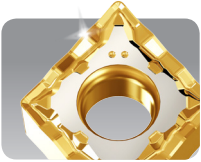


# RHINO LINE



RHINOTURN  
RHINOGROOVE  
RHINOMILL  
RHINOSOLID

# CONTENTS



## **RHINOTURN**

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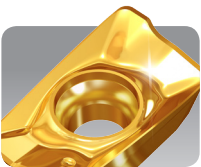
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## **RHINOGROOVE**

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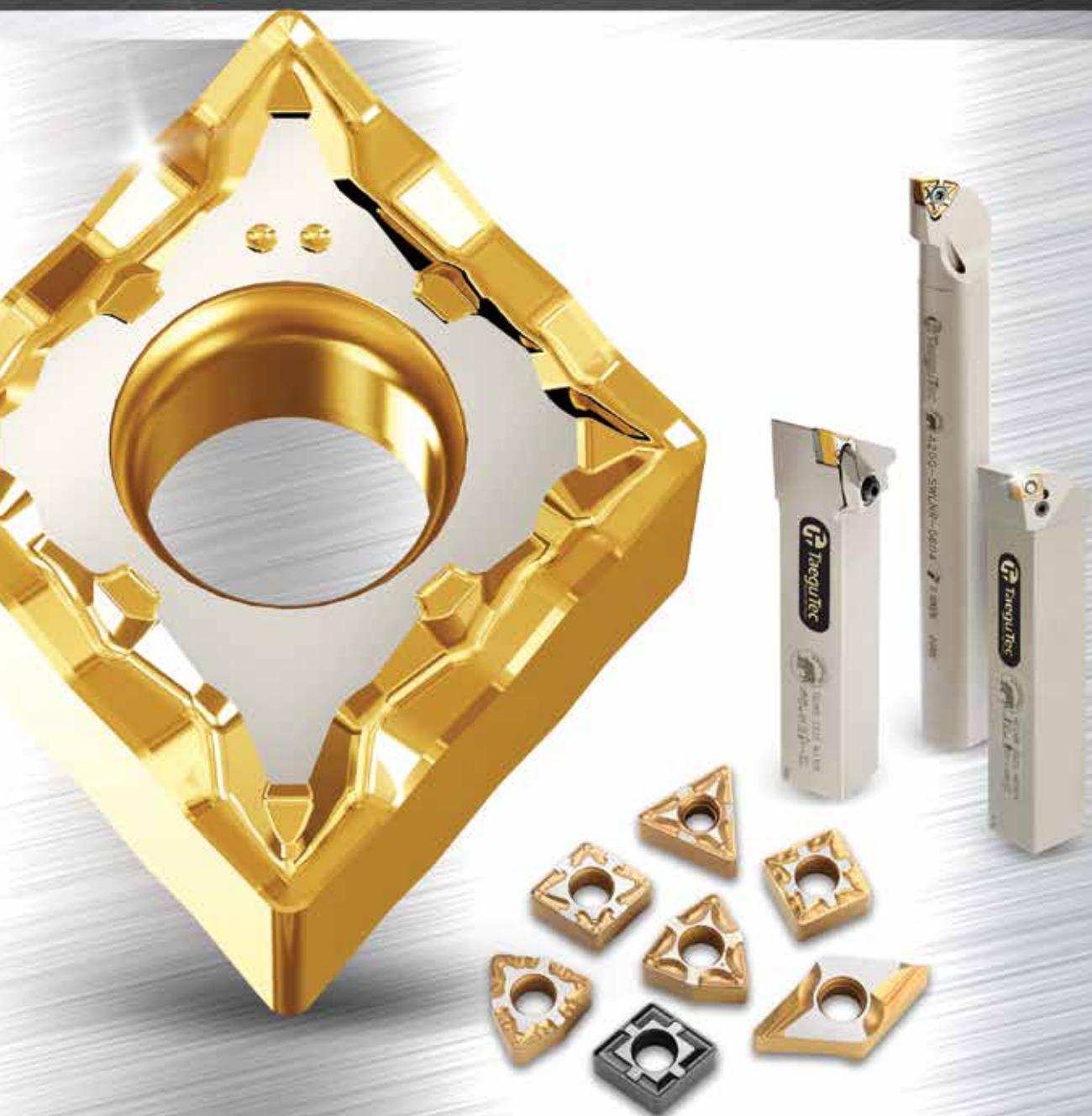
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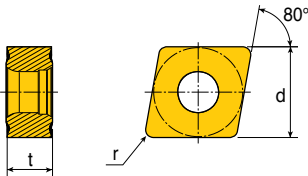
# RHINO TURN



# CNGG / CNMA / CNMG

Insert

Negative 80° rhombic inserts



Size	Dimension (mm)		
	d	t	r
09	9.52	4.76	0.1-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated		Uncoated
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	TT9080	
	<b>CNGG 090401 ML</b>	0.03 - 0.10	0.10 - 1.00														●	●
	<b>090402 ML</b>	0.05 - 0.15	0.20 - 1.20														●	●
	<b>090404 ML</b>	0.05 - 0.20	0.50 - 1.50														●	●
	<b>090408 ML</b>	0.08 - 0.25	0.50 - 1.50														●	●
	<b>CNMA 090408</b>	0.15 - 0.60	1.00 - 3.50			●	●											
	<b>090412</b>	0.15 - 0.70	1.00 - 3.50			●	●											
	<b>CNMG 090404</b>	0.10 - 0.45	0.50 - 3.00			●	●											
	<b>090408</b>	0.10 - 0.50	0.50 - 3.00			●	●											
	<b>090412</b>	0.10 - 0.55	0.50 - 3.00			●	●											
	<b>CNMG 090404 EA</b>	0.05 - 0.30	0.20 - 1.50									●	●	●	●	●	●	
	<b>090408 EA</b>	0.07 - 0.40	0.30 - 1.50									●	●	●	●	●	●	
	<b>CNMG 090408 EM</b>	0.13 - 0.40	0.50 - 3.00									●	●	●	●	●	●	
	<b>090412 EM</b>	0.15 - 0.40	0.70 - 3.00									●	●	●	●	●	●	
	<b>CNMG 090404 FG</b>	0.07 - 0.30	0.20 - 2.00						●	●	●							
	<b>090408 FG</b>	0.10 - 0.35	0.50 - 2.00						●	●	●							
	<b>090412 FG</b>	0.15 - 0.40	0.50 - 2.00						●	●	●							
	<b>CNMG 090404 FM</b>	0.07 - 0.30	0.25 - 2.00	○				●	●	●	●	●						
	<b>090408 FM</b>	0.10 - 0.35	0.30 - 2.00	○	○			●	●	●	●	●						
	<b>090412 FM</b>	0.15 - 0.40	0.35 - 2.00	○				●	●	●	●	●						
	<b>CNMG 090402 FS</b>	0.05 - 0.25	0.20 - 1.50	○	○				●	●								
	<b>090404 FS</b>	0.07 - 0.30	0.30 - 1.50	○	○				●	●								
	<b>090408 FS</b>	0.10 - 0.30	0.50 - 1.50	○	○				●	●								
	<b>CNMG 090404 FT</b>	0.07 - 0.30	0.40 - 3.00					●	●	●	●	●						
	<b>090408 FT</b>	0.10 - 0.40	0.50 - 3.00					●	●	●	●	●						
	<b>090412 FT</b>	0.15 - 0.50	0.60 - 3.00					●	●	●	●	●						

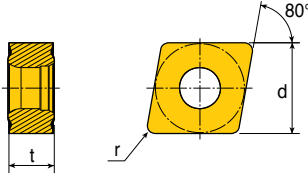
● : Standard Items  
○ : Semi Standard Items



# CNMG

# Insert

## Negative 80° rhombic inserts



Size	Dimension (mm)		
	d	t	r
09	9.52	4.76	0.4-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated		Uncoated			
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	TT9080		K10		
	<b>CNMG 090404 MK</b>	0.17 - 0.40	0.70 - 3.00														●	●	●	●	
	<b>090408 MK</b>	0.20 - 0.50	1.00 - 3.00															●	●	●	●
	<b>090412 MK</b>	0.23 - 0.50	1.50 - 3.00																●	●	●
	<b>CNMG 090404 MM</b>	0.15 - 0.45	0.40 - 3.00						●	●	●	●	●	●	●					●	
	<b>090408 MM</b>	0.20 - 0.50	0.50 - 3.00						●	●	●	●	●	●	●					●	
	<b>090412 MM</b>	0.23 - 0.50	0.70 - 3.00						●	●	●	●	●	●	●					●	
	<b>CNMG 090404 MT</b>	0.10 - 0.35	0.80 - 3.00						●	●	●	●	●								
	<b>090408 MT</b>	0.15 - 0.45	1.00 - 3.00						●	●	●	●	●					●	●		
	<b>090412 MT</b>	0.20 - 0.55	1.20 - 3.00						●	●	●	●	●								
	<b>CNMG 090404 PC</b>	0.10 - 0.30	0.40 - 3.00						●	●	●	●	●							●	
	<b>090408 PC</b>	0.15 - 0.40	0.50 - 3.00						●	●	●	●	●							●	
	<b>090412 PC</b>	0.18 - 0.50	0.60 - 3.00						●	●	●	●	●							●	
	<b>CNMG 090404 WA</b> ✘	0.08 - 0.25	0.25 - 2.50	○	○	○	○	●	●	●	●										
	<b>090408 WA</b> ✘	0.10 - 0.40	0.25 - 3.00	○	○	○	○	●	●	●	●										
	<b>090412 WA</b> ✘	0.20 - 0.50	0.40 - 3.00	○	○	○	○	●	●	●	●										

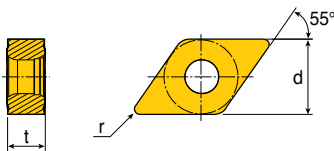
✘ Marked wiper inserts should be applied to □CLNR/L, □CBNR/L, □CKNR/L

●: Standard Items  
○: Semi Standard Items

# DNGG / DNMG

## Insert

### Negative 55° rhombic inserts



Size	Dimension (mm)		
	d	t	r
13	11.11	5.56	0.1-1.2

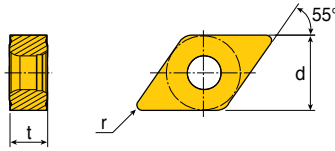
Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated								PVD coated		Uncoated	
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235		TT5080
	DNGG 130501 ML	0.03 - 0.10	0.10 - 1.00													●	●
	130502 ML	0.05 - 0.15	0.20 - 1.20													●	●
	130504 ML	0.05 - 0.20	0.50 - 1.50													●	●
	130508 ML	0.08 - 0.25	0.50 - 1.50													●	●
	DNMG 130504	0.10 - 0.45	0.50 - 3.50			●	●										
	130508	0.10 - 0.50	0.50 - 3.50			●	●										
	130512	0.10 - 0.55	0.50 - 3.50			●	●										
	DNMG 130504 EA	0.05 - 0.30	0.20 - 1.50									●	●	●	●	●	
	130508 EA	0.07 - 0.40	0.30 - 1.50									●	●	●	●	●	
	DNMG 130508 EM	0.13 - 0.40	0.50 - 3.00									●	●	●	●	●	
	130512 EM	0.15 - 0.40	0.70 - 3.00									●	●	●	●	●	
	DNMG 130504 FG	0.07 - 0.30	0.20 - 2.00					●	●	●							
	130508 FG	0.10 - 0.35	0.50 - 2.00					●	●	●							
	130512 FG	0.15 - 0.40	0.50 - 2.00					●	●	●							
	DNMG 130504 FM	0.07 - 0.30	0.25 - 2.00	○				●	●	●	●						
	130508 FM	0.10 - 0.35	0.30 - 2.00	○				●	●	●	●						
	130512 FM	0.15 - 0.40	0.35 - 2.00	○				●	●	●	●						
	DNMG 130502 FS	0.05 - 0.25	0.20 - 2.00	○	○			●	●								
	130504 FS	0.07 - 0.30	0.30 - 2.00	○	○			●	●								
	130508 FS	0.10 - 0.30	0.50 - 2.00	○	○			●	●								
	DNMG 130504 FT	0.07 - 0.30	0.25 - 3.00					●	●	●	●	●					
	130508 FT	0.10 - 0.40	0.30 - 3.00					●	●	●	●	●					
	130512 FT	0.15 - 0.50	0.35 - 3.00					●	●	●	●	●					
	DNMG 130504 MK	0.17 - 0.40	0.70 - 4.50									●	●	●	●		
	130508 MK	0.20 - 0.50	1.00 - 4.50									●	●	●	●		
	130512 MK	0.23 - 0.50	1.50 - 4.50									●	●	●	●		

● : Standard Items  
○ : Semi Standard Items

# DNMG / DNUX

Insert

## Negative 55° rhombic inserts



Size	Dimension (mm)		
	d	t	r
13	11.11	5.56	0.4-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated		Uncoated
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	TT9080	
	<b>DNMG 130504 MM</b>	0.15 - 0.45	0.40 - 4.00						●	●	●	●	●	●	●	●	●	
	<b>130508 MM</b>	0.20 - 0.50	0.50 - 4.00						●	●	●	●	●	●				
	<b>130512 MM</b>	0.23 - 0.50	0.70 - 4.00						●	●	●	●	●	●				
	<b>DNMG 130504 MT</b>	0.10 - 0.35	0.80 - 4.00					●	●	●	●	●						
	<b>130508 MT</b>	0.15 - 0.45	1.00 - 4.00					●	●	●	●	●						
	<b>130512 MT</b>	0.20 - 0.55	1.20 - 4.00					●	●	●	●	●						
	<b>DNMG 130504 PC</b>	0.10 - 0.30	0.40 - 3.50					●	●	●	●	●						
	<b>130508 PC</b>	0.15 - 0.40	0.50 - 3.50					●	●	●	●	●						
	<b>130512 PC</b>	0.18 - 0.50	0.60 - 3.50					●	●	●	●	●						
	<b>DNMG 130504 WA*</b>	0.08 - 0.25	0.25 - 2.50	○	○	○	○	●	●	●	●							
	<b>130508 WA*</b>	0.10 - 0.35	0.25 - 3.00	○	○	○	○	●	●	●	●							
	<b>130512 WA*</b>	0.15 - 0.45	0.40 - 3.50	○	○	○	○	●	●	●	●							
	<b>DNUX 130504 R11</b>	0.15 - 0.35	1.50 - 4.50						●	●	●		●			●		
	<b>130504 L11</b>	0.15 - 0.35	1.50 - 4.50						●	●	●		●			●		
	<b>130508 R11</b>	0.21 - 0.45	2.00 - 4.50						●	●	●		●			●		
	<b>130508 L11</b>	0.21 - 0.45	2.00 - 4.50						●	●	●		●			●		

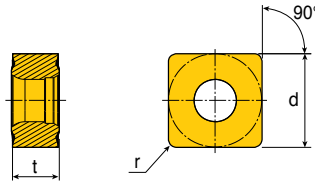
\* Marked wiper inserts should be applied to □DJNR/L, □DUNR/L, □DZNR/L

●: Standard Items  
○: Semi Standard Items

# SNMG

## Insert

### Negative 90° square inserts



Size	Dimension (mm)		
	d	t	r
09	9.52	4.76	0.4-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated								PVD coated		Uncoated	
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235		TT5080
	<b>SNMG 090404</b>	0.10 - 0.45	0.50 - 3.00			●	●		○	○							
	<b>090408</b>	0.10 - 0.50	0.50 - 3.00			●	●		○	○							
	<b>090412</b>	0.10 - 0.55	0.50 - 3.00			●	●			○							
	<b>SNMG 090404 EA</b>	0.05 - 0.30	0.20 - 1.50									●	●	●	●	●	
	<b>090408 EA</b>	0.07 - 0.40	0.30 - 1.50									●	●	●	●	●	
	<b>SNMG 090408 EM</b>	0.13 - 0.40	0.50 - 3.00									●	●	●	●	●	
	<b>090412 EM</b>	0.15 - 0.40	0.70 - 3.00									●	●	●	●	●	
	<b>SNMG 090404 FG</b>	0.07 - 0.30	0.20 - 2.00	●					●	●	●						
	<b>090408 FG</b>	0.10 - 0.35	0.50 - 2.00	●					●	●	●						
	<b>090412 FG</b>	0.15 - 0.40	0.50 - 2.00						●	●	●						
	<b>SNMG 090404 FM</b>	0.07 - 0.30	0.25 - 2.00	○					●	●	●	●	●				
	<b>090408 FM</b>	0.10 - 0.35	0.30 - 2.00	○	○				●	●	●	●	●				
	<b>090412 FM</b>	0.15 - 0.40	0.35 - 2.00	○					●	●	●	●	●				
	<b>SNMG 090404 MK</b>	0.17 - 0.40	0.70 - 3.00									●	●	●	●		
	<b>090408 MK</b>	0.02 - 0.50	1.00 - 3.00									●	●	●	●		
	<b>090412 MK</b>	0.23 - 0.50	1.50 - 3.00									●	●	●	●		
	<b>SNMG 090404 MM</b>	0.15 - 0.45	0.40 - 3.00						●	●	●	●	●	●	●		
	<b>090408 MM</b>	0.20 - 0.50	0.50 - 3.00						●	●	●	●	●	●	●	●	
	<b>090412 MM</b>	0.23 - 0.50	0.70 - 3.00						●	●	●	●	●	●	●		
	<b>SNMG 090404 MT</b>	0.10 - 0.35	0.80 - 3.00						●	●	●	●					
	<b>090408 MT</b>	0.15 - 0.45	1.00 - 3.00						●	●	●	●			●		
	<b>090412 MT</b>	0.20 - 0.55	1.20 - 3.00						●	●	●	●					
	<b>SNMG 090404 PC</b>	0.10 - 0.30	0.40 - 3.00						●	●	●	●					
	<b>090408 PC</b>	0.15 - 0.40	0.50 - 3.00						●	●	●	●					
	<b>090412 PC</b>	0.18 - 0.50	0.60 - 3.00						●	●	●	●					

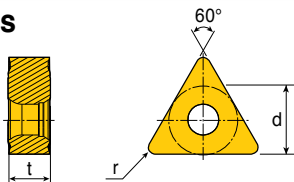
● : Standard Items  
○ : Semi Standard Items



