

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



### External and internal turning

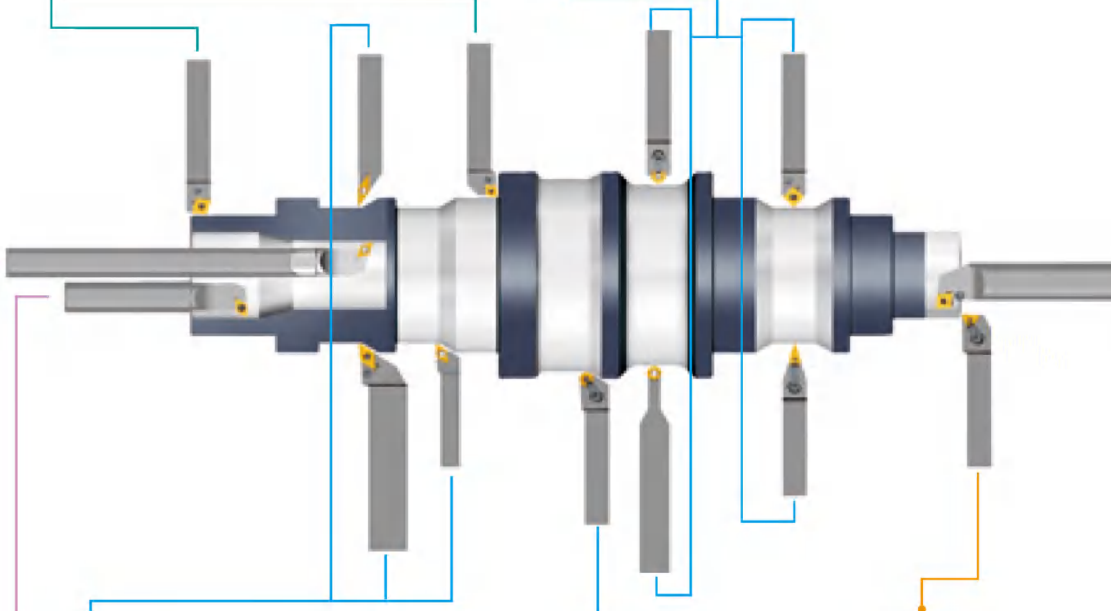
General turning

Applications sketch map of turning tools

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□□	PWLNRL□□		
	MCLNR/L□□	MWLNRL□□		
	SCLCR/L□□	DCLNR/L□□		
	DWLNRL□□			

Profile turning	Tool holder type			
	PDPN□□	PSDN□□	MDPN□□	MSDN□□
	MVVN□□	SDNC□□	SVVB□□	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□□		

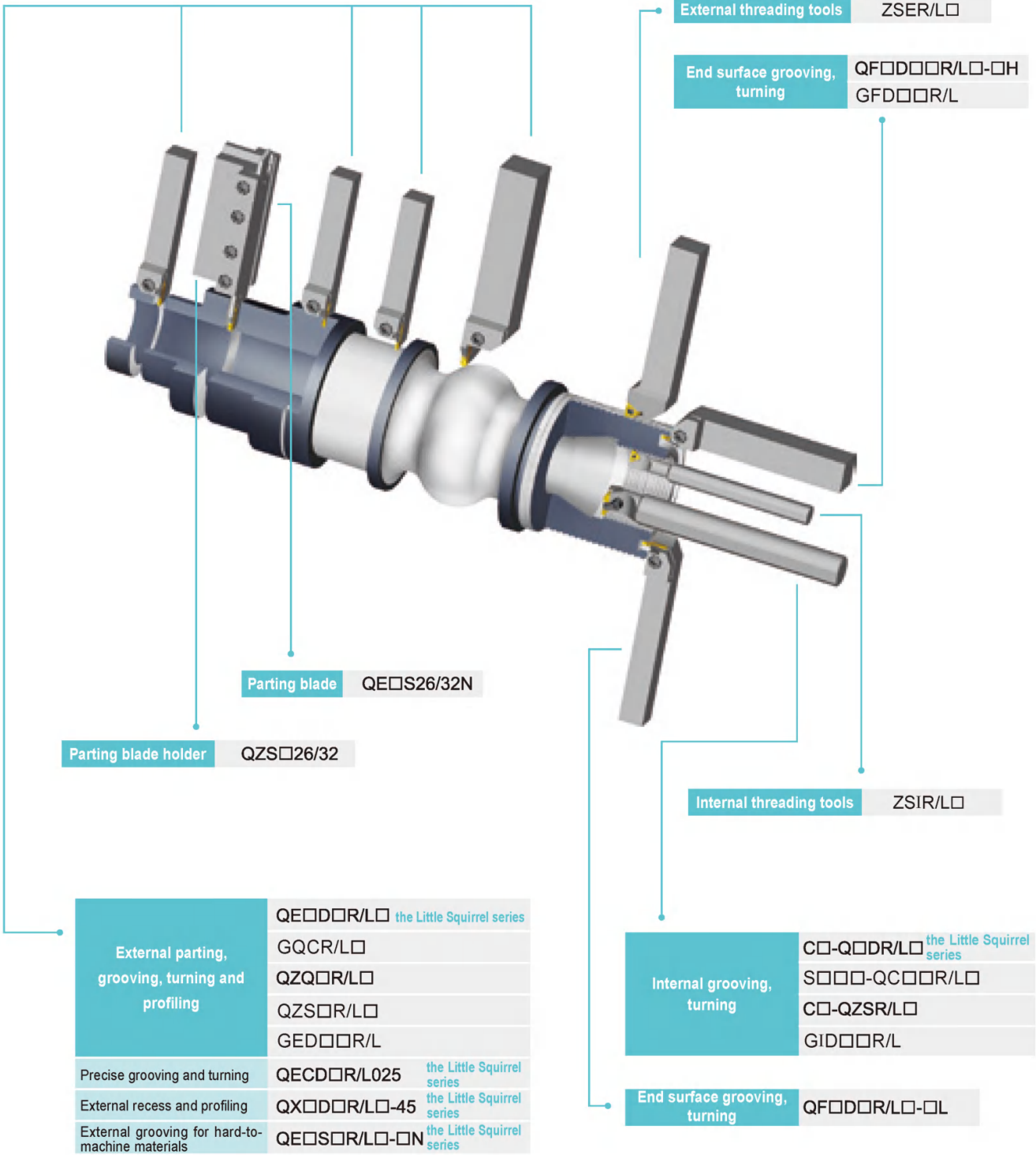
Profile turning	Tool holder type
	SRGCR/L□□

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□-SVUBR/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



General turning

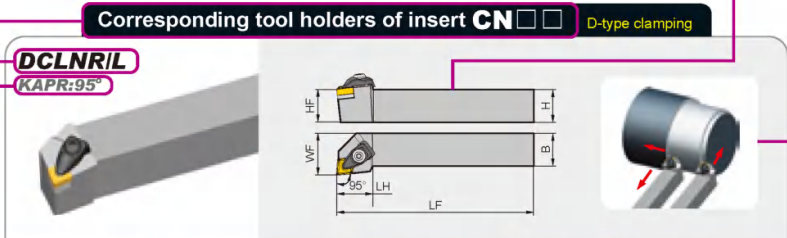
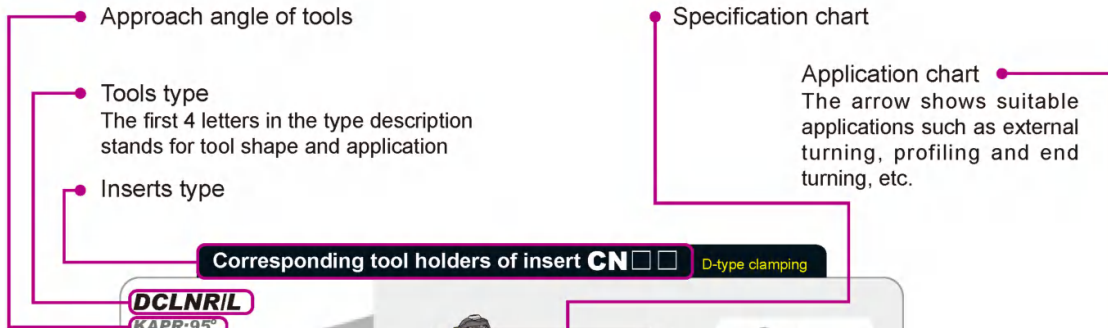
Applications sketch map of turning tools



### How to select external turning tools

#### Explanation of external turning tools detailed table

- Listed according to clamping types.



