

***D*-type** double-clamping tool holder

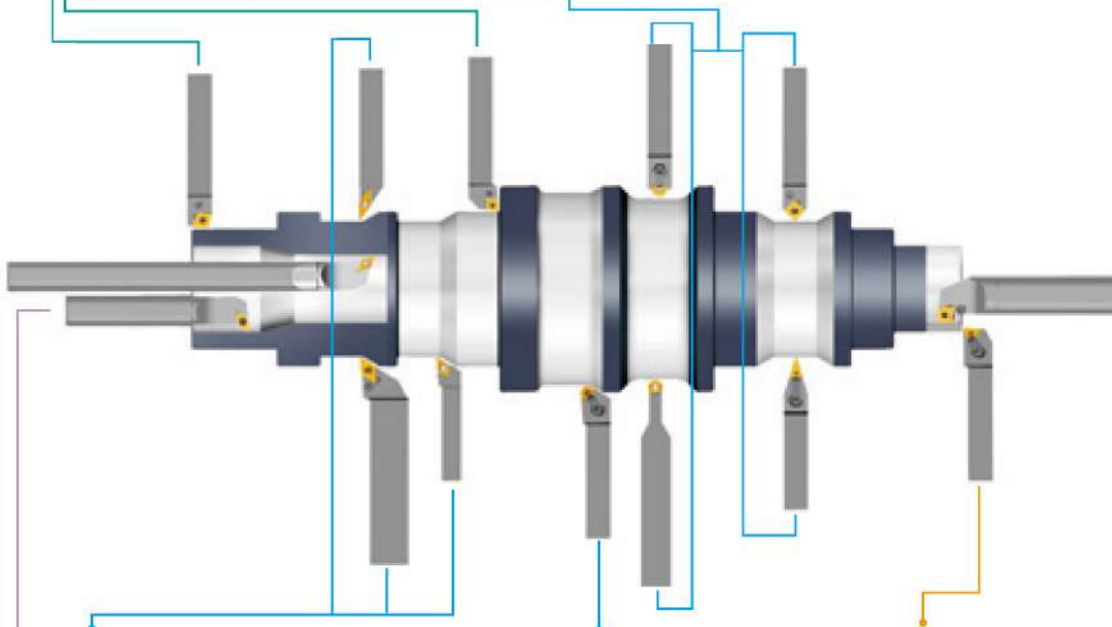


External and internal turning

External turning	Tool holder type						
	PCBNR/L□□	PSBNR/L□□	PSSNR/L□□	PTGNR/L□□	PTTNR/L□□	MCBNR/L□□	MSBNR/L□□
	MSRNR/L□□	MTGNR/L□□	MTJNR/L□□	MTJNR/L□□-Z	SCACR/L□□	SSBCR/L□□	SSSCR/L□□
	STACR/L□□	STGCR/L□□	DTJNR/L□□	DSBNR/L□□			

External and end surface turning	Tool holder type	
	PCLNR/L□□	PWLNR/L□□
	MCLNR/L□□	MWLN/L□□
	SCLCR/L□□	DCLNR/L□□
	DWLN/L□□	

Profile turning	Tool holder type			
	PDPN□□	PSDN□□	MDPN□□	MSDN□□
	MVVN□□	SDNC□□	SVBN□□	SVVC□□
	SSDC□□	SRDC□□	DVVN□□	



Profile turning	Tool holder type			
	PDJNR/L□□	MDJNR/L□□	MVJNR/L□□	
	SDACR/L□□	SDJCR/L□□	SVABR/L□□	
	SVJBR/L□□	SVJCR/L□□		
	DDJNR/L□□	DVJCR/L□□		

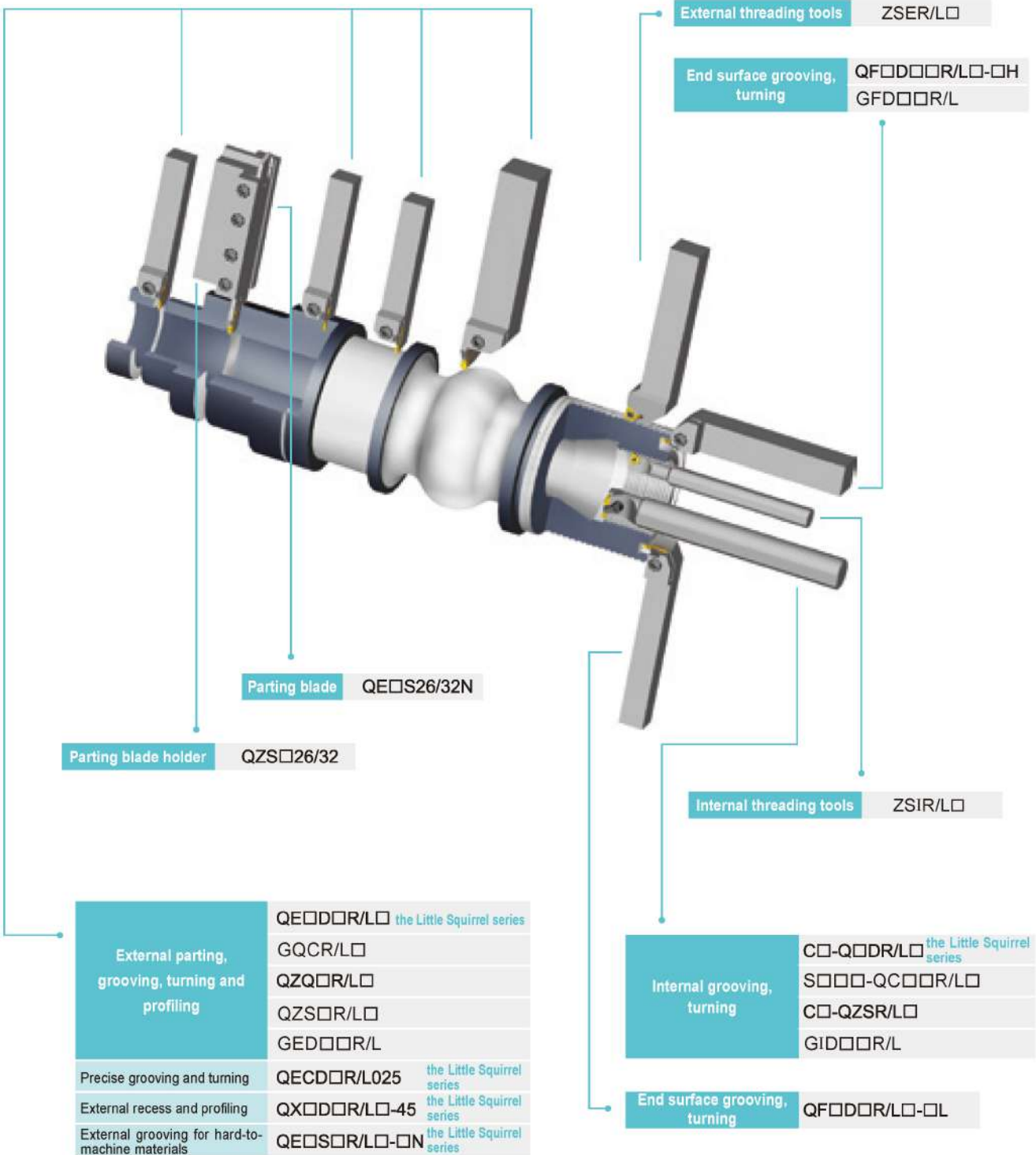
Profile turning	Tool holder type
	SRGCR/L□□

End surface turning	Tool holder type	
	PSKNR/L□□	PTFNR/L□□
	MSKNR/L□□	MTFNR/L□□
	SSKCR/L□□	STFCR/L□□

Tool holders for internal turning (Steel tool shank)						
	S□-PSKNR/L□	S□-PCLNR/L□	S□-PDPNR/L□	S□-PDUNR/L□	S□-SDQCR/L□	S□-SDZCR/L□
	S□-PTFNR/L□	S□-PWLNR/L□		S□-SDUCR/L□	S□-SDQPR/L□	
	S□-SCFCR□	S□-SCLCR/L□		S□-SDUNR/L□	S□-SVQBR/L□	
	S□-SSKCR/L□	S□-SCLPR/L□		S□-SDUPR/L□	S□-SVQCR/L□	
	S□-STFCR/L□			S□-SVJBR/L□		
	S□-STUPR/L□			S□-SVUCR/L□		

Tool holders for internal turning (Cemented carbide tool shank)				
	C□-STUPR/L□	C□-SCLPR/L□	C□-SDUPR/L□	C□-SDQPR/L□
			C□-SVUCR/L□	C□-SVQCR/L□

● Parting, grooving and threading tools





How to select external turning tools

How to select external turning tools

Explanation of external turning tools detailed table

- Listed according to clamping types.

Approach angle of tools

Tools type

The first 4 letters in the type description stands for tool shape and application

Inserts type

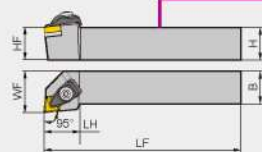
Specification chart

Application chart

The arrow shows suitable applications such as external turning, profiling and end turning, etc.

Corresponding tool holders of insert **CN** ☐ ☐ D-type clamping

DCLNR/L
KAPR:95°



Type	Stock	Basic dimensions(mm)								Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DCLNR/L	1616H09	▲	△	16	16	100	16	21	24	CM5×22C	C09BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2020K09	▲	△	20	20	125	20	25	24						
	2525M09	▲	△	25	25	150	25	32	24						
	2020K12	▲	▲	20	20	125	20	26	28	CM6×25C	C12BM	WH40L	C2RA	SM6×10XA1	SPR4
	2525M12	▲	▲	25	25	150	25	32	28						
	3225P12	▲	▲	32	25	170	32	32	28						

▲ Stock available △ Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A52	XM  A54	DR Double side  A56	HDR  A58	TC  A58
	DF  A52	PM  A53	DR Single side  A57	HPR  A59	Without chipbreaker  A59
	SF  A52	DM  A54	ER Double side  A57		
	EF  A52	EM  A55	ER Single side  A57		
	ADF  A53	EG  A55	SNR Double side  A57		
	NF  A53	EH  A55	LR Single side  A56		
		NM  A55			
Tool holder type	DCLNR/LOCH/K/M09	CN00090300	CN00090300		
	DCLNR/LOCH/K/M12	CN00120400	CN00120400	CN00120400	CN00120400

Products specification

Including product description, stock (left and right hand), basic dimensions and applicable spare parts.

Applicable inserts

Including applications of inserts, reference page, insert shape and corresponding tool holders.



TURNING



External turning tools >>>

External turning tools overview • A128-A131

External turning tools code key • A132-A133

Detailed table of external turning tools • A136-A187

External turning tool holders by D type clamping • A136-A141

External turning tool holders by P type clamping • A142-A153

External turning tool holders by M type clamping • A154-A168

External turning tool holders by S type clamping • A169-A187





External turning tools overview

General turning

External turning tools overview

Clamping system	Tool type	Approach angle(KAPR°)	Turning type						Applicable workpiece shape		Page
			External turning	End surface turning	External and end surface turning	Profile turning	Profile turning	Profile turning	Short, Thick	Thin, Long	
D	DCLNR/L	95			☺				☺		A136
	DDJNR/L	93					☺		☺	☺	A137
	DSBNR/L	75	☺						☺		A138
	DTGNR/L	91	☺						☺	☺	A139
	DVVNN	72.5						☺	☺		A140
	DVJNR/L	93					☺		☺	☺	A140
	DWLNR/L	95			☺				☺		A141
P	PCBNR/L	75	☺						☺		A142
	PCLNR/L	95			☺				☺		A143
	PDJNR/L	93					☺		☺	☺	A144
	PDPNN	62.5						☺	☺		A145
	PSBNR/L	75	☺						☺		A146
	PSDNN	45						☺	☺		A147
	PSKNR/L	75		☺					☺		A148
	PSSNR/L	45	☺						☺		A149
	PTFNR/L	91		☺					☺	☺	A150

☺ Recommended

☺ Available

External turning tools overview

Clamping system	Tool type	Approach angle(KAPR°)	Turning type						Applicable workpiece shape		Page
			External turning	End surface turning	External and end surface turning	Profile turning	Profile turning	Profile turning	Short, Thick	Thin, Long	
											
P	PTTNR/L 	60	☺						☺		A151
	PTGNR/L 	90	☺						☺	☺	A152
	PWLNRL 	95			☺				☺		A153
M	MCBNR/L 	75	☺						☺		A154
	MCLNR/L 	95			☺				☺		A155
	MDJNR/L 	93					☺		☺	☺	A156
	MDPNN 	62.5						☺	☺		A157
	MSBNR/L 	75	☺						☺		A158
	MSRNR/L 	75	☺						☺		A159
	MSKNR/L 	75		☺					☺		A160
	MSDNN 	45						☺	☺		A161
	MTGNR/L 	90	☺						☺	☺	A162
	MTJNR/L 	93	☺						☺		A163
	MTJNR/L-Z 	93		☺			☺		☺		A164
	MTFNR/L 	91		☺					☺		A165

☺ Recommended

☺ Available



External turning tools overview

General turning

External turning tools overview

Clamping system	Tool type	Approach angle(KAPR°)	Turning type						Applicable workpiece shape		Page
			External turning	End surface turning	External and end surface turning	Profile turning	Profile turning	Profile turning	Short, Thick	Thin, Long	
M	MVVNN 	72.5						☺	☺		A166
	MVJNR/L 	93					☺		☺	☺	A167
	MWLNRL 	95			☺				☺		A168
S	SCACR/L 	90	☺						☺	☺	A169
	SCLCR/L 	95			☺				☺	☺	A170
	SDACR/L 	90					☺		☺	☺	A171
	SDJCR/L 	93					☺		☺	☺	A172
	SDNCN 	62.5						☺	☺	☺	A173
	SVJBR/L 	93					☺		☺	☺	A174
	SVABR/L 	90					☺		☺	☺	A175
	SVVBN 	72.5						☺	☺	☺	A176
	SVVCN 	72.5						☺	☺	☺	A177
	SVJCR/L 	93					☺		☺	☺	A178
	SSBCR/L 	75	☺						☺		A179
	SSDCN 	45						☺	☺		A180

External turning tools overview

Clamping system	Tool type	Approach angle(KAPR°)	Turning type						Applicable workpiece shape		Page
			External turning	End surface turning	External and end surface turning	Profile turning	Profile turning	Profile turning	Short, Thick	Thin, Long	
											