# TNGG / TNMG

Insert

## Negative 60° triangular inserts



Size	Dimension (mm)		
	d	t	r
13	7.94	4.76	0.2-1.2

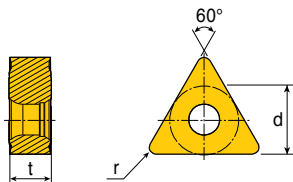
Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated	Uncoated	
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	TT9080	K10
	TNGG 130402 R/L	0.10 - 0.25	0.80 - 3.50	●														
	130404 R/L	0.12 - 0.30	1.00 - 3.50	●														
	130408 R/L	0.15 - 0.35	1.30 - 3.50	●														
	TNGG 130402 R-A	0.05 - 0.20	0.30 - 1.50	●														
	TNMG 130404	0.10 - 0.45	0.50 - 3.50			●	●											
	130408	0.10 - 0.50	0.50 - 3.50			●	●											
	130412	0.10 - 0.55	0.50 - 3.50			●	●											
	TNMG 130404 EA	0.05 - 0.30	0.20 - 1.50									●	●	●	●	●		
	130408 EA	0.07 - 0.40	0.30 - 1.50									●	●	●	●	●		
	TNMG 130408 EM	0.13 - 0.40	0.50 - 3.00									●	●	●	●	●		
	130412 EM	0.15 - 0.40	0.70 - 3.00									●	●	●	●	●		
	TNMG 130404 FG	0.07 - 0.30	0.25 - 1.50						●	●	●							
	130408 FG	0.10 - 0.35	0.30 - 1.50						●	●	●							
	130412 FG	0.15 - 0.40	0.35 - 1.50						●	●	●							
	TNMG 130404 FM	0.07 - 0.30	0.25 - 1.50	○	○				●	●	●	●	●					
	130408 FM	0.10 - 0.35	0.30 - 1.50	○	○				●	●	●	●	●					
	130412 FM	0.15 - 0.40	0.35 - 1.50	○	○				●	●	●	●	●					
	TNMG 130402 FS	0.05 - 0.25	0.20 - 1.00	○	○				●	●								
	130404 FS	0.07 - 0.30	0.30 - 1.00	○	○				●	●								
	130408 FS	0.10 - 0.30	0.50 - 1.00	○	○				●	●								
	TNMG 130404 FT	0.07 - 0.30	0.25 - 2.50						●	●	●	●	●					
	130408 FT	0.10 - 0.40	0.30 - 2.50						●	●	●	●	●					
	130412 FT	0.15 - 0.50	0.35 - 2.50						●	●	●	●	●					
	TNMG 130404 MK	0.17 - 0.40	0.70 - 3.00										●	●	●	●		
	130408 MK	0.20 - 0.50	1.00 - 3.00										●	●	●	●		
	130412 MK	0.23 - 0.50	1.50 - 3.00										●	●	●	●		

●: Standard Items  
○: Semi Standard Items

# TNMG

## Insert

### Negative 60° triangular inserts



Size	Dimension (mm)		
	d	t	r
13	7.94	4.76	0.4-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated		Uncoated	
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT15080	TT9080	K10	
	<b>TNMG 130404 MM</b>	0.15 - 0.45	0.40 - 3.00						●	●	●	●	●	●	●	●	●	●	
	<b>130408 MM</b>	0.20 - 0.50	0.50 - 3.00						●	●	●	●	●	●	●	●	●	●	
	<b>130412 MM</b>	0.23 - 0.50	0.70 - 3.00						●	●	●	●	●	●	●	●	●	●	
	<b>TNMG 130404 MT</b>	0.10 - 0.35	0.80 - 3.00					●	●	●	●	●							
	<b>130408 MT</b>	0.15 - 0.45	1.00 - 3.00					●	●	●	●	●							
	<b>130412 MT</b>	0.20 - 0.55	1.20 - 3.00					●	●	●	●	●							
	<b>TNMG 130404 PC</b>	0.10 - 0.30	0.40 - 3.00					●	●	●	●	●						●	
	<b>130408 PC</b>	0.15 - 0.40	0.50 - 3.00				○	●	●	●	●	●						●	
	<b>130412 PC</b>	0.18 - 0.50	0.60 - 3.00					●	●	●	●	●							
	<b>TNMG 130404 WA*</b>	0.08 - 0.25	0.25 - 2.50	○	○	○	○	●	●	●	●								
	<b>130408 WA*</b>	0.10 - 0.35	0.25 - 3.00	○	○	○	○	●	●	●	●								
	<b>130412 WA*</b>	0.15 - 0.45	0.40 - 3.50	○	○	○	○	●	●	●	●								

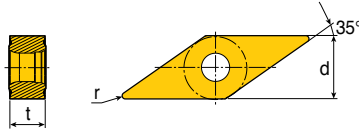
\* Marked wiper inserts should be applied to □TGNR/L, □TFNR/L

● : Standard Items  
○ : Semi Standard Items

# VNGX / VNMX

Insert

## Negative 35° rhombic inserts

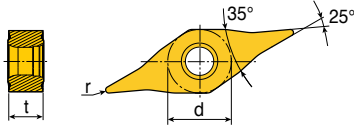


Size	Dimension (mm)		
	d	t	r
13	7.94	4.76	0.1-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD Coated										PVD coated		Uncoated
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	TT9080	
	<b>VNGX 130401 ML</b>	0.03 - 0.10	0.10 - 1.00														●	●
	<b>130402 ML</b>	0.05 - 0.15	0.20 - 1.20														●	●
	<b>130404 ML</b>	0.05 - 0.20	0.50 - 1.50														●	●
	<b>VNMX 130404 FG</b>	0.08 - 0.20	0.50 - 2.00	○					●	●	●						●	●
	<b>130408 FG</b>	0.10 - 0.23	0.50 - 2.00	○					●	●	●						●	●
	<b>VNMX 130404 FM</b>	0.07 - 0.30	0.25 - 1.50	○				●	●	●	●	●					●	●
	<b>130408 FM</b>	0.10 - 0.35	0.30 - 1.50	○				●	●	●	●	●					●	●
	<b>VNMX 130402 FS</b>	0.05 - 0.25	0.20 - 1.00	○	○				●	●								
	<b>130404 FS</b>	0.08 - 0.30	0.30 - 1.00	○	○				●	●								
	<b>130408 FS</b>	0.10 - 0.30	0.50 - 1.00	○	○				●	●								
	<b>VNMX 130404 FX</b>	0.05 - 0.20	0.20 - 2.00	○					●	●							●	
	<b>130408 FX</b>	0.07 - 0.20	0.20 - 2.00	○					●	●							●	
	<b>VNMX 130404 MK</b>	0.17 - 0.35	0.70 - 3.00										●	●		●	●	
	<b>130408 MK</b>	0.20 - 0.40	1.00 - 3.00										●	●		●	●	
	<b>VNMX 130404 MT</b>	0.15 - 0.36	0.80 - 3.00	○				●	●	●	●	●					●	●
	<b>130408 MT</b>	0.17 - 0.36	1.00 - 3.00	○	○	○	○	●	●	●	●	●					●	●
	<b>130412 MT</b>	0.20 - 0.40	1.50 - 3.00		○	○	○	●	●	●	●	●					●	●
	<b>VNMX 130404 PC</b>	0.15 - 0.36	0.40 - 3.00					●	●	●	●	●					●	●
	<b>130408 PC</b>	0.17 - 0.36	0.50 - 3.00					●	●	●	●	●					●	●
	<b>130412 PC</b>	0.20 - 0.40	1.00 - 3.00					●	●	●	●	●					●	●

●: Standard Items  
○: Semi Standard Items

## Negative 25° rhombic inserts



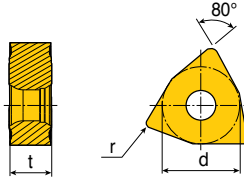
Size	Dimension (mm)		
	d	t	r
<b>13</b>	7.94	4.76	0.4-0.8

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermat		CVD Coated									PVD coated		Uncoated
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT5080	
	<b>YNMG 130404 FS</b>	0.08 - 0.20	0.30 - 1.00	●	●										●		
	<b>130408 FS</b>	0.08 - 0.25	0.50 - 1.50	●	●				●						●		

● : Standard Items  
○ : Semi Standard Items



## Negative 80° triangular inserts



Size	Dimension (mm)		
	d	t	r
06	9.52	4.76	0.4-1.2

Insert	Designation	Feed (mm/rev)	ap (mm)	Cermet		CVD coated										PVD coated		Uncoated		
				CT3000	PV3010	TT7005	TT7015	TT8105	TT8115	TT8125	TT5100	TT8135	TT9215	TT9225	TT9235	TT15080	TT9080		K10	
	<b>WNMX 060404 EM</b>	0.10 - 0.35	0.40 - 3.00												●	●	●	●	●	
	<b>060408 EM</b>	0.13 - 0.40	0.50 - 3.00												●	●	●	●	●	
	<b>060412 EM</b>	0.15 - 0.40	0.70 - 3.00												●	●	●	●	●	
	<b>WNMX 060404 FG</b>	0.07 - 0.30	0.20 - 2.00	○	○				●	●	●						●			
	<b>060408 FG</b>	0.10 - 0.35	0.50 - 2.00	○	○				●	●										
	<b>WNMX 060404 FM</b>	0.07 - 0.30	0.25 - 2.00	○					●	●	●	●								
	<b>060408 FM</b>	0.10 - 0.35	0.30 - 2.00	○					●	●	●	●								
	<b>060412 FM</b>	0.15 - 0.40	0.35 - 2.00	○					●	●	●	●								
	<b>WNMX 060404 FS</b>	0.07 - 0.30	0.30 - 1.50	○	○				●	●										
	<b>060408 FS</b>	0.10 - 0.30	0.50 - 1.50	○	○				●	●										
	<b>WNMX 060404 MK</b>	0.17 - 0.40	0.70 - 3.50												●	●	●	●		
	<b>060408 MK</b>	0.20 - 0.50	1.00 - 3.50												●	●	●	●		
	<b>060412 MK</b>	0.23 - 0.50	1.50 - 3.50												●	●	●	●		
	<b>WNMX 060404 MM</b>	0.15 - 0.45	0.40 - 3.00												●	●	●	●	●	
	<b>060408 MM</b>	0.20 - 0.50	0.50 - 3.00						●	●	●				●	●	●	●	●	
	<b>060412 MM</b>	0.23 - 0.50	0.70 - 3.00							●					●	●	●	●	●	
	<b>WNMX 060404 MT</b>	0.10 - 0.35	0.80 - 3.00			○	○	●	●	●	●				●	●	●	●		
	<b>060408 MT</b>	0.15 - 0.45	1.00 - 3.00			○	○	●	●	●	●				●	●	●	●		
	<b>060412 MT</b>	0.20 - 0.55	1.20 - 3.00			○	○	●	●	●	●									
	<b>WNMX 060404 PC</b>	0.10 - 0.30	0.40 - 3.00						●	●	●									
	<b>060408 PC</b>	0.15 - 0.40	0.50 - 3.00						●	●	●							●		
	<b>060412 PC</b>	0.18 - 0.50	0.60 - 3.00						●	●	●							●		
	<b>WNMX 060404 WA*</b>	0.08 - 0.25	0.25 - 2.50	○	○	○	○	●	●	●	●									
	<b>060408 WA*</b>	0.10 - 0.40	0.25 - 3.00	○	○	○	○	●	●	●	●									
	<b>060412 WA*</b>	0.20 - 0.50	0.40 - 3.00	○	○	○	○	●	●	●	●									

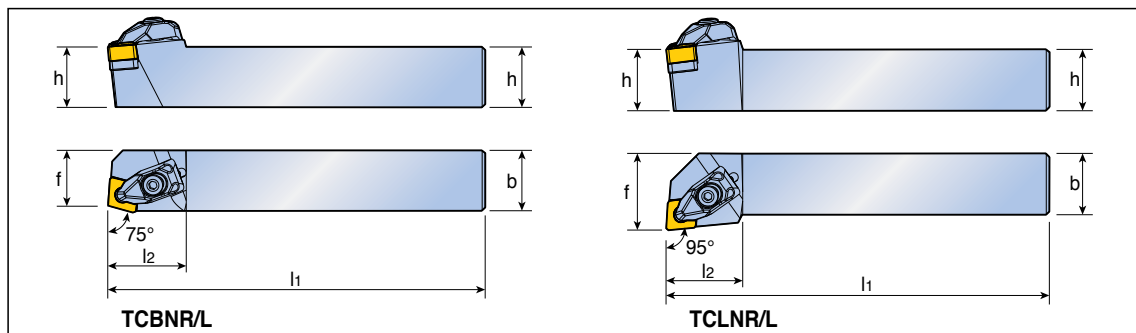
\* Marked wiper inserts should be applied to □WLNRL

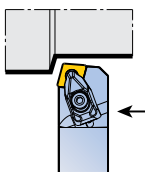
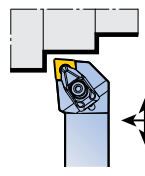
●: Standard Items  
○: Semi Standard Items

# TCBNR/L TCLNR/L

Holder

T-holder type

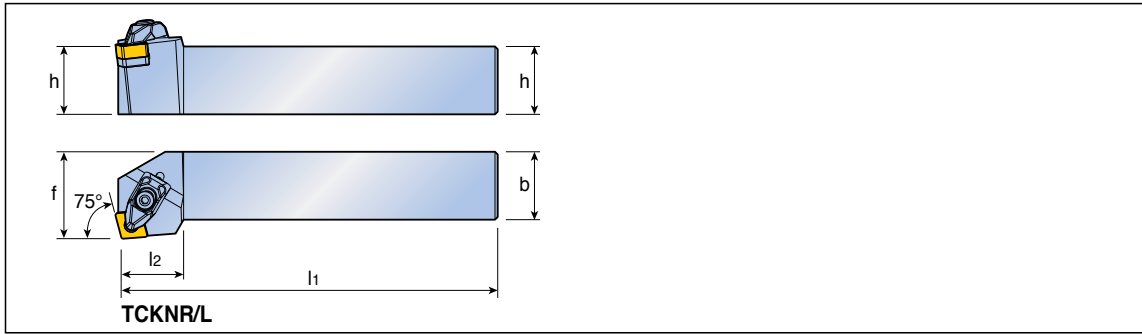


Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>75°</b> 	<b>TCBNR/L 2020 K0904</b>	20	20	125	26	18.5	CN... 0904...
	<b>2525 M0904</b>	25	25	150	26	23.5	
<b>95°</b> 	<b>TCLNR/L 2020 H0904</b>	20	20	100	25	25	CN... 0904...
	<b>2020 K0904</b>	20	20	125	25	25	
	<b>2525 M0904</b>	25	25	150	25	32	

## Spare parts

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

## T-holder type



Approach angle	Designation	Dimension (mm)						Insert
		h	b	l1	l2	f		
75°	<b>TCKNR/L 2525 M0904</b>	25	25	150	23	32	CN... 0904...	

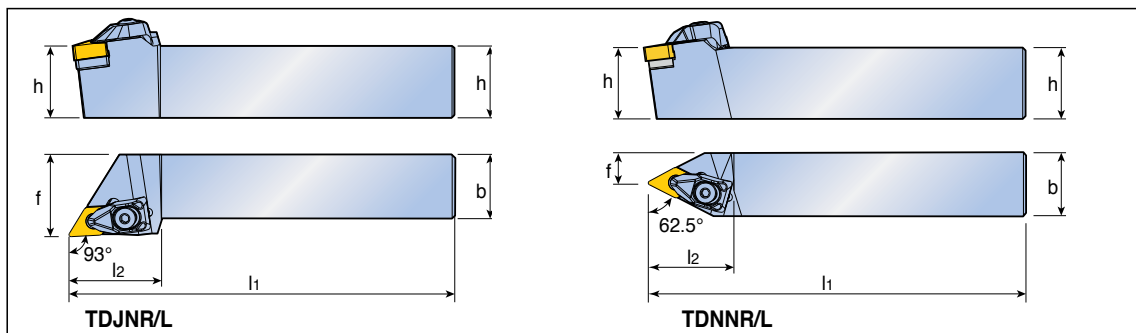
## Spare parts

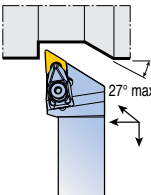
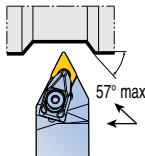
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
...0904	DLM 3-NX	DLS 3	LSC 32A	SO 40085I	DSP 3	L-W 2.5	T 15

# TDJNR/L TDNNR/L

Holder

## T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>93°</b> 	<b>TDJNR/L 2020 H1305</b>	20	20	100	33	25	DN... 1305...
	<b>2020 K1305</b>	20	20	125	33	25	
	<b>2525 M1305</b>	25	25	150	36	32	
<b>62.5°</b> 	<b>TDNNR/L 2020 K1305</b>	20	20	125	34	10	DN... 1305...
	<b>2525 M1305</b>	25	25	150	34	12.5	

## Spare parts

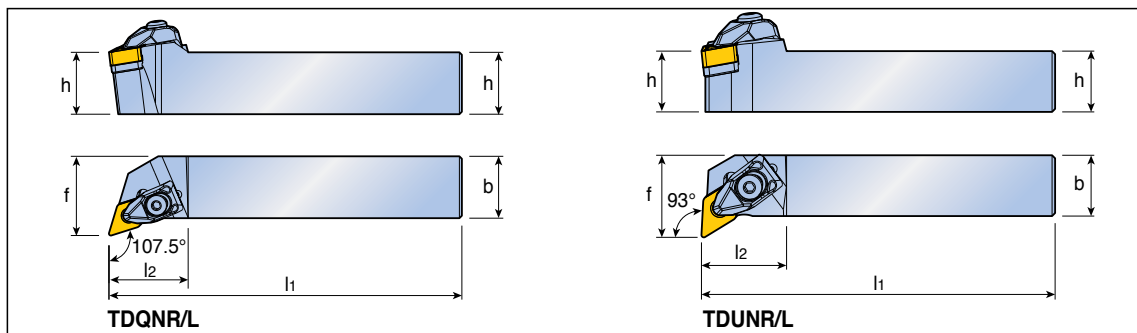
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
<b>...1305</b>	 DLM 3.5-NX	 DLS 4	 LSD 3.52	 SO 50090I	 DSP 4	 L-W 3	 T 20

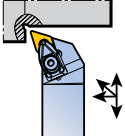
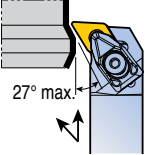


