ZZ HARDMETAL is a modern joint-stock company focusing on R & D, production and distribution in the area of CNC cutter. The company is located in Zhuzhou--the biggest manufacturing bases of CNC cutter and carbide in China.

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.

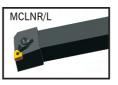
Based on the excellent design, top-class CNC center, accurate testing equipment and perfect management process, Sant series' quality is always in the leading level. Since the establishment of our company we has always insisted: "United and Innovative, Honest and Pragmatic, Pioneering for progress, Pursuiting 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!



Turning tools

M Top and hole clamping





















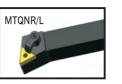




























P Hole clamping

































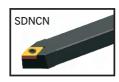
Screw on





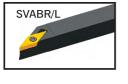




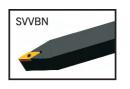


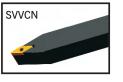
















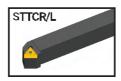






















C Top clamping

















■ W Wedge clamping

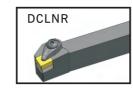






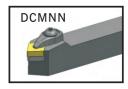


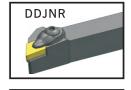
D Wedge clamping

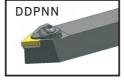


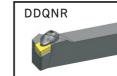


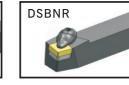




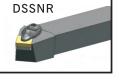








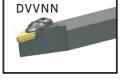


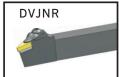
















Interanl toolholders

■ M top and hole clamping

































P Hole clamping













Screw on

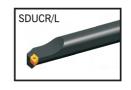




























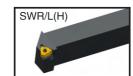








Threading tools





Turning tools



Parting, grooving tools

External Parting, Surface Grooving Tools





























Examplel









5 2

8

12

Clamping system

Hole clamping	Screw on	Top and hole clamping	Top clamping
P	S	М	С

2. Insert shape

C	D	R	S	Т	V	W
80°	55°			60°	35°	80°

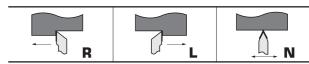
3. Holder style and lead angle

A	В	C	D	E	F	G	Н
90	75°	90°	45°	60%	90°	90	107°30′
J	K	L	M	N	0	P	Q
93°	75°	95°	50	63	117°30′	62°30	107°30′
R	S	Т	U	V	W	Х	
75	45	60	93°	72°30	60°	120°	

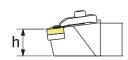
4. Insert clearance angle

N	В	С	Р	D	E
0°	5°	7°	11°	15°	20°

5. Hand of tools



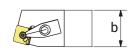
6. Height



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

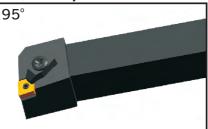
Code	Н	K	М	P	Q	R	S	Т	U	V
	100	125	150	170	180	200	250	300	350	400

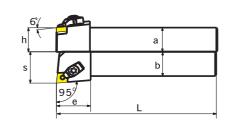
9. Cutting edge length

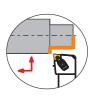
	С	D	R	S	Т	V	W
nsert Shape	% .	1-55.			100	35.	80.
Inxcribed Circle			Cutting	g Edge Lengh			
5.556					09		
6.350	06	07			11		
9.525	09	11	09	09	16	16	
12.700	12	15	12	12	22	22	
15.875	16	19	15	15	27		
19.050	19		19	19	33		
25.400	25		25	25	44		

