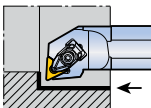
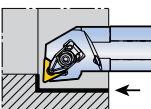
Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Nozzle 	Wrench 	
S25R...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40073I	-	L-W 2.5	T 15
S32S...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40085I	-	L-W 2.5	T 15
A25R...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40073I	NZ 62	L-W 2.5	T 15
A32S...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40085I	NZ 62	L-W 2.5	T 15

S-TTUNR/L A-TTUNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
93° 	S25R TTUNR/L 1304	25	23	200	35	17	32	TN... 1304... 
	S32S TTUNR/L 1304	32	30	250	35	22	40	
93° 	A25R TTUNR/L 1304	25	23	200	35	17	32	
	A32S TTUNR/L 1304	32	30	250	35	22	40	

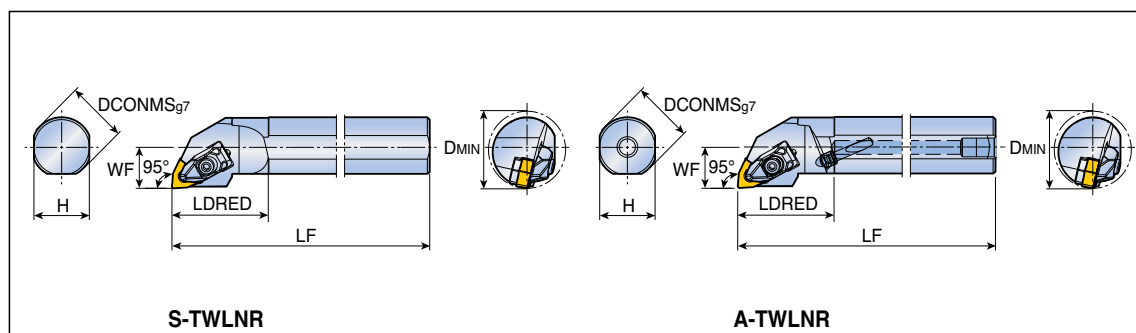
Spare parts

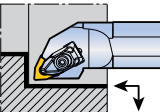
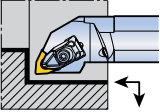
Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Nozzle 	Wrench 	
S25R...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40073I	-	L-W 2.5	T 15
S32S...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40085I	-	L-W 2.5	T 15
A25R...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40073I	NZ 62	L-W 2.5	T 15
A32S...1304	DLM 2.5-NX	DLS 3	DSP 3	LST 2.52B	SO 40085I	NZ 62	L-W 2.5	T 15

S-TWLNR/L A-TWLNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
95° 	S25R TWLNR/L 0604	25	23	200	40	17	32	WN...X 0604... <i>RHINO TURN</i>
	S32S TWLNR/L 0604	32	30	250	45	22	40	
95° 	A25R TWLNR/L 0604	25	23	200	40	17	32	
	A32S TWLNR/L 0604	32	30	250	45	22	40	