S	SSKCR/L 	75		☺					☺		A181
	SSSCR/L 	45	☺						☺		A182
	STACR/L 	90	☺						☺	☺	A183
	STFCR/L 	91		☺					☺		A184
	STGCR/L 	91	☺						☺	☺	A185
	SRDCN 							☺	☺		A186
	SRGCR/L 					☺			☺		A187

☺ Recommended ☹ Available



External turning tools code key

General turning

External turning tools code key

Clamping system	Insert shape		Clearance angle of insert	Cutting direction
 P – Hole clamping	 C	 D	 B	 L – Left-hand
 M –Top and hole clamping	 R	 S	 C	 R – Right-hand
 S – Screw on	 T	 V	 D	 R – Right-hand
 C – Top clamping	 W		 E	 R – Right-hand
 D – double clamping			 N	 N Right and left hand
			 P	

P

C

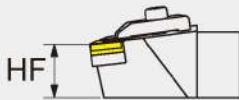
L

N

L

Tool holder style and approach angle							
A	B	C	D	E	F	G	H
J	K	L	M	N	O	P	Q
R	S	T	U	V	W	X	

Nose height (mm)



Code Height

12	12
16	16
20	20
25	25
32	32
40	40
50	50

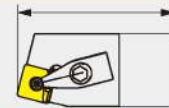
Width of tool holder (mm)



Code Width

12	12
16	16
20	20
25	25
32	32
40	40
50	50

Length of tool holder (mm)



Code Length

E	70
F	80
H	100
K	125
M	150
P	170
Q	180
R	200
S	250
T	300

25

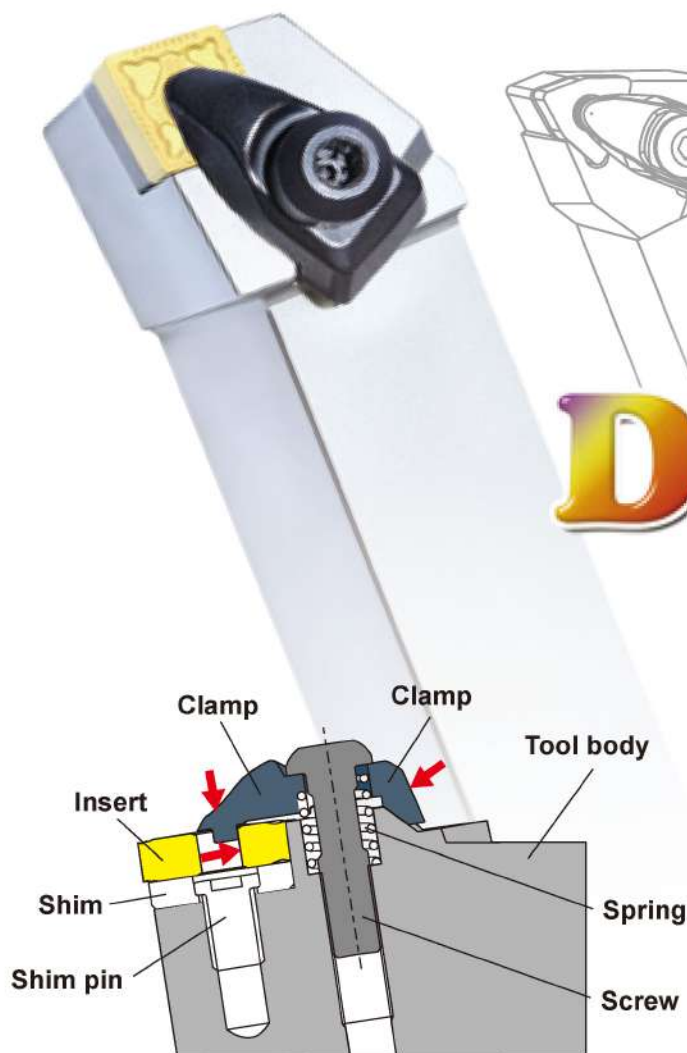
25

M

12

Length of cutting edge

Inserts shape	C	D	R	S	T	V	W
Inscribed circle (mm)	Length of cutting edge(mm)						
5.556	---	---	---	---	09	---	---
6.350	06	07	---	---	11	---	---
9.525	09	11	09	09	16	16	06
12.700	12	15	12	12	22	22	08
15.875	16	19	15	15	27	---	---
19.050	19	---	19	19	33	---	---
25.400	25	---	25	25	44	---	---
32.000	---	---	32	---	---	---	---



D

-type double-clamping tool holder

With newly developed double-clamping structure, D-type turning tools have high clamping rigidity and high positioning accuracy, achieving easy and secure clamping of inserts. It is the best choice for the clamping of straight hole negative inserts.

convenient secure clamping device



Slots in the tool body match perfectly with the clamp, realizing simple and easy clamping.

Uniquely clamp

The clamp and the inner wall of insert hole make an arc contact. The stable and evenly distributed clamping force ensures more secure clamping.

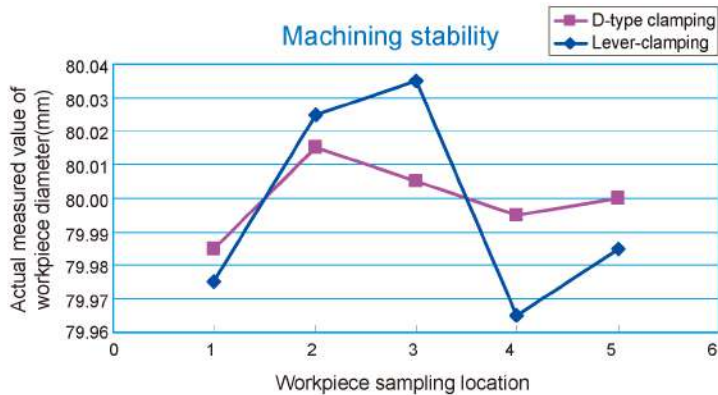
lug boss on both ends and double-locating make more insert clamp secure.

Arc locating surface makes large contact area and the force is evenly distributed.

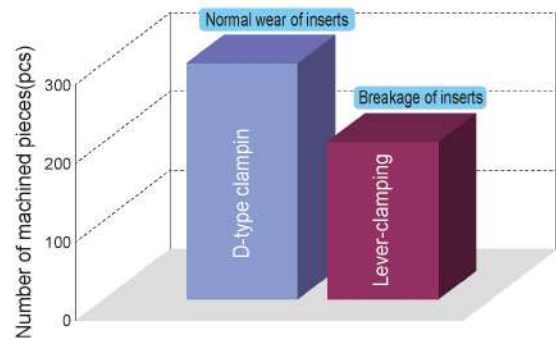
Simple and compact structure effectively prevents chip blocking while ensuring high clamping rigidity.

Compared with lever-clamping:

① Accurate locating ensures more stable machining accuracy.



② High clamping rigidity effectively improves resistance to breakage of insert.



Compared with similar products of company A:

① Locating surface contact: (checking the contact location of clamp by dyeing)

Force evenly distributed, firm clamping, high locating accuracy.



ZCC-CT



Similar product of company A

② Effect on tool life:

Tool holder: DCLNL3225P12
 Insert: YBC252/CNMG120408-DR
 Cutting material: 45# steel
 Cutting parameters: $V_c=250\text{m/min}$
 $a_p=2\text{mm}$
 $f=0.6\text{mm/r}$

After 60 minutes of cutting



ZCC-CT



Similar product of company A



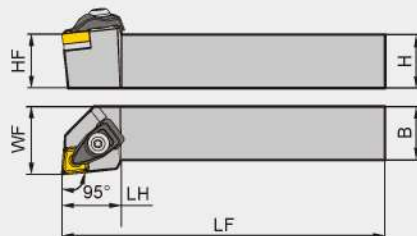
External turning tools

Corresponding tool holders of insert **CN** ☐ ☐

D-type clamping

DCLNR/L

KAPR:95°



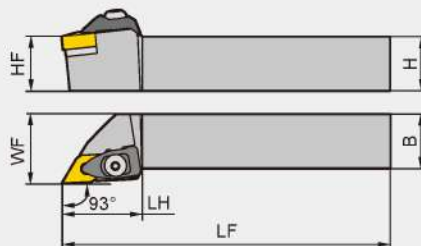
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DCLNR/L	1616H09	▲	△	16	16	100	16	21	24						
	2020K09	▲	△	20	20	125	20	25	24	CM5×22C	C09BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2525M09	▲	△	25	25	150	25	32	24						
	2020K12	▲	▲	20	20	125	20	25	28						
	2525M12	▲	▲	25	25	150	25	32	28	CM6×25C	C12BM	WH40L	C2RA	SM6×10XA1	SPR4
	3225P12	▲	▲	32	25	170	32	32	28						

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A52	XM  A54	DR Double-side  A56	HDR  A58	TC  A58
	DF  A52	PM  A53	DR Single-side  A57	HPR  A58	Without chipbreaker  A59
	SF  A52	DM  A54	ER Double-side  A57		
	EF  A52	EM  A55	ER Single-side  A57		
	ADF  A53	EG  A55	SNR Double-side  A57		
	NF  A53	EH  A55	LR Single-side  A56		
		NM  A55			
Tool holder type	DCLNR/L□□H/K/M09	CN□□0903□□	CN□□0903□□		
	DCLNR/L□□K/M/P12	CN□□1204□□	CN□□1204□□	CN□□1204□□	CN□□1204□□

Corresponding tool holders of insert **DN** ☐ ☐ D-type clamping**DDJNR/L****KAPR:93°**

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DDJNR/L	1616H11	△	△	16	16	100	16	20	30	CM5×22C	D11BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2020K11	▲	△	20	20	125	20	25	30						
	2525M11	▲	△	25	25	150	25	32	30						
	3225P11	△	△	32	25	170	32	32	30						
	2020K15	▲	▲	20	20	125	20	25	35	CM6×25C	D15BM	WH40L	C2RA	SM6×10XA1	SPR4
	2525M15	▲	▲	25	25	150	25	32	35						
	3232P15	▲	▲	32	32	170	32	40	35						

▲Stock available △Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A60	XM  A63	DR Double-side  A65	HDR  A66	TC  A66
	DF  A60	PM  A62	DR Single-side  A65		Without chipbreaker  A67
	SF  A60	DM  A63	ER Double-side  A65		
	EF  A61	EM  A64	ER Single-side  A66		
	ADF  A61	EG  A64	SNR Double-side  A66		
	NF  A61	NM  A64	LR Single-side  A65		
	NGF  A62				
Tool holder type	DDJNR/L□□H/K/M/P11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	DDJNR/L□□K/M/P15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□



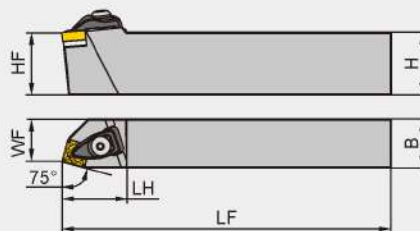
External turning tools

Corresponding tool holders of insert **SN** ☐ ☐

D-type clamping

DSBNR/L

KAPR:75°



Type		Stock		Basic dimensions(mm)					Screw	Shim	Wrench	Clamp	Shim screw	Spring	
		R	L	H	B	LF	HF	WF	LH						
DSBNR/L	1616H09	▲	△	16	16	100	16	13	28	CM5×22C	S09BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2020K12	▲	▲	20	20	125	20	17	34						
	2525M12	▲	▲	25	25	150	25	22	34	CM6×25C	S12BM	WH40L	C2RA	SM6×10XA1	SPR4
	3225P12	▲	▲	32	25	170	32	22	34						
	3232P15	▲	▲	32	32	170	32	27	41	CM6×25C	S15BM	WH40L	C3RA	SM6×10XA2	SPR4

▲ Stock available

△ Make-to-order

Applicable inserts

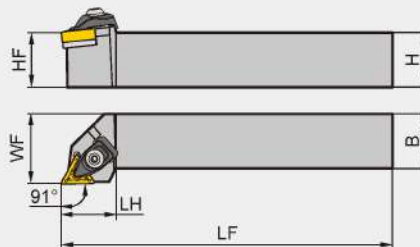
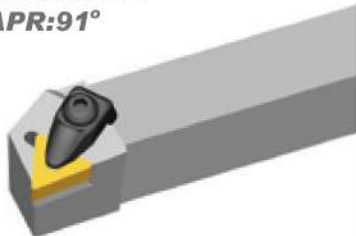
Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining
Inserts shape	XF  A68		XM  A70	DR Double-side  A73		HDR  A75	TC  A76
	DF  A68		PM  A70	DR Single-side  A74		HPR  A76	Without chipbreaker  A77
	EF  A68		DM  A71	ER Double-side  A74			
	ADF  A69		EM  A71	ER Single-side  A75			
	SF  A69		EG  A72	SNR Double-side  A75			
			NM  A72	LR Single-side  A72			
Tool holder type	DSBNR/L □□H09		SN□□0903□□	SN□□0903□□		SN□□0903□□	
	DSBNR/L □□K/M/P12		SN□□1204□□	SN□□1204□□		SN□□1204□□	SN□□1204□□
	DSBNR/L □□P15		SN□□1506□□	SN□□1506□□		SN□□1506□□	SN□□1506□□

Corresponding tool holders of insert **TN** ☐ ☐

D-type clamping

DTGNR/L

KAPR:91°



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DTGNR/L	1616H16	△	△	16	16	100	16	22	25						
	2020K16	▲	▲	20	20	125	20	25	25	CM5×22C	T16BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2525M16	▲	▲	25	25	150	25	32	25						

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			

Tool holder type

DTGNR/L□□H/K/M16

TN□□1604□□

TN□□1604□□

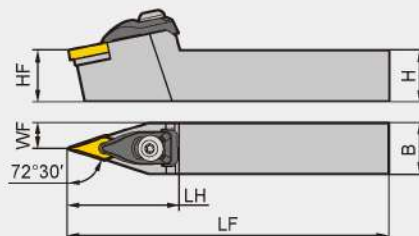
TN□□1604□□

TN□□1604□□

TN□□1604□□

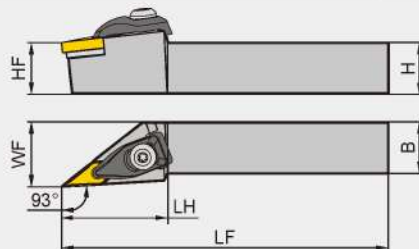
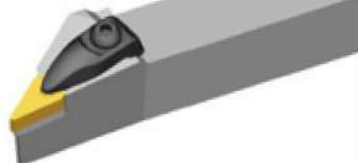