Turning tools

MCLNR/L

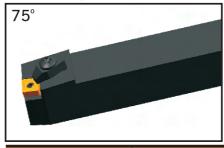


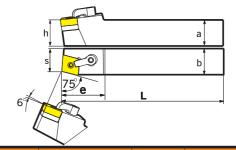


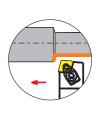


				Dime	ensio	n(mr	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
Ту	pe	Sto	ock	а	b	L	h	s	е			0			
		R	L	а		_	"	Э	_		Mu.			4111	
MCLNR/L	1616H12	•	•	16	16	100	16	20	32		14/00/51/00/5				
	2020K12	•	•	20	20	125	20	25	32		WS061025				
	2525M12	•	•	25	25	150	25	32	32	CN 00 120400		MC1204	\$3	MCL1814	MSP617
3225P12	•	•	32	25	170	32	32	32		WS061030					
	3225P12 3232P12	•	•	32	32	170	32	40	32						
	2525M16	•	•	25	25	150	25	32	38						
	2525M16 3225P16	•	•	32	25	170	32	32	38	CN== 1606==	WS061030	MC1604	\$3	MCL2114	MSP821
	•	•	32	32	170	32	40	38							
	3232P19	•	•	32	32	170	32	40	45	CN ₀₀ 1906 ₀₀	Ws081030	MC1904	S4	MCL2217	MSP1021
	4040R19	•	•	40	40	200	40	50	45	CN== 1906==	WS081030	WIC1904	34	WICL2217	WISP1021

MCBNR/L





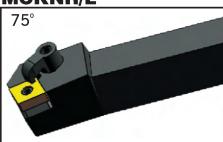


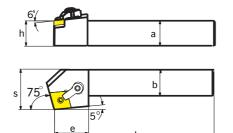
	Dimension(mm)										Clamping screw	Shim	Wrench	Clamp	Clamping stud
Ту	pe	Sto	ock												
		R	L	а	b	L	h	s	е					4-1111	
MCBNR/L	2020K12	•	•	20	20	125	20	17	32		WS061025				
	2525M12		•	25	25	150	25	22	32	CN ₀₀ 1204 ₀₀		MC1204	\$3	MCL1814	MSP617
			32	25	170	32	22	32		WS061030					
	OLLOI IL		•	25	25	150	25	22	40						
	3225P16	•	•	32	25	170	32	22	40	CN ₀₀ 1606 ₀₀	WS061030	MC1604	\$3	MCL2114	MSP821
	3232P16	•	•	32	32	170	32	27	40						
3232P19 O O 3				32	32	170	32	27	45	CN== 1906==	WC001020	MC1004	64	MCI 2217	MCD1001
4040R19 O O 40				40	40	200	40	35	45	CINEE 1906::	WS081030	MC1904	S4	MCL2217	MSP1021

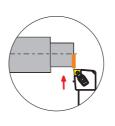
Stock Oin Production

order

MCKNR/L

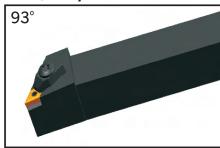


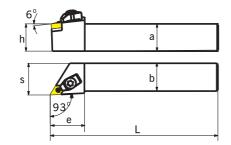




Tv	pe	Dimension(mm)								Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
Í		St	ock	а	b	L	h	s	е			0			
	R	L	a	5	-	"	3	-		Mar.			4111		
MCKNR/L 2020K12		•	•	20	20	125	20	17	32		WS061025				
2525M12		•	•	25	25	150	25	22	32	CN ₀₀ 1204 ₀₀		MC1204	\$3	MCL1814	MSP617
	3225P12	•	•	32	25	170	32	22	32		WS061030				
	2525M16	•	•	25	25	150	25	22	40						
		40	CN == 1606==	WS061030 MC	MC1604 S3		MCL2114	MSP821							
	3232P16	•	•	32	32	170	32	27	40						
3232P19		0	0	32	32	170	32	27	45	CN== 1906==	WS081030	MC1904	S4	MCL2217	MSP1021

MDJNR/L



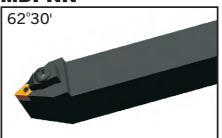


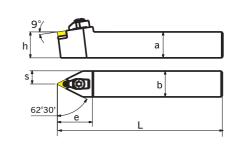


	Torre			Dime	ensic	on(mi	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
	Туре		ock	а	b	L	h	s	е						
MD IND/	10101111	R	L	16	16	100	16	20	32						
MDJNR/L	2020K11			20	20	125	20	25	32	DN== 1104==	WS061025		\$2		
	2525M11		•	25	25	150		32	32		WS061030	MD1103	\$3	MCL1814	MSP513
3225P11		0	0	32	25	170	32	32	32		110001000				
	2020K1504/06	•	•	20	20	125	20	25	38		WS061025				
	2525M1504/06	•	•	25	25	150	25	32	38	DN _{□□} 1504 _{□□}					04:MSP617
	3225P1504/06	0	0	32	25	170	32	32	38	DN== 1506==	WS061030	MD1504	\$3	MCL2114	06:MSP619
	3232P1504/06				32	170	32	40	38						
	3232P1504/06							48	45						