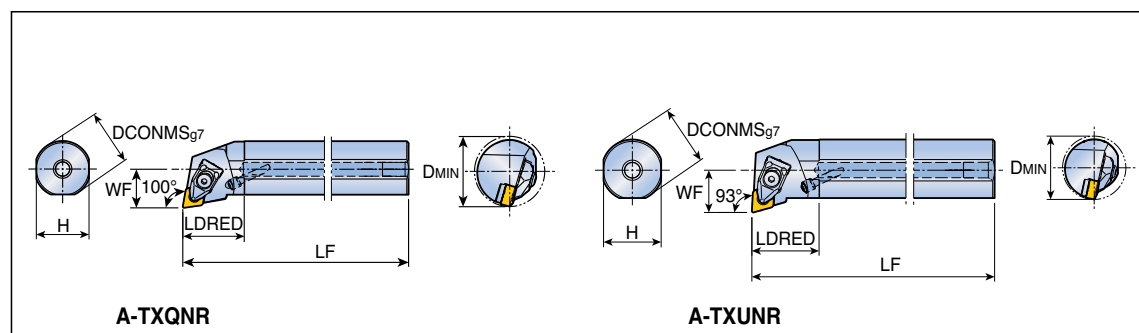
Spare parts

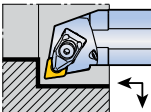
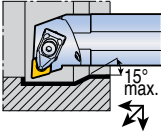
Designation	Clamp 	Clamp screw 	Spring 	Shim 	Shim screw 	Nozzle 	Wrench 	
S25R...0604	DLM 3-NX	DLS 3	DSP 3	LSW 32	SO 40073I	-	L-W 2.5	T 15
S32S...0604	DLM 3-NX	DLS 3	DSP 3	LSW 32	SO 40085I	-	L-W 2.5	T 15
A25R...0604	DLM 3-NX	DLS 3	DSP 3	LSW 32	SO 40073I	NZ 62	L-W 2.5	T 15
A32S...0604	DLM 3-NX	DLS 3	DSP 3	LSW 32	SO 40085I	NZ 62	L-W 2.5	T 15

A-TXQNR/L A-TXUNR/L

Boring Bar

T-holder type boring bars



Approach angle	Designation	Dimension (mm)						Insert
		DCONMS	H	LF	LDRED	WF	DMIN	
100° 	A25R TXQNR/L 1105	25	23	200	33.4	17	32	XNMG 1105... 
	A32S TXQNR/L 1105	32	30	250	35	22	40	
93° 	A32S TXUNR/L 1105	32	30	250	35	22	40	

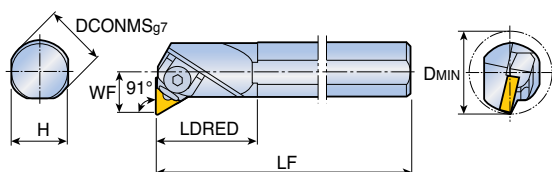
Spare parts

Designation	Clamp	Clamp screw	Spring	Shim	Shim screw	Nozzle	Wrench	
								
A25R...1105	DLM 3.5-NX	DLS 4	DSP 4	-	-	NZ 62	L-W 3	-
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

Boring Bar

Wedge clamp type boring bars



S-WTFNR

[illegible]

Spare parts

[illegible]



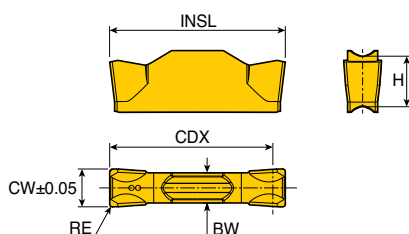
***RHINO**GROOVE*



TaeguTec
Member IMC Group

RDC

Double-ended inserts for shallow grooving and parting with “C” type chip breaker



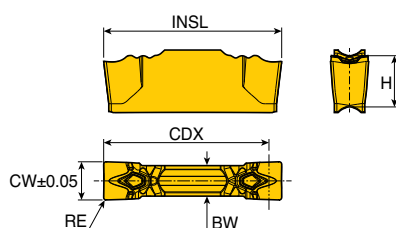
Size	Dimension (mm)					
	CW	RE	BW	INSL	H	CDX
2	2.0	0.20	1.7	14.0	4.0	13
3	3.0	0.20	2.4	14.0	4.0	13
4	4.0	0.30	3.0	14.0	4.0	13
5	5.0	0.30	4.0	17.5	5.1	17

Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT7220	TT8020
	RDC 2	2	0.05-0.18	●	●	●
	3	3	0.07-0.25	●	●	●
	4	4	0.08-0.30	●	●	●
	5	5	0.09-0.35	●	●	●

● : Standard items

RDJ

Double-ended inserts for shallow grooving and parting with “J” type chip breaker



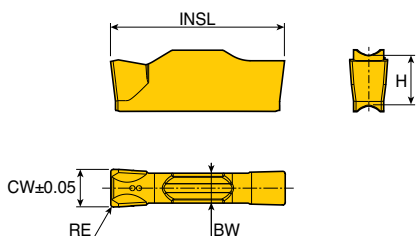
Size	Dimension (mm)					
	CW	RE	BW	INSL	H	CDX
2	2.0	0.20	1.7	14.0	4.0	13
3	3.0	0.20	2.4	14.0	4.0	13
4	4.0	0.30	3.0	14.0	4.0	13
5	5.0	0.30	4.0	17.5	5.2	17

Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT7220	TT8020
	RDJ 2	2	0.04-0.12	●	●	●
	3	3	0.04-0.16	●	●	●
	4	4	0.05-0.18	●	●	●
	5	5	0.05-0.20	●	●	●