# TDQNR/L TDUNR/L







Holder

## T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>107.5°</b> 	<b>TDQNR/L 2020 K1305</b>	20	20	125	32	25	DN... 1305...
	<b>2525 M1305</b>	25	25	150	32	32	
<b>93°</b> 	<b>TDUNR/L 2020 K1305</b>	20	20	125	28	27	DN... 1305...
	<b>2525 M1305</b>	25	25	150	28	32	

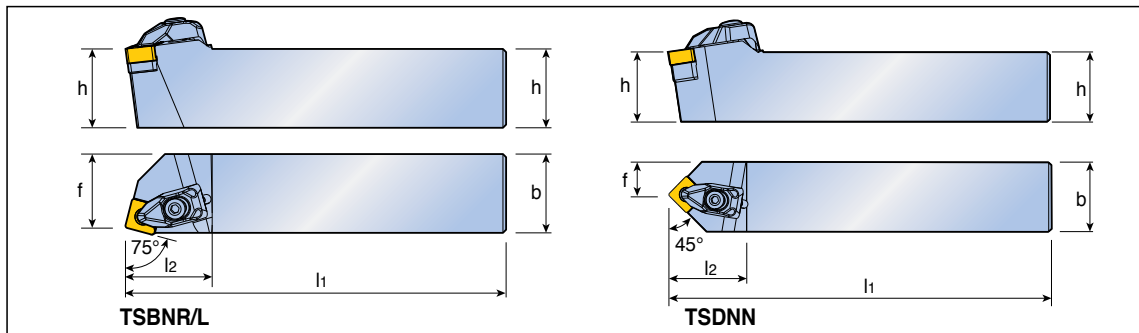
## Spare parts

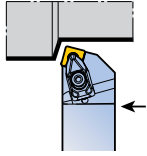
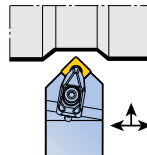
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
<b>...1305</b>	 DLM 3.5-NX	 DLS 4	 LSD 3.52	 SO 50090I	 DSP 4	 L-W 3	 T 20

# TSBNR/L TSDNN

Holder

T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
75° 	<b>TSBNR/L 2020 K0904</b>	20	20	125	27.5	18.5	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	27.5	23.5	
45° 	<b>TSDNN 2020 K0904</b>	20	20	125	28	10	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	28	12.5	

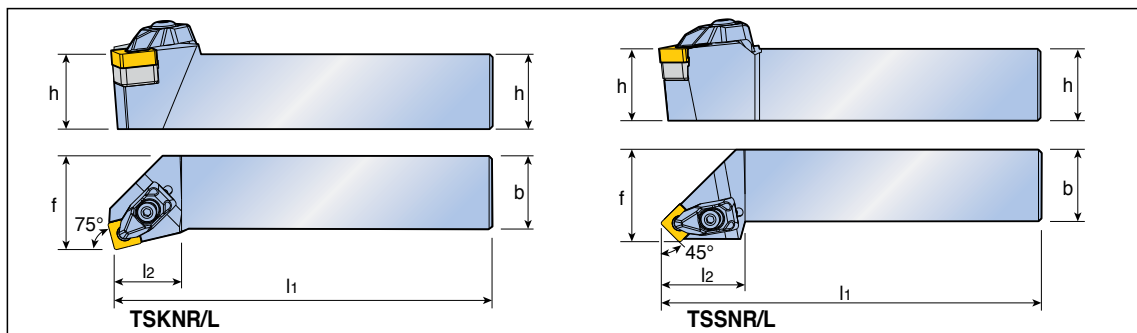
## Spare parts

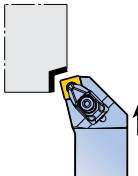
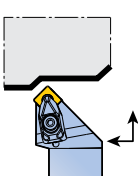
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
							
<b>...0904</b>	DLM 3-NX	DLS 3	LSS 32A	SO 40085I	DSP 3	L-W 2.5	T 15

# TSKNR/L TSSNR/L








Holder

## T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l1	l2	f	
75° 	<b>TSKNR/L 2020 K0904</b>	20	20	125	23	25	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	23	32	
45° 	<b>TSSNR/L 2020 K0904</b>	20	20	125	29	25	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	29	32	

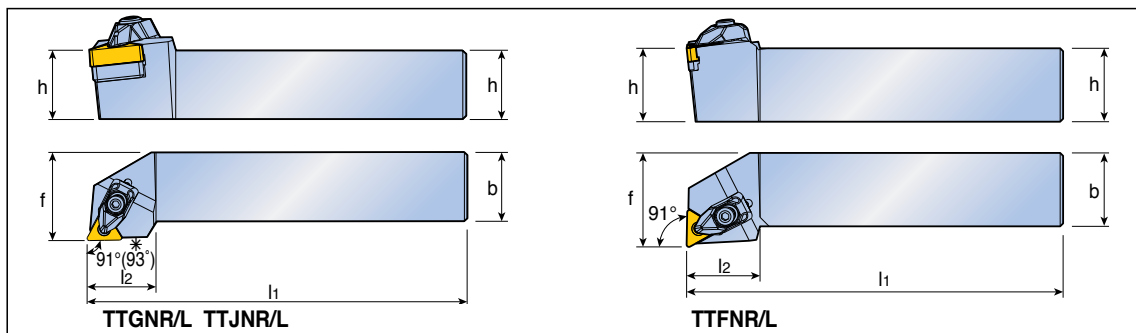
## Spare parts

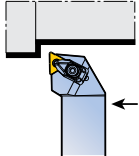
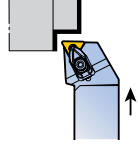
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
<b>...0904</b>	 DLM 3-NX	 DLS 3	 LSS 32A	 SO 40085I	 DSP 3	 L-W 2.5	 T 15

# TTGNR/L TTJNR/L TTFNR/L

Holder








## T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>91° (*93°)</b> 	<b>TTGNR/L 2020 H1304</b>	20	20	100	25	25	TN... 1304...
	<b>2020 K1304</b>	20	20	125	25	25	
	<b>2525 M1304</b>	25	25	150	25	32	
	<b>TTJNR/L 2525 M1304</b>	25	25	150	25	32	TN... 1304...
<b>91°</b> 	<b>TTFNR/L 2020 K1304</b>	20	20	125	25	25	TN... 1304...
	<b>2525 M1304</b>	25	25	150	25	32	

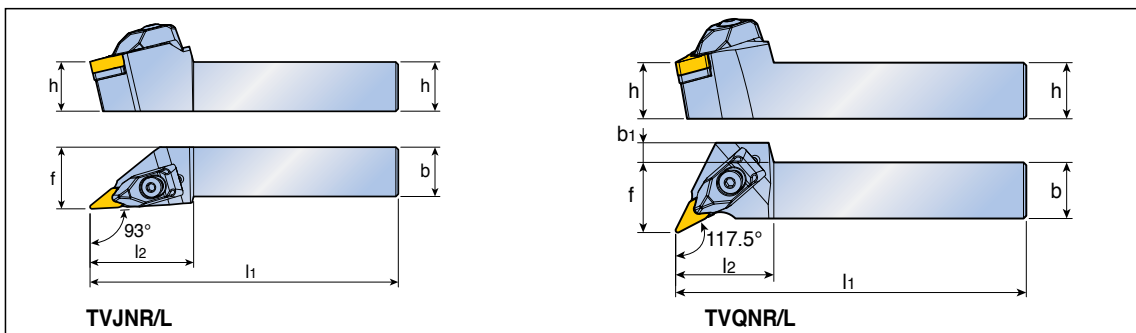
\*Approach angle of TTJNR/L is 93 degrees

## Spare parts

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



### T-holder type



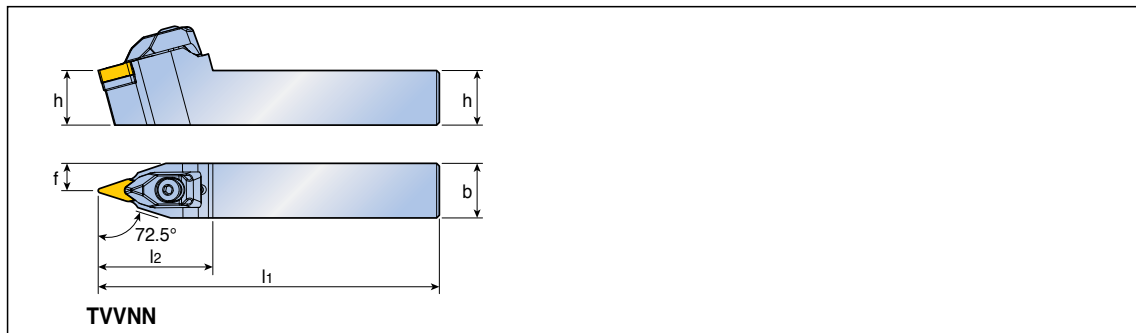
Approach angle	Designation	Dimension (mm)						Insert
		h	b	b1	l1	l2	f	
<b>93°</b> 	<b>TVJNR/L 2020 K1304</b>	20	20	-	125	42	25	VN...X 1304... YNMG 1304...
	<b>2525 M1304</b>	25	25	-	150	42	32	
<b>117.5°</b> 	<b>TVQNR/L 2020 K1304</b>	20	20	7	125	35	25	
	<b>2525 M1304</b>	25	25	-	150	35	32	

### Spare parts

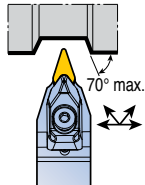
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
<b>...1304</b>	DLM 2.5V-NX	DLS 4	MSVI 2.522	SO 40085I	DSP 4	L-W 4	T 15

# TVVNN

## T-holder type



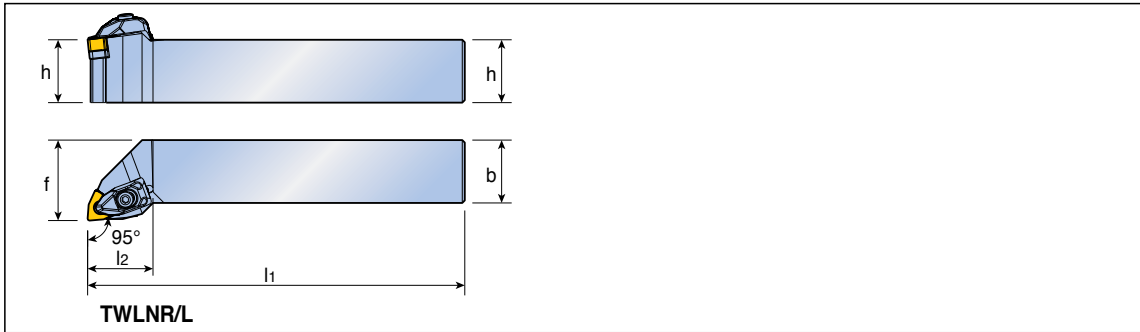
Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
72.5°	<b>TVVNN 2020 K1304</b>	20	20	125	42	10	VN...X 1304...
	<b>2525 M1304</b>	25	25	150	42	12.5	YNMG 1304...



## Spare parts

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

### T-holder type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>95°</b>	<b>TWLNRL 2020 K0604</b>	20	20	125	26	25	WNMX 0604...
	<b>2525 M0604</b>	25	25	150	26	32	

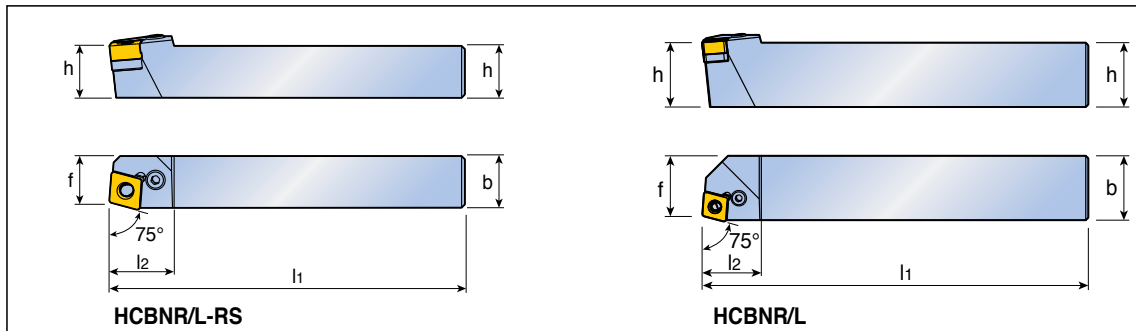
### Spare parts

Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Wrench	
...0604	DLM 3-NX	DLS 3	LSW 32A	SO 40085I	DSP 3	L-W 2.5	T 15

# HCBNR/L-RS HCBNR/L

Holder

## Hook lever type

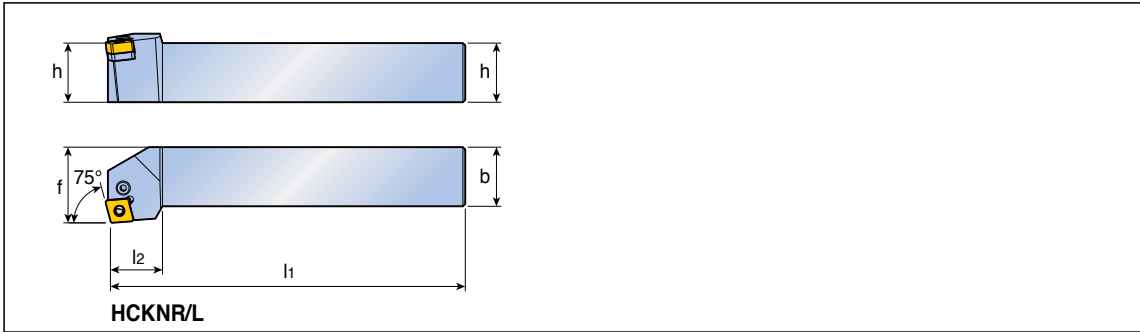


Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
75°	<b>HCBNR/L 1616 K0904-RS</b>	16	16	125	20	14.5	CN... 0904...
75°	<b>HCBNR/L 2020 K0904</b> <b>2525 M0904</b>	20	20	125	23	18.5	CN... 0904...

## Spare parts






Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...0904</b>	LCL 09-NX	LCS 3	LSC 32A	LSP 3A	L-W 2.5			

### Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>75°</b>	<b>HCKNR/L 2525 M0904</b>	25	25	150	22	32	CN... 0904...

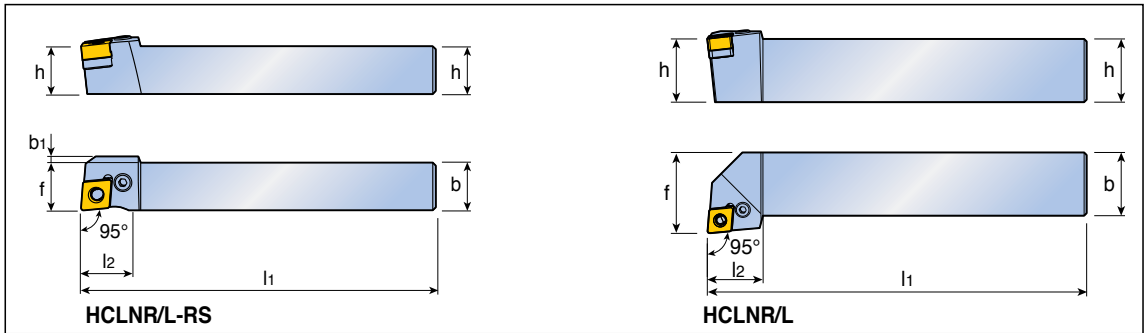
### Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...0904</b>	 LCL 09-NX	 LCS 3	 LSC 32A	 LSP 3A	 L-W 2.5			

# HCLNR/L-RS HCLNR/L

Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)							Insert
		h	b	b1	l1	l2	f		
95°	<b>HCLNR 1212 K0904-RS</b>	12	16	2	125	18	12	CN... 0904...	
	<b>HCLNR/L 1616 K0904-RS</b>	16	16	-	125	20	16		
95°	<b>HCLNR/L 1616 H0904</b>	16	16	-	100	22	20	CN... 0904...	
	<b>2020 H0904</b>	20	20	-	100	22	25		
	<b>2020 K0904</b>	20	20	-	125	22	25		
	<b>2525 M0904</b>	25	25	-	150	22	32		

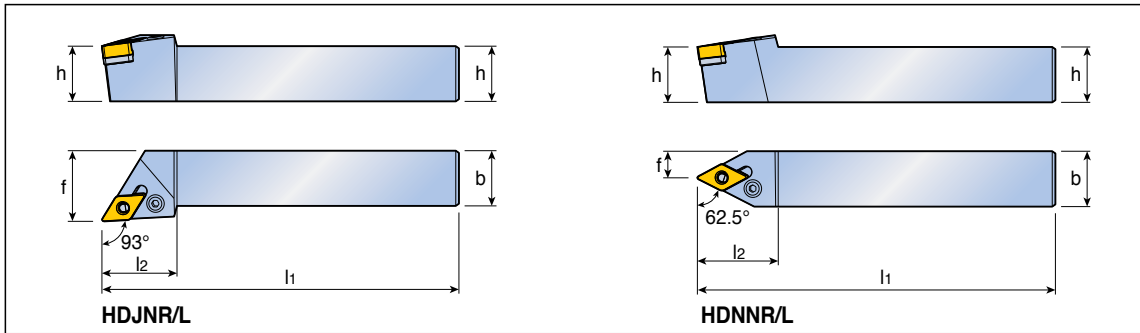
## Spare parts

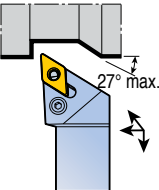
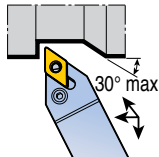
Designation	Lever	Screw	Shim	Shim pin	Wrench	Snap ring		
<b>...1212...0904</b>	LCL 09B-NX	LCS 3B	-	-	L-W 2	LSR 3B		
<b>...0904</b>	LCL 09-NX	LCS 3	LSC 32A	LSP 3A	L-W 2.5			

# HDJNR/L HDNNR/L

Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>93°</b> 	<b>HDJNR/L 2020 H1305</b>	20	20	100	34	25	DN... 1305...
	<b>2020 K1305</b>	20	20	125	34	25	
	<b>2525 M1305</b>	25	25	150	34	32	
<b>62.5°</b> 	<b>HDNNR/L 2020 K1305</b>	20	20	125	36.5	10	
	<b>2525 M1305</b>	25	25	150	36.5	12	