Stock Oin Production

MDPNN



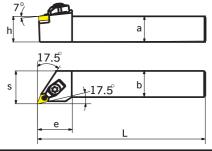




Turning tools

	Туре			Dime	ensio	on(m	m)			Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
	Туре	Sto	ck	а	ь	L	h	s	е						
		R	L	ŭ		_									
MDPNN	1616H11	0		16	16	100	16	8	35		WS061025				
	2020K11	•	•	20	20	125	20	10	35			MD 1100	\$2	1401 101 4	MODELLO
	2525M11	•	•	25	25	150	25	12.5	35	DN== 1104==	WS061030	MD 1103	\$3	MCL1814	MSP513
	3225P11	0		32	25	170	32	12.5	35		W0001030				
	2020K1504/06	•	•	20	20	125	20	10	40		WS061025				
	2525M1504/06	•	•	25	25	150	25	12.5	40	DN== 1504==					04:MSP617
	3225P1504/06	0		32	25	170	32	12.5	40	DN== 1506==	WS061030	MD1504	\$3	MCL2114	06:MSP619
	3232P1504/06			32	32	170	32	16	42						





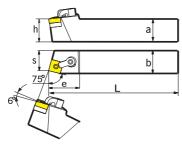


	Tuno	D	ime	nsio	n(mr	n)				Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
	Type	Sto	ıck	а	ь		h	s	е						
	2020K11			-		-	"	3	٦		An.			- Comp	
MDQNR/L				16	16	100	16	8	35		WS061025				
	2020K11		•	20	20	125	20	10	35	D. 1104		MD 1102	S2	MOI 1014	MCDE12
		•	•	25	25	150	25	12.5	35	DN== 1104==	WS061030	MD 1103	\$3	MCL1814	MSP513
		0		32	25	170	32	12.5	35		W0001000				
		•	•	20	20	125	20	10	40		WS061025				
	2525M1504/06	•	•	25	25	150	25	12.5	40	DN== 1504==					04:MSP617
	3225P1504/06	0		32	25	170	32	12.5	40	DN== 1506==	WS061030	MD1504	S3	MCL2114	06:MSP619
	3232P1504/06			32	32	170	32	16	42						

• Stock Oin Production order

MSBNR/L

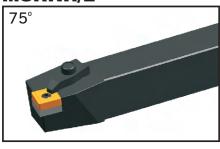


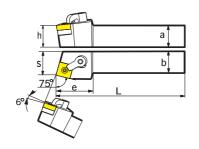




Τ.	/pe			Dime	ensio	n(mr	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
'3	Sto	ock		b	L	h	s				0				
		R	L	а	D	-	n	5	е		Mar.			- Time	
MSBNR/L	2020K12	•	•	20	20	125	20	17	32		WS061025				
	2525M12	•	•	25	25	150	25	22	32	SN== 1204==		MS1204	\$3	MCL1814	MSP617
	3225P12	•	•	32	25	170	32	22	32		WS061030				
2525M12	•	•	25	25	150	25	22	38	CN 1506	W0061020	MC1EO4	S3	MCI 2114	MSP821	
	2525M12 3225P12	•	•	32	32	170	32	29	38	SN== 1506==	WS061030	MS1504	33	MCL2114	WISP821
	3232P19	•		32	32	170	32	27	45	CN 100C	WC001020	MC1004	64	MCI 2217	MCD1001
	4040R19	•	İ	40	40	200	40	35	45	SN== 1906==	WS081030	MS1904	S4	MCL2217	MSP1021
	4040S25			40	40	250	40	35	60	SN□□ 2509□□	WS101035	MS2508	S4, S5	MCL3220	MSP1229