● : Standard items

RSC

Single-ended inserts for deep grooving and parting with “C” type chip breaker



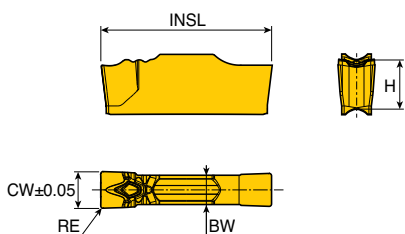
Size	Dimension (mm)				
	CW	RE	BW	INSL	H
2	2.0	0.20	1.6	14.0	4.0
3	3.0	0.20	2.4	14.0	4.0
4	4.0	0.30	3.0	14.0	4.0
5	5.0	0.30	4.0	17.5	5.1

Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT7220	TT8020
	RSC 2	2	0.05-0.18	●	●	●
	3	3	0.07-0.25	●	●	●
	4	4	0.08-0.30	●	●	●
	5	5	0.09-0.35	●	●	●

● : Standard items

RSJ

Single-ended inserts for deep grooving and parting with “J” type chip breaker



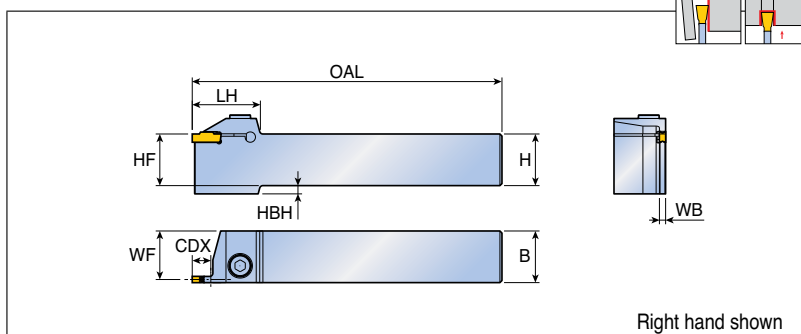
Size	Dimension (mm)				
	CW	RE	BW	INSL	H
2	2.0	0.20	1.6	14.0	4.0
3	3.0	0.20	2.4	14.0	4.0
4	4.0	0.30	3.0	14.0	4.0
5	5.0	0.30	4.0	17.5	5.1

Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT7220	TT8020
	RSJ 2	2	0.04-0.12	●	●	●
	3	3	0.04-0.16	●	●	●
	4	4	0.05-0.18	●	●	●
	5	5	0.05-0.20	●	●	●

● : Standard items

RGER/L

External shallow grooving and parting



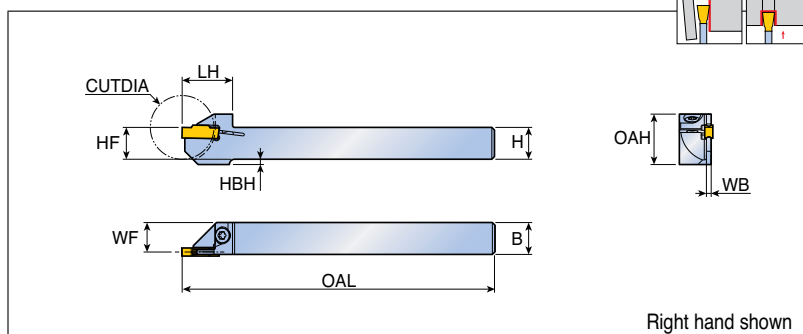
Designation	Insert seat size	Dimension (mm)								Torque (N.m)	Insert
		H(HF)	B	OAL	WF	LH	WB	HBH	CDX		
RGER/L 1616-2T16	2	16	16	110	15.1	35	1.8	4	16	8.0	RDC/J RSC/J
2020-2T16	2	20	20	125	19.1	35	1.8	-	16	8.0	
2525-2T16	2	25	25	150	24.1	35	1.8	-	16	8.0	
1616-3T16	3	16	16	110	14.8	35	2.4	4	16	8.0	
2020-3T16	3	20	20	125	18.8	35	2.4	-	16	8.0	
2525-3T16	3	25	25	150	23.8	35	2.4	-	16	8.0	
2020-4T16	4	20	20	125	18.5	35	3.0	-	16	8.0	
2525-4T16	4	25	25	150	23.5	35	3.0	-	16	8.0	
2020-5T20	5	20	20	125	18.1	37	3.85	-	20	8.0	
2525-5T20	5	25	25	150	23.1	37	3.85	-	20	8.0	

