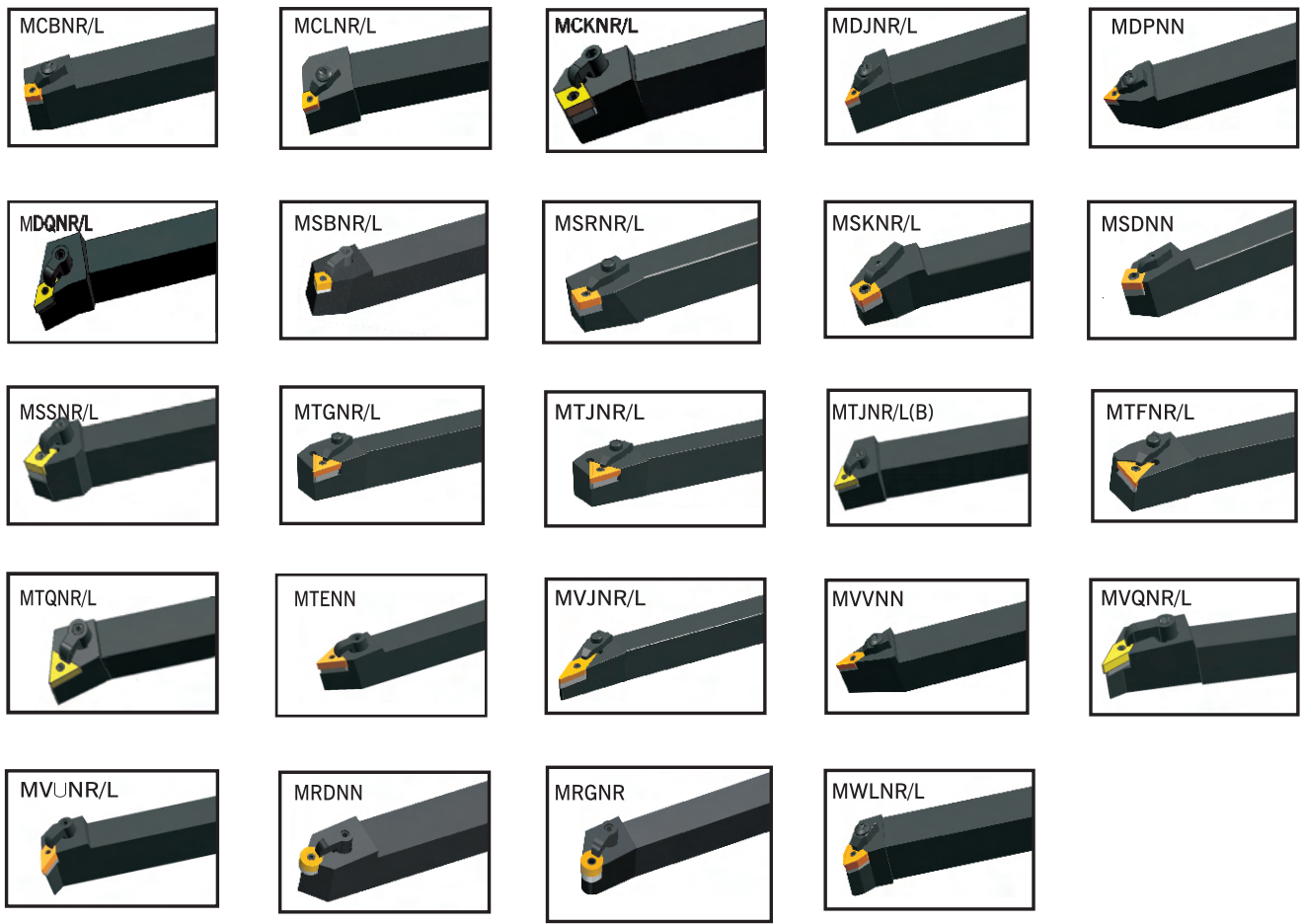


Our company's main products include external turning tools, internal turning tools of M,P,D,S,W,C type and threading tools, parting and grooving tools, indexable milling tools, drilling tools. At the same time, we can also undertake all types of non-standard tools.

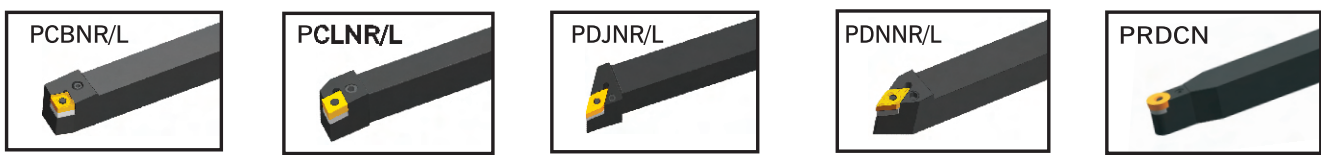
Based on the excellent design, top-class CNC center, accurate testing equipment and perfect management process, Sant series' quality is always in the leading level. Since the establishment of our company we has always insisted: "United and Innovative, Honest and Pragmatic, Pioneering for progress, Pursuing win-win outcomes". We've established good cooperation relationship with many large and medium-size enterprises and dealers all over the world. We'll work hard together persistently to support high-quality products and satisfactory service for all the customers!