External turning tools

Corresponding tool holders of insert **VN** ☐ ☐ D-type clamping**DVVNN**
KAPR:72°30'

Type		Stock	Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
			H	B	LF	HF	WF	LH						
DVVNN	2020K16	△	20	20	125	20	10	44	CM5×22C	V16BM	WH30L	C6RA	SM5×8.65XA1	SPR6
	2525M16	▲	25	25	150	25	12.5	44						

▲Stock available △Make-to-order

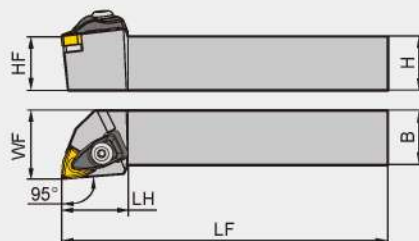
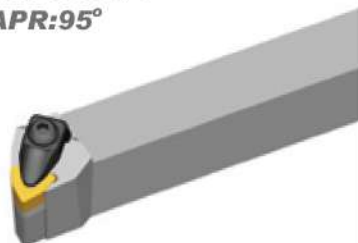
DVJNR/L
KAPR:93°

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DVJNR/L	2020K16	▲	▲	20	20	125	20	25	41	CM5×22C	V16BM	WH30L	C6RA	SM5×8.65XA1	SPR6
	2525M16	▲	▲	25	25	150	25	32	41						

▲Stock available △Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For cast iron machining	
Inserts shape	XF	 A85	XM	 A86	SNR	 A87	TC	 A87
	DF	 A85	PM	 A86				
	EF	 A85	DM	 A86				
	ADF	 A85	EM	 A87				
	SF	 A86	EG	 A87				
	NF	 A85	NM	 A87				
	NGF	 A86						
Tool holder type	DVVNN □□K/M16		VN□□1604□□		VN□□1604□□		VN□□1604□□	
	DVJNR/L □□K/M16		VN□□1604□□		VN□□1604□□		VN□□1604□□	

Corresponding tool holders of insert **WN** ☐ ☐ D-type clamping**DWLNRL****KAPR:95°**

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
DWLNRL	1616H06	▲	△	16	16	100	16	25	24	CM5×22C	W06BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	2020K06	▲	▲	20	20	125	20	25	24						
	2525M06	▲	▲	25	25	150	25	32	24						
	2020K08	▲	▲	20	20	125	20	25	31	CM6×25C	W08BM	WH40L	C2RA	SM6×10XA1	SPR4
	2525M08	▲	▲	25	25	150	25	32	31						
	3225P08	△	△	32	25	170	32	32	31						

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For cast iron machining
Inserts shape	XF  A88	XM  A90	DR Double-side  A92	TC  A93
	DF  A88	PM  A90	SNR Double-side  A92	Without chipbreaker  A93
	SF  A88	DM  A91		
	EF  A89	EM  A91		
	ES  A89	EG  A91		
	ADF  A89	EH  A92		
	NF  A89	NM  A92		
DWLNR/L□□H/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□	WN□□0604□□
DWLNR/L□□K/M/P08	WN□□0804□□	WN□□0804□□	WN□□0804□□	WN□□0804□□



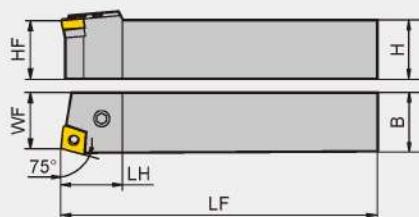
External turning tools

Corresponding tool holders of insert **CN** ☐ ☐ P-type clamping**PCBNR/L**

KAPR:75°



R-type shown



Type		Stock		Basic dimensions(mm)					Screw	Shim	Wrench	Lever	Shim pin	
		R	L	H	B	LF	HF	WF	LH					
PCBNR/L	2020K12	▲	▲	20	20	125	20	17	27	LEM8×21	C12AP	WH30L	L4	SP4
	2525M12	▲	▲	25	25	150	25	22	27					
	3232P12	▲	▲	32	32	170	32	27	33					
	2525M16	▲	▲	25	25	150	25	22	33	LEM8×25	C16AP	WH30L	L5	SP5
	3232P16	▲	▲	32	32	170	32	27	33					
	4040R16	▲	▲	40	40	200	40	35	38					
	3232P19	▲	▲	32	32	170	32	27	38	LEM10×27	C19AP	WH40L	L6	SP6
	4040R19	▲	▲	40	40	200	40	35	40					
	4040S2507	▲	▲	40	40	250	40	35	50	LEM12×36A	C25AP-07	WH50L	L8	SP8
	4040S2509	▲	▲	40	40	250	40	35	50		C25AP			

▲Stock available

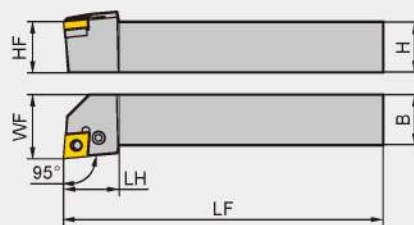
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For heavy machining	For cast iron machining		
Inserts shape	XF	 A52	XM	 A54	DR Double-side	 A56	HDR	 A58	TC	 A58
	DF	 A52	PM	 A53	DR Single-side	 A57	HPR	 A58	Without chipbreaker	 A59
	SF	 A52	DM	 A54	ER Double-side	 A57				
	EF	 A52	EM	 A55	ER Single-side	 A57				
	ADF	 A53	EG	 A55	SNR Double-side	 A57				
	NF	 A53	EH	 A55	LR Single-side	 A56				
			NM	 A55						
Tool holder type	PCBNR/L□□K/M/P12		CN□□1204□□		CN□□1204□□		CN□□1204□□		CN□□1204□□	
	PCBNR/L□□M/P/R16		CN□□1606□□		CN□□1606□□		CN□□1606□□		CN□□1606□□	
	PCBNR/L□□P/R19		CN□□1906□□		CN□□1906□□		CN□□1906□□		CN□□1906□□	
	PCBNR/L□□S2507				CN□□2507□□					
	PCBNR/L□□S2509				CN□□2509□□					

Corresponding tool holders of insert **CN** ☐ ☐ P-type clamping**PCLNR/L****KAPR:95°**

R-type shown



Type		Stock		Basic dimensions(mm)					Screw	Shim	Wrench	Lever	Shim pin	
		R	L	H	B	LF	HF	WF	LH					
PCLNR/L	2020K12	▲	▲	20	20	125	20	25	28	LEM8×21	C12AP	WH30L	L4	SP4
	2525M12	▲	▲	25	25	150	25	32	33					
	3225P12	△	△	32	25	170	32	32	33					
	3232P12	▲	▲	32	32	170	32	40	33					
	2525M16	▲	▲	25	25	150	25	32	33	LEM8×25	C16AP	WH30L	L5	SP5
	3225P16	△	△	32	25	170	32	32	33					
	3232P16	▲	▲	32	32	170	32	40	33					
	4040R16	△	△	40	40	200	40	50	38					
	3232P19	▲	▲	32	32	170	32	40	38	LEM10×27	C19AP	WH40L	L6	SP6
	4040R19	▲	▲	40	40	200	40	50	38					
	4040S2507	▲	▲	40	40	250	40	50	49	LEM12×36A	C25AP-07 C25AP	WH50L	L8	SP8
	4040S2509	▲	▲	40	40	250	40	50	49					

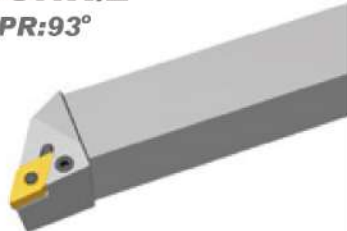
▲Stock available △Make-to-order

Applicable inserts

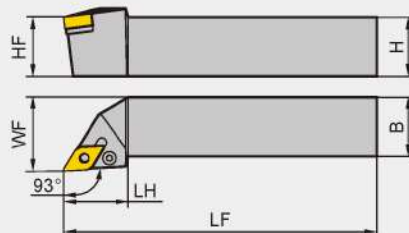
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A52	XM  A54	DR Double-side  A56	HDR  A58	TC  A58
	DF  A52	PM  A53	DR Single-side  A57	HPR  A58	Without chipbreaker  A59
	SF  A52	DM  A54	ER Double-side  A57		
	EF  A52	EM  A55	ER Single-side  A57		
	ADF  A53	EG  A55	SNR Double-side  A57		
	NF  A53	EH  A55	LR Single-side  A56		
		NM  A55			
Tool holder type	PCBNR/L□□K/M/P12	CN□□1204□□	CN□□1204□□	CN□□1204□□	CN□□1204□□
	PCBNR/L□□M/P/R16	CN□□1606□□	CN□□1606□□	CN□□1606□□	CN□□1606□□
	PCBNR/L□□P/R19		CN□□1906□□	CN□□1906□□	CN□□1906□□
	PCBNR/L□□S2507		CN□□2507□□		
	PCBNR/L□□S2509		CN□□2509□□		



External turning tools

Corresponding tool holders of insert **DN** ☐ ☐ P-type clamping**PDJNR/L****KAPR:93°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PDJNR/L	1616H11	▲	▲	16	16	100	16	20	25	LEM6×13.4A	D11AP	WH25L	L3	SP3
	2020K11	▲	▲	20	20	125	20	25	25					
	2525M11	▲	▲	25	25	150	25	32	30					
	2020K15	▲	▲	20	20	125	20	25	35	LEM8×21	D15AP	WH30L	L4B	SP4
	2525M15	▲	▲	25	25	150	25	32	35					
	3232P15	▲	▲	32	32	170	32	40	35					
	2020K15-3	▲	△	20	20	125	20	25	35	LEM8×21	D15AP	WH30L	L4	SP4
	2525M15-3	▲	▲	25	25	150	25	32	35					
	3232P15-3	▲	△	32	32	170	32	40	35					

▲Stock available

△Make-to-order

Applicable inserts

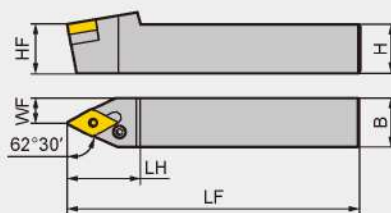
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A60	XM  A63	DR Double-side  A65	HDR  A66	TC  A66
	DF  A60	PM  A62	DR Single-side  A65		Without chipbreaker  A67
	SF  A60	DM  A63	ER Double-side  A65		
	EF  A61	EM  A64	ER Single-side  A66		
	ADF  A61	EG  A64	SNR Double-side  A66		
	NF  A61	NM  A64	LR Single-side  A65		
	NGF  A62				
Tool holder type	PDJNR/L□□H/K/M11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	PDJNR/L□□K/M/P15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□
	PDJNR/L□□K/M/P15-3	DN□□1504□□	DN□□1504□□		DN□□1504□□

Corresponding tool holders of insert **DN** ☐ ☐ P-type clamping**PDPNN**

KAPR:62°30'



R-type shown



Type	Stock	Basic dimensions(mm)							Screw	Shim	Wrench	Lever	Shim pin
		H	B	LF	HF	WF	LH						
PDPNN	2020K15	▲	20	20	125	20	10	38	LEM8×21	D15AP	WH30L	L4B	SP4
	2525M15	▲	25	25	150	25	12.5	38					
	3232P15	▲	32	32	170	32	16	38					
	2020K15-3	▲	20	20	125	20	10	38	LEM8×21	D15AP	WH30L	L4	SP4
	2525M15-3	▲	25	25	150	25	12.5	38					
	3232P15-3	▲	32	32	170	32	16	38					

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A60	XM  A63	DR Double-side  A65	HDR  A66	TC  A66
	DF  A60	PM  A62	DR Single-side  A65		Without chipbreaker  A67
	SF  A60	DM  A63	ER Double-side  A65		
	EF  A61	EM  A64	ER Single-side  A66		
	ADF  A61	EG  A64	SNR Double-side  A66		
	NF  A61	NM  A64	LR Single-side  A65		
	NGF  A62				
Tool holder type	PDJNR/L□□H/K/M11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	PDJNR/L□□K/M/P15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□
	PDJNR/L□□K/M/P15-3	DN□□1504□□	DN□□1504□□		DN□□1504□□



External turning tools

Corresponding tool holders of insert **SN** ☐ ☐

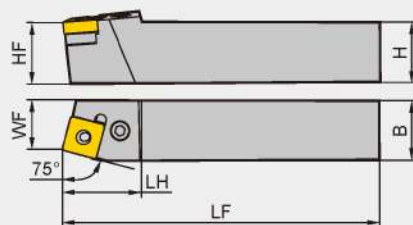
P-type clamping

PSBNR/L

KAPR:75°



R-type shown



Type		Stock		Basic dimensions(mm)					Screw	Shim	Wrench	Lever	Shim pin	
		R	L	H	B	LF	HF	WF	LH					
PSBNR/L	1616H09	▲	▲	16	16	100	16	13	21	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K09	▲	▲	20	20	125	20	17	21					
	2020K12	▲	▲	20	20	125	20	17	28	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	▲	▲	25	25	150	25	22	28					
	3225P12	▲	△	32	25	170	32	22	28					
	3232P12	▲	▲	32	32	170	32	27	28	LEM8×25	S15AP	WH30L	L5	SP5
	2525M15	▲	▲	25	25	150	25	22	35					
	3232P15	▲	▲	32	32	170	32	27	35	LEM10×27	S19AP	WH40L	L6	SP6
	3232P19	▲	▲	32	32	170	32	27	40					
	4040R19	▲	▲	40	40	200	40	35	40	LEM12×36A	S25AP S25AP-09	WH50L	L8	SP8
	4040S2507	▲	▲	40	40	250	40	35	48					
	4040S2509	▲	▲	40	40	250	40	35	48					

▲Stock available

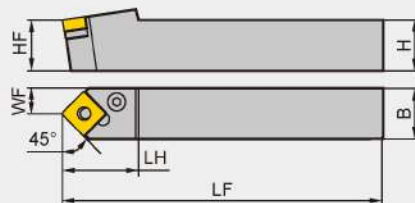
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76	Without chipbreaker  A77	
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76			
	EF  A68	DM  A71	ER Double-side  A74				
	ADF  A69	EM  A71	ER Single-side  A75				
	SF  A69	EG  A72	SNR Double-side  A75				
		NM  A72	LR Single-side  A72				
Tool holder type	PSBNR/L□□H/K09	SN□□0903□□	SN□□0903□□			SN□□0903□□	
	PSBNR/L□□K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	
	PSBNR/L□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	
	PSBNR/L□□P/R19		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	
	PSBNR/L□□S2507			SN□□2507□□	SN□□2507□□		
PSBNR/L□□S2509			SN□□2509□□	SN□□2509□□			