MSRNR/L





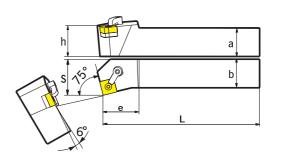


т.				Dim	ensi	on(m	m)			Applicable Inserts	Clamping screw	Shim	Wrench	Clamp	Clamping stud
13	/pe	St	ock	а	b	L	h	s	е						
		R	L	a		_	"	3							
MSRNR/L	2020K12	•	•	20	20	125	20	17	32		WS061025				
	2525M12	•	•	25	25	150	25	22	32	SN ₀₀ 1204 ₀₀		MS1204	S3	MCL1814	MSP617
	3225P12	•	•	32	25	170	32	22	32		WS061030				
	2525M15	•	•	25	25	150	25	22	38	CN 1500	W0001000	M01504	62	MOL 0114	MCD001
	3232P15	•		32	32	170	32	29	38	SN□□ 1506□□	WS061030	MS1504	\$3	MCL2114	MSP821
	3232P19	•		32	32	170	32	27	45	CN 100C	WC001020	MC1004	64	MOL 0017	MCD1001
	4040R19	•		40	40	200	40	35	45	SN□□ 1906□□	WS081030	MS1904	S4	MCL2217	MSP1021
	4040S25			40	40	250	40	35	60	SN== 2509==	WS101035	MS2508	S4, S5	MCL3220	MSP1229

Turning tools

MSKNR/L

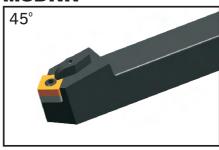


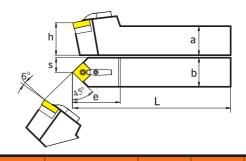




т.	100			Dime	ensic	n(mı	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
ı y	/pe	Stoc	k 库存												
		R	L	а	b	L	h	S	е		- Carrier			- 4111	
MSKNR/L	2020K12	•	•	20	20	125	20	25	32		WS061025				
	2525M12	•	202532	25	25	150	25	32	32	SN== 1204==	W0001000	MS1204	\$3	MCL1814	MSP617
	3225P12	0		32	25	170	32	32	32		WS061030				
	2525M15	•		25	25	150	25	32	38	SN ₀₀ 1506 ₀₀	WS061030	MS1504	S3	MCL2114	MSP821
	3232P15	0	0	32	32	170	32	40	38	31100 130000	W2001030	W1515U4	33	WICL2114	MISPOZI
	3232P19			32	32	170	32	40	45	SN ₀₀ 1906 ₀₀	WS081030	MS1904	S4	MCL2217	MSP1021
	4040R19			40	40	200	40	50	45	31400 130000	W3031030	WI31304	34	WICLZZI7	WISI 1021
	4040S25			40	40	250	40	50	50	SN== 2509==	WS101035	MS2508	S4, S5	MCL3220	MSP1229

MSDNN





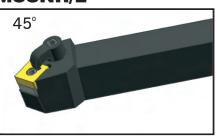


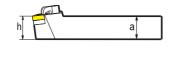
т.			Dime	ensic	n(mı	m)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
Ty	pe									Attn.				
		Stock	а	b	L	h	s	е						
MSDNN	2020K12	•	20	20	125	20	10	35		WS061025				
	2525M12	•	25	25	150	25	12.5	35	SN== 1204==	W0061000	MS1204	\$3	MCL1814	MSP617
	3225P12	0	32	25	170	32	12.5	35		WS061030				
	2525M15	•	25	25	150	25	12.5	42						
	3232P15	0	32	32	170	32	16	42	SN== 1506==	WS061030	MS1504	\$3	MCL2114	MSP821
	3232P19		32	32	170	32	16	42						
	4040R19		40	40	200	40	20	50	SN== 1906==	WS081030	MS1904	S4	MCL2217	MSP1021
	4040S25		40	40	250	40	20	50	SN== 2509==	WS101035	MS2508	S4, S5	MCL3220	MSP1229