Type	Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring	
	R	L	H	B	LF	HF	WF	LH							
<b>DCLNR/L</b>	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	25	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  A56	HDR  A58	TC  A58	
	DF  A52	PM  A53	DR  A57	HPR  A58	Without chipbreaker A59	
	SF  A52	DM  A54	ER  A57			
	EF  A52	EM  A55	ER  A57			
	ADF  A53	EG  A55	SNR  A57			
	NF  A53	EH  A55	LR  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□□

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
	PCBnr/L	75	☺					☺			A142
	PCLnr/L	95			☺			☺			A143
	PDJnr/L	93				☺		☺	☺		A144
P	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	
											
<b>P</b>	 PTTNR/L	60	☺						☺		A151
	 PTGNR/L	90	☺						☺	☺	A152
	 PWLNR/L	95			☺				☺		A153
<b>M</b>	 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	
<b>M</b>	MVVNN 	72.5						☺	☺	A166	
	MVJNR/L 	93					☺		☺	A167	
	MWLNRL/L 	95			☺				☺	A168	
<b>S</b>	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

☺ 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			
<b>S</b>	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

General turning

External turning tools overview



# TURNING

## General Turning Tools

### External turning tools code key

General turning

External turning tools code key

Clamping system
<b>P</b> – Hole clamping
<b>M</b> – Top and hole clamping
<b>S</b> – Screw on
<b>C</b> – Top clamping
<b>D</b> – double clamping

Insert shape	
<b>C</b>	<b>D</b>
<b>R</b>	<b>S</b>
<b>T</b>	<b>V</b>
<b>W</b>	

Clearance angle of insert	
<b>B</b>	
<b>C</b>	
<b>D</b>	
<b>E</b>	
<b>N</b>	
<b>P</b>	

Cutting direction
<b>L</b> - Left-hand
<b>R</b> - Right-hand
<b>N</b> Right and left hand

**P**

**C**

**L**

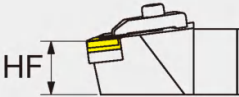
**N**

**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	

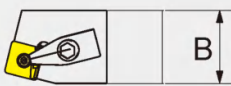


**Nose height (mm)**



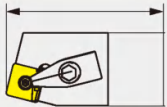
Code	Height
<b>12</b>	12
<b>16</b>	16
<b>20</b>	20
<b>25</b>	25
<b>32</b>	32
<b>40</b>	40
<b>50</b>	50

**Width of tool holder (mm)**



Code	Width
<b>12</b>	12
<b>16</b>	16
<b>20</b>	20
<b>25</b>	25
<b>32</b>	32
<b>40</b>	40
<b>50</b>	50

**Length of tool holder (mm)**






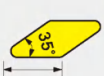


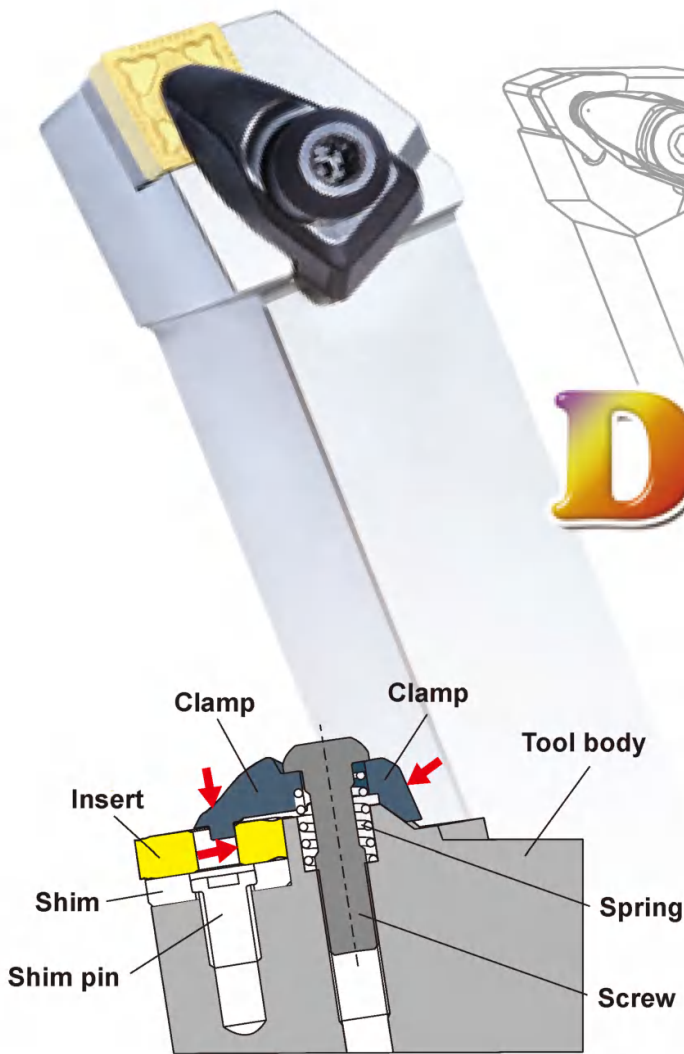
Code	Length
<b>E</b>	70
<b>F</b>	80
<b>H</b>	100
<b>K</b>	125
<b>M</b>	150
<b>P</b>	170
<b>Q</b>	180
<b>R</b>	200
<b>S</b>	250
<b>T</b>	300

General turning

External turning tools code key

**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.

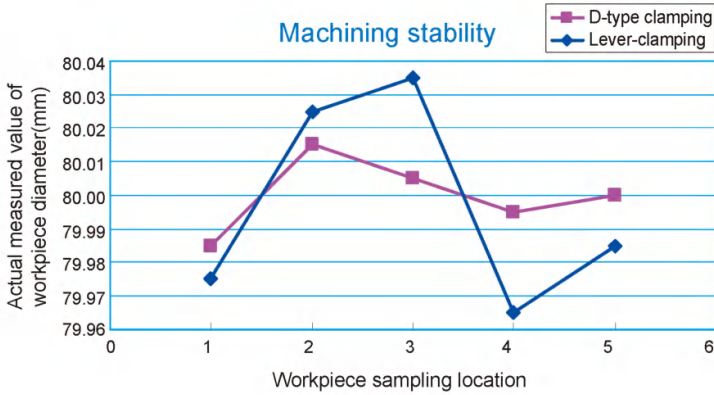
lug boss on both ends and double-locating make more insert clamp secure.

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

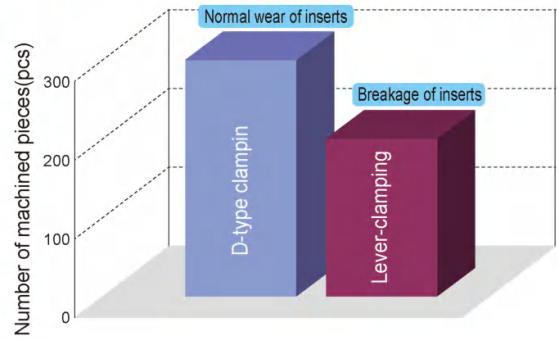
Simple and compact structure effectively prevents chip blocking while ensuring high clamping rigidity.