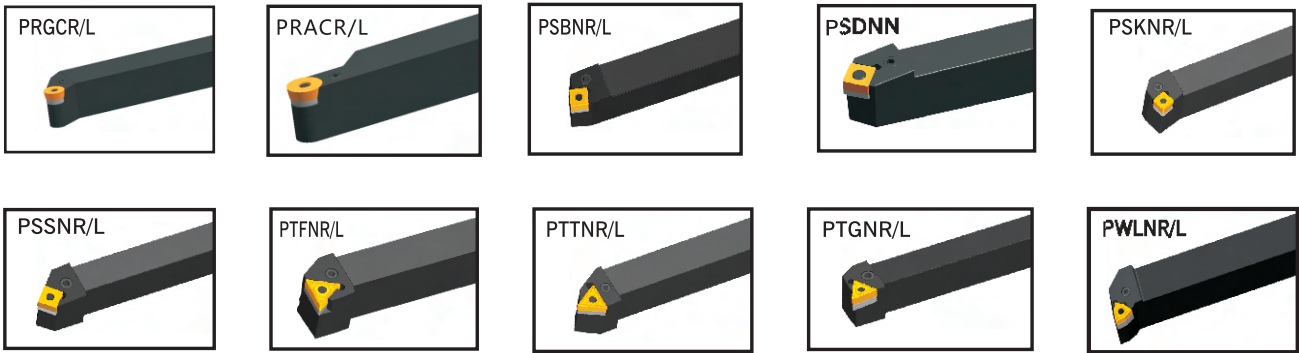
M Top and hole clamping



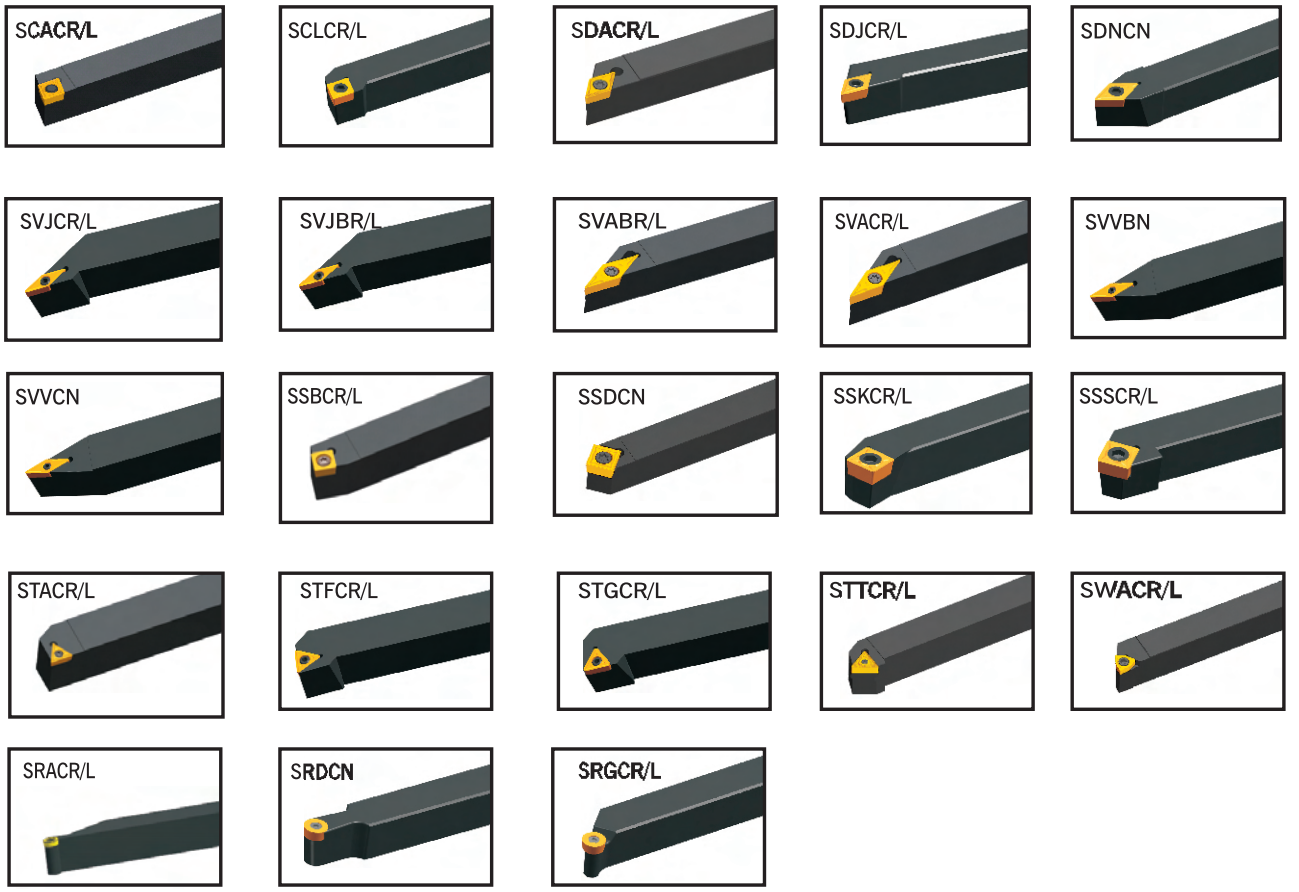
P Hole clamping



Turning tools

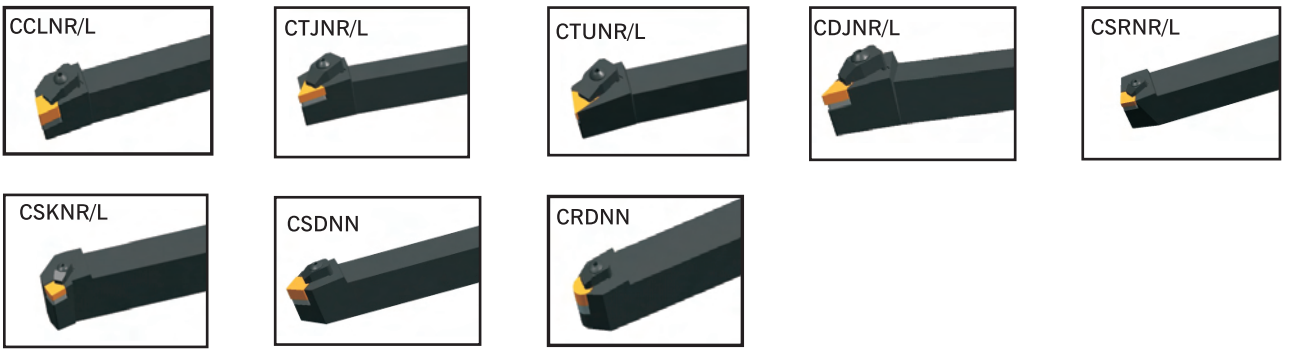


S Screw on

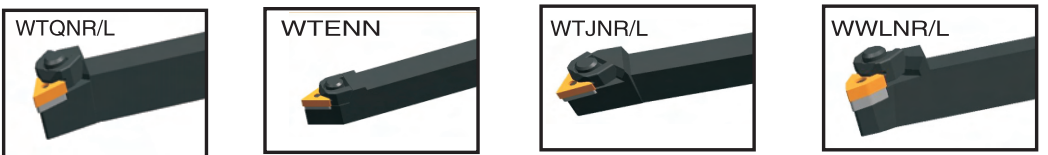


Turning tools

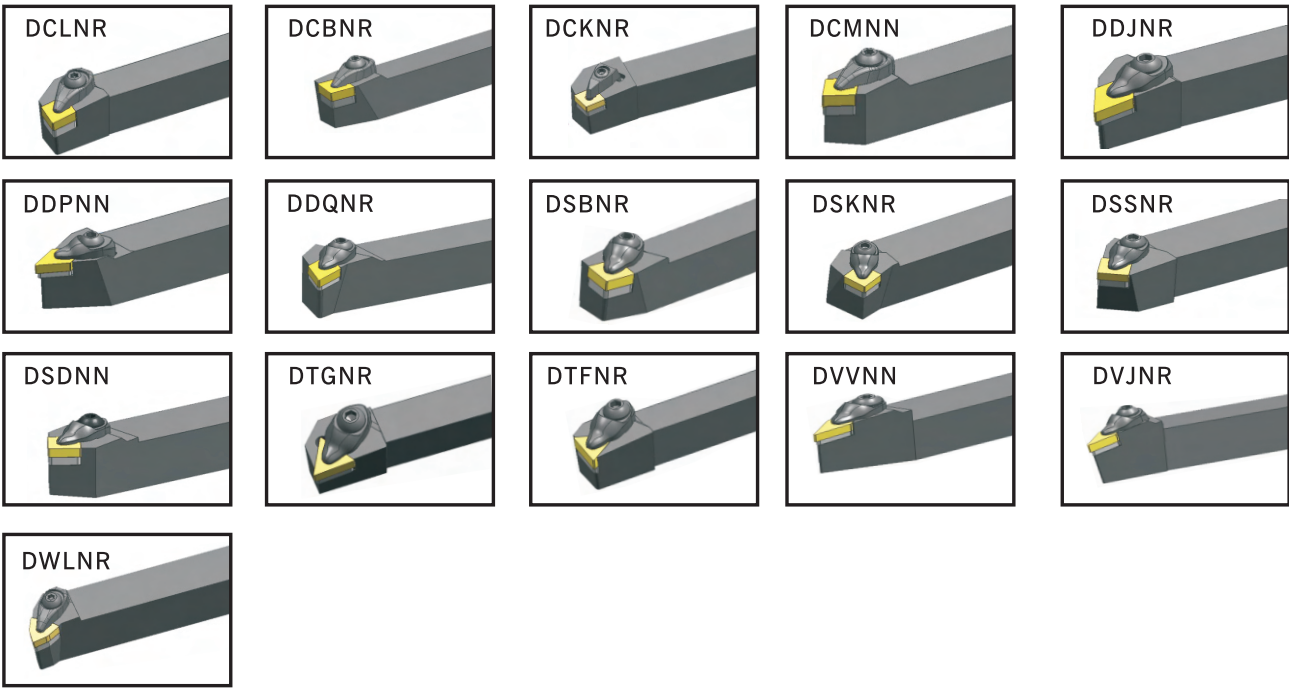
C Top clamping



W Wedge clamping



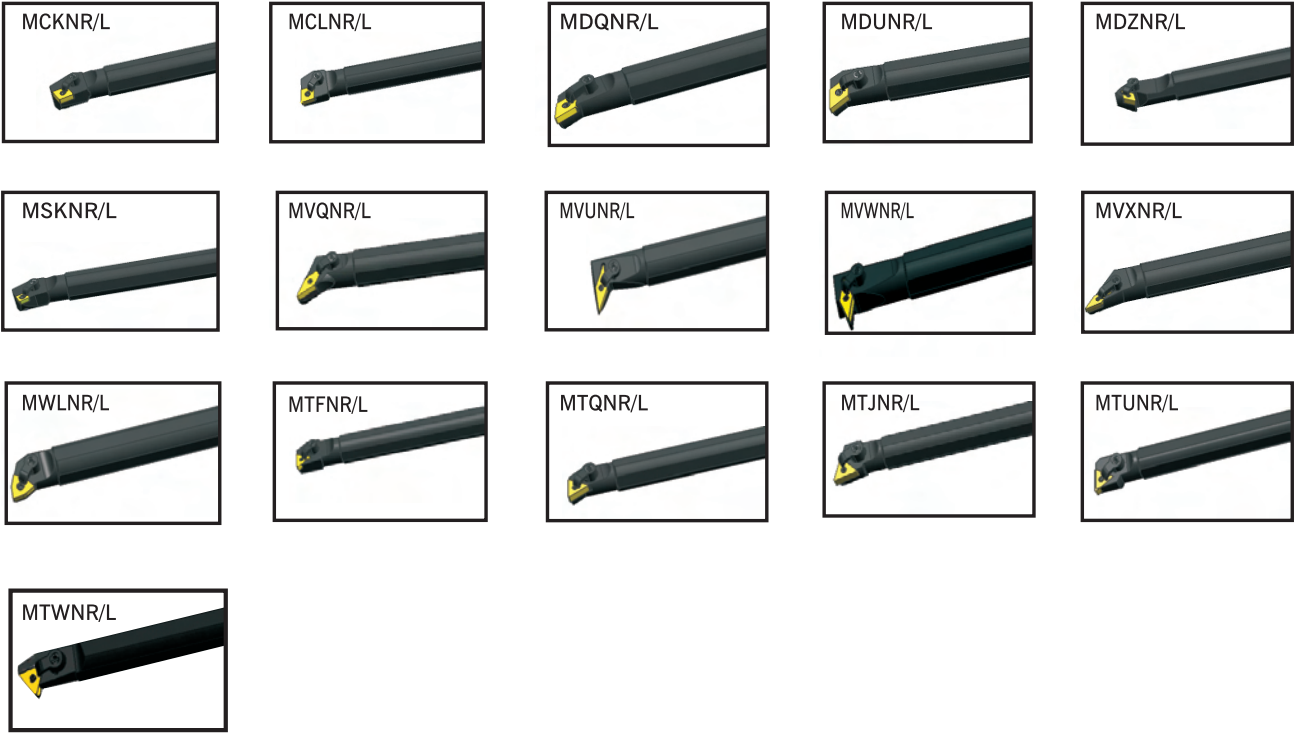
D Wedge clamping



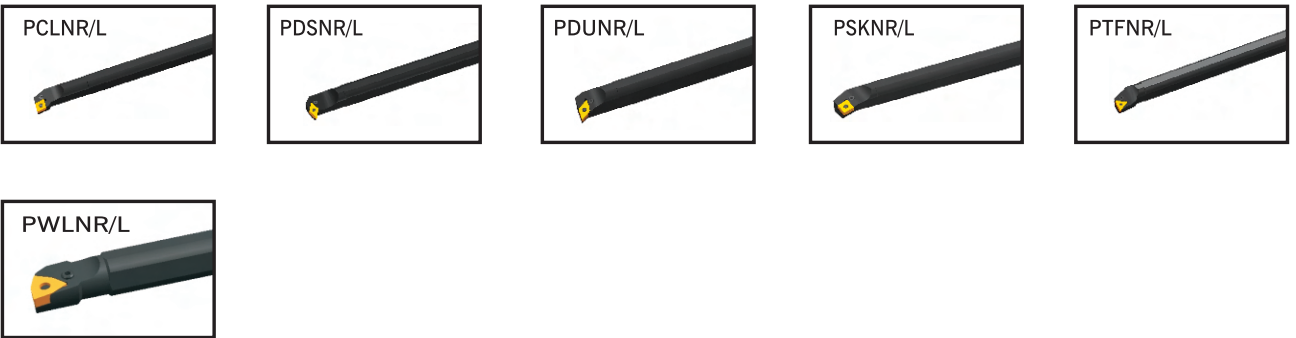
Turning tools

Interant toolholders

M top and hole clamping



P Hole clamping

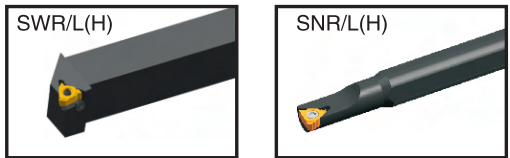


Turning tools

S Screw on

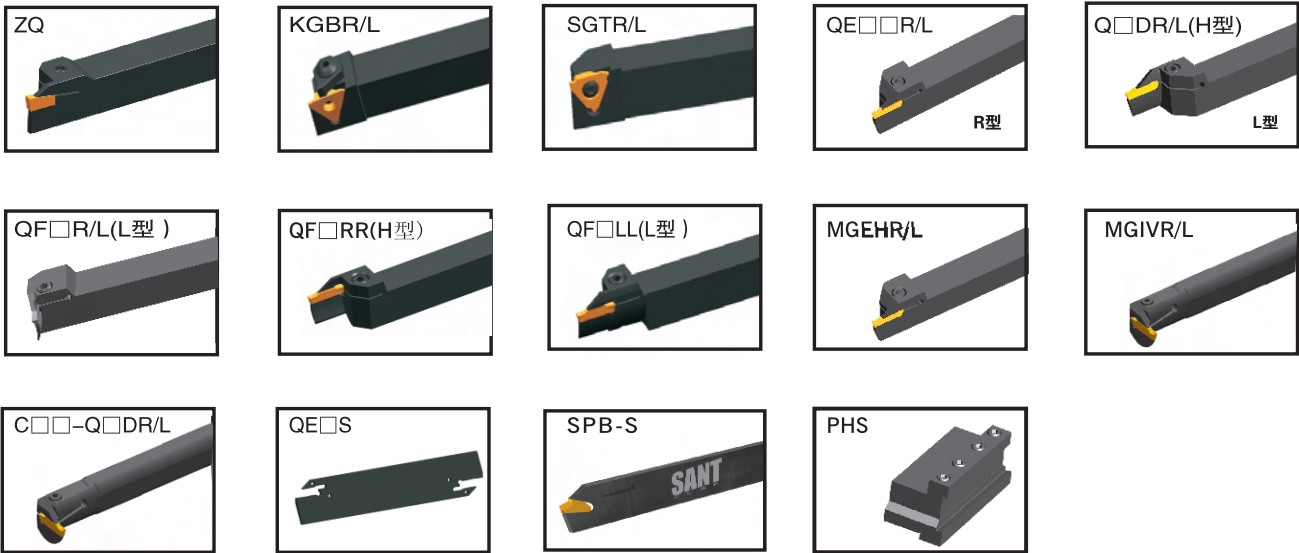


Threading tools



Parting, grooving tools

External Parting, Surface Grooving Tools



Exempel

M	C	L	N	R	25	25	M	12
1	2	3	4	5	6	7	8	9

Clamping system

Hole clamping	Screw on	Top and hole clamping	Top clamping
P	S	M	C

2. Insert shape

C	D	R	S	T	V	W

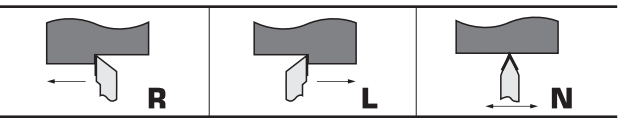
3. Holder style and lead angle

A	B	C	D	E	F	G	H
J	K	L	M	N	O	P	Q
R	S	T	U	V	W	X	

4. Insert clearance angle

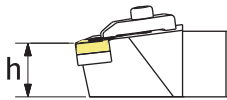
N	B	C	P	D	E
0°	5°	7°	11°	15°	20°

5. Hand of tools

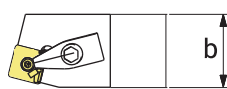