Stock Oin Production

Turning tools

MSSNR/L



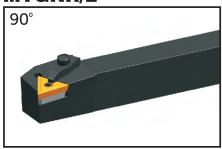


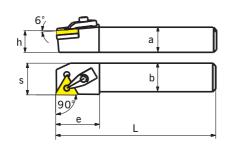


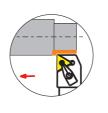
s	(9)	
69	45° e	L
	~	

т.	100			Dime	nsio	n(mn	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
Ιy	pe	Stock	库存	а	b	L	h	s	е				1		
		R	L	a	"	_	"	3	-		- Control			- Time	
MSSNR/L	2020K12	•	•	20	20	125	20	25	35		WS061025				
	2525M12	•	•	25	25	150	25	32	35	CN 1204			\$3		1400617
				32	25	170	32	40	35	SN== 1204==	WS061030	MS1204	33	MCL1814	MSP617
	2525M12 3225P12 3232P12		0	32	32	170	32	40	42						
	2525M12 3225P12			25	25	150	25	32	42		WS061030	MS1504	S3	MCL2114	MSP821
	3232P15	0	0	32	32	170	32	40	42	SN::: 1506:::	W3001030	10131304	33	WICLZ114	WISFOZI
	3232P19	0		32	32	170	32	40	42	SN== 1906==	WS 081030	MS 1904	\$ 4	MCL2217	MSP1021
	4040R19			40	40	200	40	50	42	21 1300	***3 031030	WIS 1904	34	WIGEZZ17	WISI 1021
	4040S25			40	40	250	40	50	50	SN== 2509==	WS101035	MS2508	S4, S5	MCL3220	MSP1229

MTGNR/L



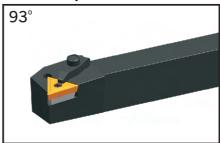


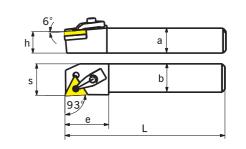


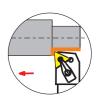
т,	/pe			Dime	nsior	n(mn	1)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
13	γpe	Sto	ock	а	b	L	h	s	е						
		R	L	a		_	"	3	-		- Shu-		•		
MTGNR/L	2020K16	•	•	20	20	125	20	25	33		WS061025				
	2525M16	•	•	25	25	150	25	32	33	TN::: 1604:::	WS061030	MT1603	\$2, \$3	MCL1814	MSP513
	3225P16	0	0	32	25	170	32	32	33		W3001030				
	2525M22	•	•	25	25	150	25	32	35						
	3225P22	0	0	32	25	170	32	32	35	TN== 2204==	WS061030	MT2204	\$3	MCL2114	MSP617
	3232P22	0	0	32	32	170	32	40	40						

• Stock Oin Production order

MTJNR/L

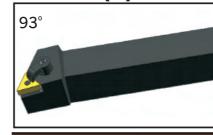


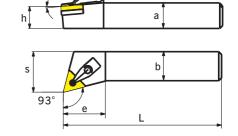


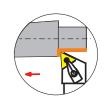


				D	ime	nsion	(mr	1)		Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
1)	/pe	Sto	ock												
			L	а	b	L	h	S	е		and the same of th			- 4111	
MTJNR/L	1616H16	•	•	16	16	100	16	20	30		WS061025				
	2020K16	•	•	20	20	125	20	25	32						
2020K16 2525M16	0	0	25	25	150	25	32	32	TN== 1604==	WS061030	MT1603	\$2, \$3	MCL1814	MSP513	
	2020K16	•	•	32	25	170	32	32	32				33		
	3232P16	0	0	32	32	170	32	32	32						
	2525M22	0	0	25	25	150	25	32	36						
	3225P22			32	25	170	32	32	36	TN== 2204==	WS061030	MT2204	S3	MCL2114	MSP617
	3232P22			32	32	170	32	32	36						

MTJNR/L(B)