## 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

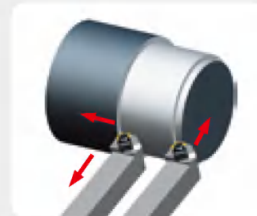
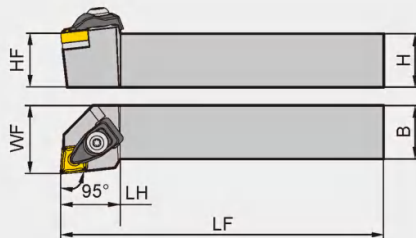




## External turning tools

### 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						
<b>DCLNR/L</b>	<b>1616H09</b>	▲ △	16	16	100	16	21	24	CM5×22C	C09BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	<b>2020K09</b>	▲ △	20	20	125	20	25	24						
	<b>2525M09</b>	▲ △	25	25	150	25	32	24						
	<b>2020K12</b>	▲ ▲	20	20	125	20	25	28	CM6×25C	C12BM	WH40L	C2RA	SM6×10XA1	SPR4
	<b>2525M12</b>	▲ ▲	25	25	150	25	32	28						
	<b>3225P12</b>	▲ ▲	32	25	170	32	32	28						

▲ Stock available    △ Make-to-order

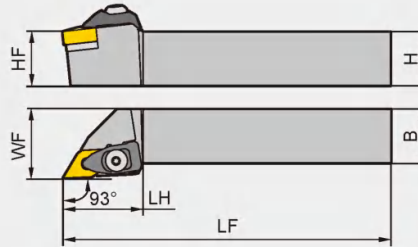
### Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A52	<b>XM</b>  A54	<b>DR</b> Double-side  A56	<b>HDR</b>  A58	<b>TC</b>  A58
	<b>DF</b>  A52	<b>PM</b>  A53	<b>DR</b> Single-side  A57	<b>HPR</b>  A58	Without chipbreaker  A59
	<b>SF</b>  A52	<b>DM</b>  A54	<b>ER</b> Double-side  A57		
	<b>EF</b>  A52	<b>EM</b>  A55	<b>ER</b> Single-side  A57		
	<b>ADF</b>  A53	<b>EG</b>  A55	<b>SNR</b> Double-side  A57		
	<b>NF</b>  A53	<b>EH</b>  A55	<b>LR</b> Single-side  A56		
		<b>NM</b>  A55			
Tool holder type	<b>DCLNR/L</b> □□H/K/M09	CN□□0903□□	CN□□0903□□	CN□□1204□□	CN□□1204□□
	<b>DCLNR/L</b> □□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							
<b>DDJNR/L</b>	<b>1616H11</b>	△	△	16	16	100	16	20	30	CM5×22C	D11BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	<b>2020K11</b>	▲	△	20	20	125	20	25	30						
	<b>2525M11</b>	▲	△	25	25	150	25	32	30						
	<b>3225P11</b>	△	△	32	25	170	32	32	30						
	<b>2020K15</b>	▲	▲	20	20	125	20	25	35	CM6×25C	D15BM	WH40L	C2RA	SM6×10XA1	SPR4
	<b>2525M15</b>	▲	▲	25	25	150	25	32	35						
	<b>3232P15</b>	▲	▲	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	<b>XF</b>  A60	<b>XM</b>  A63	<b>DR</b> Double-side  A65	<b>HDR</b>  A66	<b>TC</b>  A66
	<b>DF</b>  A60	<b>PM</b>  A62	<b>DR</b> Single-side  A65		Without chipbreaker  A67
	<b>SF</b>  A60	<b>DM</b>  A63	<b>ER</b> Double-side  A65		
	<b>EF</b>  A61	<b>EM</b>  A64	<b>ER</b> Single-side  A66		
	<b>ADF</b>  A61	<b>EG</b>  A64	<b>SNR</b> Double-side  A66		
	<b>NF</b>  A61	<b>NM</b>  A64	<b>LR</b> Single-side  A65		
	<b>NGF</b>  A62				

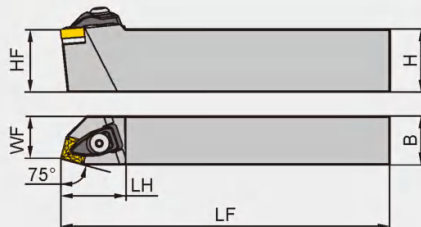
Tool holder type	<b>DDJNR/L</b> □□H/K/M/P11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	<b>DDJNR/L</b> □□K/M/P15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□

General turning

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						
<b>DSBNR/L</b>	<b>1616H09</b>	▲ △	16	16	100	16	13	28	CM5×22C	S09BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	<b>2020K12</b>	▲ ▲	20	20	125	20	17	34						
	<b>2525M12</b>	▲ ▲	25	25	150	25	22	34	CM6×25C	S12BM	WH40L	C2RA	SM6×10XA1	SPR4
	<b>3225P12</b>	▲ ▲	32	25	170	32	22	34						
	<b>3232P15</b>	▲ ▲	32	32	170	32	27	41	CM6×25C	S15BM	WH40L	C3RA	SM6×10XA2	SPR4

▲ Stock available    △ Make-to-order

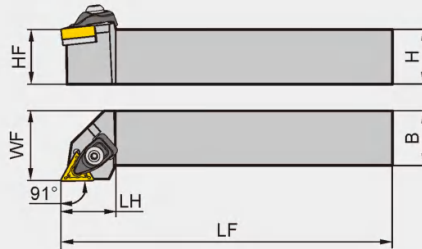
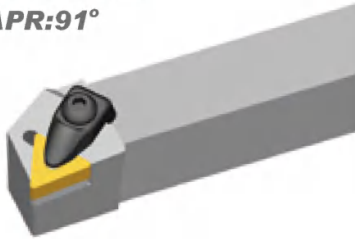
### Applicable inserts

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



Corresponding tool holders of insert **TN**   D-type clamping

**DTGNR/L**  
KAPR:91°

















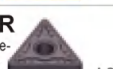
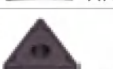



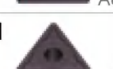
Type		Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Shim screw	Spring
		R	L	H	B	LF	HF	WF	LH						
<b>DTGNR/L</b>	<b>1616H16</b>	△	△	16	16	100	16	22	25	CM5×22C	T16BM	WH30L	C1RA	SM5×8.65XA1	SPR6
	<b>2020K16</b>	▲	▲	20	20	125	20	25	25						
	<b>2525M16</b>	▲	▲	25	25	150	25	32	25						

▲ Stock available    △ Make-to-order

General turning

External turning tools

Applicable inserts

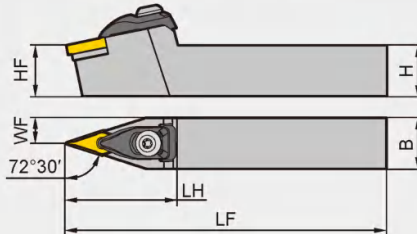
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78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



## External turning tools

### Corresponding tool holders of insert VN D-type clamping

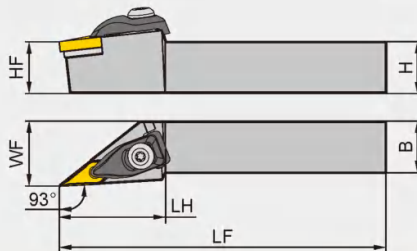
#### DVVNN KAPR:72°30'



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						

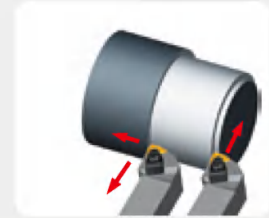
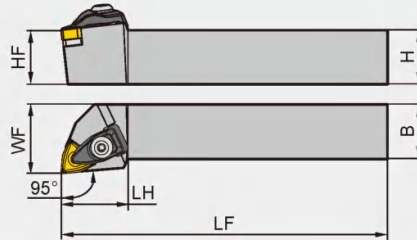
▲Stock available    △Make-to-order