Turning tools

6. Height

 Integers to be proceeded by 0 eg:h=8 indicated by 08	记号 Symbol	12	16	20	25	32	40	50
	高度/mm Height/mm	12	16	20	25	32	40	50

7. Shank width

 Integers to be proceeded by 0 eg:b=8 indicated by 08	记号 Symbol	12	16	20	25	32	40	50
	高度/mm Height/mm	12	16	20	25	32	40	50

8. Tool length

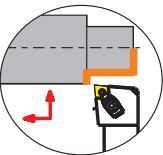
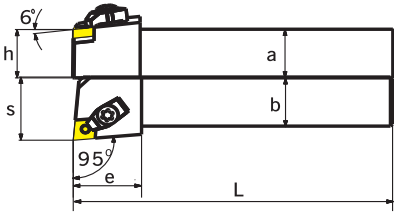
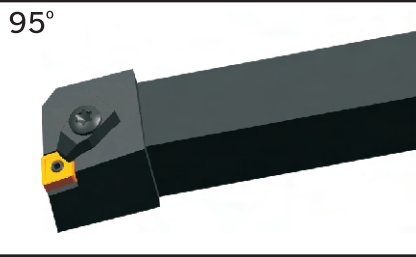
Code	H	K	M	P	Q	R	S	T	U	V
Length	100	125	150	170	180	200	250	300	350	400

9. Cutting edge length

Insert Shape	C	D	R	S	T	V	W
							
Inscribed Circle	Cutting Edge Lengh						
5.556					09		
6.350	06	07			11		
9.525	09	11	09	09	16	16	
12.700	12	15	12	12	22	22	
15.875	16	19	15	15	27		
19.050	19		19	19	33		
25.400	25		25	25	44		

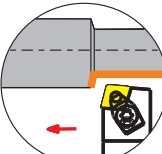
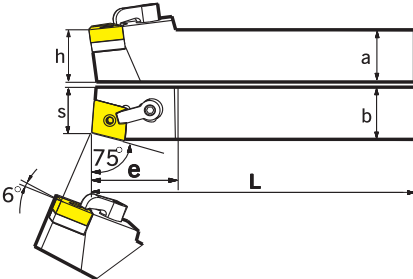
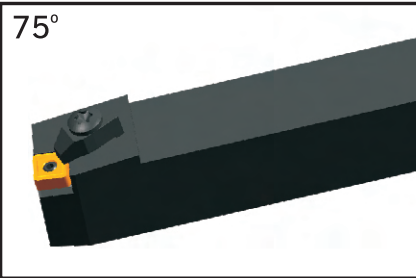
Turning tools

MCLNR/L



Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
															
		Stock		a	b	L	h	s	e						
R	L														
MCLNR/L	1616H12	●	●	16	16	100	16	20	32	CN □□ 1204□□	WS061025	MC1204	S3	MCL1814	MSP617
	2020K12	●	●	20	20	125	20	25	32						