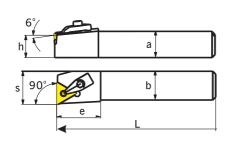
Τ.			ı	Dime	nsio	n(mn	1)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
1)	/pe	Stoc	k 库存												
				а	b	L	h	S	е				W.	- 4111	
MTJNR/L	1616H16B	•	•	16	16	100	16	20	30		WS061025				
	2020K16B	• •	•	20	20	125	20	25	32						
	2525M16B	0	0	25	25	150	25	32	32	TN== 1604==	WS061030	MT1603	\$2, \$3	MCL1814	MSP513
	2020K16B 2525M16B 3225P16B	•	•	32	25	170	32	32	32						
	3232P16B	0	0	32	32	170	32	32	32						
	2525M22B	0	0	25	25	150	25	32	36						
	3225P22B			32	25	170	32	32	36	TN::: 2204:::	WS061030	MT2204	S3	MCL2114	MSP617
	3232P22B			32	32	170	32	32	36						

Stock Oin Production

order

MTFNR/L

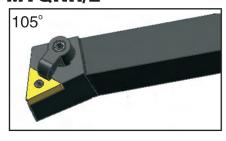


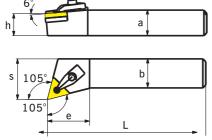


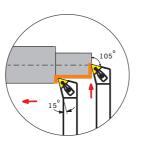


т,	/pe			Dim	ensi	on(m	m)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
13	/µe	Sto	ock	а	b	L	h		е						
		R	L	d	D	-	"	S	E					- 400	
MTFNR/L	1616H16	•	•	16	16	100	16	20	30		WS061025				
	2020K16	•	•	20	20	125	20	25	32						
			•	25	25	150	25	32	32	TN== 1604==	WS061030	MT1603	\$2, \$3	MCL1814	MSP513
	3225P16	•	•	32	25	170	32	32	32				33		
	2020K16 2525M16	0	0	32	32	170	32	32	32						
	2525M22	•	•	25	25	150	25	32	36						
	3225P22	0		32	25	170	32	32	36	TN== 2204==	WS061030	MT2204	\$3	MCL2114	MSP617
	3232P22	0		32	32	170	32	32	36						

MTQNR/L

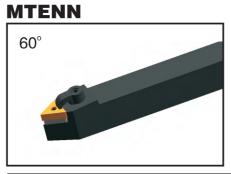


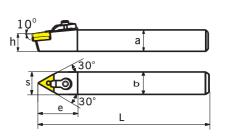


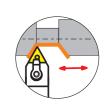


Туре			D	imer	sion	(mm)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
		Stock													
		R	L	а	b	L	h	S	е		Contract of the Contract of th	WS061025 S2.	- 1111		
MTQNR/L	2020K16	•	•	20	20	125	20	25	32		WS061025				
	2525M16 3225P16		•	25	25	150	25	32	32	TN== 1604==	W\$061030	MT1603		MCL1814	MSP513
			0	32	25	170	32	32	32		110001000				
	2525M22	•		25	25	150	25	32	36	TN== 2204==	W\$061030	MT2204	co	MCI 2114	MSP617
	3232P22	0		32	32	170	32	40	36	11100 220400	W3001030	W1122U4	33	WICLZ114	WISP017

• Stock Oin Production order



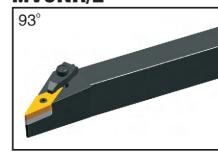


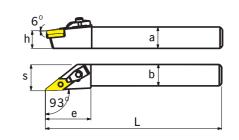


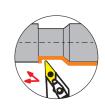
Turning tools

т.			D	imer	sion	(mm)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
Type		Stock													
		R	L	а	a b	L	h	hs	е				-	4111	
MTENN	1616H16	•	•	16	16	100	16	16	30		W0001005				
	2020K16	0	0	20	20	125	20	20	32		WS061025		S2		
	2525M16	•	• 0		25	150	25	25	32	TN::: 1604:::		MT1603	S3	MCL1814	MSP513
	3232P16	6 0 0		32	32	170	32	32	36		WS061030		33		