### Applicable inserts

Application	For finishing		For semi-finishing		For roughing	For cast iron machining
Inserts shape	XF	 A85	XM	 A86	SNR	 A87
	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							
<b>DWLNRL/L</b>	<b>1616H06</b>	▲	△	16	16	100	16	25	24	CM5×22C	W06BM	WH30L	C1RA	SM5×8.65XA1	SPR6	
	<b>2020K06</b>	▲	▲	20	20	125	20	25	24							
	<b>2525M06</b>	▲	▲	25	25	150	25	32	24							
		<b>2020K08</b>	▲	▲	20	20	125	20	25	31	CM6×25C	W08BM	WH40L	C2RA	SM6×10XA1	SPR4
		<b>2525M08</b>	▲	▲	25	25	150	25	32	31						
		<b>3225P08</b>	△	△	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	<b>XF</b>  A88	<b>XM</b>  A90	<b>DR</b> Double-side  A92	<b>TC</b>  A93
	<b>DF</b>  A88	<b>PM</b>  A90	<b>SNR</b> Double-side  A92	Without chipbreaker  A93
	<b>SF</b>  A88	<b>DM</b>  A91		
	<b>EF</b>  A89	<b>EM</b>  A91		
	<b>ES</b>  A89	<b>EG</b>  A91		
	<b>ADF</b>  A89	<b>EH</b>  A92		
	<b>NF</b>  A89	<b>NM</b>  A92		
Tool holder type	<b>DWLNRL/L</b> □□H/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□
	<b>DWLNRL/L</b> □□K/M/P08	WN□□0804□□	WN□□0804□□	WN□□0804□□

General turning

External turning tools





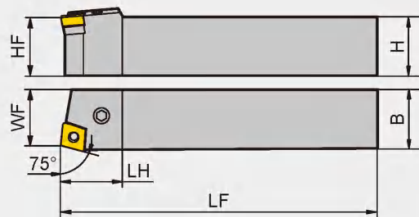
## External turning tools

### 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	LEM10×27	C19AP	WH40L	L6	SP6
	3232P19	▲	▲	32	32	170	32	27	38					
	4040R19	▲	▲	40	40	200	40	35	40	LEM12×36A	C25AP-07	WH50L	L8	SP8
	4040S2507	▲	▲	40	40	250	40	35	50					
4040S2509	▲	▲	40	40	250	40	35	50						

▲Stock available    △Make-to-order

### Applicable inserts

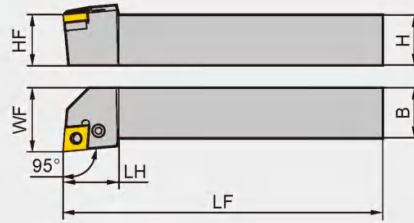
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	XF  A52	XM  A54	DR Double-side  A56	HDR  A58	TC  A58
	DF  A52	PM  A53	DR Single-side  A57	HPR  A58	Without chipbreaker  A59
	SF  A52	DM  A54	ER Double-side  A57		
	EF  A52	EM  A55	ER Single-side  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□□		

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						
<b>PCLNR/L</b>	<b>2020K12</b>	▲	▲	20	20	125	20	25	28	LEM8×21	C12AP	WH30L	L4	SP4
	<b>2525M12</b>	▲	▲	25	25	150	25	32	33					
	<b>3225P12</b>	△	△	32	25	170	32	32	33					
	<b>3232P12</b>	▲	▲	32	32	170	32	40	33					
	<b>2525M16</b>	▲	▲	25	25	150	25	32	33	LEM8×25	C16AP	WH30L	L5	SP5
	<b>3225P16</b>	△	△	32	25	170	32	32	33					
	<b>3232P16</b>	▲	▲	32	32	170	32	40	33					
	<b>4040R16</b>	△	△	40	40	200	40	50	38	LEM10×27	C19AP	WH40L	L6	SP6
	<b>3232P19</b>	▲	▲	32	32	170	32	40	38					
	<b>4040R19</b>	▲	▲	40	40	200	40	50	38	LEM12×36A	C25AP-07 C25AP	WH50L	L8	SP8
<b>4040S2507</b>	▲	▲	40	40	250	40	50	49						
<b>4040S2509</b>	▲	▲	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	<b>XF</b> A52	<b>XM</b> A54	<b>DR</b> Double-side A56	<b>HDR</b> A58	<b>TC</b> A58
	<b>DF</b> A52	<b>PM</b> A53	<b>DR</b> Single-side A57	<b>HPR</b> A58	Without chipbreaker  A59
	<b>SF</b> A52	<b>DM</b> A54	<b>ER</b> Double-side A57		
	<b>EF</b> A52	<b>EM</b> A55	<b>ER</b> Single-side A57		
	<b>ADF</b> A53	<b>EG</b> A55	<b>SNR</b> Double-side A57		
	<b>NF</b> A53	<b>EH</b> A55	<b>LR</b> Single-side A56		
		<b>NM</b> A55			
Tool holder type	<b>PCBNR/L□□K/M/P12</b>	CN□□1204□□	CN□□1204□□	CN□□1204□□	CN□□1204□□
	<b>PCBNR/L□□M/P/R16</b>	CN□□1606□□	CN□□1606□□	CN□□1606□□	CN□□1606□□
	<b>PCBNR/L□□P/R19</b>		CN□□1906□□	CN□□1906□□	CN□□1906□□
	<b>PCBNR/L□□S2507</b>		CN□□2507□□		
	<b>PCBNR/L□□S2509</b>		CN□□2509□□		

General turning

External turning tools





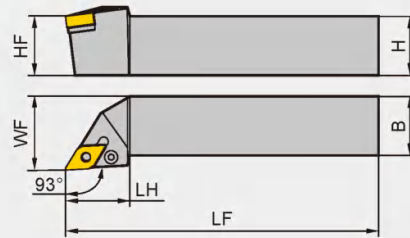
## External turning tools

### 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						
<b>PDJNR/L</b>	<b>1616H11</b>	▲	▲	16	16	100	16	20	25	LEM6×13.4A	D11AP	WH25L	L3	SP3
	<b>2020K11</b>	▲	▲	20	20	125	20	25	25					
	<b>2525M11</b>	▲	▲	25	25	150	25	32	30					
	<b>2020K15</b>	▲	▲	20	20	125	20	25	35	LEM8×21	D15AP	WH30L	L4B	SP4
	<b>2525M15</b>	▲	▲	25	25	150	25	32	35					
	<b>3232P15</b>	▲	▲	32	32	170	32	40	35					
	<b>2020K15-3</b>	▲	△	20	20	125	20	25	35	LEM8×21	D15AP	WH30L	L4	SP4
	<b>2525M15-3</b>	▲	▲	25	25	150	25	32	35					
<b>3232P15-3</b>	▲	△	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	<b>XF</b>  A60	<b>XM</b>  A63	<b>DR</b> Double-side  A65	<b>HDR</b>  A66	<b>TC</b>  A66
	<b>DF</b>  A60	<b>PM</b>  A62	<b>DR</b> Single-side  A65		Without chipbreaker  A67
	<b>SF</b>  A60	<b>DM</b>  A63	<b>ER</b> Double-side  A65		
	<b>EF</b>  A61	<b>EM</b>  A64	<b>ER</b> Single-side  A66		
	<b>ADF</b>  A61	<b>EG</b>  A64	<b>SNR</b> Double-side  A66		
	<b>NF</b>  A61	<b>NM</b>  A64	<b>LR</b> Single-side  A65		
	<b>NGF</b>  A62				
Tool holder type	<b>PDJNR/L</b> □□H/K/M11	DN□□1104□□	DN□□1104□□		DN□□1104□□
	<b>PDJNR/L</b> □□K/M/P15	DN□□1506□□	DN□□1506□□	DN□□1506□□	DN□□1506□□
	<b>PDJNR/L</b> □□K/M/P15-3	DN□□1504□□	DN□□1504□□		DN□□1504□□