Spare parts

Designation	Screw	Wrench		
				
RGER/L 16/20	SH M6x1x20	L-W 5		
RGER/L 25	SH M6x1x25	L-W 5		

RGER/L-SH

External shallow grooving and parting for swiss type lathe

[illegible]

Spare parts

[illegible]



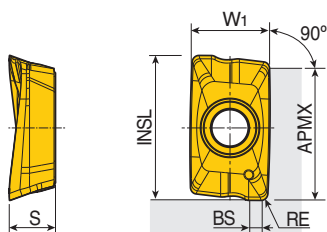
RHINO MILL



TaeguTec
Member IMC Group

APKT 1604

Inserts



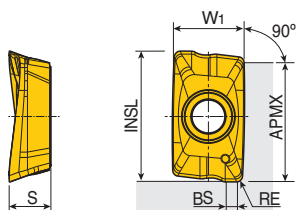
Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
1604-REM	17.3	9.5	5.26	15	1.5	0.8
1604-RRE	17.3	9.6	5.56	15	1.5	0.8

Insert	Designation	Recommended Machining conditions		Coated									
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT6080	TT7080				
	APKT 1604-REM	3.0 - 14.5	0.18 - 0.10	●		●	●	●	●				
	APKT 1604-RRE *	3.0 - 14.5	0.20 - 0.12	●		●	●	●	●				

- -REM: RHINO medium geometry
 - -RRE: RHINO reinforced medium geometry
 - *: Reinforced design, higher thickness and helix angle for smooth machining and higher productivity.
- : Standard items

AXMT 0903

Inserts



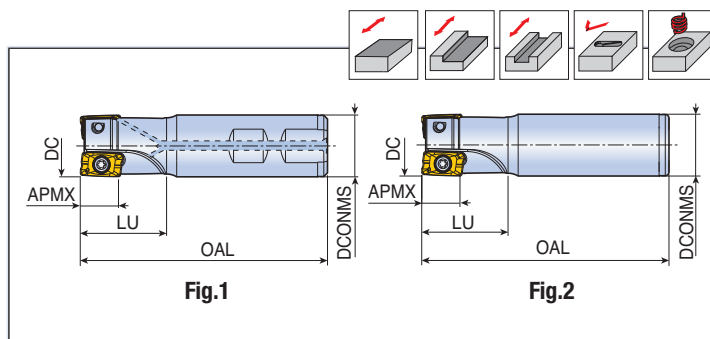
Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
09	10.7	6.3	3.6	8.8	0.8	0.4

Insert	Designation	Recommended Machining conditions		Coated									
		ap (mm)	Feed (mm/tooth)	TT9080									
	AXMT 0903-REM	2.0 - 8.0	0.18 - 0.10	●									

- -REM: RHINO medium geometry
 - AXMT 09 inserts are mounted on existing APKT 09 cutters.
2S TFM90...-09 2S TE90...-09 2S TE90...M...-09
- : Standard items