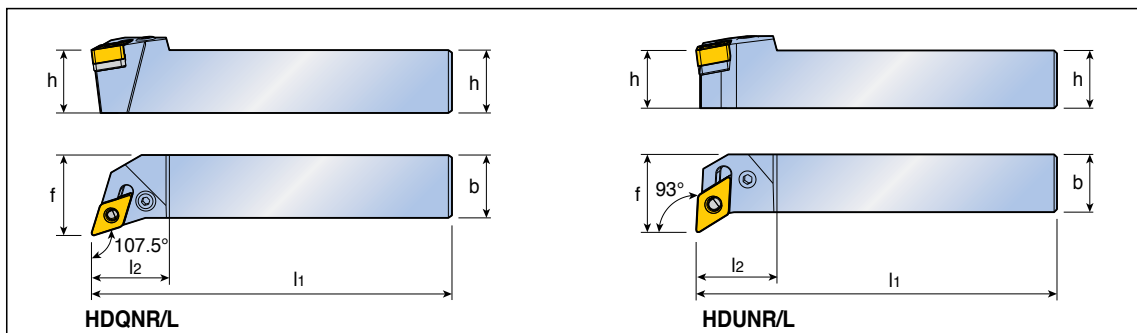
## Spare parts

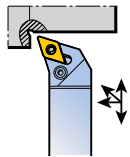
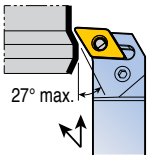
Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...1305</b>	LCL 11-NX	LCS 4	LSD 3.52	LSP 4	L-W 3			

# HDQNR/L HDUNR/L

Holder

## Hook lever type



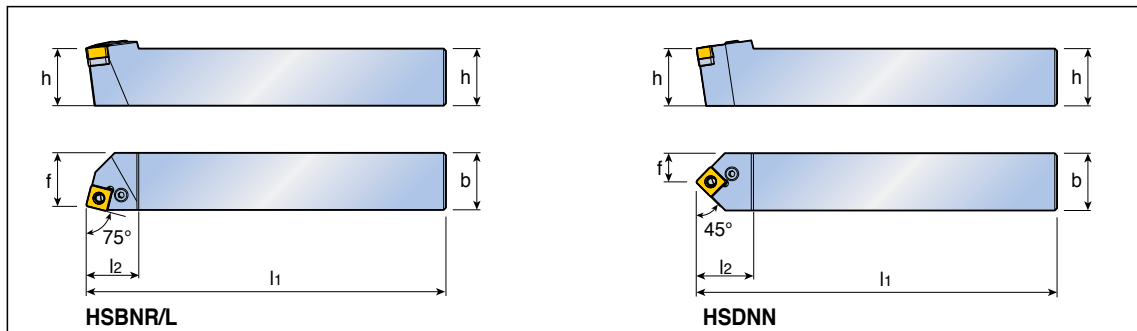
Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>107.5°</b> 	<b>HDQNR/L 2020 K1305</b>	20	20	125	31	25	DN... 1305...
	<b>2525 M1305</b>	25	25	150	31	32	
<b>93°</b> 	<b>HDUNR/L 2020 K1305</b>	20	20	125	28	27	DN... 1305...

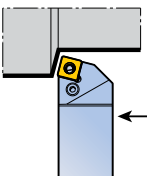
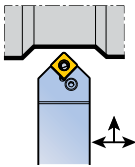
## Spare parts

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



### Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>75°</b> 	<b>HSBNR/L 2020 K0904</b>	20	20	125	23	18.5	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	23	23.5	
<b>45°</b> 	<b>HSDNN 2020 K0904</b>	20	20	125	25	10.0	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	25	12.5	

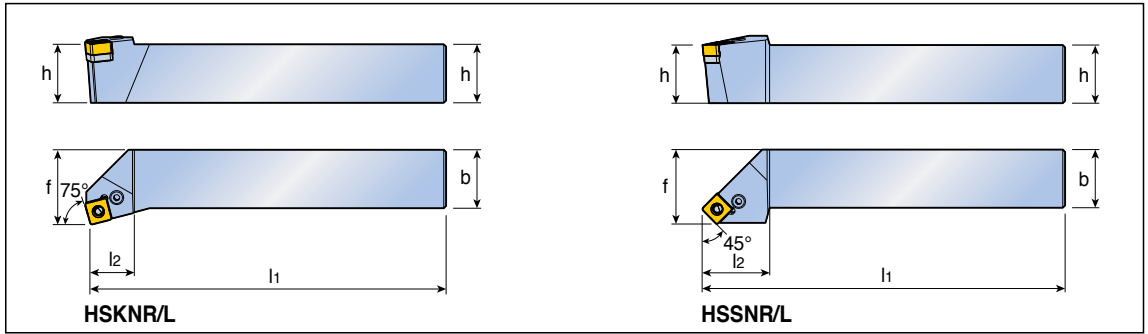
### Spare parts

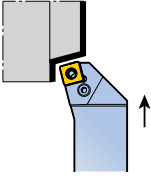
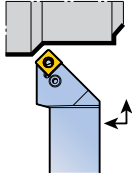
Designation	Lever	Screw	Shim	Shim Ppin	Wrench			
<b>...0904</b>	LCL 09-NX	LCS 3	LSS 32A	LSP 3A	L-W 2.5			

# HSKNR/L HSSNR/L

Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>75°</b> 	<b>HSKNR/L 2020 K0904</b>	20	20	125	19	25	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	19	32	
<b>45°</b> 	<b>HSSNR/L 2020 K0904</b>	20	20	125	21.5	25	SNMG 0904...
	<b>2525 M0904</b>	25	25	150	29	32	

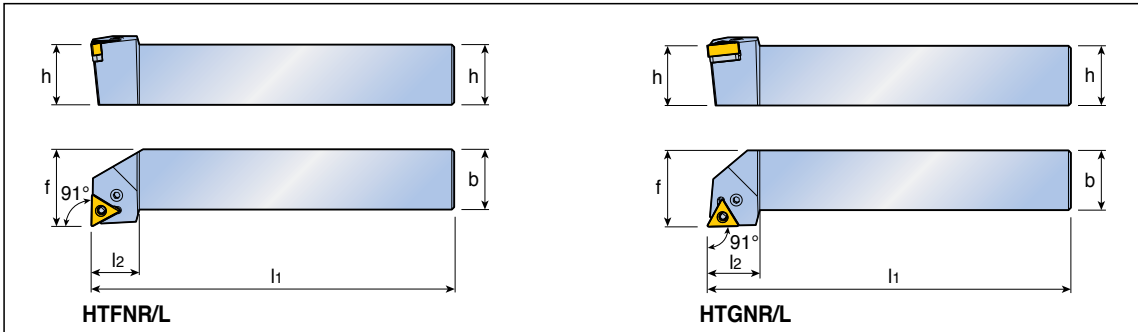
## Spare parts

Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...0904</b>	LCL 09-NX	LCS 3	LSS 32A	LSP 3A	L-W 2.5			

# HTFNR/L HTGNR/L

Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>91°</b> 	<b>HTFNR/L 2020 K1304</b>	20	20	125	20	25	TN... 1304...
	<b>2525 M1304</b>	25	25	150	20	32	
<b>91°</b> 	<b>HTGNR/L 1616 H1304</b>	16	16	100	22	20	TN... 1304...
	<b>2020 H1304</b>	20	20	100	22	25	
	<b>2020 K1304</b>	20	20	125	22	25	
	<b>2525 M1304</b>	25	25	150	22	32	

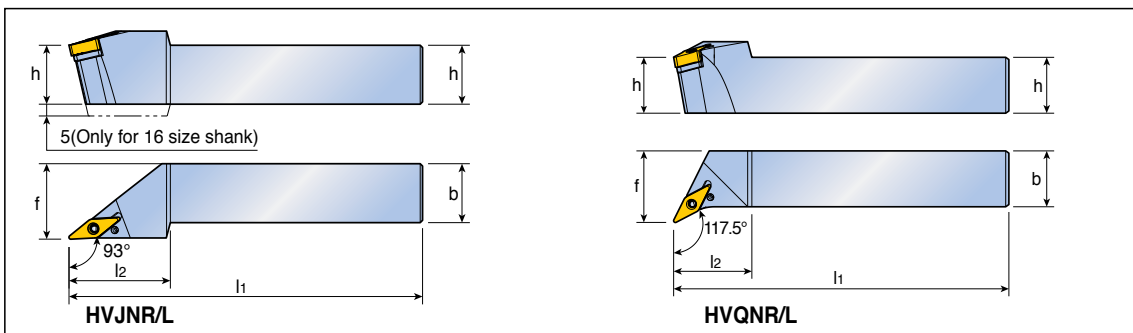
## Spare parts

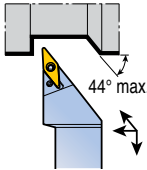
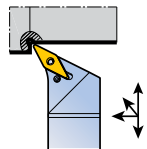
Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...1304</b>	LCL 08-NX	LCS 3-NX	LST 2.51.8	LSP 3B	L-W 2.5			

# HVJNR/L HVQNR/L






Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>93°</b> 	<b>HVJNR/L 1616 H1304</b>	16	16	100	30	20	VN...X 1304... YNMG 1304...
	<b>2020 K1304</b>	20	20	125	35	25	
	<b>2525 M1304</b>	25	25	150	43	32	
<b>117.5°</b> 	<b>HVQNR/L 2020 K1304</b>	20	20	125	35	25	VN...X 1304... YNMG 1304...
	<b>2525 M1304</b>	25	25	150	35	32	

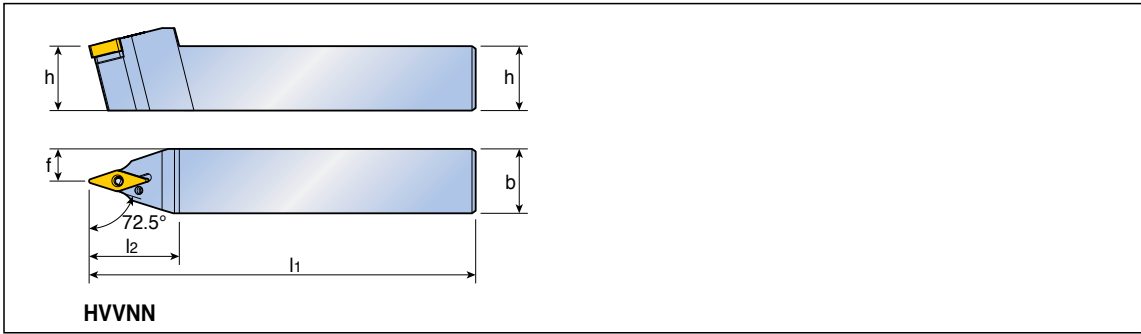
## Spare parts

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

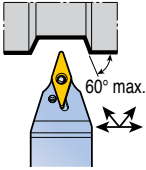
# HVVNN

## Holder

### Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>72.5°</b>	<b>HVVNN 2020 K1304</b>	20	20	125	35	10	VN...X 1304...
	<b>2525 M1304</b>	25	25	150	35	12.5	YNMG 1304...



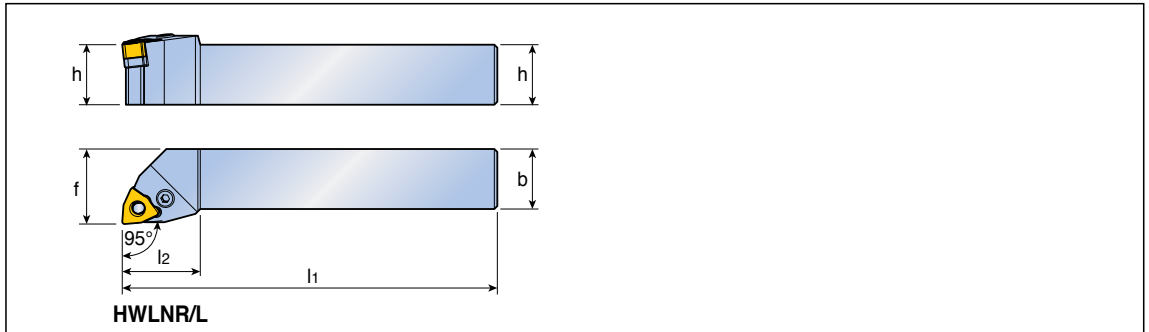
### Spare parts

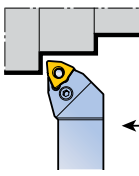
Designation	Lever	Screw	Shim	Shim pin	Wrench			
<b>...1304</b>	LCL 08-NX	LCS 4-DH	LSV 2.51.8H	LSP 3B	L-W 2.5			

# HWLNRL/L






Holder

## Hook lever type



Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
95° 	<b>HWLNRL 1616 H0604</b>	16	16	100	26	20	WNNMX 0604...
	<b>2020 K0604</b>	20	20	125	26	25	
	<b>2525 M0604</b>	25	25	150	26	32	

## Spare parts

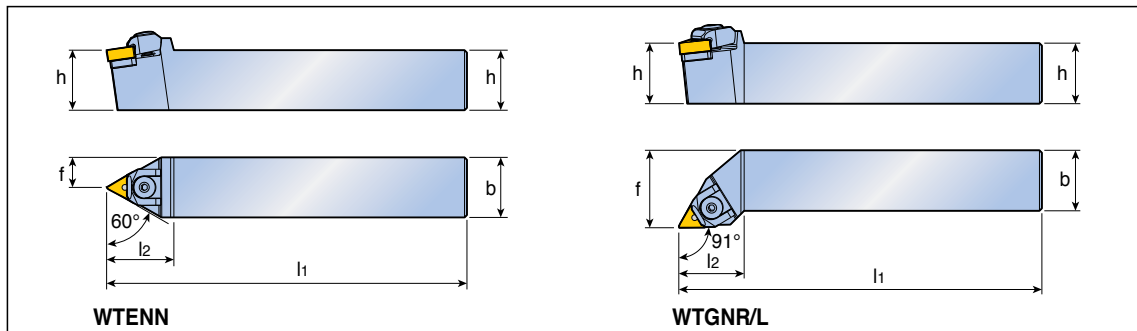
Designation	Lever	Screw	Shim	Shim pin	Wrench			
...0604	 LCL 09-NX	 LCS 3	 LSW 32A	 LSP 3A	 L-W 2.5			

# WTENN WTGNR/L

Holder

RHINOTURN

## Wedge clamp type



Approach angle	Designation	Dimension (mm)						Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f		
<b>60°</b> 	<b>WTENN 2020 K1304</b>	20	20	125	28	10.0		TN... 1304...
	<b>2525 M1304</b>	25	25	150	28	12.5		
<b>91°</b> 	<b>WTGNR/L 2020 K1304</b>	20	20	125	27	25		TN... 1304...
	<b>2525 M1304</b>	25	25	150	27	32		

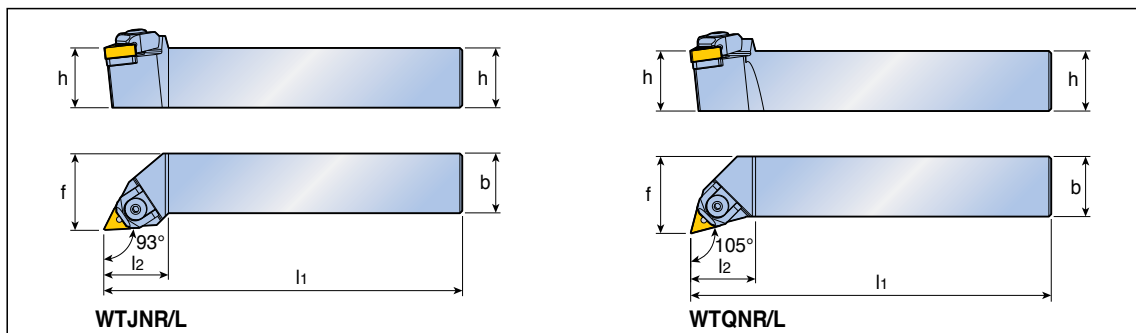
## Spare parts

Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench		
<b>...1304</b>	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



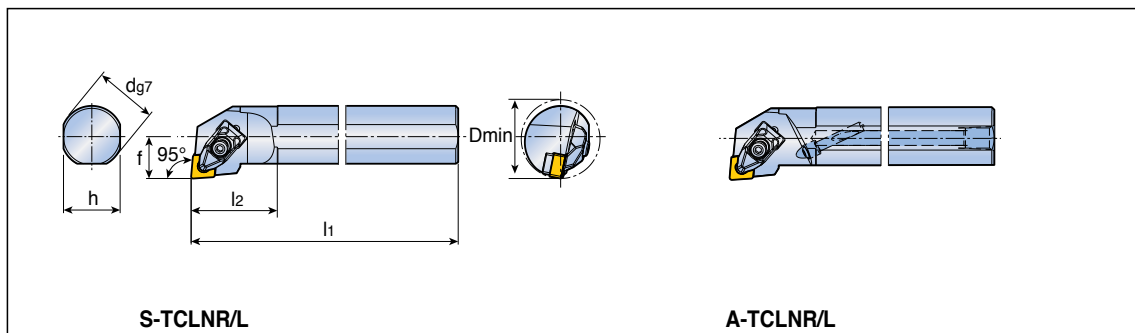
Approach angle	Designation	Dimension (mm)					Insert
		h	b	l <sub>1</sub>	l <sub>2</sub>	f	
<b>93°</b> 	<b>WTJNR/L 2020 K1304</b>	20	20	125	27	25	TN... 1304...
	<b>2525 M1304</b>	25	25	150	27	32	
<b>105°</b> 	<b>WTQNR/L 2020 K1304</b>	20	20	125	27	25	TN... 1304...
	<b>2525 M1304</b>	25	25	150	27	32	

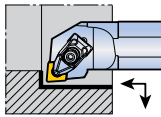
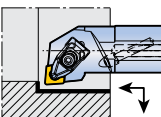
## Spare parts

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






### T-holder type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
95° 	<b>S25R TCLNR/L 0904</b>	25	23	200	35	17	32	CN... 0904...
	<b>S32S TCLNR/L 0904</b>	32	30	250	35	22	40	
	<b>S40T TCLNR/L 0904</b>	40	37	300	45	27	50	
95° 	<b>A25R TCLNR/L 0904</b>	25	23	200	35	17	32	CN... 0904...
	<b>A32S TCLNR/L 0904</b>	32	30	250	35	22	40	