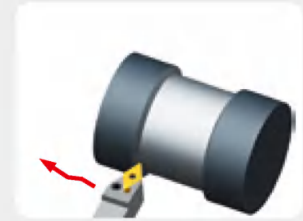
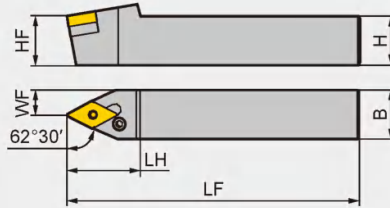


Corresponding tool holders of insert **DN**   P-type clamping

**PDPNN**  
KAPR:62°30'



R-type shown



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

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

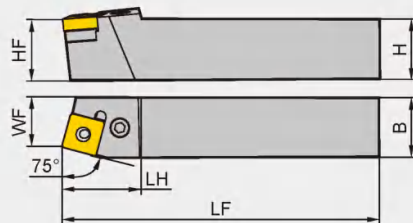
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A60	<b>XM</b>  A63	<b>DR</b> Double-side  A65	<b>HDR</b>  A66	<b>TC</b>  A66
	<b>DF</b>  A60	<b>PM</b>  A62	<b>DR</b> Single-side  A65		Without chipbreaker  A67
	<b>SF</b>  A60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

### 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						
<b>PSBNR/L</b>	<b>1616H09</b>	▲	▲	16	16	100	16	13	21	LEM6×13.4A	S09AP	WH25L	L3	SP10
	<b>2020K09</b>	▲	▲	20	20	125	20	17	21					
	<b>2020K12</b>	▲	▲	20	20	125	20	17	28					
	<b>2525M12</b>	▲	▲	25	25	150	25	22	28	LEM8×21	S12AP	WH30L	L4	SP4
	<b>3225P12</b>	▲	△	32	25	170	32	22	28					
	<b>3232P12</b>	▲	▲	32	32	170	32	27	28	LEM8×25	S15AP	WH30L	L5	SP5
	<b>2525M15</b>	▲	▲	25	25	150	25	22	35					
	<b>3232P15</b>	▲	▲	32	32	170	32	27	35					
	<b>3232P19</b>	▲	▲	32	32	170	32	27	40	LEM10×27	S19AP	WH40L	L6	SP6
	<b>4040R19</b>	▲	▲	40	40	200	40	35	40					
<b>4040S2507</b>	▲	▲	40	40	250	40	35	48	LEM12×36A	S25AP S25AP-09	WH50L	L8	SP8	
<b>4040S2509</b>	▲	▲	40	40	250	40	35	48						

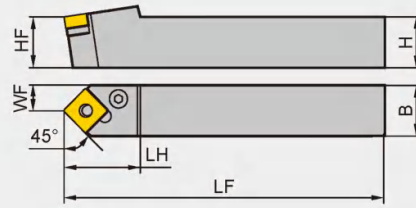
▲ Stock available    △ Make-to-order

#### Applicable inserts

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

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






















**PSDNN**  
KAPR:45°



Type	Stock	Basic dimensions(mm)							Screw	Shim	Wrench	Lever	Shim pin
		H	B	LF	HF	WF	LH						
<b>PSDNN</b>	<b>2020K12</b>	▲	20	20	125	20	10	30	LEM8×21	S12AP	WH30L	L4	SP4
	<b>2525M12</b>	▲	25	25	150	25	12.5	30					
	<b>3232P12</b>	▲	32	32	170	32	16	35					
	<b>2525M15</b>	▲	25	25	150	25	12.5	35	LEM8×25	S15AP	WH30L	L5	SP5
	<b>3232P15</b>	▲	32	32	170	32	16	40					
	<b>3232P19</b>	▲	32	32	170	32	16	40	LEM10×27	S19AP	WH40L	L6	SP6
	<b>4040R19</b>	▲	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	<b>XF</b>  A68	<b>XM</b>  A70	<b>DR</b> Double-side  A73	<b>HDR</b>  A75	<b>TC</b>  A76
	<b>DF</b>  A68	<b>PM</b>  A70	<b>DR</b> Single-side  A74	<b>HPR</b>  A76	Without chipbreaker  A77
	<b>EF</b>  A68	<b>DM</b>  A71	<b>ER</b> Double-side  A74		
	<b>ADF</b>  A69	<b>EM</b>  A71	<b>ER</b> Single-side  A75		
	<b>SF</b>  A69	<b>EG</b>  A72	<b>SNR</b> Double-side  A75		
		<b>NM</b>  A72	<b>LR</b> Single-side  A72		
Tool holder type	<b>PSDNN□□K/M/P12</b>	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	<b>PSDNN□□M/P15</b>	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	<b>PSDNN□□P/R19</b>		SN□□1906□□	SN□□1906□□	SN□□1906□□

General turning

External turning tools





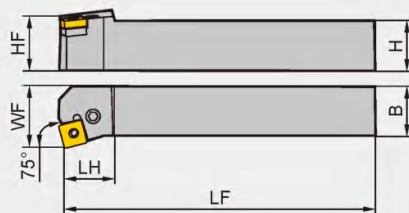
## External turning tools

### 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						
<b>PSKNR/L</b>	<b>1616H09</b>	▲	▲	16	16	100	16	20	17	LEM6×13.4A	S09AP	WH25L	L3	SP10
	<b>2020K09</b>	▲	△	20	20	125	20	25	20					
	<b>2020K12</b>	▲	▲	20	20	125	20	25	26					
	<b>2525M12</b>	▲	▲	25	25	150	25	32	26	LEM8×21	S12AP	WH30L	L4	SP4
	<b>3232P12</b>	▲	▲	32	32	170	32	40	30					
	<b>2525M15</b>	▲	▲	25	25	150	25	32	32	LEM8×25	S15AP	WH30L	L5	SP5
	<b>3232P15</b>	▲	▲	32	32	170	32	40	32					
	<b>3232P19</b>	▲	▲	32	32	170	32	40	36	LEM10×27	S19AP	WH40L	L6	SP6
<b>4040R19</b>	▲	▲	40	40	200	40	50	40						

▲Stock available    △Make-to-order

### Applicable inserts

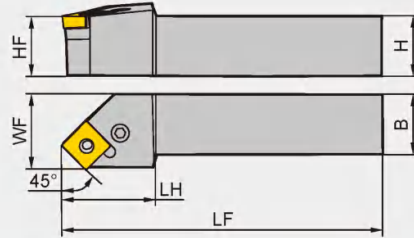
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b> A68	<b>XM</b> A70	<b>DR</b> Double-side  A73	<b>HDR</b> A75	<b>TC</b> A76
	<b>DF</b> A68	<b>PM</b> A70	<b>DR</b> Single-side  A74	<b>HPR</b> A76	Without chipbreaker  A77
	<b>EF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

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

**PSSNR/L**  
KAPR:45°



R-type shown



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

▲Stock available    △Make-to-order

Applicable inserts

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

General turning

External turning tools





## 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						
<b>PTFNR/L</b>	<b>1616H16</b>	△	▲	16	16	100	16	20	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	<b>2020K16</b>	▲	▲	20	20	125	20	25	20					
	<b>2525M16</b>	▲	▲	25	25	150	25	32	22					
	<b>2525M22</b>	▲	▲	25	25	150	25	32	25	LEM8×21	T22AP	WH30L	L4	SP4
	<b>3232P22</b>	▲	▲	32	32	170	32	40	30					
	<b>3232P27</b>	▲	▲	32	32	170	32	40	34	LEM8×25	T27AP	WH30L	L5	SP5
	<b>4040S27</b>	▲	▲	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	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78	<b>DM</b>  A81	<b>ER</b> Double-side  A83		
	<b>EF</b>  A79	<b>EM</b>  A81	<b>SNR</b> Double-side  A83		
	<b>ES</b>  A79	<b>EG</b>  A81	<b>LR</b> Single-side  A83		
	<b>ADF</b>  A79	<b>EH</b>  A82			
Tool holder type	<b>PTFNR/L□□H/K/M16</b>	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	<b>PTFNR/L□□M/P22</b>	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□
	<b>PTFNR/L□□P/S27</b>		TN□□2706□□	TN□□2706□□	TN□□2706□□