Corresponding tool holders of insert **SN** ☐ ☐ P-type clamping**PSDNN**

KAPR:45°

General
turning

External turning tools

Type		Stock	Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
			H	B	LF	HF	WF	LH					
PSDNN	2020K12	▲	20	20	125	20	10	30	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	▲	25	25	150	25	12.5	30					
	3232P12	▲	32	32	170	32	16	35					
	2525M15	▲	25	25	150	25	12.5	35	LEM8×25	S15AP	WH30L	L5	SP5
	3232P15	▲	32	32	170	32	16	40					
	3232P19	▲	32	32	170	32	16	40	LEM10×27	S19AP	WH40L	L6	SP6
	4040R19	▲	40	40	200	40	20	40					

▲Stock available

△Make-to-order

Applicable inserts

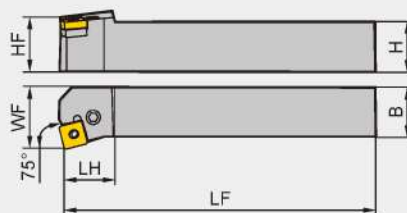
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	Without chipbreaker  A77
	EF  A68	DM  A71	ER Double-side  A74		
	ADF  A69	EM  A71	ER Single-side  A75		
	SF  A69	EG  A72	SNR Double-side  A75		
		NM  A72	LR Single-side  A72		
Tool holder type	PSDNN□□K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	PSDNN□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	PSDNN□□P/R19	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□



External turning tools

Corresponding tool holders of insert **SN** ☐ ☐ P-type clamping**PSKNR/L**
KAPR:75°

R-type shown



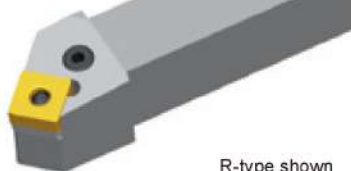
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PSKNR/L	1616H09	▲	▲	16	16	100	16	20	17	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K09	▲	△	20	20	125	20	25	20					
	2020K12	▲	▲	20	20	125	20	25	26	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	▲	▲	25	25	150	25	32	26					
	3232P12	▲	▲	32	32	170	32	40	30	LEM8×25	S15AP	WH30L	L5	SP5
	2525M15	▲	▲	25	25	150	25	32	32					
	3232P15	▲	▲	32	32	170	32	40	32	LEM10×27	S19AP	WH40L	L6	SP6
	3232P19	▲	▲	32	32	170	32	40	36					
	4040R19	▲	▲	40	40	200	40	50	40					

▲Stock available

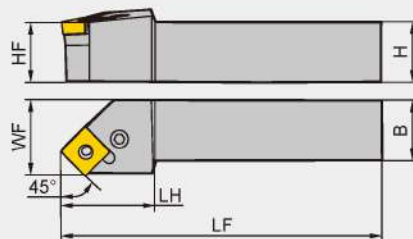
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining		
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76	Without chipbreaker			
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	 A77				
	EF  A68	DM  A71	ER Double-side  A74						
	ADF  A69	EM  A71	ER Single-side  A75						
	SF  A69	EG  A72	SNR Double-side  A75						
		NM  A72	LR Single-side  A72						
Tool holder type	PSKNR/L□□H/K09	SN□□0903□□	SN□□0903□□				SN□□0903□□		
	PSKNR/L□□K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□		
	PSKNR/L□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□		
	PSKNR/L□□P/R19		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□		

Corresponding tool holders of insert **SN** ☐ ☐ P-type clamping**PSSNR/L****KAPR:45°**

R-type shown



General turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PSSNR/L	1616H09	▲	▲	16	16	100	16	20	25	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K09	△	△	20	20	125	20	25	25					
	2020K12	▲	▲	20	20	125	20	25	30	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	▲	▲	25	25	150	25	32	30					
	3232P12	▲	▲	32	32	170	32	40	40	LEM8×25	S15AP	WH30L	L5	SP5
	2525M15	▲	▲	25	25	150	25	32	35					
	3232P15	▲	▲	32	32	170	32	40	40	LEM10×27	S19AP	WH40L	L6	SP6
	3232P19	▲	▲	32	32	170	32	40	40					
	4040R19	▲	▲	40	40	200	40	50	50	LEM12×36A	S25AP	WH50L	L8	SP8
	4040S2507	▲	▲	40	40	250	40	50	50		S25AP-09			
	4040S2509	▲	▲	40	40	250	40	50	50					

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For heavy machining	For cast iron machining	
Inserts shape	XF A68		XM A70		DR Double-side A73		HDR A75	TC A76	
	DF A68		PM A70		DR Single-side A74		HPR A76	Without chipbreaker A77	
	EF A68		DM A71		ER Double-side A74				
	ADF A69		EM A71		ER Single-side A75				
	SF A69		EG A72		SNR Double-side A75				
			NM A72		LR Single-side A72				
Tool holder type	PSSNR/L□□H/K09	SN□□0903□□	SN□□0903□□	SN□□0903□□				SN□□0903□□	
	PSSNR/L□□K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	
	PSSNR/L□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	
	PSSNR/L□□P/R19		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	
	PSSNR/L□□S2507				SN□□2507□□	SN□□2507□□	SN□□2507□□		
	PSSNR/L□□S2509				SN□□2509□□	SN□□2509□□	SN□□2509□□		



External turning tools

Corresponding tool holders of insert **TN** ☐ ☐

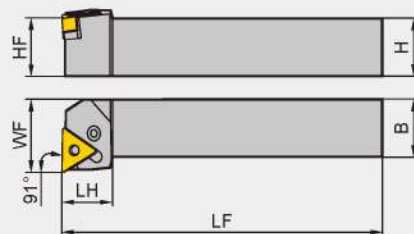
P-type clamping

PTFNR/L

KAPR:91°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PTFNR/L	1616H16	△	▲	16	16	100	16	20	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	2020K16	▲	▲	20	20	125	20	25	20					
	2525M16	▲	▲	25	25	150	25	32	22					
	2525M22	▲	▲	25	25	150	25	32	25	LEM8×21	T22AP	WH30L	L4	SP4
	3232P22	▲	▲	32	32	170	32	40	30					
	3232P27	▲	▲	32	32	170	32	40	34	LEM8×25	T27AP	WH30L	L5	SP5
	4040S27	▲	▲	40	40	250	40	50	34					

▲Stock available

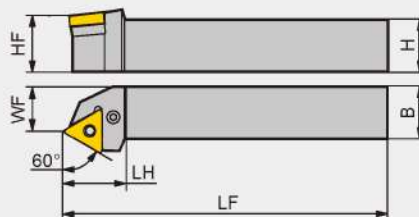
△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	PTFNR/L□□H/K/M16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	PTFNR/L□□M/P22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□
	PTFNR/L□□P/S27		TN□□2706□□	TN□□2706□□	TN□□2706□□

Corresponding tool holders of insert **TN** ☐ ☐ P-type clamping**PTTNR/L****KAPR:60°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PTTNR/L	1616H16	▲	▲	16	16	100	16	13	25	LEM6×17	T16AP	WH25L	L3	SP3
	2020K16	▲	▲	20	20	125	20	17	25					
	2525M16	△	△	25	25	150	25	22	25	LEM8×21	T22AP	WH30L	L4	SP4
	2525M22	▲	▲	25	25	150	25	22	32					

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining	
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84	
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84	
	SF  A78	DM  A81	ER Double-side  A83			
	EF  A79	EM  A81	SNR Double-side  A83			
	ES  A79	EG  A81	LR Single-side  A83			
	ADF  A79	EH  A82				
Tool holder type	PTTNR/L□□H/K/M16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	PTTNR/L□□M22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□



External turning tools

Corresponding tool holders of insert **TN** ☐ ☐

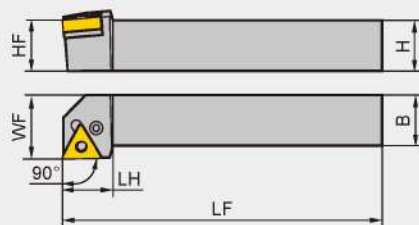
P-type clamping

PTGNR/L

KAPR:90°



R-type shown



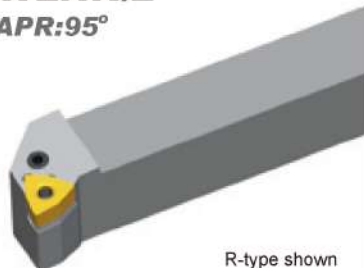
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PTGNR/L	1616H16	▲	▲	16	16	100	16	20	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	2020K16	▲	▲	20	20	125	20	25	20					
	2525M16	▲	▲	25	25	150	25	32	20					
	3232P16	▲	▲	32	32	170	32	40	20					
	2525M22	▲	▲	25	25	150	25	32	30	LEM8×21	T22AP	WH30L	L4	SP4
	3232P22	▲	▲	32	32	170	32	40	30					
	3232P27	▲	▲	32	32	170	32	40	33	LEM8×25	T27AP	WH30L	L5	SP5
	4040S27	▲	▲	40	40	250	40	50	33					

▲Stock available

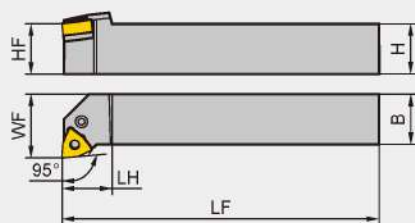
△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	PTGNR/L□□H/K/M/P16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	PTGNR/L□□M/P22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□
	PTGNR/L□□P/S27		TN□□2706□□	TN□□2706□□	TN□□2706□□

Corresponding tool holders of insert **WN** ☐ ☐ P-type clamping**PWLNRL**
KAPR:95°

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Lever	Shim pin
		R	L	H	B	LF	HF	WF	LH					
PWLNRL	1616H06	▲	▲	16	16	100	16	20	20	LEM6×13.4A	W06AP	WH25L	L3	SP3
	2020K06	▲	▲	20	20	125	20	25	20					
	2525M06	▲	▲	25	25	150	25	32	25					
	2020K08	▲	▲	20	20	125	20	25	28	LEM8×21	W08AP	WH30L	L4	SP4
	2525M08	▲	▲	25	25	150	25	32	28					
	3232P08	△	△	32	32	170	32	40	28					

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For cast iron machining
Inserts shape	XF  A88	XM  A90	DR Double-side  A92	TC  A93
	DF  A88	PM  A90	SNR Double-side  A92	Without chipbreaker  A93
	SF  A88	DM  A91		
	EF  A89	EM  A91		
	ES  A89	EG  A91		
	ADF  A89	EH  A92		
	NF  A89	NM  A92		
Tool holder type	PWLNRL/□□□H/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□
	PWLNRL/□□□K/M/P08	WN□□0804□□	WN□□0804□□	WN□□0804□□



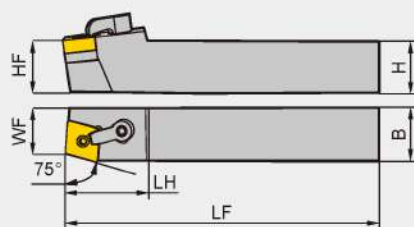
External turning tools

Corresponding tool holders of insert **CN** ☐ ☐ M-type clamping

MCBNR/L KAPR:75°



R-type shown

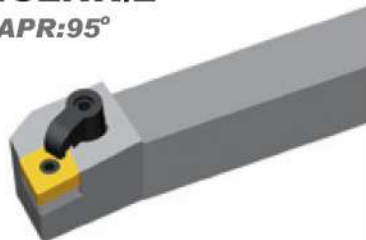


Type		Stock		Basic dimensions(mm)					Screw	Shim	Wrench	Clamp	Pin	
		R	L	H	B	LF	HF	WF	LH					
MCBNR/L	1616H12	△	△	16	16	100	16	13	32	DM6×25	C12BM	WH30L	C1RD	TM6×17
	2020K12	▲	▲	20	20	125	20	17	32	DM6×30				
	2525M12	▲	▲	25	25	150	25	22	32	DM6×30				
	3232P12	▲	▲	32	32	170	32	27	32	DM6×30	C16BM	WH30L	C2RD	TM8×21
	2525M16	▲	▲	25	25	150	25	22	40					
	3232P16	▲	▲	32	32	170	32	27	40					
	4040R16	△	△	40	40	200	40	35	40	DM8×30X	C19BM	WH40L	C5RD	TM10×21
	3232P19	▲	▲	32	32	170	32	27	40					
	4040R19	▲	▲	40	40	200	40	35	40					

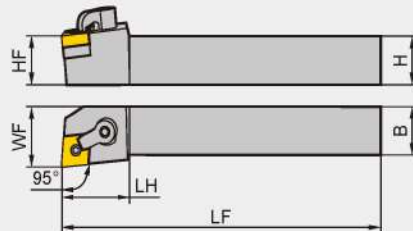
▲Stock available △Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For heavy machining	For cast iron machining		
Inserts shape	XF	 A52	XM	 A54	DR Double-side	 A56	HDR	 A58	TC	 A58
	DF	 A52	PM	 A53	DR Single-side	 A57	HPR	 A58	Without chipbreaker	 A59
	SF	 A52	DM	 A54	ER Double-side	 A57				
	EF	 A52	EM	 A55	ER Single-side	 A57				
	ADF	 A53	EG	 A55	SNR Double-side	 A57				
	NF	 A53	EH	 A55	LR Single-side	 A56				
			NM	 A55						
Tool holder type	MCBNR/L□□H/K/M/P12		CN□□1204□□		CN□□1204□□		CN□□1204□□	CN□□1204□□	CN□□1204□□	
	MCBNR/L□□M/P/R16		CN□□1606□□		CN□□1606□□		CN□□1606□□	CN□□1606□□	CN□□1606□□	
	MCBNR/L□□P/R19		CN□□1906□□		CN□□1906□□		CN□□1906□□	CN□□1906□□	CN□□1906□□	