MVJNR/L



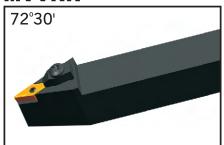


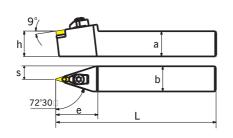


Τv			Dim	ensi	on(m	ım)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
Type			Stock		_		h					0			
		R	L	а	b	L	n	S	е		War.			- 41119	
MVJNR/L	1616H16	•	•	16	16	100	16	20	45		WS061025				
	2020K16	•	•	20	20	125	20	25	45	VN== 1604==			S 2		
	2525M16 3225P16		0	25	25	150	25	32	45	VIN== 1604==		MV1603	S3	MCL2414	MSP513
			0	32	25	170	32	32	45	WS061030			55		
	3232P16	0	0	32	32	170	32	40	45						

Turning tools

MVVNN

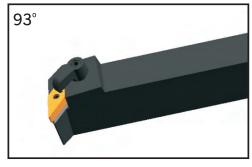




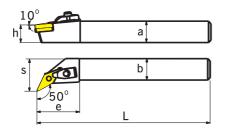


_		Dime	nsior	n(mn	ո)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
Туре														_
	Stock 库存	а	b	L	h	s	е							
	00001/10													
MVVNN	2020K16		20	20	125	20	10	45		WS061025				
	2525M16	•	25	25	150	25	12.5	45	VN== 1604==		MV1603	S2	MCL2414	MSP513
	3225P16	0	32	25	170	32	12.5	45	VIV 1004	WS061030	WW 1003	\$3	WICLZ414	MSF313
	•	32	32	170	32	16	45							

MVUNR/L



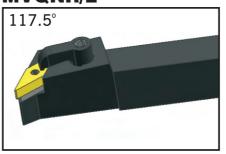
Stock Oin Production

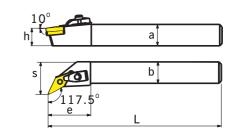




т.			Dime	ensic	n(mı	n)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud	
Туре		Stock		а	b	L		•							
		R	L	d	D L	-	h	s e			- Control of the Cont		R	- 4111	
MVUNR/L	1616H16	•	•	16	16	100	16	20	45		14/0061005				
	2020K16	•	•	20	20	125	20	25	45	VN== 1604==	WS061025		S2		
	2525M16		0	25	25	150	25	32	45	VN== 1004==		MV1603	S3	MCL2414	MSP513
	3225P16	•	0	32	25	170	32	32	45		WS061030		33		
	3232P16	0	0	32	32	170	32	40	45						

MVQNR/L

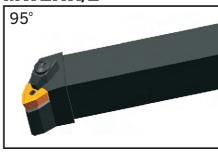


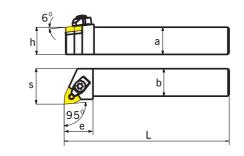


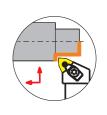


Туре				Din	nens	ion(n	nm)			Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
туре		Stock													
			L	а	b	_	h	S	е		All and a second		W.	- 1	
MVQNR/L	1616H16	•	•	16	16	100	16	20	45		W006100F				
	2020K16	•	•	20	20	125	20	25	45	VN 1604	WS061025		S2		
2525M16		0	0	25	25	150	25	32	45	VN== 1604==		MV1603	S3	MCL2414	MSP513
	3225P16	•	0	32	25	170	32	32	45		WS061030		33		
	3232P16	0	0	32	32	170	32	40	45						

MWLNR/L







Туре			ime	nsio	n(mr	n)				Applicable Inserts	Clamping screw	Shim	Wrench	Clampd	Clamping stud
.,	po	Stock		а	ь	L	h	s	е						
		R	L												
MWLNR/L	2020K06	0	0	20	20	125	20	25	30	30 WN ₀₀ 0604 ₀₀	WS061025	MW0603	S2	MCL1814	MSP513
	2525M06	0	0	25	25	150	25	32	30	***************************************	WS061030		S3		
	2020K08	•	•	20	20	125	20	25	30		WS061025		\$3		
	2525M08	•	•	25	25	150	25	32	35	Wnnn 0804nn		MW0804			MCDC17
	3225P08	•	•	32	25	170	32	32	35	WIII-0804	WS061030				MSP617
	3232P08	•	•	32	32	170	32	40	35						

Stock Oin Production

order