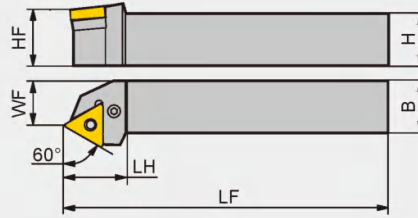


Corresponding tool holders of insert **TN**   P-type clamping

**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						
<b>PTTNR/L</b>	<b>1616H16</b>	▲	▲	16	16	100	16	13	25	LEM6×17	T16AP	WH25L	L3	SP3
	<b>2020K16</b>	▲	▲	20	20	125	20	17	25					
	<b>2525M16</b>	△	△	25	25	150	25	22	25					
	<b>2525M22</b>	▲	▲	25	25	150	25	22	32	LEM8×21	T22AP	WH30L	L4	SP4

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78	<b>DM</b>  A81	<b>ER</b> Double-side  A83		
	<b>EF</b>  A79	<b>EM</b>  A81	<b>SNR</b> Double-side  A83		
	<b>ES</b>  A79	<b>EG</b>  A81	<b>LR</b> Single-side  A83		
	<b>ADF</b>  A79	<b>EH</b>  A82			
Tool holder type	<b>PTTNR/L</b> □□H/K/M16	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	<b>PTTNR/L</b> □□M22	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						
<b>PTGNR/L</b>	<b>1616H16</b>	▲	▲	16	16	100	16	20	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	<b>2020K16</b>	▲	▲	20	20	125	20	25	20					
	<b>2525M16</b>	▲	▲	25	25	150	25	32	20					
	<b>3232P16</b>	▲	▲	32	32	170	32	40	20	LEM8×21	T22AP	WH30L	L4	SP4
	<b>2525M22</b>	▲	▲	25	25	150	25	32	30					
	<b>3232P22</b>	▲	▲	32	32	170	32	40	30					
	<b>3232P27</b>	▲	▲	32	32	170	32	40	33					
<b>4040S27</b>	▲	▲	40	40	250	40	50	33	LEM8×25	T27AP	WH30L	L5	SP5	

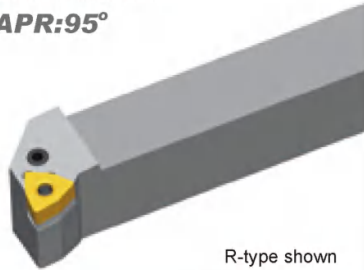
▲Stock available    △Make-to-order

### Applicable inserts

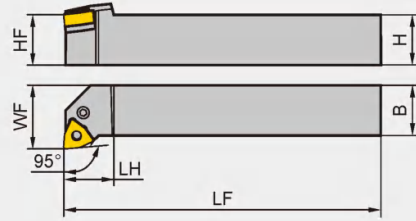
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78	<b>DM</b>  A81	<b>ER</b> Double-side  A83		
	<b>EF</b>  A79	<b>EM</b>  A81	<b>SNR</b> Double-side  A83		
	<b>ES</b>  A79	<b>EG</b>  A81	<b>LR</b> Single-side  A83		
	<b>ADF</b>  A79	<b>EH</b>  A82			
Tool holder type	<b>PTGNR/L□□H/K/M/P16</b>	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	<b>PTGNR/L□□M/P22</b>	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□
	<b>PTGNR/L□□P/S27</b>		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						
<b>PWLNRL</b>	<b>1616H06</b>	▲	▲	16	16	100	16	20	20	LEM6×13.4A	W06AP	WH25L	L3	SP3
	<b>2020K06</b>	▲	▲	20	20	125	20	25	20					
	<b>2525M06</b>	▲	▲	25	25	150	25	32	25					
	<b>2020K08</b>	▲	▲	20	20	125	20	25	28	LEM8×21	W08AP	WH30L	L4	SP4
	<b>2525M08</b>	▲	▲	25	25	150	25	32	28					
	<b>3232P08</b>	△	△	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	<b>XF</b>  A88	<b>XM</b>  A90	<b>DR</b> Double-side  A92	<b>TC</b>  A93
	<b>DF</b>  A88	<b>PM</b>  A90	<b>SNR</b> Double-side  A92	Without chipbreaker  A93
	<b>SF</b>  A88	<b>DM</b>  A91		
	<b>EF</b>  A89	<b>EM</b>  A91		
	<b>ES</b>  A89	<b>EG</b>  A91		
	<b>ADF</b>  A89	<b>EH</b>  A92		
	<b>NF</b>  A89	<b>NM</b>  A92		
Tool holder type	<b>PWLNRL</b> □□□□/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□
	<b>PWLNRL</b> □□□□/M/P08	WN□□0804□□	WN□□0804□□	WN□□0804□□

General turning

External turning tools

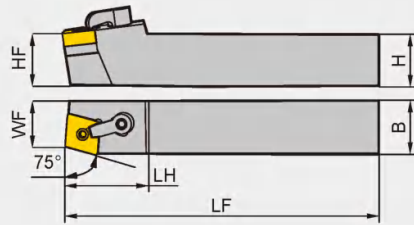


### Corresponding tool holders of insert **CN** M-type clamping

#### 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						
<b>MCBNR/L</b>	<b>1616H12</b>	△	△	16	16	100	16	13	32	DM6×25	C12BM	WH30L	C1RD	TM6×17
	<b>2020K12</b>	▲	▲	20	20	125	20	17	32					
	<b>2525M12</b>	▲	▲	25	25	150	25	22	32					
	<b>3232P12</b>	▲	▲	32	32	170	32	27	32	DM6×30	C16BM	WH30L	C2RD	TM8×21
	<b>2525M16</b>	▲	▲	25	25	150	25	22	40					
	<b>3232P16</b>	▲	▲	32	32	170	32	27	40	DM6×30	C16BM	WH30L	C2RD	TM8×21
	<b>4040R16</b>	△	△	40	40	200	40	35	40					
	<b>3232P19</b>	▲	▲	32	32	170	32	27	40	DM8×30X	C19BM	WH40L	C5RD	TM10×21
<b>4040R19</b>	▲	▲	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	<b>XF</b> A52	<b>XM</b> A54	<b>DR Double-side</b> A56	<b>HDR</b> A58	<b>TC</b> A58
	<b>DF</b> A52	<b>PM</b> A53	<b>DR Single-side</b> A57	<b>HPR</b> A58	Without chipbreaker  A59
	<b>SF</b> A52	<b>DM</b> A54	<b>ER Double-side</b> A57		
	<b>EF</b> A52	<b>EM</b> A55	<b>ER Single-side</b> A57		
	<b>ADF</b> A53	<b>EG</b> A55	<b>SNR Double-side</b> A57		
	<b>NF</b> A53	<b>EH</b> A55	<b>LR Single-side</b> A56		
		<b>NM</b> A55			
Tool holder type	<b>MCBNR/L□□H/K/M/P12</b>	CN□□1204□□	CN□□1204□□	CN□□1204□□	CN□□1204□□
	<b>MCBNR/L□□M/P/R16</b>	CN□□1606□□	CN□□1606□□	CN□□1606□□	CN□□1606□□
	<b>MCBNR/L□□P/R19</b>		CN□□1906□□	CN□□1906□□	CN□□1906□□

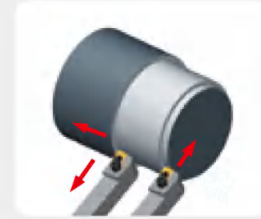
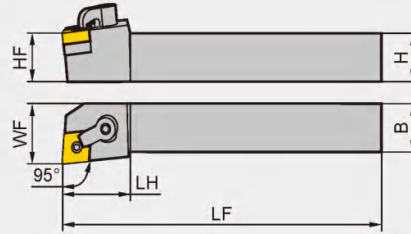