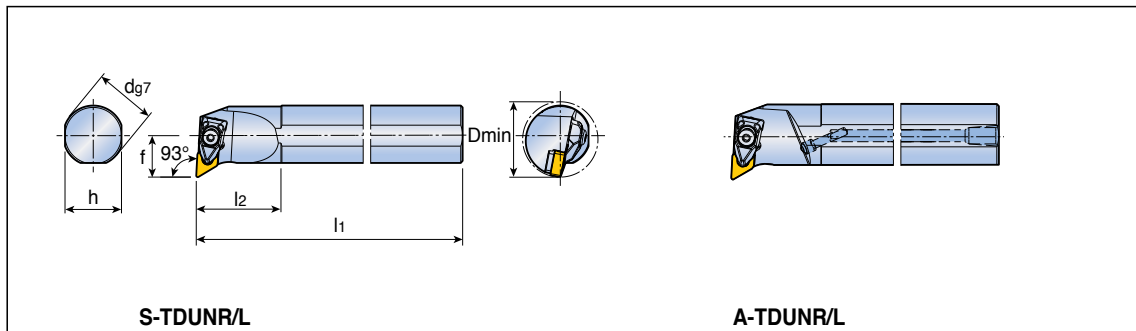
### Spare parts

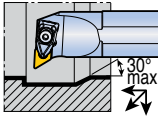
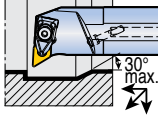
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
<b>S25R...0904</b>							L-W 2.5	T 15
<b>S32S,S40T...0904</b>	DLM 3-NX	DLS 3	LSC 32	SO 40085I	DSP 3	-	L-W 2.5	T 15
<b>A25R...0904</b>	DLM 3-NX	DLS 3	LSC 32	SO 40073I	DSP 3	NZ 62	L-W 2.5	T 15
<b>A32S...0904</b>	DLM 3-NX	DLS 3	LSC 32	SO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

# S-TDUNR/L A-TDUNR/L






## Boring Bar

### T-holder type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>93°</b> 	<b>S32S TDUNR/L 1305</b>	32	30	250	45	22	40	DN... 1305...
	<b>S40T TDUNR/L 1305</b>	40	37	300	55	27	50	
<b>93°</b> 	<b>A32S TDUNR/L 1305</b>	32	30	250	45	22	40	DN... 1305...
	<b>A40T TDUNR/L 1305</b>	40	37	300	55	27	50	

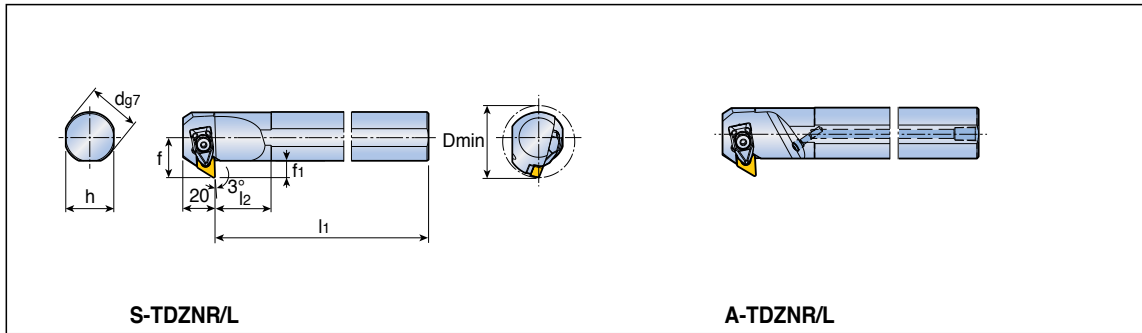
### Spare parts

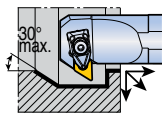

Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
<b>S ...1305</b>							L-W 3	T 20
<b>A32S ...1305</b>	DLM 3.5-NX	DLS 4	LSD 3.52B	TS 50A105I	DSP 4	-	L-W 3	T 20
<b>A40T ...1305</b>	DLM 3.5-NX	DLS 4	LSD 3.52B	TS 50A105I	DSP 4	NZ 104	L-W 3	T 20

# S-TDZNR/L A-TDZNR/L









Boring Bar

T-holder type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	f1	Dmin	
<b>93°</b> 	<b>S32S TDZNR/L 1305</b>	32	30	250	35	25	10.5	45	DN... 1305...
	<b>S40T TDZNR/L 1305</b>	40	37	300	40	29	10.5	50	
<b>93°</b> 	<b>A32S TDZNR/L 1305</b>	32	30	250	35	25	10.5	45	DN... 1305...
	<b>A40T TDZNR/L 1305</b>	40	37	300	40	29	10.5	50	

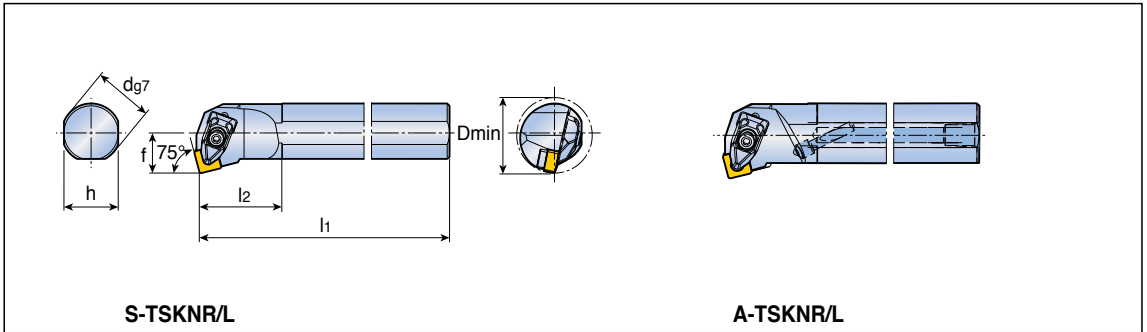
## Spare parts

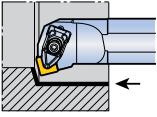
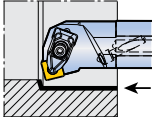
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
<b>S ...1305</b>								
<b>A32S ...1305</b>	DLM 3.5-NX	DLS 4	LSD 3.52B	TS 50A105I	DSP 4	-	L-W 3	T 20
<b>A40T ...1305</b>	DLM 3.5-NX	DLS 4	LSD 3.52B	TS 50A105I	DSP 4	NZ 104	L-W 3	T 20

# S-TSKNR/L A-TSKNR/L

## Boring Bar

































### T-holder type



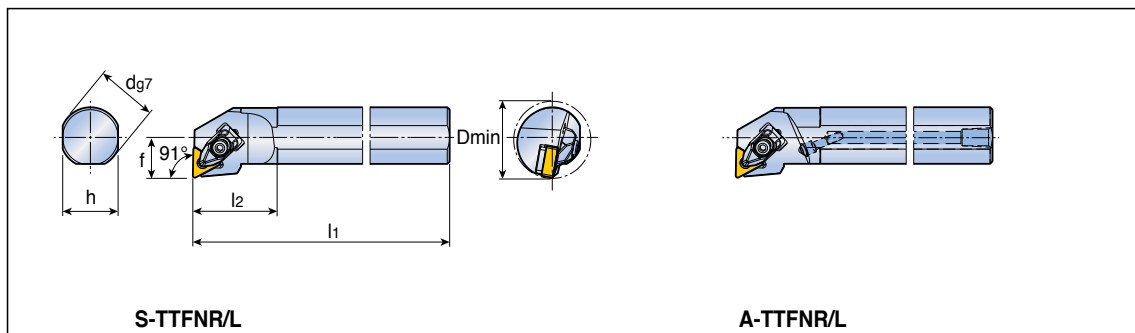
Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>75°</b> 	<b>S25R TSKNR/L 0904</b>	25	23	200	35	17	32	SNMG 0904...
	<b>S32S TSKNR/L 0904</b>	32	30	250	35	22	40	
<b>75°</b> 	<b>A25R TSKNR/L 0904</b>	25	23	200	35	17	32	SNMG 0904...
	<b>A32S TSKNR/L 0904</b>	32	30	250	35	22	40	

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

### Spare parts

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

## T-holder type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
91°	<b>S25R TTFNR/L 1304</b>	25	23	200	35	17	32	TN... 1304...	
	<b>S32S TTFNR/L 1304</b>	32	30	250	35	22	40		
91°	<b>A25R TTFNR/L 1304</b>	25	23	200	35	17	32	TN... 1304...	
	<b>A32S TTFNR/L 1304</b>	32	30	250	35	22	40		

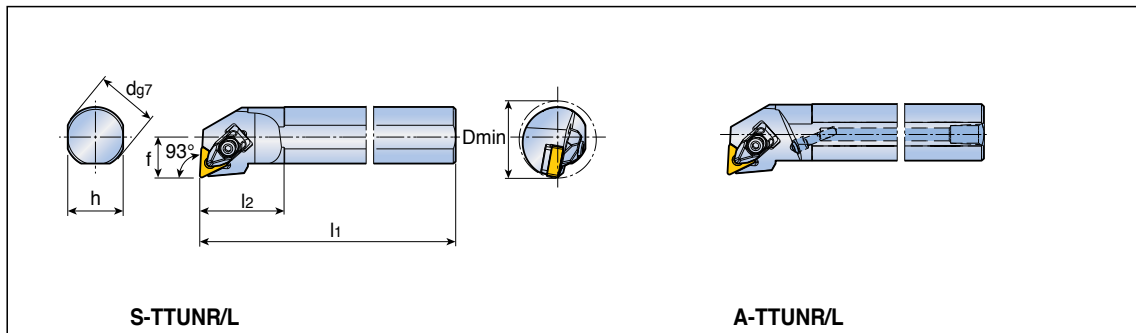
## Spare parts

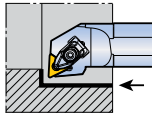
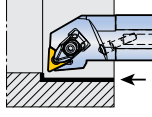
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
<b>S25R...1304</b>							L-W 2.5	T 15
<b>S32S...1304</b>	DLM 2.5-NX	DLS 3	LST 2.52B	SO 40073I	DSP 3	-	L-W 2.5	T 15
<b>A25R...1304</b>	DLM 2.5-NX	DLS 3	LST 2.52B	SO 40073I	DSP 3	NZ 62	L-W 2.5	T 15
<b>A32S...1304</b>	DLM 2.5-NX	DLS 3	LST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

# S-TTUNR/L A-TTUNR/L







## Boring Bar

### T-holder type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
<b>93°</b> 	<b>S25R TTUNR/L 1304</b>	25	23	200	35	17	32	TN... 1304...	
	<b>S32S TTUNR/L 1304</b>	32	30	250	35	22	40		
<b>93°</b> 	<b>A25R TTUNR/L 1304</b>	25	23	200	35	17	32	TN... 1304...	
	<b>A32S TTUNR/L 1304</b>	32	30	250	35	22	40		

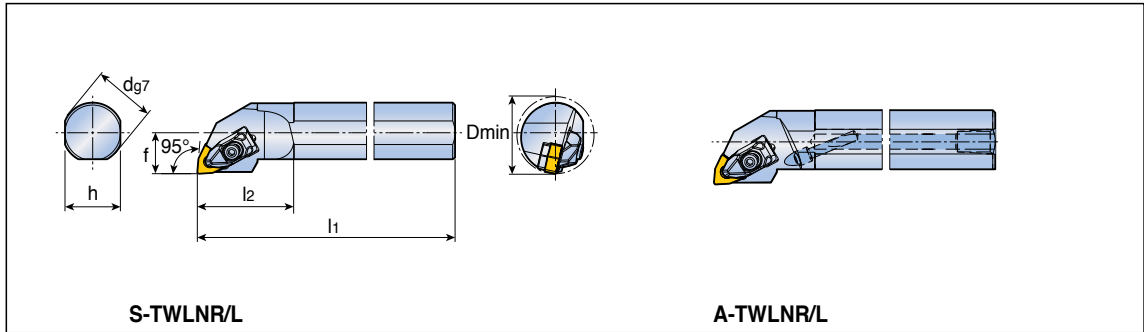
### Spare parts

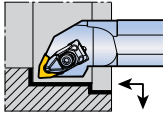
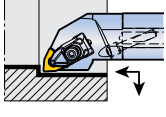
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
<b>S25R...1304</b>							L-W 2.5	T 15
<b>S32S...1304</b>	DLM 2.5-NX	DLS 3	LST 2.52B	SO 40073I	DSP 3	-	L-W 2.5	T 15
<b>A25R...1304</b>	DLM 2.5-NX	DLS 3	LST 2.52B	SO 40073I	DSP 3	NZ 62	L-W 2.5	T 15
<b>A32S...1304</b>	DLM 2.5-NX	DLS 3	LST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

# S-TWLNR/L A-TWLNR/L









Boring Bar

T-holder type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>95°</b> 	<b>S25R TWLNR/L 0604</b>	25	23	200	40	17	32	WNMX 0604...
	<b>S32S TWLNR/L 0604</b>	32	30	250	45	22	40	
<b>95°</b> 	<b>A25R TWLNR/L 0604</b>	25	23	200	40	17	32	WNMX 0604...
	<b>A32S TWLNR/L 0604</b>	32	30	250	45	22	40	

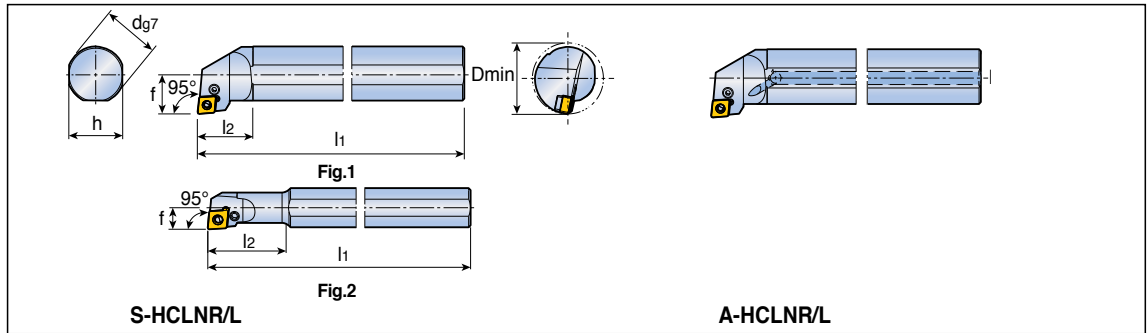
## Spare parts

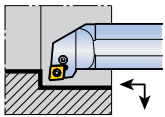
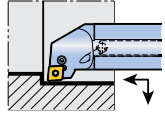
Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Nozzle	Wrench	
								
<b>S25R ...0604</b>	DLM 3-NX	DLS 3	LSW 32	SO 40073I	DSP 3	-	L-W 2.5	T 15
<b>S32S ...0604</b>	DLM 3-NX	DLS 3	LSW 32	SO 40085I	DSP 3	-	L-W 2.5	T 15
<b>A25R ...0604</b>	DLM 3-NX	DLS 3	LSW 32	SO 40073I	DSP 3	NZ 62	L-W 2.5	T 15
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

# S-HCLNR/L A-HCLNR/L







Boring Bar

Hook lever type



Approach angle	Designation	Dimension (mm)						Fig.	Insert
		dg7	h	l1	l2	f	Dmin		
 <p>95°</p>	<b>S16Q HCLNR/L 0904</b>	16	15	180	25	11	20	1	CN... 0904...
	<b>S20Q HCLNR/L 0904</b>	20	18	180	28	13	25	1	
	<b>S20Q HCLNR/L 0904-D20</b>	20	18	180	40	11	20	2	
	<b>S25R HCLNR/L 0904</b>	25	23	200	31	17	32	1	
	<b>S32S HCLNR/L 0904</b>	32	30	250	31	22	40	1	
	<b>S40T HCLNR/L 0904</b>	40	37	300	55	27	50	1	
 <p>95°</p>	<b>A16Q HCLNR/L 0904</b>	16	15	180	25	11	20		CN... 0904...
	<b>A20Q HCLNR/L 0904</b>	20	18	180	28	13	25		
	<b>A25R HCLNR/L 0904</b>	25	23	200	31	17	32		
	<b>A32S HCLNR/L 0904</b>	32	30	250	31	22	40		

## Spare parts

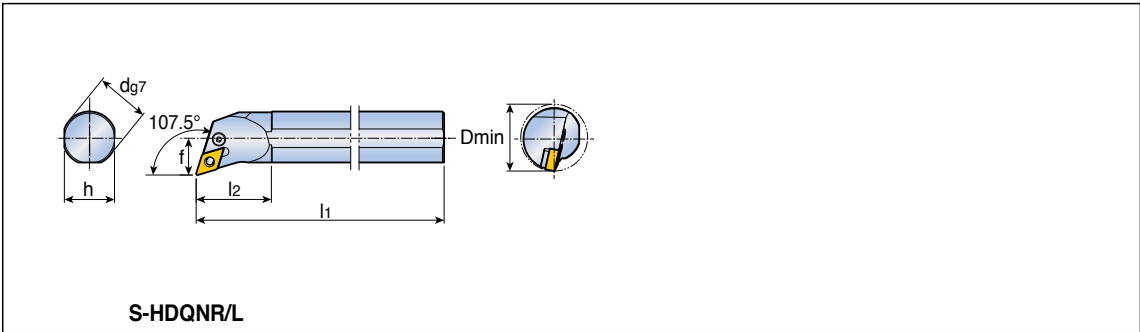
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
<b>S ...0904</b>								
<b>S ...0904...D</b>	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2		
<b>S32S ...0904</b>	LCL 09-NX	LCS 3	LSC 32	LSP 3A	-	L-W 2.5		
<b>S40T ...0904</b>	LCL 09-NX	LCS 3	LSC 32	LSP 3A	-	L-W 2.5		
<b>A ...0904</b>	LCL 09B-NX	LCS 3B	-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



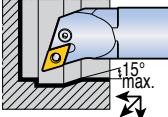
# S-HDQNR/L

## Boring Bar

### Hook lever type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
107.5°	<b>S32S HDQNR/L 1305</b>	32	30	250	45	22	40	DN... 1305...	