TE90AP-16

End mills

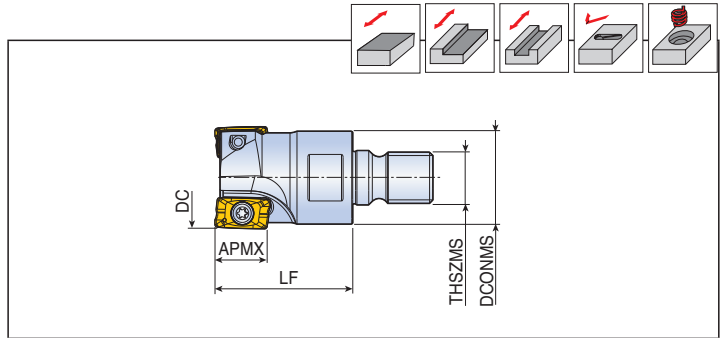


Designation		Dimension (mm)					Coolant Hole	Fig.	Kg	Insert
		DC	DCONMS	OAL	LU	APMX				
TE90AP 120-W20-16-L90	1	20	20	90	32	15	x	1	0.19	APKT 1604...
120-W20-16-L90-C	1	20	20	90	32	15	○	1	0.18	
225-24-16-L100	2	25	24	100	40	15	x	2	0.30	
225-W25-16-L100	2	25	25	100	39	15	x	1	0.32	
225-W25-16-L100-C	2	25	25	100	39	15	○	1	0.30	
225-25-16-L210	2	25	25	210	40	15	x	2	0.75	
226-25-16-L200	2	26	25	200	40	15	x	2	0.72	
226-25-16-L250	2	26	25	250	40	15	x	2	0.90	
232-32-16-L250	2	32	32	250	65	15	x	2	1.46	
332-W32-16-L110	3	32	32	110	40	15	x	1	0.59	
332-W32-16-L110-C	3	32	32	110	40	15	○	1	0.58	
332-W32-16-L200	3	32	32	200	65	15	x	1	1.12	
332-32-16-L200	3	32	32	200	65	15	x	2	1.13	
233-32-16-L200	2	33	32	200	40	15	x	2	1.18	
233-32-16-L250	2	33	32	250	40	15	x	2	1.50	
233-32-16-L300	2	33	32	300	40	15	x	2	1.81	
333-32-16-L250	3	33	32	250	55	15	x	2	1.46	
240-32-16-L250	2	40	32	250	54	15	x	2	1.61	
340-32-16-L200	3	40	32	200	54	15	x	2	1.27	
440-W32-16-L115	4	40	32	115	32	15	x	1	0.69	
440-W32-16-L115-C	4	40	32	115	32	15	○	1	0.68	
440-32-16-L200	4	40	32	200	54	15	x	2	1.26	
442-W32-16	4	42	32	115	32	15	x	1	0.74	

Spare parts

Designation	Screw	Wrench			
TE90AP-16 (-Ø25)	TS 40080I	TD15			
TE90AP-16 (Ø26-Ø42)	TS 40093I	TD15			

Modular heads

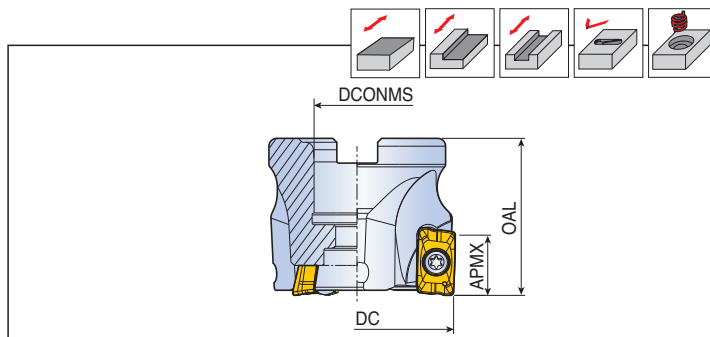
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Spare parts

Designation	Screw	Wrench			
					
TE90AP-16 (-Ø25)	TS 40080I	TD15			
TE90AP-16 (Ø32-Ø40)	TS 40093I	TD15			

TFM90AP-16

Face mills



Designation		Dimension (mm)				Arbor style	Kg	Arbor style	Insert
		DC	DCONMS	OAL	APMX				
TFM90AP 340-16R-16	3	40	16	40	15	A	0.2	SH M8x1.25x30	APKT 1604...
440-16R-16	4	40	16	40	15	A	0.2	SH M8x1.25x30	
350-22R-16	3	50	22	40	15	A	0.3	SH M10x1.5x30	
450-22R-16	4	50	22	40	15	A	0.3	SH M10x1.5x30	
550-22R-16	5	50	22	40	15	A	0.3	SH M10x1.5x30	
550-27R-16	5	50	27	50	15	A	0.4	SH M12x1.75x35	
463-22R-16	4	63	22	40	15	A	0.4	SH M10x1.5x30	
663-22R-16	6	63	22	40	15	A	0.5	SH M10x1.5x30	
663-27R-16	6	63	27	50	15	A	0.7	SH M12x1.75x35	
480-27R-16	4	80	27	50	15	A	1.0	SH M12x1.75x35	
580-27R-16	5	80	27	50	15	A	0.9	SH M12x1.75x35	
680-27R-16	6	80	27	50	15	A	1.0	SH M12x1.75x35	
780-27R-16	7	80	27	50	15	A	1.0	SH M12x1.75x35	
6100-32R-16	6	100	32	50	15	B	1.6	-	
8100-32R-16	8	100	32	50	15	B	1.6	-	
7125-40R-16	7	125	40	63	15	B	2.7	-	
8125-40R-16	8	125	40	63	15	B	2.7	-	
9125-40R-16	9	125	40	63	15	B	2.7	-	
8160-40R-16	8	160	40	63	15	C	4.1	-	