	2525M12	●	●	25	25	150	25	32	32						
	3225P12	●	●	32	25	170	32	32	32						
	3232P12	●	●	32	32	170	32	40	32						
	2525M16	●	●	25	25	150	25	32	38	CN□□ 1606□□	WS061030	MC1604	S3	MCL2114	MSP821
	3225P16	●	●	32	25	170	32	32	38						
	3232P16	●	●	32	32	170	32	40	38						
	3232P19	●	●	32	32	170	32	40	45						
	4040R19	●	●	40	40	200	40	50	45						
									CN□□ 1906□□	Ws081030	MC1904	S4	MCL2217	MSP1021	

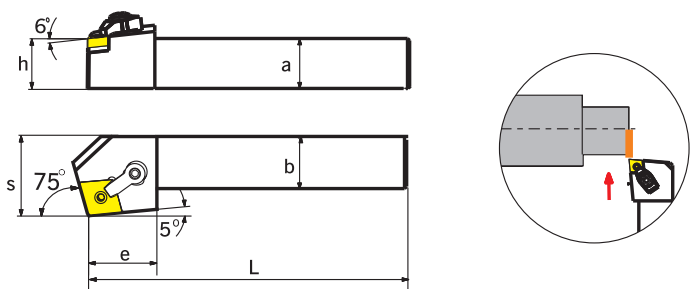
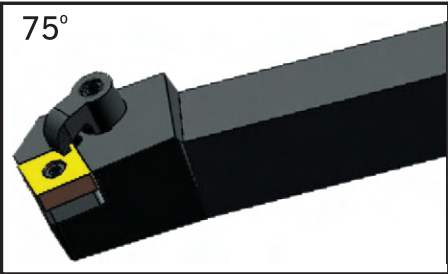
MCBNR/L



Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
															
		Stock													
R	L	a	b	L	h	s	e								
MCBNR/L	2020K12	●	●	20	20	125	20	17	32	CN□□ 1204□□	WS061025	MC1204	S3	MCL1814	MSP617
	2525M12	●	●	25	25	150	25	22	32		WS061030				
	3225P12	●	●	32	25	170	32	22	32						
	2525M16	●	●	25	25	150	25	22	40	CN□□ 1606□□	WS061030	MC1604	S3	MCL2114	MSP821
	3225P16	●	●	32	25	170	32	22	40						
	3232P16	●	●	32	32	170	32	27	40						
	3232P19	○	○	32	32	170	32	27	45	CN□□ 1906□□	WS081030	MC1904	S4	MCL2217	MSP1021
	4040R19	○	○	40	40	200	40	35	45						

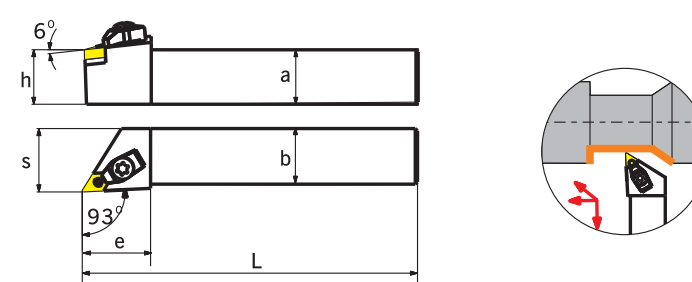
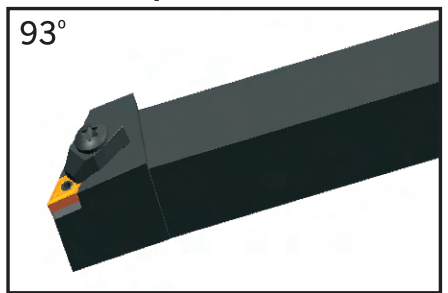
● Stock ○ in Production order

MCKNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud		
		Stock		a	b	L	h	s							e	
R	L															
MCKNR/L	2020K12	●	●	20	20	125	20	17	32	CN□□ 1204□□	WS061025	MC1204	S3	MCL1814	MSP617	
	2525M12	●	●	25	25	150	25	22	32		WS061030					
	3225P12	●	●	32	25	170	32	22	32							
	2525M16	●	●	25	25	150	25	22	40	CN□□ 1606□□	WS061030	MC1604	S3	MCL2114	MSP821	
	3225P16	●	●	32	25	170	32	22	40							
	3232P16	●	●	32	32	170	32	27	40							
	3232P19	○	○	32	32	170	32	27	45	CN□□ 1906□□	WS081030	MC1904	S4	MCL2217	MSP1021	

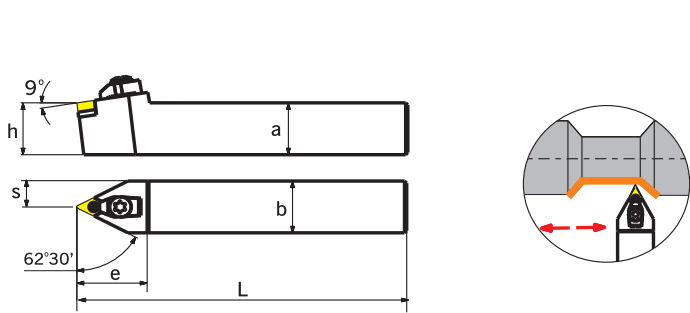
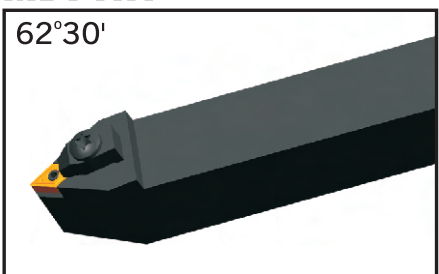
MDJNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud		
		Stock		a	b	L	h	s							e	
		R	L													
MDJNR/L	1616H11			16	16	100	16	20	32							
	2020K11	●	●	20	20	125	20	25	32		DN□□ 1104□□	WS061025	MD1103	S2 S3	MCL1814	MSP513
	2525M11	●	●	25	25	150	25	32	32			WS061030				
	3225P11	○	○	32	25	170	32	32	32							
	2020K1504/06	●	●	20	20	125	20	25	38	DN□□ 1504□□	WS061025	MD1504	S3	MCL2114	04:MSP617 06:MSP619	
	2525M1504/06	●	●	25	25	150	25	32	38		DN□□ 1506□□					WS061030
	3225P1504/06	○	○	32	25	170	32	32	38							
	3232P1504/06	○	○	32	32	170	32	40	38							
	4040P15			40	40	170	40	48	45							

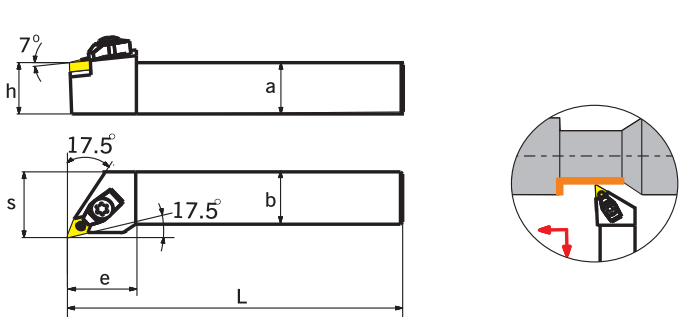
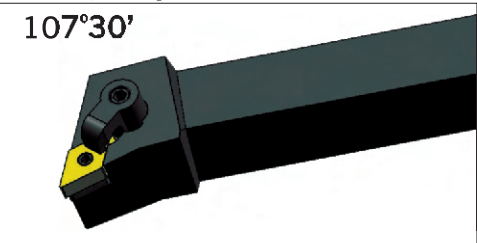
● Stock ○ in Production order

MDPNN



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud	
															
		Stock													
R	L	a	b	L	h	s	e								
MDPNN	1616H11	○		16	16	100	16	8	35	DN ₀₀ 1104 ₀₀	WS061025	MD 1103	S2 S3	MCL1814	MSP513
	2020K11	●	●	20	20	125	20	10	35		WS061030				
	2525M11	●	●	25	25	150	25	12.5	35						
	3225P11	○		32	25	170	32	12.5	35						
	2020K1504/06	●	●	20	20	125	20	10	40	DN ₀₀ 1504 ₀₀	WS061025	MD1504	S3	MCL2114	04:MSP617 06:MSP619
	2525M1504/06	●	●	25	25	150	25	12.5	40		WS061030				
	3225P1504/06	○		32	25	170	32	12.5	40						
	3232P1504/06			32	32	170	32	16	42						

MDQNR/L

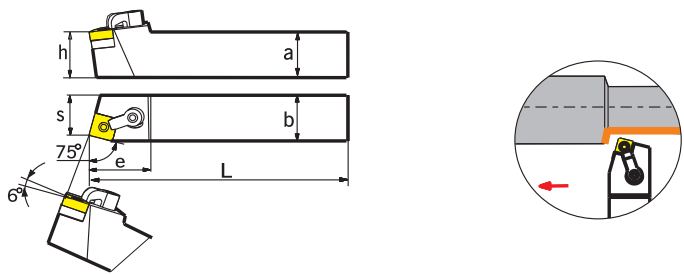
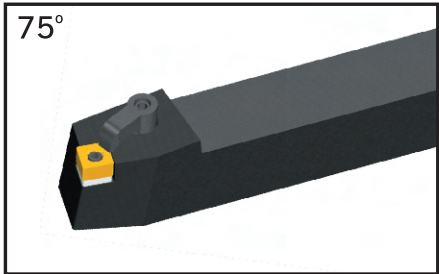


Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud	
															
		Stock													
R	L	a	b	L	h	s	e								
MDQNR/L	1616H11	○		16	16	100	16	8	35	DN□□ 1104□□	WS061025	MD 1103	S2 S3	MCL1814	MSP513
	2020K11	●	●	20	20	125	20	10	35		WS061030				
	2525M11	●	●	25	25	150	25	12.5	35						
	3225P11	○		32	25	170	32	12.5	35						
	2020K1504/06	●	●	20	20	125	20	10	40	DN□□ 1504□□ DN□□ 1506□□	WS061025	MD1504	S3	MCL2114	04:MSP617 06:MSP619
	2525M1504/06	●	●	25	25	150	25	12.5	40		WS061030				
	3225P1504/06	○		32	25	170	32	12.5	40						
	3232P1504/06			32	32	170	32	16	42						