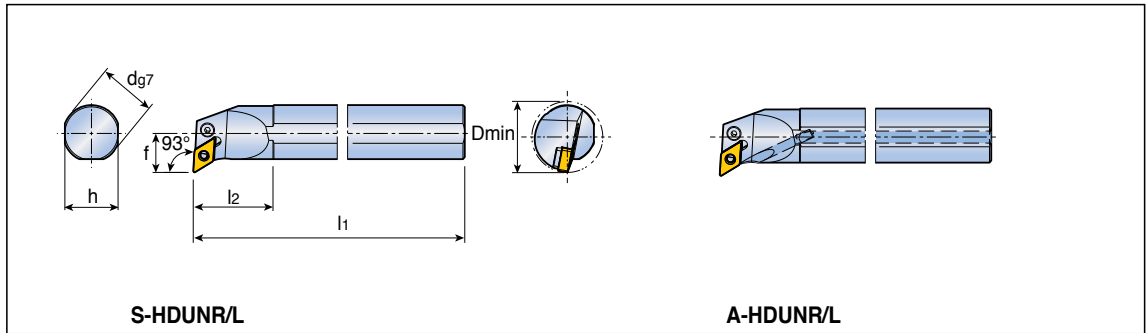
### Spare parts

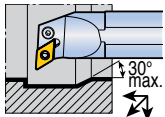
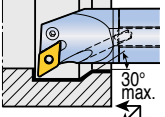
Designation	Lever	Screw	Shim	Shim pin	Wrench			
...1305	LCL 11-NX	LSC 4S	LSD 3.52B	LSP 4	L-W 3			

# S-HDUNR/L A-HDUNR/L






Boring Bar

Hook lever type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
<b>93°</b> 	<b>S32S HDUNR/L 1305</b>	32	30	250	45	22	40	DN... 1305...	
	<b>S40T HDUNR/L 1305</b>	40	37	300	55	27	50		
<b>93°</b> 	<b>A32S HDUNR/L 1305</b>	32	30	250	45	22	40	DN... 1305...	
	<b>A40T HDUNR/L 1305</b>	40	37	300	55	27	50		

## Spare parts

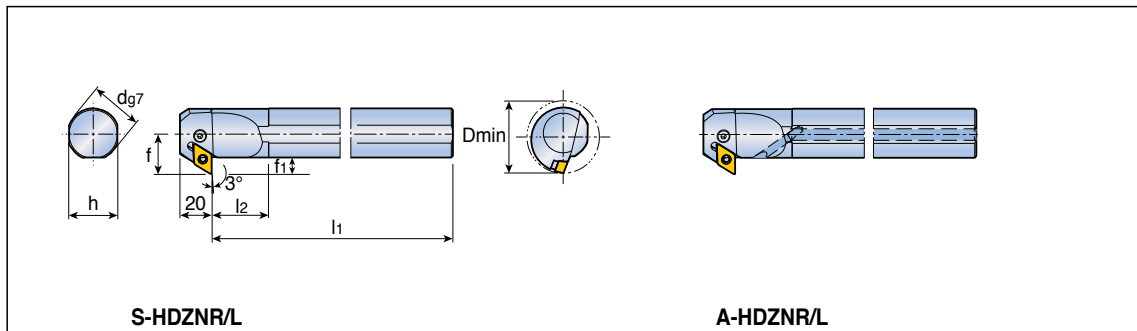
Designation	Lever	Screw	Shim	Shim pin	Wrench			
...1305	 LCL 11-NX	 LCS 4S	 LSD 3.52B	 LSP 4	 L-W 3			

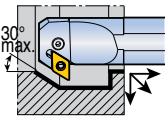
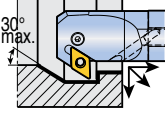
# S-HDZNR/L A-HDZNR/L

Boring Bar






RHINOTURN

Hook lever type



Approach angle	Designation	Dimension (mm)									Insert
		dg7	h	l1	l2	f	f1	Dmin			
<b>93°</b> 	<b>S32S HDZNR/L 1305</b>	32	30	250	35	25	10.5	45	DN... 1305...		
	<b>S40T HDZNR/L 1305</b>	40	37	300	40	29	10.5	50			
<b>93°</b> 	<b>A32S HDZNR/L 1305</b>	32	30	250	35	25	10.5	45	DN... 1305...		
	<b>A40T HDZNR/L 1305</b>	40	37	300	40	29	10.5	50			

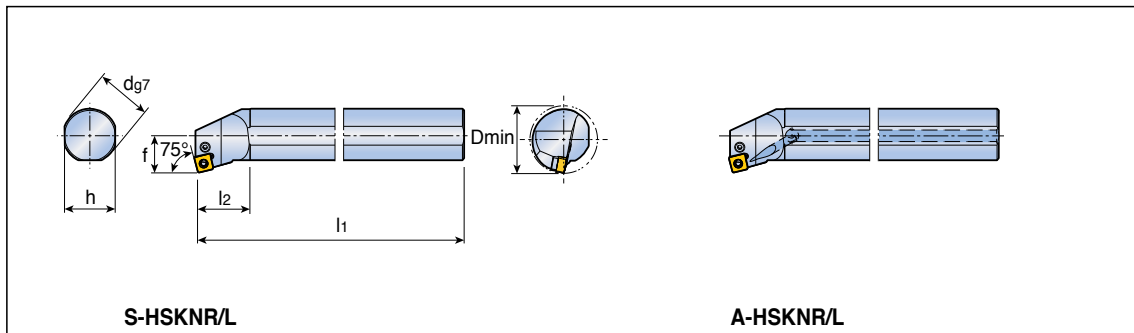
## Spare parts

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

# S-HSKNR/L A-HSKNR/L

Boring Bar

## Hook lever type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
75°	<b>S25R HSKNR/L 0904</b>	25	23	200	31	17	32	SNMG 0904...
	<b>S32S HSKNR/L 0904</b>	32	30	250	31	22	40	
75°	<b>A25R HSKNR/L 0904</b>	25	23	200	31	17	32	SNMG 0904...
	<b>A32S HSKNR/L 0904</b>	32	30	250	31	22	40	

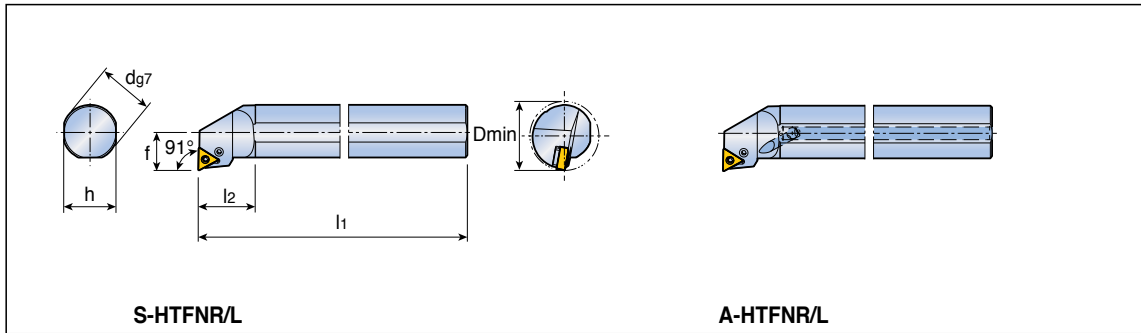
## Spare parts

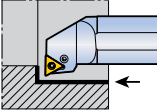
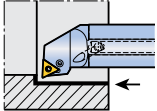
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
...25R ...0904	LCL 09B-NX	LCS 3B	-	-	LSR 3B	L-W 2		
...32S ...0904	LCL 09-NX	LCS 3	LSS 32	LSP 3A	-	L-W 2.5		

# S-HTFNR/L A-HTFNR/L







Boring Bar

## Hook lever type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
91° 	<b>S16Q HTFNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>S20Q HTFNR/L 1304</b>	20	18	180	28	13	25	
	<b>S25R HTFNR/L 1304</b>	25	23	200	33	17	32	
	<b>S32S HTFNR/L 1304</b>	32	30	250	33	22	40	
91° 	<b>A16Q HTFNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>A20Q HTFNR/L 1304</b>	20	18	180	28	13	25	
	<b>A25R HTFNR/L 1304</b>	25	23	200	33	17	32	
	<b>A32S HTFNR/L 1304</b>	32	30	250	33	22	40	

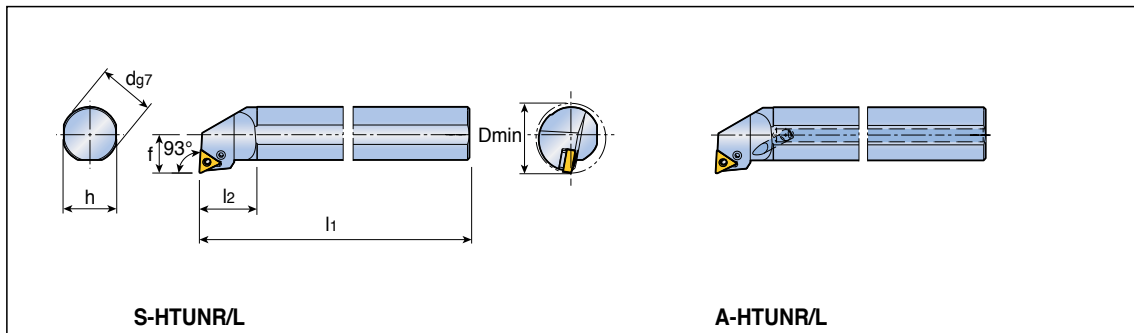
## Spare parts

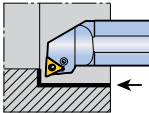
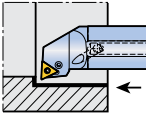
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
...1304	 LCL 08B-NX	 LCS 3B	 -	 -	 LSR 3B	 L-W 2		
...32S ...1304	LCL 08-NX	LCS 3-NX	LST 2.51.8B	LSP 3B	-	L-W 2.5		

# S-HTUNR/L A-HTUNR/L







Boring Bar

Hook lever type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>93°</b> 	<b>S16Q HTUNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>S20Q HTUNR/L 1304</b>	20	18	180	28	13	25	
	<b>S25R HTUNR/L 1304</b>	25	23	200	33	17	32	
	<b>S32S HTUNR/L 1304</b>	32	30	250	33	22	40	
<b>93°</b> 	<b>A16Q HTUNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>A20Q HTUNR/L 1304</b>	20	18	180	28	13	25	
	<b>A25R HTUNR/L 1304</b>	25	23	200	33	17	32	
	<b>A32S HTUNR/L 1304</b>	32	30	250	33	22	40	

## Spare parts

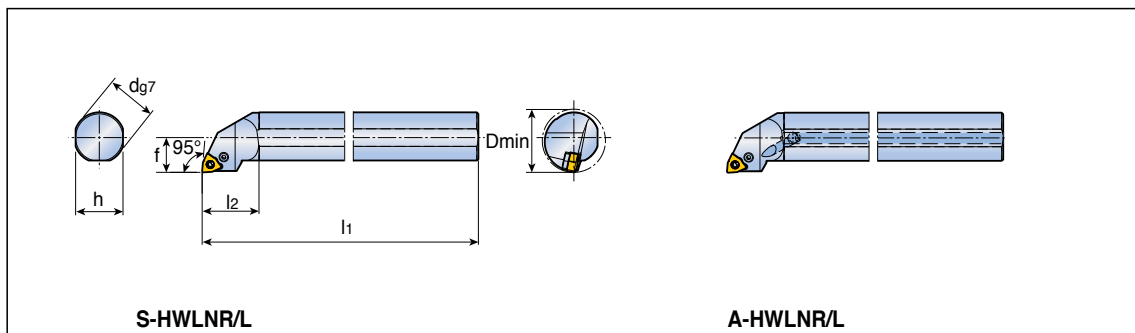
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
...1304	 LCL 08B-NX	 LCS 3B	 -	 -	 LSR 3B	 L-W 2		
...32S ...1304	LCL 08-NX	LCS 3-NX	LST 2.51.8B	LSP 3B	-	L-W 2.5		

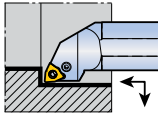
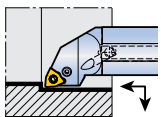
# S-HWLNRL/L A-HWLNRL/L

Boring Bar







RHINOTURN

Hook lever type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>95°</b> 	<b>S16Q HWLNRL/L 0604</b>	16	15	180	30	11	20	WNNMX 0604...
	<b>S20Q HWLNRL/L 0604</b>	20	18	180	33	13	25	
	<b>S25R HWLNRL/L 0604</b>	25	23	200	36	17	32	
	<b>S32S HWLNRL/L 0604</b>	32	30	250	36	22	40	
<b>95°</b> 	<b>A16Q HWLNRL/L 0604</b>	16	15	180	30	11	20	WNNMX 0604...
	<b>A20Q HWLNRL/L 0604</b>	20	18	180	33	13	25	
	<b>A25R HWLNRL/L 0604</b>	25	23	200	36	17	32	
	<b>A32S HWLNRL/L 0604</b>	32	30	250	36	22	40	

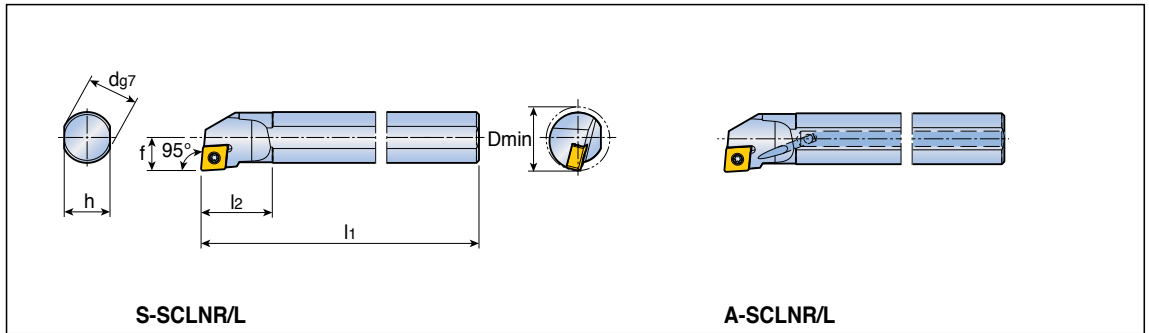
## Spare parts

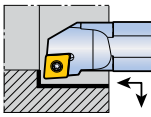
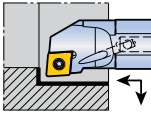
Designation	Lever	Screw	Shim	Shim pin	Snap ring	Wrench		
<b>...0604</b>	 LCL 09B-NX	 LCS 3B	 -	 -	 LSR 3B	 L-W 2		
<b>...32S ...0604</b>	LCL 09-NX	LCS 3	LSW 32	LSP 3A	-	L-W 2.5		

# S-SCLNR/L A-SCLNR/L







Boring Bar

## Screw type



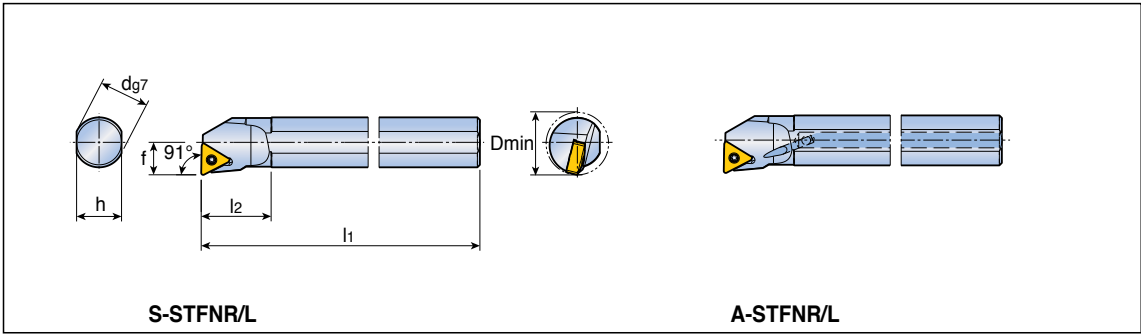
Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
<b>95°</b> 	<b>S16Q SCLNR/L 0904</b>	16	15	180	25	11	20	CN... 0904...	
	<b>S20Q SCLNR/L 0904</b>	20	18	180	28	13	25		
	<b>S20Q SCLNR/L 0904-D20</b>	20	18	180	40	11	20		
<b>95°</b> 	<b>A16Q SCLNR/L 0904</b>	16	15	180	25	11	20	CN... 0904...	
	<b>A20Q SCLNR/L 0904</b>	20	18	180	28	13	25		

## Spare parts

Designation	Screw	Sealing screw	Wrench			
<b>S ...0904</b>	 TS 35083I/HG	 -	 T 10			
<b>A ...0904</b>	 TS 35083I/HG	 RSS M4	 T 10			



## Screw type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
91°	<b>S16Q STFNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>S20Q STFNR/L 1304</b>	20	18	180	28	13	25	
91°	<b>A16Q STFNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...
	<b>A20Q STFNR/L 1304</b>	20	18	180	28	13	25	

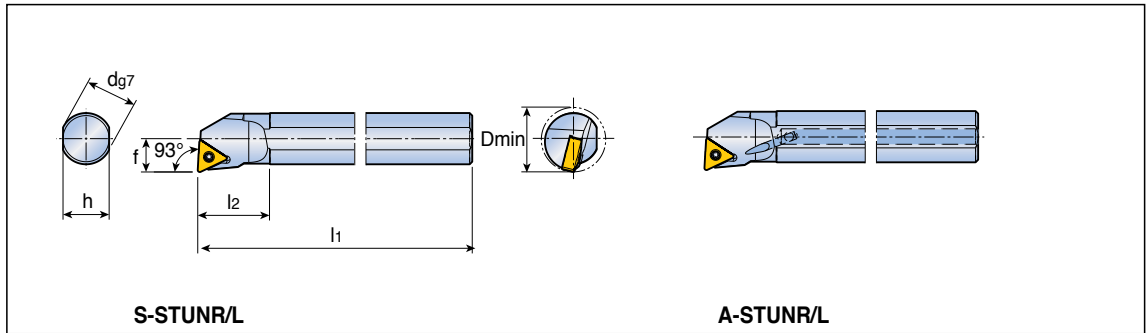
## Spare parts

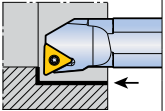
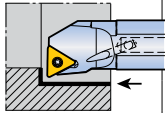
Designation	Screw	Sealing screw	Wrench			
<b>S ...1304</b>	TS 30080I/HG	-	T 9			
<b>A ...1304</b>	TS 30080I/HG	RSS M4	T 9			