Spare parts

Designation	Screw	Wrench			
TFM90AP-16 (Ø40, Ø50, Ø63)	TS 40093I	T-T15			
TFM90AP-16 (Ø80-)	TS 40120I	T-T15			



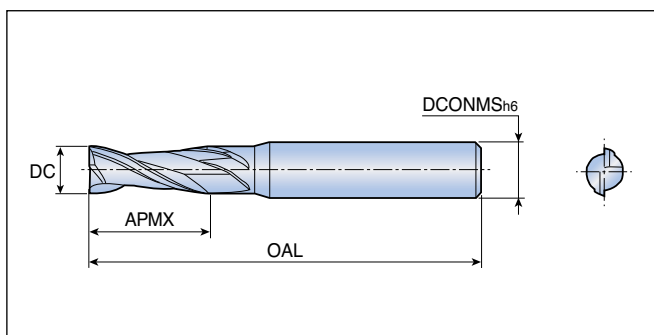
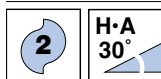
***RHINO**SOLID*



TaeguTec
Member IMC Group

RTSE 2...M

2 flute medium flat

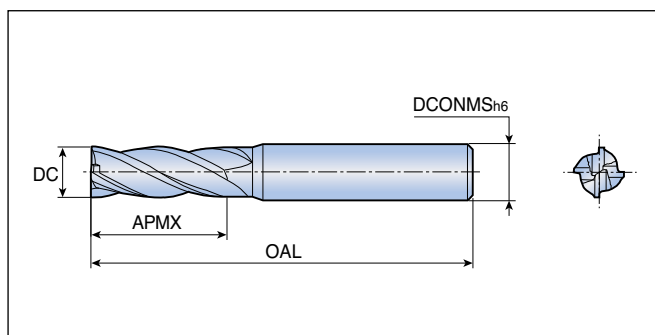
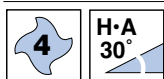


Designation	Feed (mm/tooth)	Dimension (mm)				Grade TT5525
		DC	OAL	APMX	DCONMS	
RTSE 2010M	0.008 - 0.030	1.0	42	3	6	●
2015M	0.008 - 0.030	1.5	42	4	6	●
2020M	0.010 - 0.030	2.0	42	6	6	●
2025M	0.010 - 0.030	2.5	42	8	6	●
2030M	0.010 - 0.030	3.0	57	10	6	●
2035M	0.010 - 0.030	3.5	47	10	6	●
2040M	0.010 - 0.050	4.0	57	12	6	●
2045M	0.010 - 0.050	4.5	57	14	6	●
2050M	0.015 - 0.060	5.0	57	14	6	●
2055M	0.015 - 0.060	5.5	57	16	6	●
2060M	0.020 - 0.060	6.0	57	16	6	●
2065M	0.020 - 0.060	6.5	60	20	8	●
2070M	0.030 - 0.070	7.0	60	20	8	●
2075M	0.030 - 0.080	7.5	63	20	8	●
2080M	0.030 - 0.100	8.0	63	20	8	●
2085M	0.030 - 0.100	8.5	72	22	10	●
2090M	0.030 - 0.100	9.0	68	25	10	●
2095M	0.030 - 0.100	9.5	72	24	10	●
2100M	0.030 - 0.120	10.0	72	22	10	●
2105M	0.030 - 0.120	10.5	76	26	12	●
2110M	0.030 - 0.120	11.0	76	30	12	●
2115M	0.030 - 0.120	11.5	83	30	12	●
2120M(30x76)	0.030 - 0.120	12.0	76	30	12	●
2120M	0.030 - 0.120	12.0	83	25	12	●
2130M	0.030 - 0.132	13.0	85	35	14	●
2140M	0.040 - 0.140	14.0	85	35	16	●
2150M	0.040 - 0.140	15.0	92	32	16	●
2160M	0.040 - 0.140	16.0	92	32	16	●
2160M(40x92)	0.040 - 0.140	16.0	92	40	16	●
2180M	0.040 - 0.140	18.0	110	45	20	●
2200M	0.040 - 0.140	20.0	104	38	20	●
2250M	0.050 - 0.146	25.0	120	50	25	●