● Stock ○ in Production order

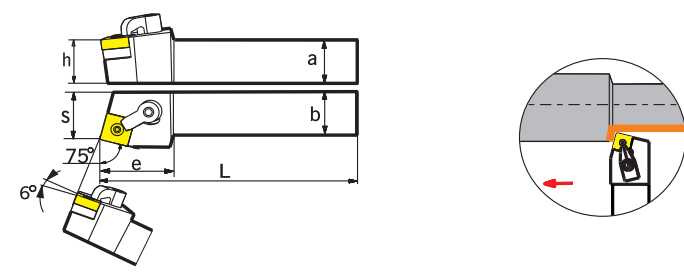
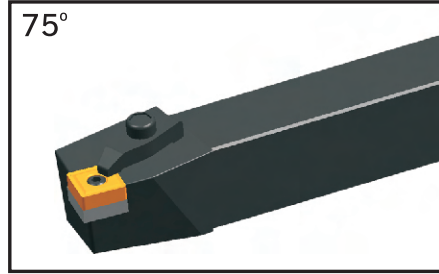
Turning tools

MSBNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud	
															
		Stock	a	b	L	h	s	e							
	R	L													
MSBNR/L	2020K12			20	20	125	20	17	32	SN□□ 1204□□	WS061025	MS1204	S3	MCL1814	MSP617
	2525M12			25	25	150	25	22	32		WS061030				
	3225P12			32	25	170	32	22	32	SN□□ 1506□□	WS061030	MS1504	S3	MCL2114	MSP821
	2525M15			25	25	150	25	22	38		WS061030				
	3232P15			32	32	170	32	29	38	SN□□ 1906□□	WS081030	MS1904	S4	MCL2217	MSP1021
	3232P19			32	32	170	32	27	45		WS081030				
	4040R19			40	40	200	40	35	45	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229
	4040S25			40	40	250	40	35	60		WS101035				

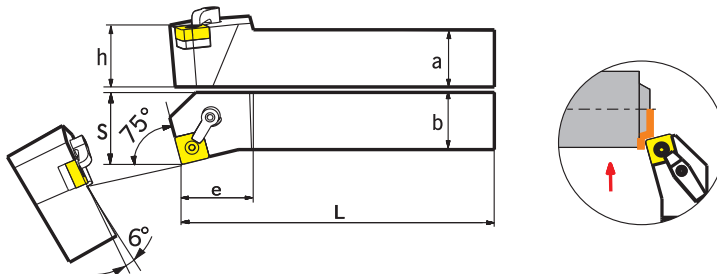
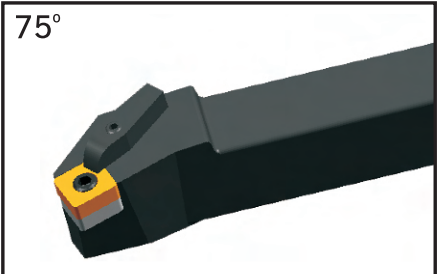
MSRNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud	
															
		Stock													
		R	L	a	b	L	h	s	e						
MSRNR/L	2020K12	●	●	20	20	125	20	17	32	SN□□ 1204□□	WS061025	MS1204	S3	MCL1814	MSP617
	2525M12	●	●	25	25	150	25	22	32		WS061030				
	3225P12	●	●	32	25	170	32	22	32	SN□□ 1506□□	WS061030	MS1504	S3	MCL2114	MSP821
	2525M15	●	●	25	25	150	25	22	38		WS061030				
	3232P15	●	●	32	32	170	32	29	38	SN□□ 1906□□	WS081030	MS1904	S4	MCL2217	MSP1021
	3232P19	●		32	32	170	32	27	45		WS081030				
	4040R19	●		40	40	200	40	35	45	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229
	4040S25			40	40	250	40	35	60		WS101035				

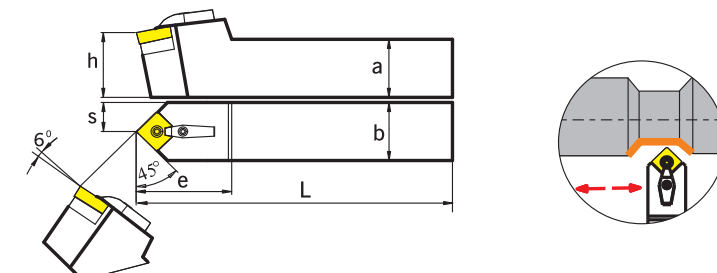
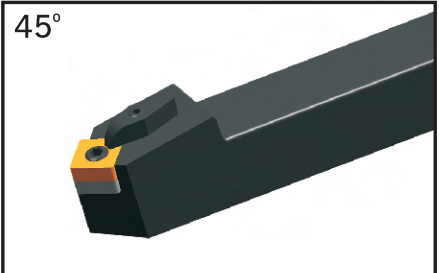
Turning tools

MSKNR/L



Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
															
		Stock 库存		a	b	L	h	s	e						
	R	L													
MSKNR/L	2020K12	●	●	20	20	125	20	25	32	SN□□ 1204□□	WS061025	MS1204	S3	MCL1814	MSP617
	2525M12	●	●	25	25	150	25	32	32		WS061030				
	3225P12	○	○	32	25	170	32	32	32	SN□□ 1506□□	WS061030	MS1504	S3	MCL2114	MSP821
	2525M15	●	●	25	25	150	25	32	38						
	3232P15	○	○	32	32	170	32	40	38	SN□□ 1906□□	WS081030	MS1904	S4	MCL2217	MSP1021
	3232P19			32	32	170	32	40	45						
	4040R19			40	40	200	40	50	45	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229
	4040S25			40	40	250	40	50	50						

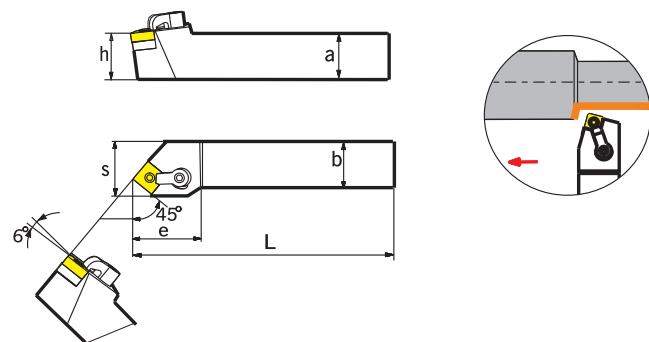
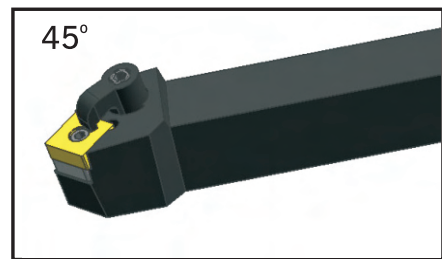
MSDNN



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
														
		Stock	a	b	L	h	s	e						
MSDNN	2020K12	●	20	20	125	20	10	35	SN□□ 1204□□	WS061025	MS1204	S3	MCL1814	MSP617
	2525M12	●	25	25	150	25	12.5	35		WS061030				
	3225P12	○	32	25	170	32	12.5	35	SN□□ 1506□□	WS061030	MS1504	S3	MCL2114	MSP821
	2525M15	●	25	25	150	25	12.5	42						
	3232P15	○	32	32	170	32	16	42	SN□□ 1906□□	WS081030	MS1904	S4	MCL2217	MSP1021
	3232P19		32	32	170	32	16	42						
	4040R19		40	40	200	40	20	50	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229
	4040S25		40	40	250	40	20	50						