Corresponding tool holders of insert **CN**   M-type clamping

**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						
<b>MCLNR/L</b>	1616H12	△	△	16	16	100	16	20	32	DM6×25				
	2020K12	▲	▲	20	20	125	20	25	32		C12BM	WH30L	C1RD	TM6×17
	2525M12	▲	▲	25	25	150	25	32	32	DM6×30				
	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		C16BM	WH30L	C2RD	TM8×21
	3232P16	▲	▲	32	32	170	32	40	38	DM6×30				
	4040R16	△	△	40	40	200	40	50	45					
3232P19	▲	▲	32	32	170	32	40	45						
4040R19	▲	▲	40	40	200	40	50	45	DM8×30X	C19BM	WH40L	C5RD	TM10×21	

▲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□□	
	MCBNR/L□□M/P/R16		CN□□1606□□		CN□□1606□□		CN□□1606□□		CN□□1606□□	
	MCBNR/L□□P/R19		CN□□1906□□		CN□□1906□□		CN□□1906□□		CN□□1906□□	

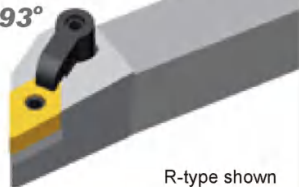
General turning  
External turning tools



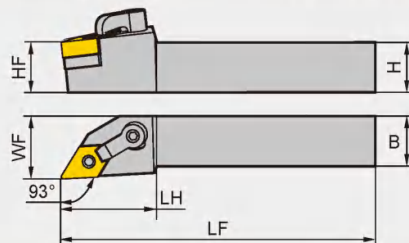
## External turning tools

### 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						
<b>MDJNR/L</b>	<b>1616H11</b>	△	△	16	16	100	16	20	32	DM6×25	D11BM	WH20L WH30L	C1RD	TM5×13
	<b>2020K11</b>	▲	▲	20	20	125	20	25	32					
	<b>2525M11</b>	▲	▲	25	25	150	25	32	32					
	<b>3232P11</b>	▲	▲	32	32	170	32	40	32	DM6×30	D15BM	WH30L	C2RD	TM6×19
	<b>2020K15</b>	▲	▲	20	20	125	20	25	38	DM6×25				
	<b>2525M15</b>	▲	▲	25	25	150	25	32	38	DM6×30				
	<b>3225P15</b>	▲	▲	32	25	170	32	32	38	DM6×30				
	<b>3232P15</b>	△	△	32	32	170	32	40	42	DM6×30				
	<b>4040R15</b>	△	△	40	40	200	40	50	45	DM6×25				
	<b>2020K15-3</b>	△	△	20	20	125	20	25	38	DM6×30	D15BM	WH30L	C2RD	TM6×17
	<b>2525M15-3</b>	△	△	25	25	150	25	32	38	DM6×30				
	<b>3225P15-3</b>	△	△	32	25	170	32	32	38	DM6×30				
<b>3232P15-3</b>	△	△	32	32	170	32	40	42	DM6×30					

▲Stock available    △Make-to-order

### Applicable inserts

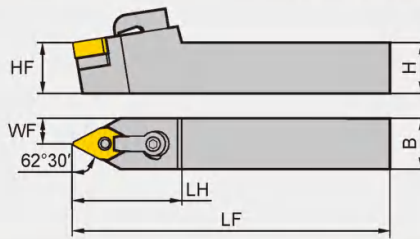
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A60	<b>XM</b>  A63	<b>DR</b> Double-side  A65	<b>HDR</b>  A66	<b>TC</b>  A66
	<b>DF</b>  A60	<b>PM</b>  A62	<b>DR</b> Single-side  A65		Without chipbreaker  A67
	<b>SF</b>  A60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





Corresponding tool holders of insert **DN**   M-type clamping

















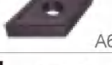




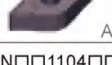
**MDPNN**  
KAPR:62°30'



Type	Stock	Basic dimensions(mm)							Screw	Shim	Wrench	Clamp	Pin
		H	B	LF	HF	WF	LH						
<b>MDPNN</b>	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					
	2525M15	▲	25	25	150	25	12.5	43					
	3225P15	▲	32	25	170	32	12.5	43	DM6×30	D15BM	WH30L	C2RD	TM6×19
	3232P15	△	32	32	170	32	16	43					
	4040R15	△	40	40	200	40	20	43					
	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□□

General turning

External turning tools

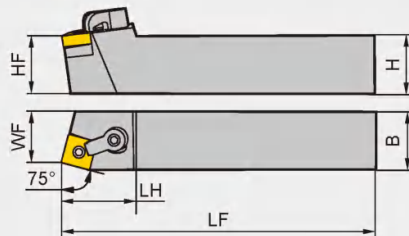
## External turning tools

### 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						
<b>MSBNR/L</b>	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	DM6×30	S12BM	WH30L	C1RD	TM6×17
	3225P12	▲	▲	32	25	170	32	22	32					
	3232P12	△	△	32	32	170	32	27	32	DM6×30	S12BM	WH30L	C1RD	TM6×17
	2525M15	▲	▲	25	25	150	25	22	38					
	3225P15	△	△	32	25	170	32	22	38	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3232P15	▲	▲	32	32	170	32	29	38					
	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					

▲ 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	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	MSBNR/L□□M/P15	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	MSBNR/L□□P/R19		SN□□1906□□	SN□□1906□□	SN□□1906□□
	MSBNR/L□□R/S2509			SN□□2509□□	SN□□2509□□



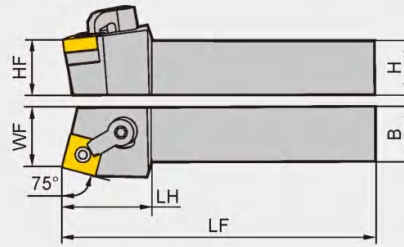


Corresponding tool holders of insert **SN**   M-type clamping

**MSRNR/L**  
KAPR:75°



R-type shown



Type	Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin					
	R	L	H	B	LF	HF	WF	LH										
<b>MSRNR/L</b>	<b>1616H12</b>	△	△	16	16	100	16	17	36	DM6×25								
	<b>2020K12</b>	▲	△	20	20	125	20	22	36									
	<b>2525M12</b>	▲	▲	25	25	150	25	27	36									
	<b>3225P12</b>	▲	▲	32	25	170	32	27	36	DM6×30								
	<b>3232P12</b>	△	△	32	32	170	32	35	36									
	<b>2525M15</b>	▲	▲	25	25	150	25	27	40	DM6×30								
	<b>3225P15</b>	△	△	32	25	170	32	27	40									
	<b>3232P15</b>	▲	▲	32	32	170	32	35	40									
	<b>3232P19</b>	▲	▲	32	32	170	32	35	45	DM8×30X					S19BM	WH40L	C5RD	TM10×21
	<b>4040R2509</b>	▲	▲	40	40	200	40	43	60	DM10×35X					S25BM	WH40L WH50L	C6RD	TM12×29
<b>4040S2509</b>	▲	▲	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	<b>XF</b> A68	<b>XM</b> A70	<b>DR</b> Double-side  A73	<b>HDR</b> A75	<b>TC</b> A76
	<b>DF</b> A68	<b>PM</b> A70	<b>DR</b> Single-side  A74	<b>HPR</b> A76	Without chipbreaker  A77
	<b>EF</b> A68	<b>DM</b> A71	<b>ER</b> Double-side  A74		
	<b>ADF</b> A69	<b>EM</b> A71	<b>ER</b> Single-side  A75		
	<b>SF</b> A69	<b>EG</b> A72	<b>SNR</b> Double-side  A75		
		<b>NM</b> A72	<b>LR</b> Single-side  A72		