● : Standard items

RTSE 4...M

4 flute medium flat

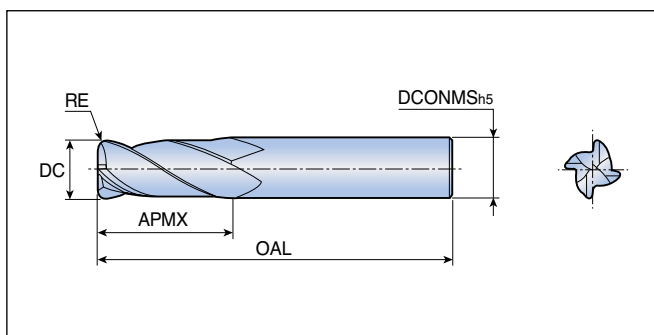
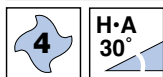


Designation	Feed (mm/tooth)	Dimension (mm)				Grade TT5525
		DC	OAL	APMX	DCONMS	
RTSE 4010M	0.005 - 0.010	1.0	42	2.5	6	●
4015M	0.005 - 0.012	1.5	42	4	6	●
4020M	0.008 - 0.017	2.0	42	6	6	●
4025M	0.008 - 0.017	2.5	42	8	6	●
4030M	0.009 - 0.020	3.0	57	10	6	●
4035M	0.010 - 0.028	3.5	47	10	6	●
4040M	0.010 - 0.042	4.0	57	12	6	●
4045M	0.010 - 0.042	4.5	57	14	6	●
4050M	0.020 - 0.059	5.0	57	14	6	●
4055M	0.020 - 0.059	5.5	57	14	6	●
4060M	0.020 - 0.075	6.0	57	16	6	●
4065M	0.020 - 0.075	6.5	60	20	8	●
4070M	0.020 - 0.075	7.0	60	20	8	●
4075M	0.020 - 0.075	7.5	60	20	8	●
4080M	0.030 - 0.100	8.0	63	20	8	●
4085M	0.030 - 0.100	8.5	68	25	10	●
4090M	0.030 - 0.100	9.0	68	25	10	●
4095M	0.030 - 0.100	9.5	68	25	10	●
4100M	0.030 - 0.120	10.0	72	22	10	●
4105M	0.030 - 0.120	10.5	76	30	12	●
4110M	0.030 - 0.120	11.0	76	30	12	●
4115M	0.030 - 0.120	11.5	76	30	12	●
4120M	0.030 - 0.136	12.0	83	25	12	●
4130M	0.030 - 0.136	13.0	85	35	14	●
4140M	0.030 - 0.136	14.0	85	35	16	●
4150M	0.040 - 0.140	15.0	92	32	16	●
4160M	0.040 - 0.146	16.0	92	32	16	●
4180M	0.040 - 0.146	18.0	110	45	20	●
4200M	0.050 - 0.146	20.0	104	38	20	●
4250M	0.050 - 0.146	25.0	140	65	25	●

● : Standard items

RHES 4...T-R

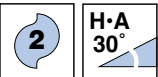
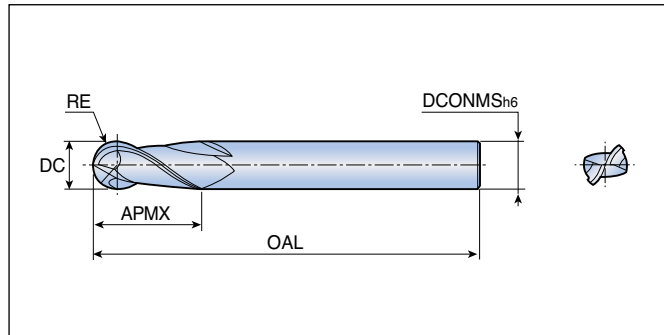
4 flute medium corner radius