# S-STUNR/L A-STUNR/L







Boring Bar

## Screw type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
 93°	<b>S16Q STUNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...	
	<b>S20Q STUNR/L 1304</b>	20	28	180	28	13	25		
 93°	<b>A16Q STUNR/L 1304</b>	16	15	180	25	11	20	TN... 1304...	
	<b>A20Q STUNR/L 1304</b>	20	18	180	28	13	25		

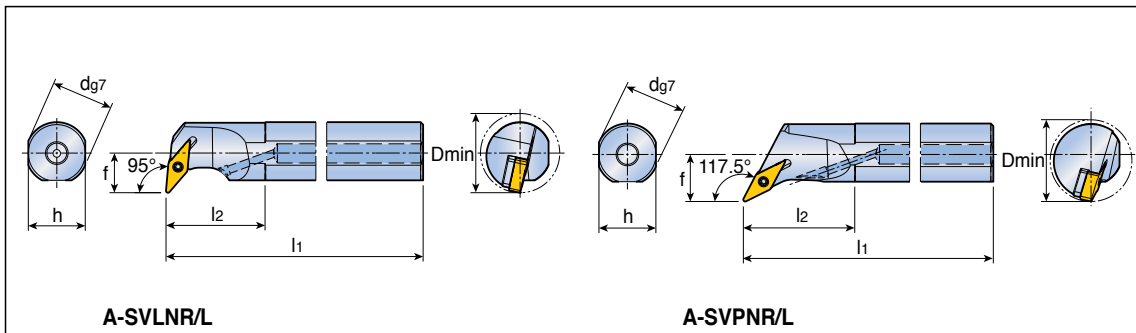
## Spare parts

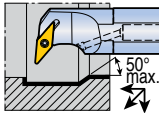
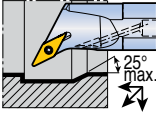
Designation	Screw	Sealing screw	Wrench			
<b>S ...1304</b>	 TS 30080I/HG	 -	 T 9			
<b>A ...1304</b>	 TS 30080I/HG	 RSS M4	 T 9			

# A-SVLNR/L A-SVPCR/L






Boring Bar

## Screw type



Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
<b>95°</b> 	<b>A25T SVLNR/L 1304</b>	25	23	300	40	16	31	VN...X 1304...
	<b>A32T SVLNR/L 1304</b>	32	30	300	45	20	38	YNMG 1304...
<b>117.5°</b> 	<b>A25T SVPCR/L 1304</b>	25	23	300	45	19	33	VN...X 1304...
	<b>A32T SVPCR/L 1304</b>	32	30	300	47	26	44	YNMG 1304...

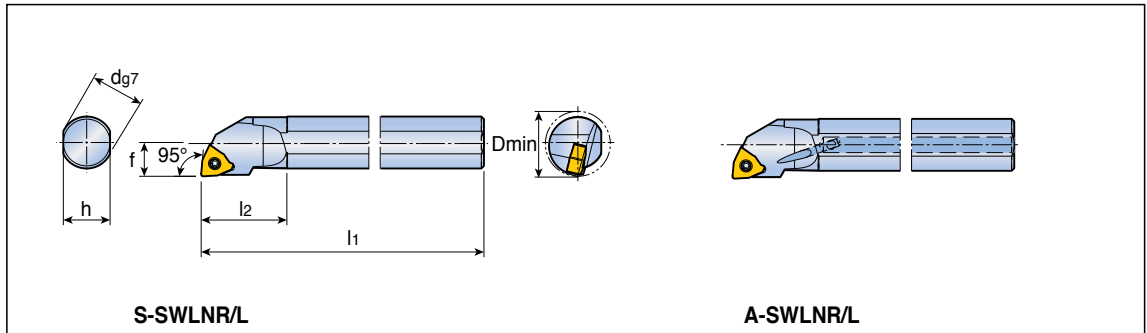
## Spare parts

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

# S-SWLNR/L A-SWLNR/L

Boring Bar

## Screw type

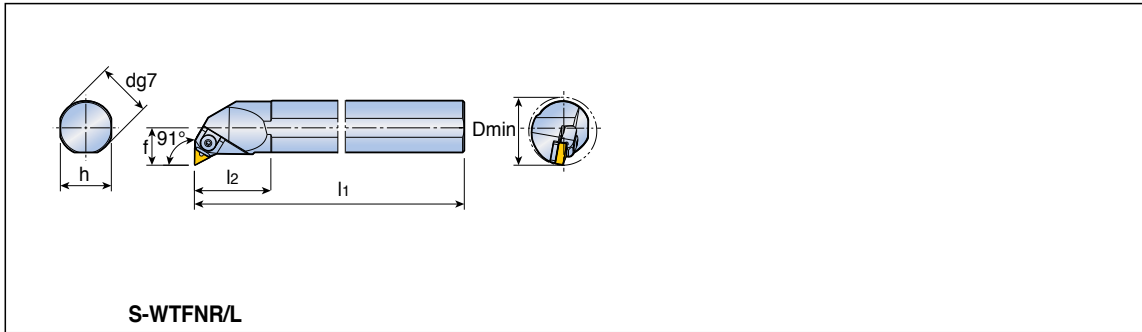


Approach angle	Designation	Dimension (mm)						Insert
		dg7	h	l1	l2	f	Dmin	
95°	<b>S16Q SWLNR/L 0604</b>	16	15	180	30	11	20	WNMX 0604...
	<b>S20Q SWLNR/L 0604</b>	20	18	180	33	13	25	
95°	<b>A16Q SWLNR/L 0604</b>	16	15	180	30	11	20	WNMX 0604...
	<b>A20Q SWLNR/L 0604</b>	20	18	180	33	13	25	

## Spare parts

Designation	Screw	Sealing screw	Wrench			
<b>S... ..0604</b>	TS 35083I/HG	-	T 10			
<b>A... ..0604</b>	TS 35083I/HG	RSS M4	T 10			

## Wedge clamp type



Approach angle	Designation	Dimension (mm)							Insert
		dg7	h	l1	l2	f	Dmin		
<b>91°</b>	<b>S25R WTFNR/L 1304</b>	25	23	200	40	17	32	TN... 1304...	
	<b>S32S WTFNR/L 1304</b>	32	30	250	45	22	40		

## Spare parts

Designation	Wedge clamp	Screw	Snap ring	Shim	Pin screw	Wrench		
<b>S25R...1304</b>	WC 2.53	WCS 2.5	CSR 2	-	WSS 2.52-1	L-W 2.5		
<b>S32S...1304</b>	WC 2.53	WCS 2.5	CSR 2	WST 2.52	WSS 2.52	L-W 2.5		

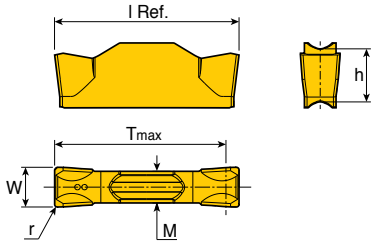


# RHINO GROOVE



# RDC

## Double-ended inserts for shallow grooving and parting with "C" type chip breaker



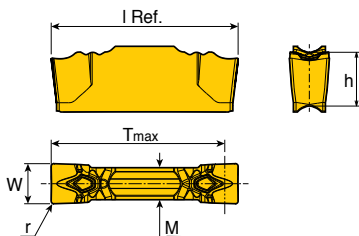
Size	Dimension (mm)					
	W±0.05	r	M	l	h	T <sub>max</sub>
2	2.0	0.20	1.7	14.0	4.0	13
3	3.0	0.20	2.4	14.0	4.0	13
4	4.0	0.30	3.0	14.0	4.0	13
5	5.0	0.30	4.0	17.5	5.1	17

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

● : Standard Items

# RDJ

## Double-ended inserts for shallow grooving and parting with "J" type chip breaker



Size	Dimension (mm)					
	W±0.05	r	M	l	h	T <sub>max</sub>
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

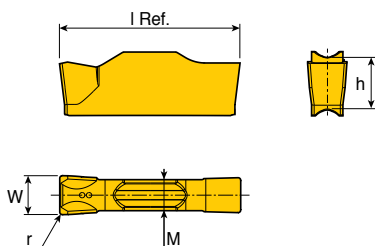
Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT7220	TT8020
	<b>RDJ 2</b>	2	0.04 - 0.12	●	●	●
	<b>3</b>	3	0.04 - 0.16	●	●	●
	<b>4</b>	4	0.05 - 0.18	●	●	●
	<b>5</b>	5	0.05 - 0.20	●	●	●

● : Standard Items




# RSC

## Single-ended inserts for deep grooving and parting with "C" type chip breaker



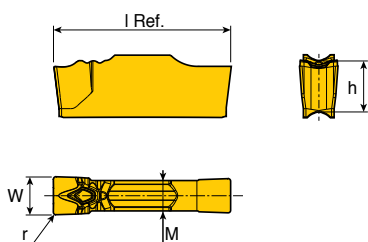
Size	Dimension (mm)				
	W±0.05	r	M	l	h
2	2.0	0.20	1.6	14.0	4.0
3	3.0	0.20	2.4	14.0	4.0
4	4.0	0.30	3.0	14.0	4.0
5	5.0	0.30	4.0	17.5	5.1

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


● : Standard Items

# RSJ

## Single-ended inserts for deep grooving and parting with "J" type chip breaker



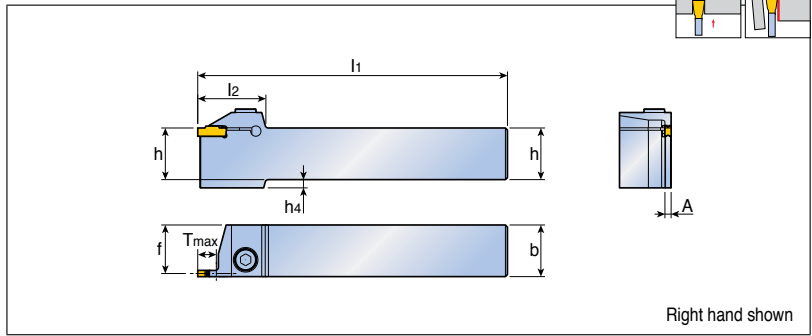
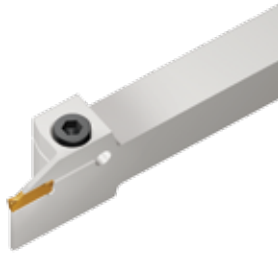
Size	Dimension (mm)				
	W±0.05	r	M	l	h
2	2.0	0.20	1.6	14.0	4.0
3	3.0	0.20	2.4	14.0	4.0
4	4.0	0.30	3.0	14.0	4.0
5	5.0	0.30	4.0	17.5	5.1

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

● : Standard Items



# RGER/L

## External shallow grooving and parting



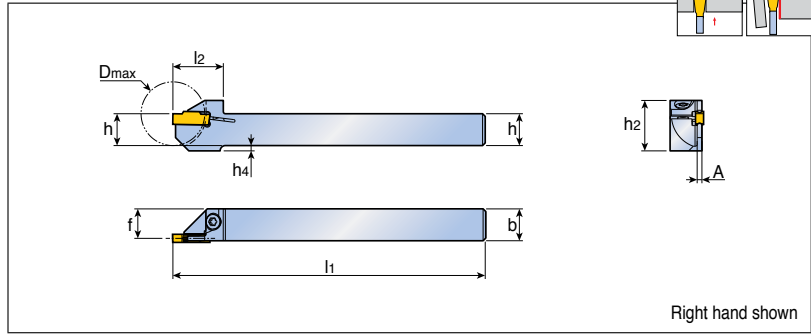
Designation	Insert seat size	Dimension (mm)								Torque (N.m)	Insert
		h	b	l <sub>1</sub>	f	l <sub>2</sub>	A	h <sub>4</sub>	T <sub>max</sub>		
<b>RGER/L 1616-2T16</b>	2	16	16	110	15.1	35	1.8	4	16	8.0	RDC/J RSC/J
<b>2020-2T16</b>	2	20	20	125	19.1	35	1.8	-	16	8.0	
<b>2525-2T16</b>	2	25	25	150	24.1	35	1.8	-	16	8.0	
<b>1616-3T16</b>	3	16	16	110	14.8	35	2.4	4	16	8.0	
<b>2020-3T16</b>	3	20	20	125	18.8	35	2.4	-	16	8.0	
<b>2525-3T16</b>	3	25	25	150	23.8	35	2.4	-	16	8.0	
<b>2020-4T16</b>	4	20	20	125	18.5	35	3.0	-	16	8.0	
<b>2525-4T16</b>	4	25	25	150	23.5	35	3.0	-	16	8.0	
<b>2020-5T20</b>	5	20	20	125	18.1	37	3.85	-	20	8.0	
<b>2525-5T20</b>	5	25	25	150	23.1	37	3.85	-	20	8.0	

### Spare parts

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



# RGER/L-SH

External shallow grooving and parting for swiss type lathe



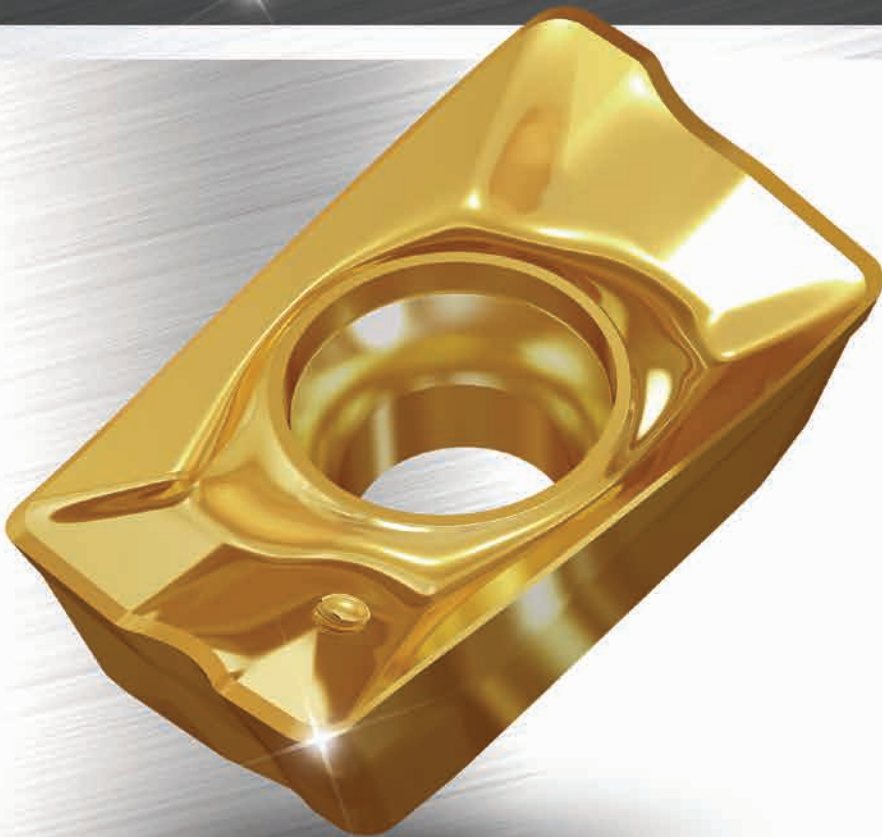
Designation	Insert seat size	Dimension (mm)									Torque (N.m)	Insert
		h	b	l <sub>1</sub>	f	l <sub>2</sub>	A	h <sub>2</sub>	h <sub>4</sub>	D <sub>max</sub>		
<b>RGER/L 12-24-2SH</b>	2	12	12	125	11.1	19	1.8	19.0	2	24	2.0	RDC/J RSC/J
<b>16-24-2SH</b>	2	16	16	125	15.1	24	1.8	21.0	-	24	2.0	
<b>12-24-3SH</b>	3	12	12	125	10.8	19	2.4	19.0	2	24	2.0	
<b>14-24-3SH</b>	3	14	14	125	12.8	19	2.4	19.0	-	24	2.0	
<b>16-24-3SH</b>	3	16	16	125	14.8	19	2.4	21.0	-	24	2.0	

## Spare parts

Designation	Screw	Wrench		
				
<b>RGER/L-SH</b>	TS 40A115I	T 15		

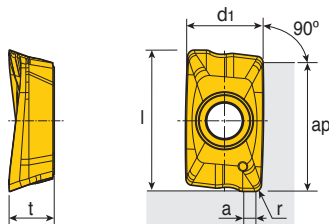


# RHINO MILL





# APKT 1604

## Inserts



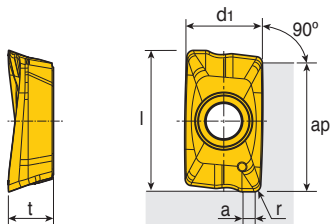
Size	Dimension (mm)					
	l	d1	t	ap	a	r
<b>1604-REM</b>	17.3	9.5	5.26	15	1.5	0.8
<b>1604-RRE</b>	17.3	9.6	5.56	15	1.5	0.8

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


- 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



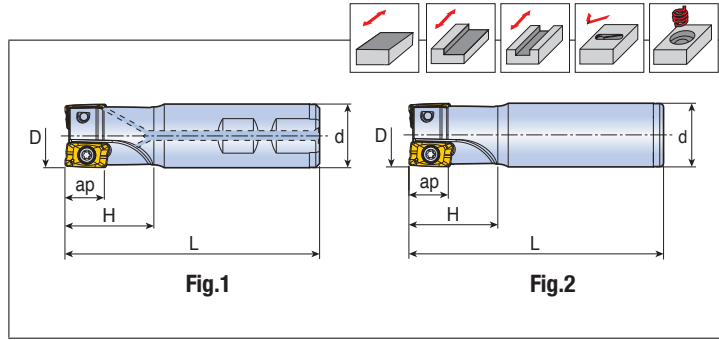
Size	Dimension (mm)					
	l	d1	t	ap	a	r
<b>09</b>	10.7	6.3	3.6	8.8	0.8	0.4