Corresponding tool holders of insert **CN** ☐ ☐ M-type clamping**MCLNR/L****KAPR:95°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MCLNR/L	1616H12	△	△	16	16	100	16	20	32	DM6×25				
	2020K12	▲	▲	20	20	125	20	25	32					
	2525M12	▲	▲	25	25	150	25	32	32	DM6×30	C12BM	WH30L	C1RD	TM6×17
	3225M12	△	△	32	25	150	32	32	32	DM6×30				
	3232P12	▲	▲	32	32	170	32	40	32					
	2525M16	▲	▲	25	25	150	25	32	38	DM6×30				
	3225M16	△	△	32	25	150	32	32	38					
	3232P16	▲	▲	32	32	170	32	40	38	DM6×30	C16BM	WH30L	C2RD	TM8×21
	4040R16	△	△	40	40	200	40	50	45					
	3232P19	▲	▲	32	32	170	32	40	45	DM8×30X	C19BM	WH40L	C5RD	TM10×21
	4040R19	▲	▲	40	40	200	40	50	45					

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For heavy machining	For cast iron machining		
Inserts shape	XF	 A52	XM	 A54	DR Double-side	 A56	HDR	 A58	TC	 A58
	DF	 A52	PM	 A53	DR Single-side	 A57	HPR	 A58	Without chipbreaker	 A59
	SF	 A52	DM	 A54	ER Double-side	 A57				
	EF	 A52	EM	 A55	ER Single-side	 A57				
	ADF	 A53	EG	 A55	SNR Double-side	 A57				
	NF	 A53	EH	 A55	LR Single-side	 A56				
			NM	 A55						
Tool holder type	MCBNR/L□□H/K/M/P12		CN□□1204□□		CN□□1204□□		CN□□1204□□	CN□□1204□□	CN□□1204□□	
	MCBNR/L□□M/P/R16		CN□□1606□□		CN□□1606□□		CN□□1606□□	CN□□1606□□	CN□□1606□□	
	MCBNR/L□□P/R19		CN□□1906□□		CN□□1906□□		CN□□1906□□	CN□□1906□□	CN□□1906□□	

General turning

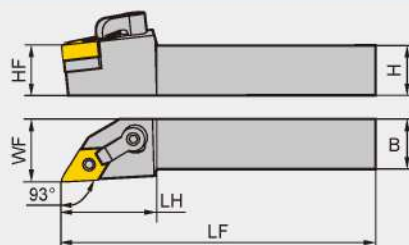
External turning tools



External turning tools

Corresponding tool holders of insert **DN** ☐ ☐ M-type clamping**MDJNR/L**
KAPR:93°

R-type shown



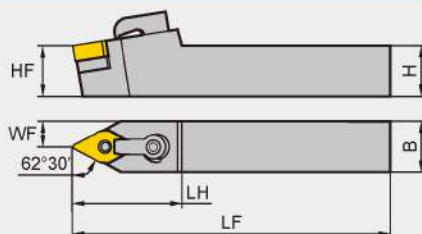
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin				
		R	L	H	B	LF	HF	WF	LH									
MDJNR/L	1616H11	△	△	16	16	100	16	20	32	DM6×25	D11BM	WH20L WH30L	C1RD	TM5×13				
	2020K11	▲	▲	20	20	125	20	25	32									
	2525M11	▲	▲	25	25	150	25	32	32									
	3232P11	▲	▲	32	32	170	32	40	32	DM6×30	D15BM	WH30L	C2RD	TM6×19				
	2020K15	▲	▲	20	20	125	20	25	38	DM6×25								
	2525M15	▲	▲	25	25	150	25	32	38	DM6×30								
	3225P15	▲	▲	32	25	170	32	32	38	DM6×30								
	3232P15	△	△	32	32	170	32	40	42									
	4040R15	△	△	40	40	200	40	50	45	DM6×30								
	2020K15-3	△	△	20	20	125	20	25	38	DM6×25				TM6×17				
	2525M15-3	△	△	25	25	150	25	32	38	DM6×30								
	3225P15-3	△	△	32	25	170	32	32	38									
	3232P15-3	△	△	32	32	170	32	40	42	DM6×30								

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A60	XM  A63	DR Double-side  A65	HDR  A66	TC  A66
	DF  A60	PM  A62	DR Single-side  A65		Without chipbreaker  A67
	SF  A60	DM  A63	ER Double-side  A65		
	EF  A61	EM  A64	ER Single-side  A66		
	ADF  A61	EG  A64	SNR Double-side  A66		
	NF  A61	NM  A64	LR Single-side  A65		
	NGF  A62				
Tool holder type	MDJNR/L□□H/K/M/P11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	MDJNR/L□□K/M/P/R15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□
	MDJNR/L□□K/M/P15-3	DN□□1504□□	DN□□1504□□	DN□□1504□□	DN□□1504□□

Corresponding tool holders of insert **DN** ☐ ☐ M-type clamping**MDPNN**
KAPR:62°30'

Type		Stock	Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
			H	B	LF	HF	WF	LH					
MDPNN	1616H11	△	16	16	100	16	8	35	DM6×25	D11BM	WH20L WH30L	C1RD	TM5×13
	2020K11	▲	20	20	125	20	10	35					
	2525M11	▲	25	25	150	25	12.5	35					
	3232P11	▲	32	32	170	32	16	35					
	2020K15	▲	20	20	125	20	10	43	DM6×25	D15BM	WH30L	C2RD	TM6×19
	2525M15	▲	25	25	150	25	12.5	43					
	3225P15	▲	32	25	170	32	12.5	43					
	3232P15	△	32	32	170	32	16	43					
	4040R15	△	40	40	200	40	20	43	DM6×30				TM6×17
	2020K15-3	△	20	20	125	20	10	43					
	2525M15-3	△	25	25	150	25	12.5	43					
	3232R15-3	△	32	32	200	32	16	43					

▲Stock available

△Make-to-order

Applicable inserts

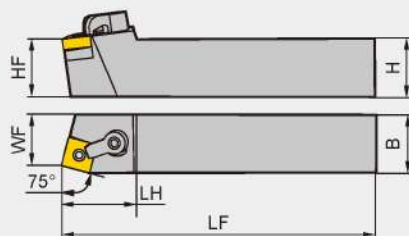
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A60	XM  A63	DR Double-side  A65	HDR  A66	TC  A66
	DF  A60	PM  A62	DR Single-side  A65		Without chipbreaker  A67
	SF  A60	DM  A63	ER Double-side  A65		
	EF  A61	EM  A64	ER Single-side  A66		
	ADF  A61	EG  A64	SNR Double-side  A66		
	NF  A61	NM  A64	LR Single-side  A65		
	NGF  A62				
Tool holder type	MDPNN□□H/K/M/P11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	MDPNN□□K/M/P/R15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□
	MDPNN□□K/M/P15-3	DN□□1504□□	DN□□1504□□	DN□□1504□□	DN□□1504□□



External turning tools

Corresponding tool holders of insert **SN** ☐ ☐ M-type clamping**MSBNR/L**
KAPR:75°

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MSBNR/L	1616H12	△	△	16	16	100	16	13	32	DM6×25	S12BM	WH30L	C1RD	TM6×17
	2020K12	▲	▲	20	20	125	20	17	32					
	2525M12	▲	▲	25	25	150	25	22	32					
	3225P12	▲	▲	32	25	170	32	22	32	DM6×30				
	3232P12	△	△	32	32	170	32	27	32					
	2525M15	▲	▲	25	25	150	25	22	38	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3225P15	△	△	32	25	170	32	22	38					
	3232P15	▲	▲	32	32	170	32	29	38	DM6×30				
	3232P19	▲	▲	32	32	170	32	27	45	DM8×30X	S19BM	WH40L	C5RD	TM10×21
	4040R19	▲	▲	40	40	200	40	35	45					
	4040R2509	▲	▲	40	40	200	40	35	60	DM10×35X	S25BM	WH40L WH50L	C6RD	TM12×29
	4040S2509	▲	▲	40	40	250	40	35	60			WH40L WH50L		

▲Stock available

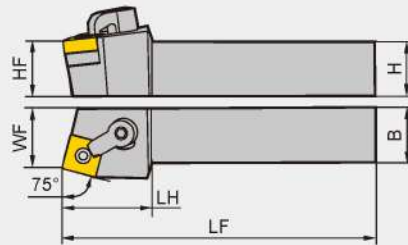
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76		
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	Without chipbreaker  A77		
	EF  A68	DM  A71	ER Double-side  A74				
	ADF  A69	EM  A71	ER Single-side  A75				
	SF  A69	EG  A72	SNR Double-side  A75				
		NM  A72	LR Single-side  A72				
Tool holder type	MSBNR/L□□H/K/M/P12	S□□□1204□□	S□□□1204□□	S□□□1204□□	S□□□1204□□	S□□□1204□□	S□□□1204□□
	MSBNR/L□□M/P15	S□□□1506□□	S□□□1506□□	S□□□1506□□	S□□□1506□□	S□□□1506□□	S□□□1506□□
	MSBNR/L□□P/R19		S□□□1906□□	S□□□1906□□	S□□□1906□□	S□□□1906□□	S□□□1906□□
	MSBNR/L□□R/S2509			S□□□2509□□	S□□□2509□□	S□□□2509□□	S□□□2509□□

Corresponding tool holders of insert **SN** ☐ ☐ M-type clamping**MSRNR/L**
KAPR:75°

R-type shown

General
turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin			
		R	L	H	B	LF	HF	WF	LH								
MSRNR/L	1616H12	△	△	16	16	100	16	17	36	DM6×25	S12BM	WH30L	C1RD	TM6×17			
	2020K12	▲	△	20	20	125	20	22	36								
	2525M12	▲	▲	25	25	150	25	27	36	DM6×30							
	3225P12	▲	▲	32	25	170	32	27	36								
	3232P12	△	△	32	32	170	32	35	36	DM6×30							
	2525M15	▲	▲	25	25	150	25	27	40		DM6×30						
	3225P15	△	△	32	25	170	32	27	40	S15BM		WH30L	C2RD	TM8×21			
	3232P15	▲	▲	32	32	170	32	35	40								
	3232P19	▲	▲	32	32	170	32	35	45	DM8×30X	S19BM				WH40L	C5RD	TM10×21
	4040R2509	▲	▲	40	40	200	40	43	60	DM10×35X	S25BM				WH40L WH50L	C6RD	TM12×29
4040S2509	▲	▲	40	40	250	40	43	60									

▲ Stock available △ Make-to-order

Applicable inserts

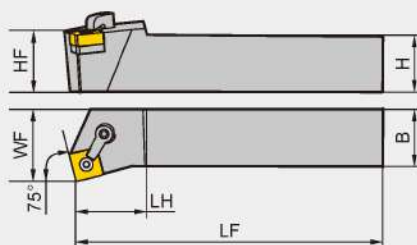
Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76		
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	Without chipbreaker  A77		
	EF  A68	DM  A71	ER Double-side  A74				
	ADF  A69	EM  A71	ER Single-side  A75				
	SF  A69	EG  A72	SNR Double-side  A75				
		NM  A72	LR Single-side  A72				
Tool holder type	MSRNR/L□□H/K/M/P12		SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	MSRNR/L□□M/P15		SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	MSRNR/L□□P19		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□
	MSRNR/L□□R/S2509			SN□□2509□□	SN□□2509□□		



External turning tools

Corresponding tool holders of insert **SN** ☐ ☐ M-type clamping**MSKNR/L**
KAPR:75°

R-type shown



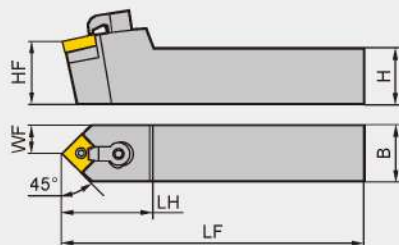
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MSKNR/L	1616H12	△	△	16	16	100	16	20	32	DM6×20	S12BM	WH30L	C1RD	TM6×17
	2020K12	▲	△	20	20	125	20	25	32	DM6×25				
	2525M12	▲	▲	25	25	150	25	32	32	DM6×30				
	3225P12	▲	▲	32	25	170	32	32	32	DM6×30				
	3232P12	△	△	32	32	170	32	40	32					
	2525M15	▲	▲	25	25	150	25	32	35	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3225P15	△	△	32	25	170	32	32	35	DM6×30				
	3232P15	▲	▲	32	32	170	32	40	38					
	3232P19	▲	▲	32	32	170	32	40	45					
	4040R19	△	△	40	40	200	40	50	45					
4040S2509	△	△	40	40	250	40	50	50	DM10×35X	S25BM	WH40L WH50L	C6RD	TM12×29	

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing	For roughing		For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76		
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	Without chipbreaker  A77		
	EF  A68	DM  A71	ER Double-side  A74				
	ADF  A69	EM  A71	ER Single-side  A75				
	SF  A69	EG  A72	SNR Double-side  A75				
		NM  A72	LR Single-side  A72				
Tool holder type	MSKNR/L□□H/K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	MSKNR/L□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	MSKNR/L□□P/R19		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□
	MSKNR/L□□S2509			SN□□2509□□	SN□□2509□□	SN□□2509□□	SN□□2509□□

Corresponding tool holders of insert **SN** ☐ ☐ M-type clamping**MSDNN****KAPR:45°**

Type		Stock	Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
			H	B	LF	HF	WF	LH					
MSDNN	2020K12	▲	20	20	125	20	10	35	DM6×25				
	2525M12	▲	25	25	150	25	12.5	35	DM6×30	S12BM	WH30L	C1RD	TM6×17
	3232P12	▲	32	32	170	32	16	35	DM6×30				
	2525M15	▲	25	25	150	25	12.5	42					
	3225P15	△	32	25	170	32	12.5	42		S15BM	WH30L	C2RD	TM8×21
	3232P15	▲	32	32	170	32	16	42					

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A68	XM  A70	DR Double-side  A73	HDR  A75	TC  A76
	DF  A68	PM  A70	DR Single-side  A74	HPR  A76	Without chipbreaker  A77
	EF  A68	DM  A71	ER Double-side  A74		
	ADF  A69	EM  A71	ER Single-side  A75		
	SF  A69	EG  A72	SNR Double-side  A75		
		NM  A72	LR Single-side  A72		
Tool holder type	MSDNN□□K/M/P12	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	MSDNN□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□