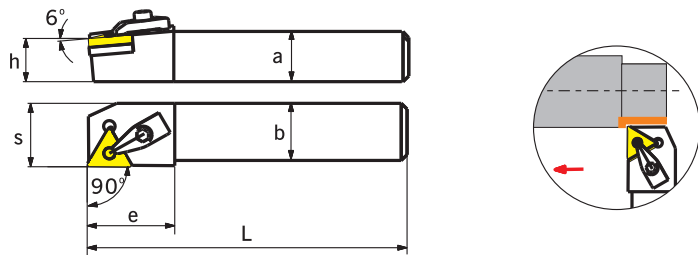
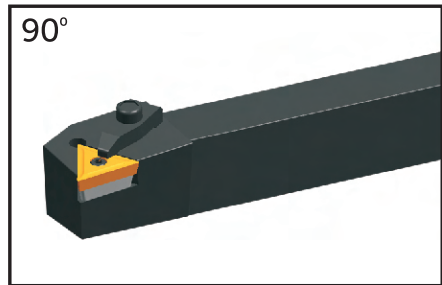
● Stock ○ in Production order

MSSNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
															
		Stock R	库存 L	a	b	L	h	s	e						
MSSNR/L	2020K12	●	●	20	20	125	20	25	35	SN□□ 1204□□	WS061025	MS1204	S3	MCL1814	MSP617
	2525M12	●	●	25	25	150	25	32	35		WS061030				
	3225P12	●	●	32	25	170	32	40	35						
	3232P12	●	○	32	32	170	32	40	42	SN□□ 1506□□	WS061030	MS1504	S3	MCL2114	MSP821
	2525M15	●		25	25	150	25	32	42						
	3232P15	○	○	32	32	170	32	40	42						
	3232P19	○		32	32	170	32	40	42	SN□□ 1906□□	WS 081030	MS 1904	S4	MCL2217	MSP1021
	4040R19			40	40	200	40	50	42						
	4040S25			40	40	250	40	50	50	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229

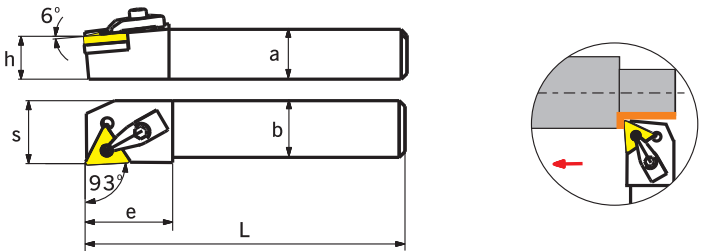
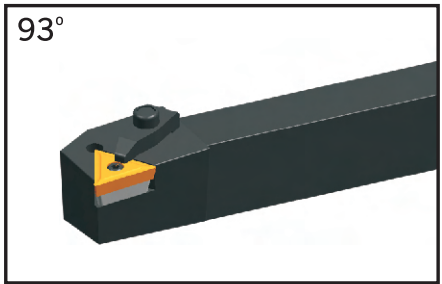
MTGNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
		Stock		a	b	L	h	s							e
R	L														
MTGNR/L	2020K16	●	●	20	20	125	20	25	33	TN□□ 1604□□	WS061025	MT1603	S2, S3	MCL1814	MSP513
	2525M16	●	●	25	25	150	25	32	33		WS061030				
	3225P16	○	○	32	25	170	32	32	33						
	2525M22	●	●	25	25	150	25	32	35	TN□□ 2204□□	WS061030	MT2204	S3	MCL2114	MSP617
	3225P22	○	○	32	25	170	32	32	35						
	3232P22	○	○	32	32	170	32	40	40						

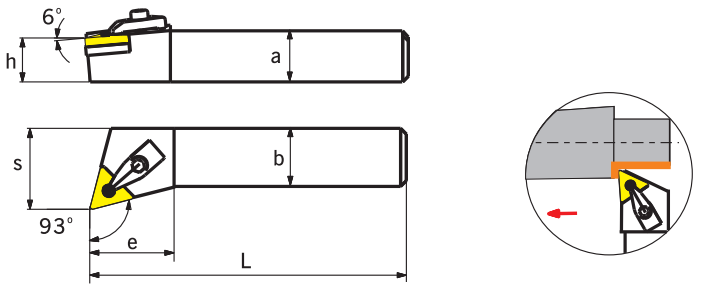
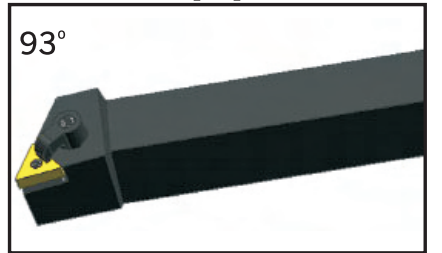
● Stock ○ in Production order

MTJNR/L



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud		
																
		Stock		a	b	L	h	s	e							
R	L															
MTJNR/L	1616H16	●	●	16	16	100	16	20	30	TN□□ 1604□□	WS061025	MT1603	S2, S3	MCL1814	MSP513	
	2020K16	●	●	20	20	125	20	25	32		WS061030					
	2525M16	○	○	25	25	150	25	32	32							
	3225P16	●	●	32	25	170	32	32	32							
	3232P16	○	○	32	32	170	32	32	32							
	2525M22	○	○	25	25	150	25	32	36	TN□□ 2204□□	WS061030	MT2204	S3	MCL2114	MSP617	
	3225P22			32	25	170	32	32	36							
	3232P22			32	32	170	32	32	36							

MTJNR/L(B)

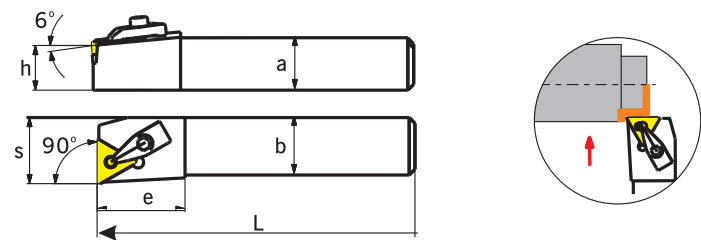
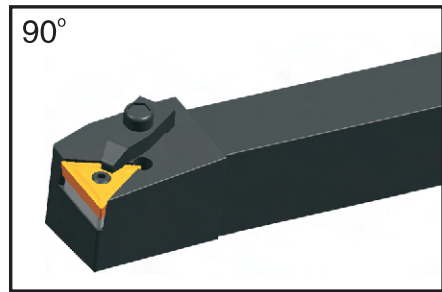


Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
															
		Stock R	库存 L	a	b	L	h	s	e						
MTJNR/L	1616H16B	●	●	16	16	100	16	20	30	TN□□ 1604□□	WS061025	MT1603	S2, S3	MCL1814	MSP513
	2020K16B	●	●	20	20	125	20	25	32		WS061030				
	2525M16B	○	○	25	25	150	25	32	32						
	3225P16B	●	●	32	25	170	32	32	32						
	3232P16B	○	○	32	32	170	32	32	32						
	2525M22B	○	○	25	25	150	25	32	36						
	3225P22B			32	25	170	32	32	36						
	3232P22B			32	32	170	32	32	36						

● Stock ○ in Production order

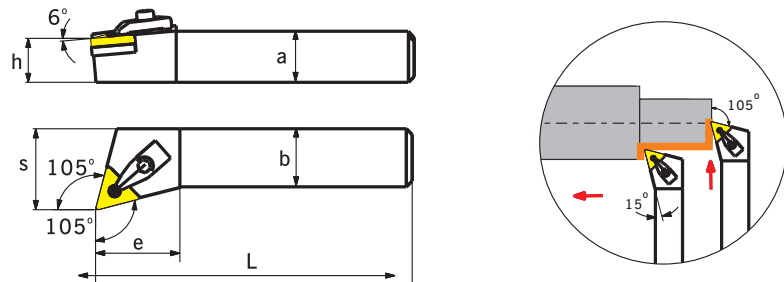
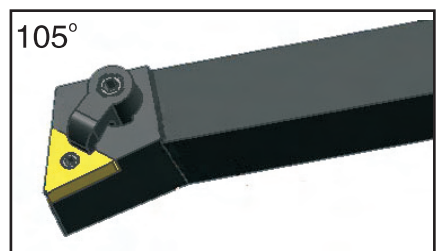
Turning tools