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

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

# TE90AP-16

## End mill



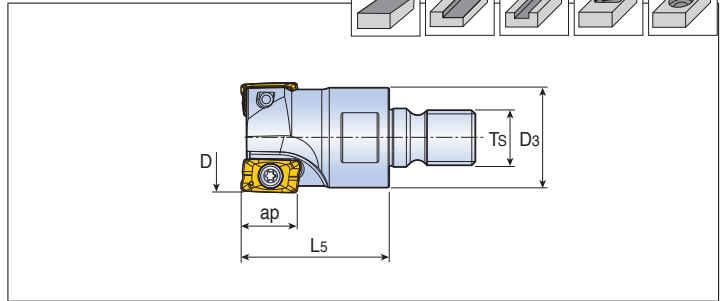
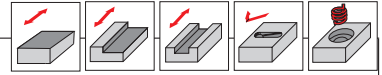
Designation		Dimension (mm)					Coolant	Fig.		Insert
		D	d	L	H	ap				
<b>TE90AP 120-W20-16-L90</b>	1	20	20	90	32	15	x	1	0.19	APKT 1604...
<b>120-W20-16-L90-C</b>	1	20	20	90	32	15	○	1	0.18	
<b>225-24-16-L100</b>	2	25	24	100	40	15	x	2	0.30	
<b>225-W25-16-L100</b>	2	25	25	100	39	15	x	1	0.32	
<b>225-W25-16-L100-C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

## Spare parts

Designation	Screw	Wrench		
<b>TE90AP-16 (-Ø25)</b>	TS 400801	TD15		
<b>TE90AP-16 (Ø26-Ø42)</b>	TS 400931	TD15		

# TE90AP-M-16

Modular



Designation		Dimension (mm)						Insert
		D	D <sub>3</sub>	L <sub>5</sub>	TS	ap		
<b>TE90AP 120-M10-16</b>	1	20	18	44.6	10	15	0.09	APKT 1604...
<b>225-M12-16</b>	2	25	21	43	12	15	0.12	
<b>232-M16-16</b>	2	32	29	43	16	15	0.24	
<b>332-M16-16</b>	3	32	29	43	16	15	0.21	
<b>340-M16-16</b>	3	40	29	43	16	15	0.27	
<b>440-M16-16</b>	4	40	29	43	16	15	0.27	

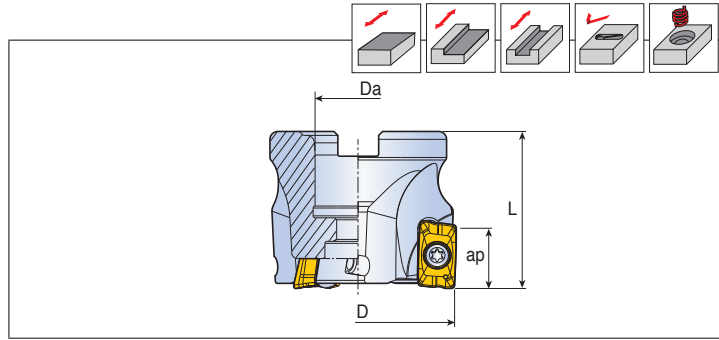
## Spare parts

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



# TFM90AP-16

Face mill



Designation		Dimension (mm)				Arbor style	Kg	Mounting bolt	Insert
		D	Da	L	ap				
<b>TFM90AP340-16R-16</b>	3	40	16	40	15	A	0.2	SH M8X1.25X30	APKT 1604...
<b>440-16R-16</b>	4	40	16	40	15	A	0.2	SH M8X1.25X30	
<b>350-22R-16</b>	3	50	22	40	15	A	0.3	SH M10X1.5X30	
<b>450-22R-16</b>	4	50	22	40	15	A	0.3	SH M10X1.5X30	
<b>550-22R-16</b>	5	50	22	40	15	A	0.3	SH M10X1.5X30	
<b>550-27R-16</b>	5	50	27	50	15	A	0.4	SH M12X1.75X35	
<b>463-22R-16</b>	4	63	22	40	15	A	0.4	SH M10X1.5X30	
<b>663-22R-16</b>	6	63	22	40	15	A	0.5	SH M10X1.5X30	
<b>663-27R-16</b>	6	63	27	50	15	A	0.7	SH M12X1.75X35	
<b>480-27R-16</b>	4	80	27	50	15	A	1.0	SH M12X1.75X35	
<b>580-27R-16</b>	5	80	27	50	15	A	0.9	SH M12X1.75X35	
<b>680-27R-16</b>	6	80	27	50	15	A	1.0	SH M12X1.75X35	
<b>780-27R-16</b>	7	80	27	50	15	A	1.0	SH M12X1.75X35	
<b>6100-32R-16</b>	6	100	32	50	15	B	1.6	-	
<b>8100-32R-16</b>	8	100	32	50	15	B	1.6	-	
<b>7125-40R-16</b>	7	125	40	63	15	B	2.7	-	
<b>8125-40R-16</b>	8	125	40	63	15	B	2.7	-	
<b>9125-40R-16</b>	9	125	40	63	15	B	2.7	-	
<b>8160-40R-16</b>	8	160	40	63	15	C	4.1	-	

## Spare parts

Designation	Screw	Wrench			
<b>TFM90AP-16</b> (Ø40, Ø50, Ø63)	TS 40093I	T-T15			
<b>TFM90AP-16</b> (Ø80~)	TS 40120I	T-T15			

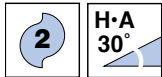
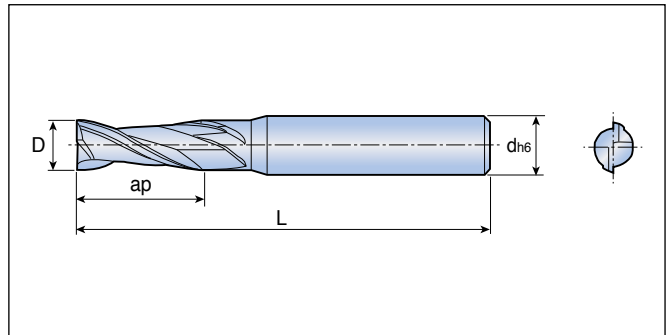


# RHINOSOLID



# RTSE 2...M

2 flute medium flat

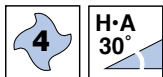
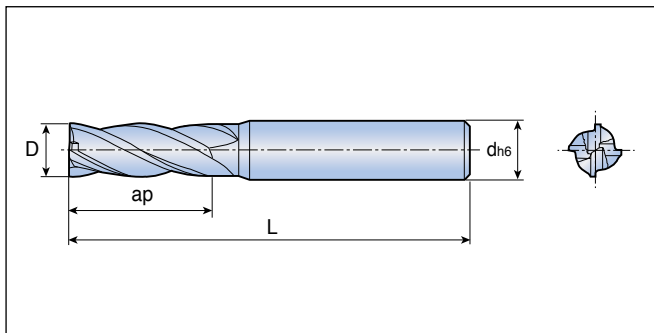


Designation	Feed (mm/tooth)	Dimension (mm)				Grade TT5525
		D	L	ap	d	
<b>RTSE 2010M</b>	0.008-0.030	1.0	42	3	6	●
<b>2015M</b>	0.008-0.030	1.5	42	4	6	●
<b>2020M</b>	0.010-0.030	2.0	42	6	6	●
<b>2025M</b>	0.010-0.030	2.5	42	8	6	●
<b>2030M</b>	0.010-0.030	3.0	57	10	6	●
<b>2035M</b>	0.010-0.030	3.5	47	10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

● : Standard Items

# RTSE 4...M

## 4 flute medium flat

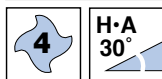
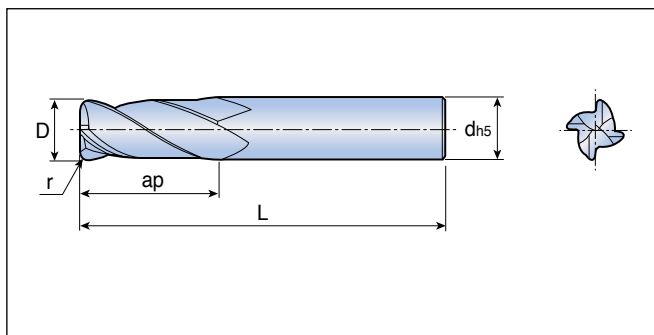


Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		D	L	ap	d	
<b>RTSE 4010M</b>	0.008-0.015	1.0	42	2.5	6	●
<b>4015M</b>	0.008-0.015	1.5	42	4	6	●
<b>4020M</b>	0.008-0.017	2.0	42	6	6	●
<b>4025M</b>	0.008-0.017	2.5	42	8	6	●
<b>4030M</b>	0.009-0.020	3.0	57	10	6	●
<b>4035M</b>	0.010-0.028	3.5	47	10	6	●
<b>4040M</b>	0.010-0.042	4.0	57	12	6	●
<b>4045M</b>	0.010-0.042	4.5	57	14	6	●
<b>4050M</b>	0.020-0.059	5.0	57	14	6	●
<b>4055M</b>	0.020-0.059	5.5	57	14	6	●
<b>4060M</b>	0.020-0.075	6.0	57	16	6	●
<b>4065M</b>	0.020-0.075	6.5	60	20	8	●
<b>4070M</b>	0.020-0.075	7.0	60	20	8	●
<b>4075M</b>	0.020-0.075	7.5	60	20	8	●
<b>4080M</b>	0.030-0.100	8.0	63	20	8	●
<b>4085M</b>	0.030-0.100	8.5	68	25	10	●
<b>4090M</b>	0.030-0.100	9.0	68	25	10	●
<b>4095M</b>	0.030-0.100	9.5	68	25	10	●
<b>4100M</b>	0.030-0.120	10.0	72	22	10	●
<b>4105M</b>	0.030-0.120	10.5	76	30	12	●
<b>4110M</b>	0.030-0.120	11.0	76	30	12	●
<b>4115M</b>	0.030-0.120	11.5	76	30	12	●
<b>4120M</b>	0.030-0.136	12.0	83	25	12	●
<b>4130M</b>	0.030-0.136	13.0	85	35	14	●
<b>4140M</b>	0.030-0.136	14.0	85	35	16	●
<b>4150M</b>	0.040-0.140	15.0	92	32	16	●
<b>4160M</b>	0.040-0.146	16.0	92	32	16	●
<b>4180M</b>	0.040-0.146	18.0	110	45	20	●
<b>4200M</b>	0.050-0.146	20.0	104	38	20	●
<b>4250M</b>	0.050-0.146	25.0	140	65	25	●

● : Standard Items

# RHES 4...T-R

## 4 flute medium corner radius

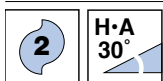
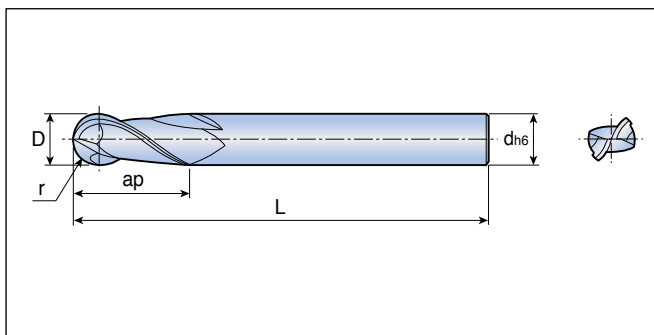


Designation	Feed (mm/tooth)	Dimension (mm)					Grade TT5525
		D	r	L	ap	d	
<b>RHES 4030T-R0.3</b>	0.01-0.04	3	0.3	47	10	6	●
<b>4030T-R0.5</b>	0.01-0.04	3	0.5	47	10	6	●
<b>4040T-R0.3</b>	0.02-0.05	4	0.3	47	12	6	●
<b>4040T-R0.5</b>	0.02-0.05	4	0.5	47	12	6	●
<b>4050T-R0.3</b>	0.02-0.06	5	0.3	52	15	6	●
<b>4050T-R0.5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

● : Standard Items

# RSBE 2...T

2 flute medium ball

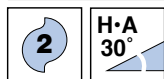
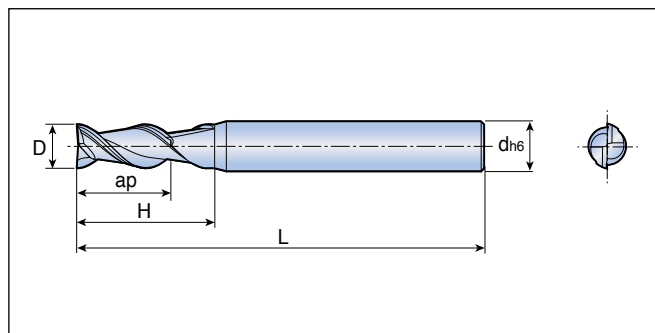


Designation	Dimension (mm)					Grade TT5515
	D	r	L	ap	d	
<b>RSBE 2010T</b>	1.0	0.5	50	1.5	4	●
<b>2015T</b>	1.5	0.75	50	2.3	4	●
<b>2020T</b>	2.0	1.0	50	3.0	4	●
<b>2025T</b>	2.5	1.25	50	3.8	4	●
<b>2030T</b>	3.0	1.5	70	8.0	6	●
<b>2035T</b>	3.5	1.75	70	8.0	6	●
<b>2040T</b>	4.0	2.0	70	8.0	6	●
<b>2045T</b>	4.5	2.25	80	8.0	6	●
<b>2050T</b>	5.0	2.5	80	12.0	6	●
<b>2060T</b>	6.0	3.0	80	12.0	6	●
<b>2070T</b>	7.0	3.5	90	15.0	8	●
<b>2080T</b>	8.0	4.0	90	15.0	8	●
<b>2090T</b>	9.0	4.5	100	20.0	10	●
<b>2100T</b>	10.0	5.0	100	20.0	10	●
<b>2110T</b>	11.0	5.5	110	25.0	12	●
<b>2120T</b>	12.0	6.0	110	25.0	12	●
<b>2140T</b>	14.0	7.0	120	30.0	12	●
<b>2150T</b>	15.0	7.5	125	35.0	16	●
<b>2160T</b>	16.0	8.0	125	35.0	16	●
<b>2180T</b>	18.0	9.0	150	40.0	20	●
<b>2200T</b>	20.0	10.0	150	40.0	20	●

● : Standard Items

## RAES 2

2 flute medium flat



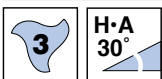
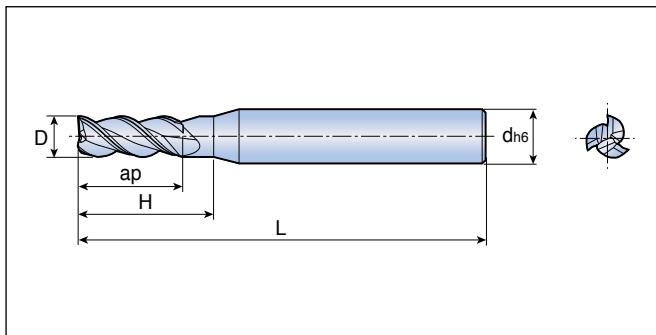
Designation	Feed (mm/tooth)	Dimension (mm)					Grade UF10
		D	L	ap	H	d	
<b>RAES 2010</b>	0.02-0.04	1.0	40	4	6	4	●
<b>2015</b>	0.02-0.04	1.5	40	4	6	4	●
<b>2020</b>	0.02-0.04	2.0	40	6	8	4	●
<b>2025</b>	0.02-0.05	2.5	40	8	10	4	●
<b>2030</b>	0.02-0.05	3.0	47	10	13	6	●
<b>2035</b>	0.02-0.05	3.5	47	10	13	6	●
<b>2040</b>	0.02-0.05	4.0	47	12	15	6	●
<b>2045</b>	0.02-0.05	4.5	47	12	15	6	●
<b>2050</b>	0.02-0.06	5.0	52	15	20	6	●
<b>2060</b>	0.03-0.07	6.0	52	15	-	6	●
<b>2070</b>	0.03-0.09	7.0	60	20	26	8	●
<b>2080</b>	0.03-0.09	8.0	60	20	-	8	●
<b>2090</b>	0.03-0.10	9.0	68	25	31	10	●
<b>2100</b>	0.03-0.10	10.0	68	25	-	10	●
<b>2110</b>	0.03-0.12	11.0	76	30	37	12	●
<b>2120</b>	0.03-0.12	12.0	76	30	-	12	●
<b>2130</b>	0.03-0.12	13.0	85	35	40	14	●
<b>2140</b>	0.05-0.14	14.0	85	35	-	14	●
<b>2150</b>	0.05-0.14	15.0	90	40	50	16	●
<b>2160</b>	0.05-0.14	16.0	90	40	-	16	●
<b>2170</b>	0.05-0.15	17.0	110	45	55	18	●
<b>2180</b>	0.05-0.15	18.0	110	45	-	18	●
<b>2190</b>	0.05-0.15	19.0	110	45	55	20	●
<b>2200</b>	0.05-0.15	20.0	110	45	-	20	●

● : Standard Items



# RAES 3

## 3 flute medium flat



Designation	Feed (mm/tooth)	Dimension (mm)					Grade UF10
		D	L	ap	H	d	
<b>RAES 3020</b>	0.02-0.05	2	47	6	8	6	●
<b>3030</b>	0.02-0.05	3	47	10	13	6	●
<b>3040</b>	0.02-0.05	4	47	12	15	6	●
<b>3050</b>	0.02-0.06	5	52	15	20	6	●
<b>3060</b>	0.03-0.07	6	52	15	-	6	●
<b>3070</b>	0.03-0.09	7	60	20	26	8	●
<b>3080</b>	0.03-0.09	8	60	20	-	8	●
<b>3090</b>	0.03-0.10	9	68	25	31	10	●
<b>3100</b>	0.03-0.10	10	68	25	-	10	●
<b>3110</b>	0.03-0.12	11	76	30	37	12	●
<b>3120</b>	0.03-0.12	12	76	30	-	12	●
<b>3130</b>	0.03-0.12	13	85	35	40	14	●
<b>3140</b>	0.05-0.14	14	85	35	-	14	●
<b>3150</b>	0.05-0.14	15	90	40	50	16	●
<b>3160</b>	0.05-0.14	16	90	40	-	16	●
<b>3180</b>	0.05-0.15	18	110	45	-	18	●
<b>3200</b>	0.05-0.15	20	110	45	-	20	●

● : Standard Items





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