External turning tools

Corresponding tool holders of insert **TN** ☐ ☐

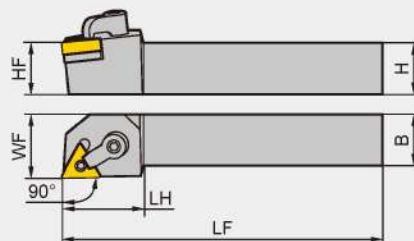
M-type clamping

MTGNR/L

KAPR:90°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MTGNR/L	1616H16	△	△	16	16	100	16	20	33	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2020K16	▲	▲	20	20	125	20	25	33	DM6×25				
	2525M16	▲	▲	25	25	150	25	32	33	DM6×30				
	3225P16	▲	▲	32	25	170	32	32	33	DM6×30				
	3232P16	△	△	32	32	170	32	40	33	DM6×30	T22BM	WH30L	C2RD	TM6×17
	2525M22	▲	▲	25	25	150	25	32	35	DM6×30				
	3225P22	▲	▲	32	25	170	32	32	35	DM6×30				
	3232P22	△	△	32	32	170	32	40	40	DM6×30				

▲ Stock available

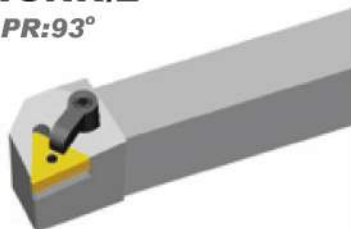
△ Make-to-order

Applicable inserts

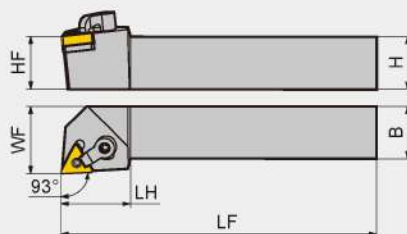
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	MTGNR/L□□ H/K/M/P16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	MTGNR/L□□M/P22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□

Corresponding tool holders of insert **TN** ☐ ☐ M-type clamping**MTJNR/L**

KAPR:93°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MTJNR/L	2020K16	▲	▲	20	20	125	20	25	33	DM6×25				
	2525M16	▲	▲	25	25	150	25	32	33	DM6×30	T16BM	WH20L WH30L	C1RD	TM5×13
	3225P16	▲	▲	32	25	170	32	32	33					
	2525M22	▲	▲	25	25	150	25	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17
	3225P22	▲	▲	32	25	170	32	32	35					

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	MTJNR/L□□ K/MP16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	MTJNR/L□□M/P22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□



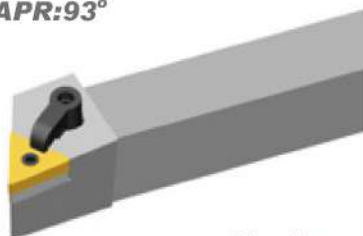
External turning tools

Corresponding tool holders of insert **TN** ☐ ☐

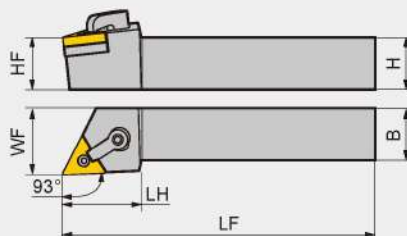
M-type clamping

MTJNR/L-Z

KAPR:93°



R-type shown



Type	Stock		Basic dimensions(mm)							Screw	Shim	Wrench	Clamp	Pin
	R	L	H	B	LF	HF	WF	LH						
MTJNR/L-Z	1616H16	△	△	16	16	100	16	20	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2020K16	▲	▲	20	20	125	20	25	32	DM6×25				
	2525M16	▲	▲	25	25	150	25	32	32	DM6×30				
	3225P16	▲	▲	32	25	170	32	32	32	DM6×30				
	3232P16	△	△	32	32	170	32	40	32	DM6×30				
	2525M22	▲	▲	25	25	150	25	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17
	3225P22	▲	▲	32	25	170	32	32	35	DM6×30				
	3232P22	△	△	32	32	170	32	40	40	DM6×30				
	4040R22	△	△	40	40	200	40	50	40	DM6×30				

▲Stock available

△Make-to-order

Applicable inserts

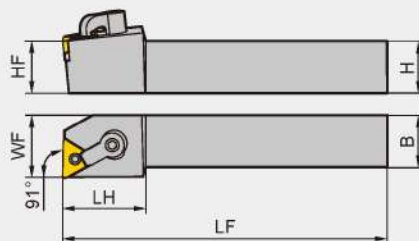
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	MTJNR/L-Z□□ H/K/M/P16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	MTJNR/L-Z□□M/P/R22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□

Corresponding tool holders of insert **TN** ☐ ☐

M-type clamping

MTFNR/L**KAPR:91°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MTFNR/L	1616H16	△	△	16	16	100	16	20	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2020K16	▲	△	20	20	125	20	25	32	DM6×25				
	2525M16	▲	▲	25	25	150	25	32	32	DM6×30				
	3225P16	▲	△	32	25	170	32	32	32	DM6×30				
	3232P16	△	△	32	32	170	32	40	32	DM6×30	T22BM	WH30L	C2RD	TM6×17
	2525M22	▲	▲	25	25	150	25	32	36	DM6×30				
	3225P22	▲	△	32	25	170	32	32	36	DM6×30				
	3232P22	△	△	32	32	170	32	40	36	DM6×30				

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A78	XM  A80	DR Double-side  A82	HDR  A84	TC  A84
	DF  A78	PM  A80	DR Single-side  A83		Without chipbreaker  A84
	SF  A78	DM  A81	ER Double-side  A83		
	EF  A79	EM  A81	SNR Double-side  A83		
	ES  A79	EG  A81	LR Single-side  A83		
	ADF  A79	EH  A82			
Tool holder type	MTFNR/L□□ H/K/M/P16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	MTFNR/L□□M/P22	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□

General turning

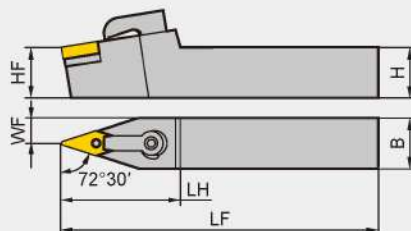
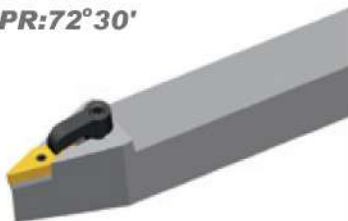
External turning tools



External turning tools

Corresponding tool holders of insert **VN** ☐ ☐ M-type clamping

MVVNN
KAPR:72°30'



Type		Stock	Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
			H	B	LF	HF	WF	LH					
MVVNN	1616H16	△	16	16	100	16	8	45	DM6×25	V16BM	WH20L WH30L	C3RD	TM5×13
	2020K16	▲	20	20	125	20	10	45	DM6×25				
	2525M16	▲	25	25	150	25	12.5	45	DM6×30				
	3225P16	▲	32	25	170	32	12.5	45	DM6×30				
	3232P16	▲	32	32	170	32	16	45					

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing	For cast iron machining
Inserts shape	XF	 A85	XM	 A86	SNR	 A87
	DF	 A85	PM	 A86		
	EF	 A85	DM	 A86		
	ADF	 A85	EM	 A87		
	SF	 A86	EG	 A87		
	NF	 A85	NM	 A87		
	NGF	 A86				

Tool holder type

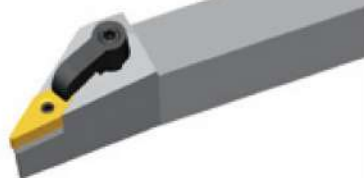
MVVNN□□ H/K/M/P16

VN□□1604□□

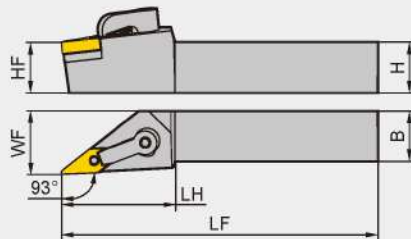
VN□□1604□□

VN□□1604□□

VN□□1604□□

Corresponding tool holders of insert **VN** ☐ ☐ M-type clamping**MVJNR/L****KAPR:93°**

R-type shown

General
turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MVJNR/L	1616K16	△	△	16	16	125	16	20	45	DM6×25	V16BM	WH20L WH30L	C3RD	TM5×13
	2020K16	▲	▲	20	20	125	20	25	45	DM6×25				
	2525M16	▲	▲	25	25	150	25	32	45	DM6×30				
	3225P16	▲	▲	32	25	170	32	32	45	DM6×30				
	3232P16	▲	▲	32	32	170	32	40	45					
	4040P16	△	△	40	40	170	40	50	65					

▲ Stock available

△ Make-to-order

Applicable inserts

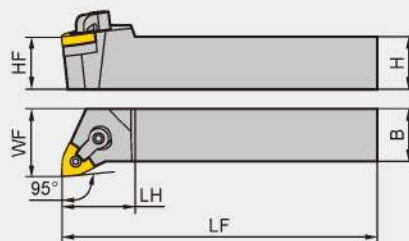
Application	For finishing		For semi-finishing		For roughing	For cast iron machining
Inserts shape	XF	 A85	XM	 A86	SNR	 A87
	DF	 A85	PM	 A86		
	EF	 A85	DM	 A86		
	ADF	 A85	EM	 A87		
	SF	 A86	EG	 A87		
	NF	 A85	NM	 A87		
	NGF	 A86				
Tool holder type	MVJNR/L ☐ K/M/P16		VN ☐ ☐ 1604 ☐ ☐		VN ☐ ☐ 1604 ☐ ☐	VN ☐ ☐ 1604 ☐ ☐



External turning tools

Corresponding tool holders of insert **WN** ☐ ☐ M-type clamping**MWLNRL****KAPR:95°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin
		R	L	H	B	LF	HF	WF	LH					
MWLNRL	1616H06	△	△	16	16	100	16	20	28	DM6×25				
	2020K06	▲	▲	20	20	125	20	25	30	DM6×25	W06BM	WH20L WH30L	C1RD	TM5×13
	2525M06	▲	▲	25	25	150	25	32	30	DM6×30				
	1616H08	△	△	16	16	100	16	20	30	DM6×25				
	2020K08	▲	▲	20	20	125	20	25	30	DM6×25				
	2525M08	▲	▲	25	25	150	25	32	35	DM6×30				
	3525P08	▲	▲	32	25	170	32	32	35	DM6×30	W08BM	WH30L	C1RD	TM6×17
	3232P08	▲	▲	32	32	170	32	40	35					
	4040R08	△	△	40	40	200	40	50	35					

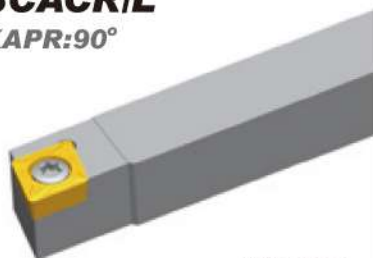
▲ Stock available △ Make-to-order

Applicable inserts

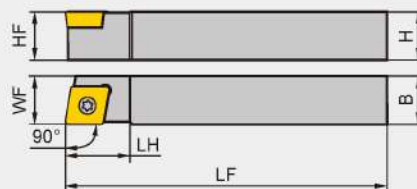
Application	For finishing	For semi-finishing	For roughing	For cast iron machining	
Inserts shape	XF  A88	XM  A90	DR Double-side  A92	TC  A93	
	DF  A88	PM  A90	SNR Double-side  A92	Without chipbreaker  A93	
	SF  A88	DM  A91			
	EF  A89	EM  A91			
	ES  A89	EG  A91			
	ADF  A89	EH  A92			
	NF  A89	NM  A92			
Tool holder type	MWLNRL/□□□H/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□	WN□□0604□□
	MWLNRL/□□□H/K/M/P/R08	WN□□0804□□	WN□□0804□□	WN□□0804□□	WN□□0804□□

Corresponding tool holders of insert **CC** ☐ ☐ S-type clamping**SCACR/L**

KAPR:90°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Wrench
		R	L	H	B	LF	HF	WF	LH		
SCACR/L	0808F06	△	△	8	8	80	8	8	16	I60M2.5×6.5	WT07IP
	1010H06	▲	△	10	10	100	10	10	16		
	1212H06	△	△	12	12	100	12	12	16		
	1212H09	▲	▲	12	12	100	12	12	16	I60M3.5×8	WT15IP
	1616H09	△	△	16	16	100	16	16	16		

▲ Stock available

△ Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing	For cast iron machining	For Al machining
Inserts shape	SF  A95	XF  A95	XM  A96	HR  A98	TC  A98	LH  A99
		HF  A95	HM  A97			LC  A99
		EF  A96	EF  A97			
		AHF  A96	EG  A97			
Tool holder type	SCACR/L□□H/F06	CC□□0602□□	CC□□0602□□	CC□□0602□□	CC□□0602□□	CCGX 0602□□
	SCACR/L□□H09	CC□□09T3□□	CC□□09T3□□	CC□□09T3□□	CC□□09T3□□	CCGX 09T3□□



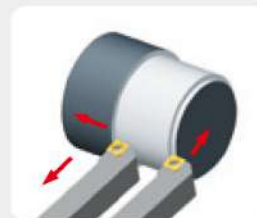
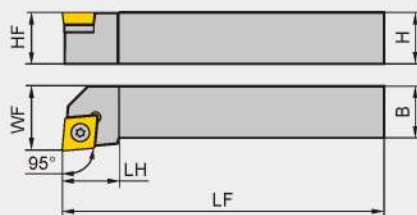
Corresponding tool holders of insert **CC** ☐ ☐ S-type clamping

SCLCR/L

KAPR:95°



R-type shown



Type	Stock		Basic dimensions(mm)							Screw	Shim	Shim screw	Wrench
	R	L	H	B	LF	HF	WF	LH					
SCLCR/L	0808F06	▲	△	08	08	80	08	10	12	I60M2.5×6.5	---	---	WT071P
	1010F06	▲	▲	10	10	80	10	12	12				
	1212H06	△	△	12	12	100	12	16	12				
	1616H06	△	△	16	16	100	16	20	16				
	1212H09	▲	▲	12	12	100	12	16	16	I60M3.5×8	---	---	WT151P
	1616H09	▲	▲	16	16	100	16	20	16				
	2020K09	△	△	20	20	125	20	25	25				
	2525M09	△	△	25	25	150	25	32	25				
	2020K12	▲	▲	20	20	125	20	25	25	I60M4×11X	C12BS	SM6×10XA	WT151P WH40L
	2525M12	▲	▲	25	25	150	25	32	25				
	3225M12	▲	▲	32	25	150	32	32	25				