Designation	Feed (mm/tooth)	Dimension (mm)					Grade TT5525
		DC	RE	OAL	APMX	DCONMS	
RHES 4030T-R0.3	0.01 - 0.04	3	0.3	47	10	6	●
4030T-R0.5	0.01 - 0.04	3	0.5	47	10	6	●
4040T-R0.3	0.02 - 0.05	4	0.3	47	12	6	●
4040T-R0.5	0.02 - 0.05	4	0.5	47	12	6	●
4050T-R0.3	0.02 - 0.06	5	0.3	52	15	6	●
4050T-R0.5	0.02 - 0.06	5	0.5	52	15	6	●
4060T-R0.5	0.03 - 0.07	6	0.5	52	15	6	●
4060T-R1.0	0.03 - 0.07	6	1.0	52	15	6	●
4080T-R0.5	0.03 - 0.09	8	0.5	60	20	8	●
4080T-R1.0	0.03 - 0.09	8	1.0	60	20	8	●
4080T-R1.5	0.03 - 0.09	8	1.5	60	20	8	●
4080T-R2.0	0.03 - 0.09	8	2.0	60	20	8	●
4100T-R0.5	0.03 - 0.10	10	0.5	68	25	10	●
4100T-R1.0	0.03 - 0.10	10	1.0	68	25	10	●
4100T-R1.5	0.03 - 0.10	10	1.5	68	25	10	●
4100T-R2.0	0.03 - 0.10	10	2.0	68	25	10	●
4100T-R2.5	0.03 - 0.10	10	2.5	68	25	10	●
4100T-R3.0	0.03 - 0.10	10	3.0	68	25	10	●
4120T-R0.5	0.04 - 0.11	12	0.5	76	30	12	●
4120T-R1.0	0.04 - 0.11	12	1.0	76	30	12	●
4120T-R1.5	0.04 - 0.11	12	1.5	76	30	12	●
4120T-R2.0	0.04 - 0.11	12	2.0	76	30	12	●
4120T-R2.5	0.04 - 0.11	12	2.5	76	30	12	●
4120T-R3.0	0.04 - 0.11	12	3.0	76	30	12	●
4160T-R0.5	0.05 - 0.13	16	0.5	90	40	16	●
4160T-R1.0	0.05 - 0.13	16	1.0	90	40	16	●
4160T-R1.5	0.05 - 0.13	16	1.5	90	40	16	●
4160T-R2.0	0.05 - 0.13	16	2.0	90	40	16	●
4160T-R3.0	0.05 - 0.13	16	3.0	90	40	16	●
4200T-R0.5	0.05 - 0.13	20	0.5	110	45	20	●
4200T-R1.0	0.05 - 0.13	20	1.0	110	45	20	●
4200T-R1.5	0.05 - 0.13	20	1.5	110	45	20	●
4200T-R2.0	0.05 - 0.13	20	2.0	110	45	20	●
4200T-R3.0	0.05 - 0.13	20	3.0	110	45	20	●

● : Standard items

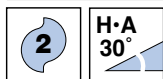
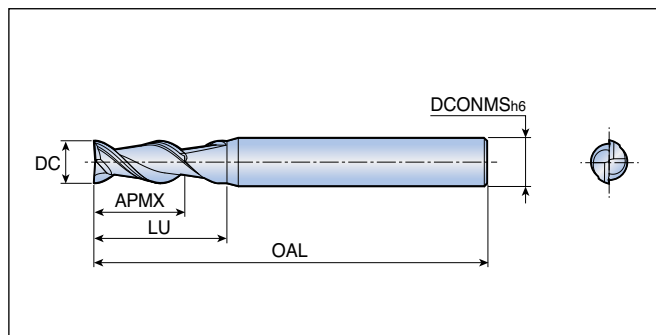
2 flute medium ball



● : Standard items

RAES 2

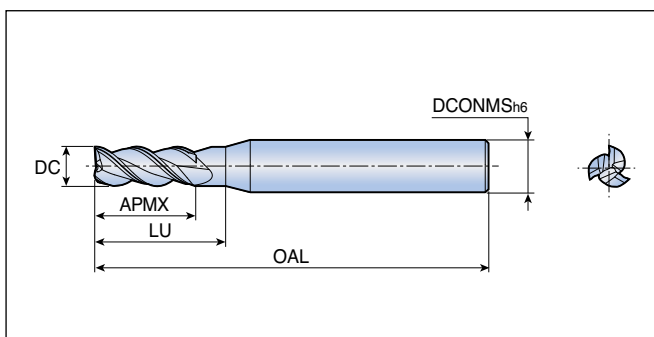
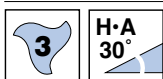
2 flute medium flat

[illegible]

● : Standard items

RAES 3

3 flute medium flat

[illegible]

● : Standard items





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- Cat.No: 6305606
- English Version: CT 06/2020
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