MTFNR/L



Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud						
																					
		Stock		a	b	L	h	s	e												
R	L																				
MTFNR/L	1616H16	●	●	16	16	100	16	20	30							TN□□ 1604□□	WS061025	MT1603	S2, S3	MCL1814	MSP513
	2020K16	●	●	20	20	125	20	25	32								WS061030				
	2525M16	●	●	25	25	150	25	32	32												
	3225P16	●	●	32	25	170	32	32	32												
	3232P16	○	○	32	32	170	32	32	32												
	2525M22	●	●	25	25	150	25	32	36							TN□□ 2204□□	WS061030	MT2204	S3	MCL2114	MSP617
	3225P22	○		32	25	170	32	32	36												
	3232P22	○		32	32	170	32	32	36												

MTQNR/L

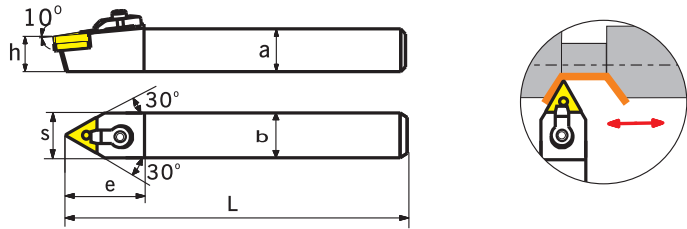
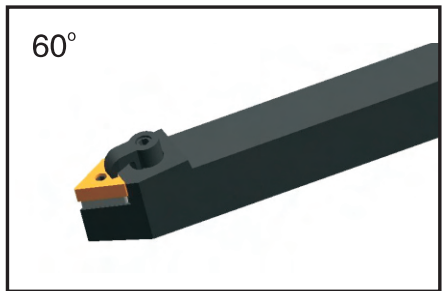


Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
															
		Stock													
R	L	a	b	L	h	s	e								
MTQNR/L	2020K16	●	●	20	20	125	20	25	32	TN□□ 1604□□	WS061025	MT1603	S2, S3	MCL1814	MSP513
	2525M16	●	●	25	25	150	25	32	32		WS061030				
	3225P16	○	○	32	25	170	32	32	32						
	2525M22	●		25	25	150	25	32	36	TN□□ 2204□□	WS061030	MT2204	S3	MCL2114	MSP617
	3232P22	○		32	32	170	32	40	36						

● Stock ○ in Production order

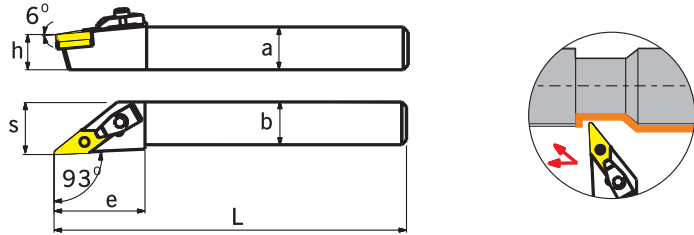
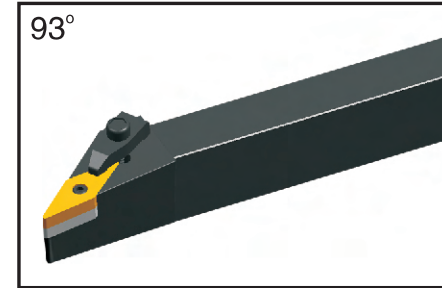
Turning tools

MTENN



Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
															
		Stock													
		R	L	a	b	L	h	s	e						
MTENN	1616H16	●	●	16	16	100	16	16	30	TN□□ 1604□□	WS061025	MT1603	S2 S3	MCL1814	MSP513
	2020K16	○	○	20	20	125	20	20	32						
	2525M16	●	○	25	25	150	25	25	32						
	3232P16	○	○	32	32	170	32	32	36						

MVJNR/L

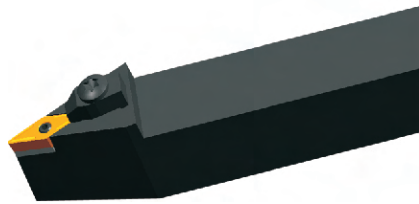


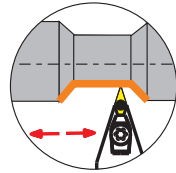
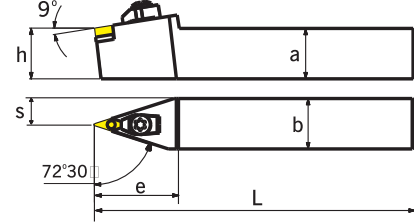
Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
		Stock		a	b	L	h	s	e						
		R	L												
MVJNR/L	1616H16	●	●	16	16	100	16	20	45	VN□□ 1604□□	WS061025	MV1603	S2 S3	MCL2414	MSP513
	2020K16	●	●	20	20	125	20	25	45		WS061030				
	2525M16	○	○	25	25	150	25	32	45						
	3225P16	●	○	32	25	170	32	32	45						
	3232P16	○	○	32	32	170	32	40	45						

Turning tools

MVVNN

72°30'





Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud				
		Stock 库存	a	b	L	h	s	e										
MVVNN	2020K16	●	20	20	125	20	10	45	VN□□ 1604□□	WS061025	MV1603	S2 S3	MCL2414	MSP513				
	2525M16	●	25	25	150	25	12.5	45		WS061030								
	3225P16	○	32	25	170	32	12.5	45										
	3232P16	●	32	32	170	32	16	45										

MVUNR/L

Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud				
		Stock																
		R	L	a	b	L	h	s										
MVUNR/L	1616H16	●	●	16	16	100	16	20	VN□□ 1604□□	WS061025	MV1603	S2 S3	MCL2414	MSP513				
	2020K16	●	●	20	20	125	20	25										
	2525M16	○	○	25	25	150	25	32		WS061030								
	3225P16	●	○	32	25	170	32	32										
	3232P16	○	○	32	32	170	32	40										

● Stock ○ in Production order

Turning tools

MVQNR/L

Type		Dimension(mm)							Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
		Stock		a	b	L	h	s	e						
		R	L												
MVQNR/L	1616H16	●	●	16	16	100	16	20	45	VN□□ 1604□□	WS061025	MV1603	S2 S3	MCL2414	MSP513
	2020K16	●	●	20	20	125	20	25	45		WS061030				
	2525M16	○	○	25	25	150	25	32	45						
	3225P16	●	○	32	25	170	32	32	45						
	3232P16	○	○	32	32	170	32	40	45						

MWLNR/L

Type		Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud				
																			
		Stock	a	b	L	h	s	e											
R	L																		
MWLNR/L	2020K06	○	○	20	20	125	20	25	30	WN□□ 0604□□	WS061025	MW0603	S2 S3	MCL1814	MSP513				
	2525M06	○	○	25	25	150	25	32	30		WS061030								
	2020K08	●	●	20	20	125	20	25	30	Wn□□ 0804□□	WS061025	MW0804	S3		MSP617				
	2525M08	●	●	25	25	150	25	32	35		WS061030								
	3225P08	●	●	32	25	170	32	32	35										
	3232P08	●	●	32	32	170	32	40	35										

● Stock ○ in Production order