▲Stock available

△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing	For cast iron machining	For Al machining
Inserts shape	SF  A95	XF  A95	XM  A96	HR  A98	TC  A98	LH  A99
		HF  A95	HM  A97			LC  A99
		EF  A96	EF  A97			
		AHF  A96	EG  A97			
Tool holder type	SCLCR/L□□H/F06	CC□□ 0602□□	CC□□ 0602□□	CC□□ 0602□□	CC□□ 0602□□	CCGX 0602□□
	SCLCR/L□□H/K/M09	CC□□ 09T3□□	CC□□ 09T3□□	CC□□ 09T3□□	CC□□ 09T3□□	CCGX 09T3□□
	SCLCR/L□□K/M12		CC□□ 1204□□	CC□□ 1204□□	CC□□ 1204□□	CCGX 1204□□

Corresponding tool holders of insert **DC** ☐ ☐

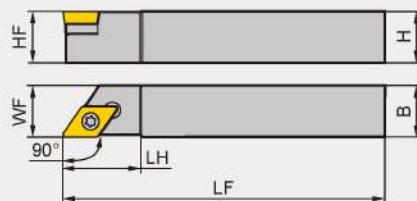
S-type clamping

SDACR/L

KAPR:90°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SDACR/L	0808K07	△	△	8	8	125	8	8	15	I60M2.5×6.5	---	---	WT07IP
	1010K07	△	△	10	10	125	10	10	15				
	1212K07	△	△	12	12	125	12	12	15				
	1212K11	△	△	12	12	125	12	12	24	I60M3.5×8	---	---	WT15IP
	1616K11	△	△	16	16	125	16	16	24				
	2020K11	△	△	20	20	125	20	20	24	I60M3.5×12	D11BS	SM5×8.65XA	WT15IP WH35L
	2525M11	△	△	25	25	150	25	25	24				

▲Stock available

△Make-to-order

Applicable inserts

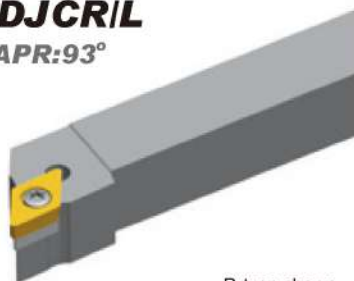
Application	For extra finishing	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	SF  A100	XF  A100	XM  A101	HR  A102	LH  A103
		HF  A100	HM  A102		LC  A103
		EF  A101	EM  A102		
		AHF  A101			
Tool holder type	SDACR/L□□K07	DC□□ 0702□□	DC□□ 0702□□	DC□□ 0702□□	DCGX 0702□□
	SDACR/L□□K/M11	DC□□ 11T3□□	DC□□ 11T3□□	DC□□ 11T3□□	DCGX 11T3□□



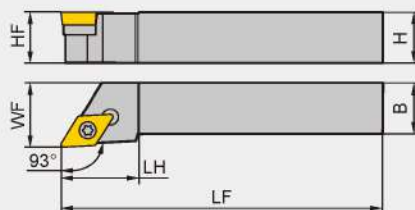
External turning tools

Corresponding tool holders of insert **DC** ☐ ☐

S-type clamping

SDJCR/L**KAPR:93°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SDJCR/L	0808F07	△	△	8	8	80	8	10	15	I60M2.5×6.5			WT07IP
	1010F07	▲	△	10	10	80	10	12	15				
	1212H07	▲	▲	12	12	100	12	16	15				
	1414H07	△	△	14	14	100	14	18	15				
	1616H07	▲	▲	16	16	100	16	20	18				
	2020K07	△	△	20	20	125	20	25	24				
	2525M07	△	△	25	25	150	25	32	28	I60M3.5×10			WT15IP WH35L
	1212K11	△	△	12	12	125	12	16	22				
	1616K11	▲	▲	16	16	125	16	20	22				
	2020K11	▲	▲	20	20	125	20	25	24				
	2525M11	▲	▲	25	25	150	25	32	24				

▲Stock available

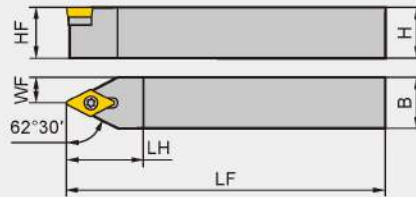
△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	SF  A100	XF  A100	XM  A101	HR  A102	LH  A103
		HF  A100	HM  A102		LC  A103
		EF  A101	EM  A102		
		AHF  A101			
Tool holder type	SDJCR/L□□F/H/K/M07	DC□□0702□□	DC□□0702□□	DC□□0702□□	DCGX 0702□□
	SDJCR/L□□K/M11	DC□□11T3□□	DC□□11T3□□	DC□□11T3□□	DCGX 11T3□□

Corresponding tool holders of insert **DC** ☐ ☐ S-type clamping**SDNCN**

KAPR:62°30'

General
turning

External turning tools

Type		Stock	Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
			H	B	LF	HF	WF	LH				
SDNCN	0808F07	△	8	8	80	8	4	20	I60M2.5×6.5			WT07IP
	1010F07	▲	10	10	80	10	5	20				
	1212H07	▲	12	12	100	12	6	20				
	1616H07	△	16	16	100	16	8	20				
	2020K07	△	20	20	125	20	10	25				
	2525M07	△	25	25	150	25	12.5	30				
	1616K11	▲	16	16	125	16	8	30	I60M3.5×12	D11BS	SM5×8.65XA	WT15IP WH35L
	2020K11	▲	20	20	125	20	10	30				
	2525M11	▲	25	25	150	25	12.5	30				
	3225M11	△	32	25	150	32	12.5	30				
3232P11	△	32	32	170	32	16	30					

▲ Stock available △ Make-to-order

Applicable inserts

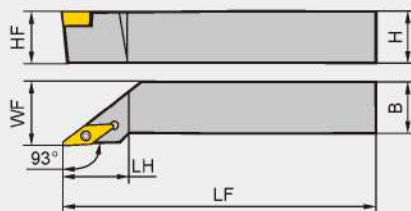
Application	For extra finishing	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	SF  A100	XF  A100	XM  A101	HR  A102	LH  A103
		HF  A100	HM  A102		LC  A103
		EF  A101	EM  A102		
		AHF  A101			
Tool holder type	SDNCN□□F/H/K/M07	DC□□0702□□	DC□□0702□□	DC□□0702□□	DCGX0702□□
	SDNCN□□K/M/P11	DC□□11T3□□	DC□□11T3□□	DC□□11T3□□	DCGX11T3□□



External turning tools

Corresponding tool holders of insert **VB** ☐ ☐ S-type clamping**SVJBR/L****KARP:93°**

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SVJBR/L	1212H11	▲	▲	12	12	100	12	16	25	I60M2.5×6.5	---	---	WT071P
	1616H11	▲	▲	16	16	100	16	20	27				
	2020K11	▲	▲	20	20	125	20	25	25				
	2525M11	▲	▲	25	25	150	25	32	30				
	1616H16	▲	▲	16	16	100	16	20	35	I60M3.5×12	V16BS	SM5×8.65XA	WT151P WH35L
	2020K16	▲	▲	20	20	125	20	25	40				
	2525M16	▲	▲	25	25	150	25	32	40				

▲Stock available

△Make-to-order

Applicable inserts

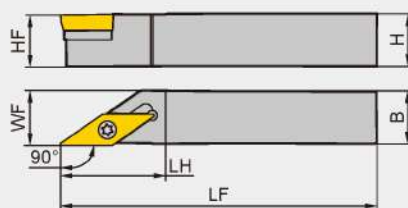
Application	For extra finishing	For finishing	For semi-finishing	For roughing
Inserts shape	SF  A117	XF  A117	XM  A118	HR  A119
		HF  A117	HM  A119	SNR  A119
		NF  A118	EM  A118	
		EF  A117		
		NGF  A118		
		AHF  A118		
Tool holder type	SVJBR/L□□H/K/M11	VB□□1103□□	VB□□1103□□	VB□□1103□□
	SVJBR/L□□H/K/M16		VB□□1604□□	VB□□1604□□

Corresponding tool holders of insert **VB** ☐ ☐ S-type clamping**SVABR/L**

KAPR:90°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SVABR/L	1010F11	△	△	10	10	80	10	10	25	I60M2.5×6.5	---	---	WT07IP
	1616H16	△	△	16	16	100	16	16	32				
	2020K16	△	△	20	20	125	20	20	32	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	2525M16	△	△	25	25	150	25	25	38				

▲Stock available

△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing
Inserts shape	SF  A117	XF  A117	XM  A118	HR  A119
		HF  A117	HM  A119	SNR  A119
		NF  A118	EM  A118	
		EF  A117		
		NGF  A118		
		AHF  A118		
Tool holder type	SVABR/L□□F11 VB□□1103□□			
	SVABR/L□□H/K/M16 VB□□1604□□ VB□□1604□□ VB□□1604□□			



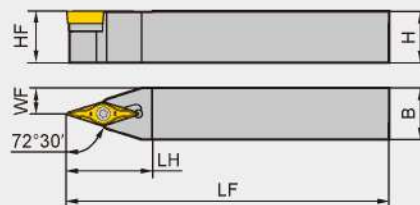
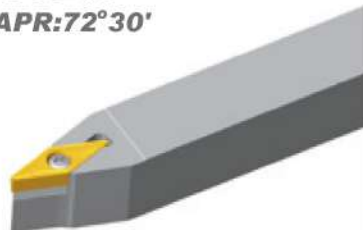
External turning tools

Corresponding tool holders of insert **VB** □ □

S-type clamping

SVVBN

KAPR:72°30'



Type	Stock	Basic dimensions(mm)							Screw	Shim	Shim screw	Wrench
		H	B	LF	HF	WF	LH					
SVVBN	1212H11	▲	12	12	100	12	6	25	I60M2.5×6.5	---	---	WT07IP
	1616H11	▲	16	16	100	16	8	25				
	2020K11	▲	20	20	125	20	10	30				
	2525M11	△	25	25	150	25	12.5	35				
	1616H16	▲	16	16	100	16	8	35	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	2020K16	▲	20	20	125	20	10	35				
	2525M16	▲	25	25	150	25	12.5	35				

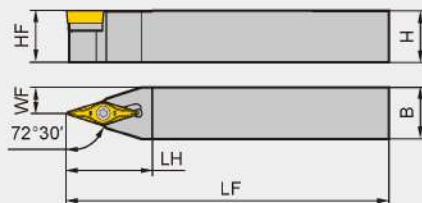
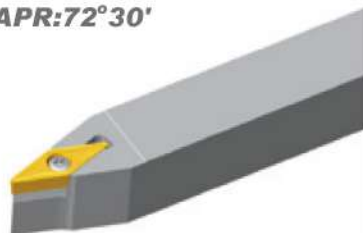
▲Stock available

△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing
Inserts shape	SF  A117	XF  A117	XM  A118	HR  A119
		HF  A117	HM  A119	SNR  A119
		NF  A118	EM  A118	
		EF  A117		
		NGF  A118		
		AHF  A118		
Tool holder type	SVJBR/L□□H/K/M11	VB□□1103□□	VB□□1103□□	VB□□1103□□
	SVJBR/L□□H/K/M16		VB□□1604□□	VB□□1604□□

Corresponding tool holders of insert VC□□ S-type clamping

SVVCN
KAPR:72°30'

Type		Stock	Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
			H	B	LF	HF	WF	LH				
SVVCN	1212H11	▲	12	12	100	12	6	25	I60M2.5×6.5	---	---	WT07IP
	1616H11	▲	16	16	100	16	8	27				
	2020K11	▲	20	20	125	20	10	30				
	2525M11	△	25	25	150	25	12.5	38				
	1616H16	▲	16	16	100	16	8	33	I60M3.5×12	V16BSC	SM5×8.65XA	WT15IP WH35L
	2020K16	▲	20	20	125	20	10	33				
	2525M16	▲	25	25	150	25	12.5	38				

▲Stock available

△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For AI machining
Inserts shape	SF  A114	XF  A114	LH  A116
		NF  A114	LC  A116
		NGF  A114	
		AHF  A114	
Tool holder type	SVVCN□□H/K/M11	VC□□1103□□	VCGX1103□□
	SVVCN□□H/K/M16	VC□□1604□□	VCGX1604□□



External turning tools

Corresponding tool holders of insert VC□□

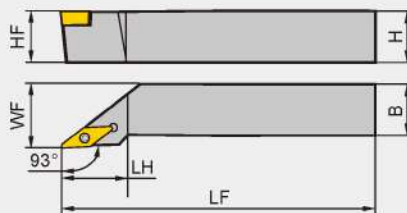
S-type clamping

SVJCR/L

KAPR:93°



R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SVJCR/L	1212H11	△	△	12	12	100	12	16	25	I60M2.5×6.5	---	---	WT071P
	1616H11	▲	▲	16	16	100	16	20	27				
	2020K11	▲	▲	20	20	125	20	25	27				
	2525M11	▲	▲	25	25	150	25	32	27				
	1616H16	▲	▲	16	16	100	16	20	36	I60M3.5×12	V16BSC	SM5×8.65XA	WT151P WH35L
	2020K16	▲	▲	20	20	125	20	25	41				
	2525M16	▲	▲	25	25	150	25	32	41				

▲Stock available

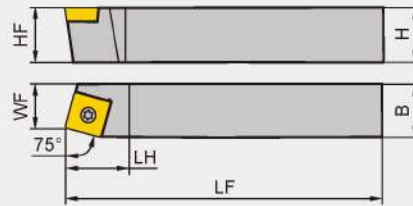
△Make-to-order

Applicable inserts

Application	For extra finishing	For finishing	For AI machining	
Inserts shape	SF  A114	XF  A114	LH  A116	
		NF  A114	LC  A116	
		NGF  A114		
		AHF  A114		
Tool holder type	SVVCN□□H/K/M11	VC□□1103□□	VC□□1103□□	VCGX1103□□
	SVVCN□□H/K/M16		VC□□1604□□	VCGX1604□□

Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping**SSBCR/L**
KAPR:75°

R-type shown

General
turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SSBCR/L	1212H09	▲	▲	12	12	100	12	9	16	I60M3.5×8	---	---	WT15IP
	1616H09	▲	▲	16	16	100	16	13	16	I60M3.5×12	S09BS	SM5×8.65XA	WT15IP WH35L
	2020K09	△	△	20	20	125	20	17	20				
	2525M09	△	△	25	25	150	25	22	20				
	2020K12	▲	▲	20	20	125	20	17	25	I60M4×11X	S12BS	SM6×10XA	WT15IP WH40L
	2525M12	△	△	25	25	150	25	22	25				

▲ Stock available △ Make-to-order

Applicable inserts

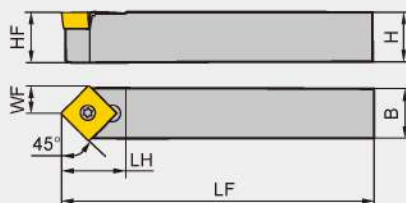
Application	For finishing		For semi-finishing		For roughing		For AI machining	
Inserts shape	XF	 A106	XM	 A107	HR	 A108	LH	 A108
	HF	 A106	HM	 A107			LC	 A108
	EF	 A106	EM	 A107				
	AHF	 A106						
Tool holder type	SSBCR/L□□H/K/M09		SC□□09T3□□		SC□□09T3□□		SCGX09T3□□	
	SSBCR/L□□K/M12		SC□□1204□□		SC□□1204□□		SCGX1204□□	



External turning tools

Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping

SSDCN
KAPR:45°



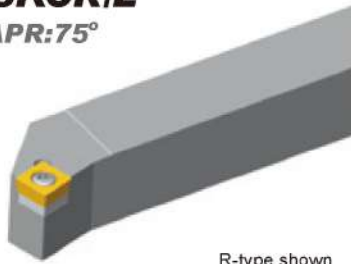
Type		Stock	Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
			H	B	LF	HF	WF	LH				
SSDCN	1212H09	▲	12	12	100	12	6	16	I60M3.5×8	---	---	WT151P
	1616H09	▲	16	16	100	16	8	16	I60M3.5×12	S09BS	SM5×8.65XA	WT151P WH35L
	2020K09	△	20	20	125	20	10	20				
	2525M09	△	25	25	150	25	12.5	20				
	2525M12	▲	25	25	150	25	12.5	24	I60M4×11X	S12BS	SM6×10XA	WT151P WH40L

▲Stock available

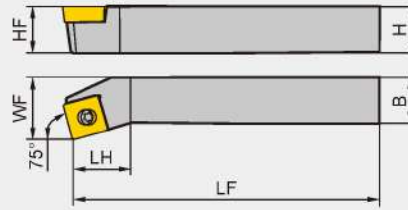
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For AI machining	
Inserts shape	XF	 A106	XM	 A107	HR	 A108	LH	 A108
	HF	 A106	HM	 A107			LC	 A108
	EF	 A106	EM	 A107				
	AHF	 A106						
Tool holder type	SSDCN□□H/K/M09		SC□□09T3□□		SC□□09T3□□		SCGX09T3□□	
	SSDCN□□M12		SC□□1204□□		SC□□1204□□		SCGX1204□□	

Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping**SSKCR/L**
KAPR:75°

R-type shown

General
turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SSKCR/L	1212H09	△	△	12	12	100	12	16	16	I60M3.5×8	---	---	WT151P
	1616H09	▲	△	16	16	100	16	20	16				
	2020K09	△	△	20	20	125	20	25	20	I60M3.5×12	S09BS	SM5×8.65XA	WT151P WH35L
	2525M09	△	△	25	25	150	25	32	20				
	2020K12	△	△	20	20	125	20	25	22	I60M4×11X	S12BS	SM6×10XA	WT151P WH40L
	2525M12	△	△	25	25	150	25	32	22				

▲Stock available

△Make-to-order

Applicable inserts

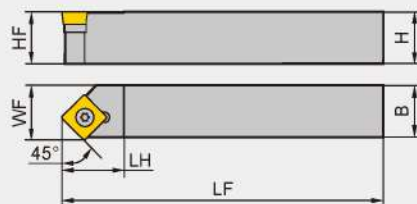
Application	For finishing		For semi-finishing		For roughing		For AI machining	
Inserts shape	XF	 A106	XM	 A107	HR	 A108	LH	 A108
	HF	 A106	HM	 A107			LC	 A108
	EF	 A106	EM	 A107				
	AHF	 A106						
Tool holder type	SSKCR/L□□H/K/M09		SC□□09T3□□		SC□□09T3□□		SCGX09T3□□	
	SSKCR/L□□K/M12		SC□□1204□□		SC□□1204□□		SCGX1204□□	



External turning tools

Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping**SSSCR/L**
KAPR:45°

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
SSSCR/L	1212H09	△	△	12	12	100	12	13	16	I60M3.5×8	---	---	WT15IP
	1616H09	▲	▲	16	16	100	16	17	16				
	2020K09	△	△	20	20	125	20	21	25	I60M3.5×12	S09BS	SM5×8.65XA	WT15IP WH35L
	2525M09	△	△	25	25	150	25	26	25				
	2020K12	▲	▲	20	20	125	20	21	24	I60M4×11X	S12BS	SM6×10XA	WT15IP WH40L
	2525M12	△	△	25	25	150	25	26	28				

▲Stock available

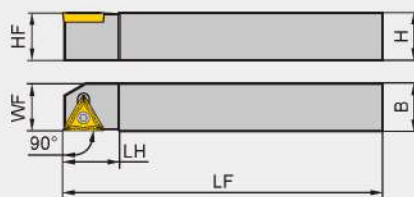
△Make-to-order

Applicable inserts

Application	For finishing		For semi-finishing		For roughing		For AI machining	
Inserts shape	XF	 A106	XM	 A107	HR	 A108	LH	 A108
	HF	 A106	HM	 A107			LC	 A108
	EF	 A106	EM	 A107				
	AHF	 A106						
Tool holder type	SSSCR/L□□H/K/M09		SC□□09T3□□		SC□□09T3□□		SCGX09T3□□	
	SSSCR/L□□K/M12		SC□□1204□□		SC□□1204□□		SCGX1204□□	

Corresponding tool holders of insert **TC** ☐ ☐ S-type clamping**STACR/L**
KAPR:90°

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Wrench	---	---
		R	L	H	B	LF	HF	WF	LH			---	---
STACR/L	1010K11	△	△	10	10	100	10	10	12	I60M2.5×6.5	WT071P	---	---
	1212F11	△	△	12	12	80	12	12	14			---	---
	1616K11	△	△	16	16	100	16	16	16			---	---

▲Stock available

△Make-to-order

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For AI machining	
Inserts shape	XF  A109	XM  A111	HR  A112	LH  A113	
	HF  A109	HM  A112		LC  A113	
	EF  A109	EM  A111			
	AHF  A111	EG  A111			
Tool holder type	STACR/L□□K/F11	TC□□1102□□	TC□□1102□□	TC□□1102□□	TCGX1102□□
	STFCR/L□□H/K/M11	TC□□1102□□	TC□□1102□□	TC□□1102□□	TCGX1102□□
	STFCR/L□□K/M16	TC□□16T3□□	TC□□16T3□□	TC□□16T3□□	TCGX16T3□□



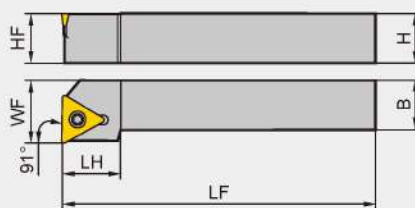
External turning tools

Corresponding tool holders of insert **TC** ☐ ☐

S-type clamping

STFCR/L
KAPR:91°

R-type shown



Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
STFCR/L	1212H11	▲	▲	12	12	100	12	16	14	I60M2.5×6.5	---	---	WT071P
	1616H11	▲	▲	16	16	100	16	20	14				
	2020K11	△	△	20	20	125	20	25	20				
	2525M11	△	△	25	25	150	25	32	20				
	1616K16	▲	▲	16	16	125	16	20	20	I60M3.5×12	T16BS	SM5×8.65XA	WT151P WH35L
	2020K16	▲	▲	20	20	125	20	25	25				
	2525M16	△	△	25	25	150	25	32	25				

▲Stock available

△Make-to-order

Applicable inserts

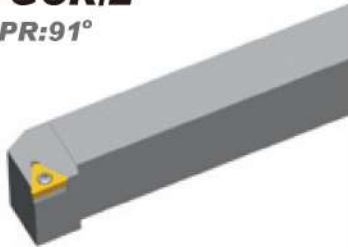
Application	For finishing	For semi-finishing	For roughing	For Al machining	
Inserts shape	XF  A109	XM  A111	HR  A112	LH  A113	
	HF  A109	HM  A112		LC  A113	
	EF  A109	EM  A111			
	AHF  A111	EG  A111			
Tool holder type	STACR/L□□K/F11	TC□□1102□□	TC□□1102□□	TC□□1102□□	TCGX1102□□
	STFCR/L□□H/K/M11	TC□□1102□□	TC□□1102□□	TC□□1102□□	TCGX1102□□
	STFCR/L□□K/M16	TC□□16T3□□	TC□□16T3□□	TC□□16T3□□	TCGX16T3□□

Corresponding tool holders of insert **TC** ☐ ☐

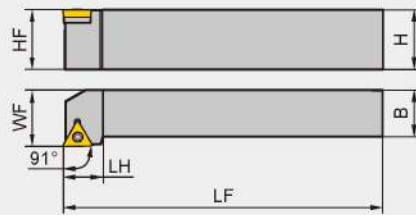
S-type clamping

STGCR/L

KAPR:91°



R-type shown



General turning

External turning tools

Type		Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF	LH				
STGCR/L	0808F09	▲	△	08	08	80	8	10	12	I60M2.2×5.5	---	---	WT06IP
	1010F09	▲	▲	10	10	80	10	12	12				
	1212H09	△	△	12	12	100	12	16	12				
	1212H11	▲	▲	12	12	100	12	16	16				
	1616H11	▲	▲	16	16	100	16	20	20	I60M2.5×6.5	---	---	WT07IP
	2020K11	△	△	20	20	125	20	25	20				
	2525M11	△	△	25	25	150	25	32	20				
	1616K16	△	△	16	16	125	16	20	20				
	2020K16	▲	▲	20	20	125	20	25	20	I60M3.5×12	T16BS	SM5×8.65XA	WT15IP WH35L
	2525M16	▲	▲	25	25	150	25	32	20				

▲Stock available △Make-to-order

Applicable inserts

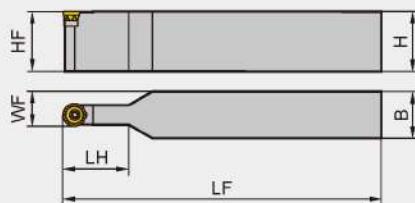
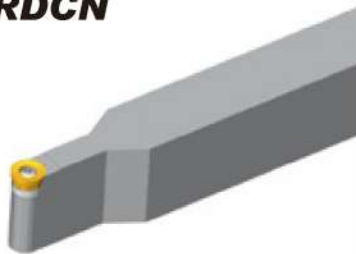
Application	For extra finishing	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	SF  A109	XF  A109	XM  A111	HR  A112	LH  A113
		HF  A109	HM  A112		LC  A113
		EF  A109	EM  A111		
		AHF  A111	EG  A111		
Tool holder type	STGCR/L□□F/H09	TC□□0902□□	TC□□0902□□	TC□□0902□□	TCGX0902□□
	STGCR/L□□H/K/M11		TC□□1102□□	TC□□1102□□	TCGX1102□□
	STGCR/L□□K/M16		TC□□16T3□□	TC□□16T3□□	TCGX16T3□□



External turning tools

Corresponding tool holders of insert **RC** ☐ ☐

S-type clamping

SRDCN

Type		Stock	Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
			H	B	LF	HF	WF	LH				
SRDCN	1616H08	△	16	16	100	16	12	16	I60M3×7	---	---	WT09IP
	2020K08	△	20	20	125	20	14	16				
	2525M08	△	25	25	150	25	16.5	16				
	2020K10	△	20	20	125	20	15	20	I60M3.5×10	---	---	WT15IP
	2525M10	▲	25	25	150	25	17.5	25				
	2525M12	▲	25	25	150	25	18.5	35	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L
	3232P12	△	32	32	170	32	22	35				
	3225P16	▲	32	25	170	32	20.5	35	I60M4×15X	R16BS	SM6×10XA	WT15IP WH40L
	4040S16	△	40	40	250	40	28	40				

▲Stock available △Make-to-order

Applicable inserts

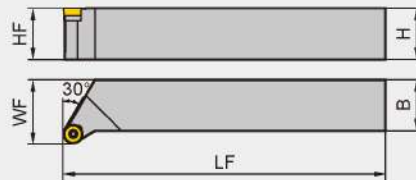
Application	For semi-finishing	For roughing	For AI machining
Inserts shape	 A104	 A104	LH  A104
Tool holder type	SRDCN□□K/M/H08	RCMT0803MO	RCMT0803MO
	SRDCN□□K/M10	RCMT10T3MO	RCMT10T3MO
	SRDCN□□M/P12	RCMT1204MO	RCMT1204MO
	SRDCN□□P/S16	RCMT1606MO	RCMT1606MO

Corresponding tool holders of insert RC□□

S-type clamping

SRGCR/L

R-type shown



General turning

External turning tools

Type		Stock		Basic dimensions(mm)					Screw	Shim	Shim screw	Wrench
		R	L	H	B	LF	HF	WF				
SRGCR/L	1616H08	△	△	16	16	100	16	20	I60M3×7	---	---	WT09IP
	2020K08	△	△	20	20	125	20	25				
	2525M08	△	△	25	25	150	25	32				
	1616H10	△	△	16	16	100	16	20	I60M3.5×10	---	---	WT15IP
	2020K10	▲	▲	20	20	125	20	25				
	2525M10	▲	▲	25	25	150	25	32				
	2020K12	▲	△	20	20	125	20	27	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L
	2525M12	▲	▲	25	25	150	25	32				
	3232P16	▲	△	32	32	170	32	40	I60M4×15X	R16BS	SM6×10XA	WT15IP WH40L

▲Stock available

△Make-to-order

Applicable inserts

Application		For semi-finishing	For roughing	For Al machining
Inserts shape				LH 
Tool holder type	SRGCR/L□□H/K/M08	RCMT0803MO	RCMT0803MO	RCGX0803MO-LH
	SRGCR/L□□H/K/M10	RCMT10T3MO	RCMT10T3MO	
	SRGCR/L□□H/K/M12	RCMT1204MO	RCMT1204MO	
	SRGCR/L□□P16	RCMT1606MO	RCMT1606MO	