Tool holder type	<b>MSRNR/L□□H/K/M/P12</b>	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	<b>MSRNR/L□□M/P15</b>	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	<b>MSRNR/L□□P19</b>		SN□□1906□□	SN□□1906□□	SN□□1906□□	SN□□1906□□
	<b>MSRNR/L□□R/S2509</b>			SN□□2509□□	SN□□2509□□	

General turning

External turning tools



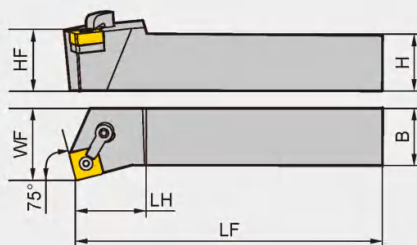
## External turning tools

### 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						
<b>MSKNR/L</b>	<b>1616H12</b>	△	△	16	16	100	16	20	32	DM6×20	S12BM	WH30L	C1RD	TM6×17
	<b>2020K12</b>	▲	△	20	20	125	20	25	32	DM6×25				
	<b>2525M12</b>	▲	▲	25	25	150	25	32	32	DM6×30				
	<b>3225P12</b>	▲	▲	32	25	170	32	32	32	DM6×30				
	<b>3232P12</b>	△	△	32	32	170	32	40	32	DM6×30	S15BM	WH30L	C2RD	TM8×21
	<b>2525M15</b>	▲	▲	25	25	150	25	32	35					
	<b>3225P15</b>	△	△	32	25	170	32	32	35					
	<b>3232P15</b>	▲	▲	32	32	170	32	40	38	DM8×30X	S19BM	WH40L	C5RD	TM10×21
	<b>3232P19</b>	▲	▲	32	32	170	32	40	45					
	<b>4040R19</b>	△	△	40	40	200	40	50	45	DM10×35X	S25BM	WH40L WH50L	C6RD	TM12×29
<b>4040S2509</b>	△	△	40	40	250	40	50	50						

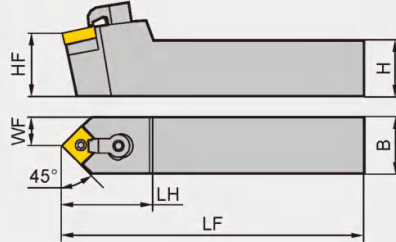
▲Stock available    △Make-to-order

### Applicable inserts

Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b> A68	<b>XM</b> A70	<b>DR</b> Double-side  A73	<b>HDR</b> A75	<b>TC</b> A76
	<b>DF</b> A68	<b>PM</b> A70	<b>DR</b> Single-side  A74	<b>HPR</b> A76	Without chipbreaker  A77
	<b>EF</b> A68	<b>DM</b> A71	<b>ER</b> Double-side  A74		
	<b>ADF</b> A69	<b>EM</b> A71	<b>ER</b> Single-side  A75		
	<b>SF</b> A69	<b>EG</b> A72	<b>SNR</b> Double-side  A75		
		<b>NM</b> A72	<b>LR</b> Single-side  A72		
<b>Tool holder type</b>	<b>MSKNR/L□□H/K/M/P12</b>	SN□□1204□□	SN□□1204□□	SN□□1204□□	SN□□1204□□
	<b>MSKNR/L□□M/P15</b>	SN□□1506□□	SN□□1506□□	SN□□1506□□	SN□□1506□□
	<b>MSKNR/L□□P/R19</b>		SN□□1906□□	SN□□1906□□	SN□□1906□□
	<b>MSKNR/L□□S2509</b>		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						
<b>MSDNN</b>	<b>2020K12</b>	▲	20	20	125	20	10	35	DM6×25	S12BM	WH30L	C1RD	TM6×17
	<b>2525M12</b>	▲	25	25	150	25	12.5	35	DM6×30				
	<b>3232P12</b>	▲	32	32	170	32	16	35	DM6×30				
	<b>2525M15</b>	▲	25	25	150	25	12.5	42	DM6×30	S15BM	WH30L	C2RD	TM8×21
	<b>3225P15</b>	△	32	25	170	32	12.5	42					
	<b>3232P15</b>	▲	32	32	170	32	16	42					

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

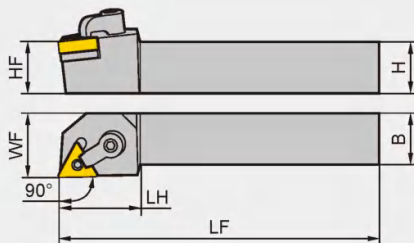
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A68	<b>XM</b>  A70	<b>DR</b> Double-side  A73	<b>HDR</b>  A75	<b>TC</b>  A76
	<b>DF</b>  A68	<b>PM</b>  A70	<b>DR</b> Single-side  A74	<b>HPR</b>  A76	Without chipbreaker  A77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

### 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						
<b>MTGNR/L</b>	<b>1616H16</b>	△	△	16	16	100	16	20	33	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	<b>2020K16</b>	▲	▲	20	20	125	20	25	33	DM6×25				
	<b>2525M16</b>	▲	▲	25	25	150	25	32	33	DM6×30				
	<b>3225P16</b>	▲	▲	32	25	170	32	32	33	DM6×30				
	<b>3232P16</b>	△	△	32	32	170	32	40	33	DM6×30	T22BM	WH30L	C2RD	TM6×17
	<b>2525M22</b>	▲	▲	25	25	150	25	32	35	DM6×30				
	<b>3225P22</b>	▲	▲	32	25	170	32	32	35	DM6×30				
	<b>3232P22</b>	△	△	32	32	170	32	40	40	DM6×30				

▲ Stock available    △ Make-to-order

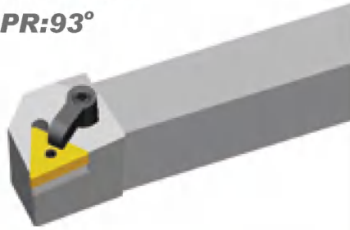
#### Applicable inserts

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

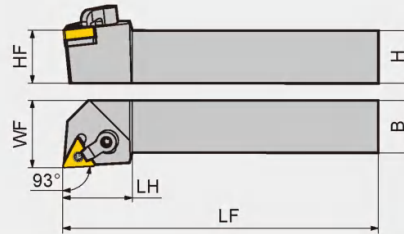


Corresponding tool holders of insert **TN**   M-type clamping

**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					
<b>MTJNR/L</b>	<b>2020K16</b>	▲	▲	20	20	125	20	25	33	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	<b>2525M16</b>	▲	▲	25	25	150	25	32	33	DM6×30				
	<b>3225P16</b>	▲	▲	32	25	170	32	32	33	DM6×30				
	<b>2525M22</b>	▲	▲	25	25	150	25	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17
	<b>3225P22</b>	▲	▲	32	25	170	32	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17

▲Stock available    △Make-to-order

General turning

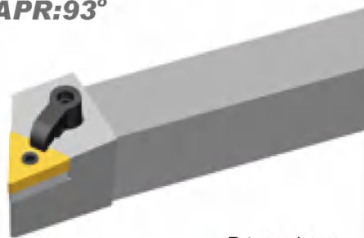
External turning tools

Applicable inserts

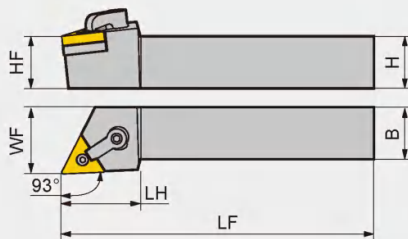
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78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

### 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						
<b>MTJNR/L-Z</b>	<b>1616H16</b>	△	△	16	16	100	16	20	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	<b>2020K16</b>	▲	▲	20	20	125	20	25	32	DM6×25				
	<b>2525M16</b>	▲	▲	25	25	150	25	32	32	DM6×30				
	<b>3225P16</b>	▲	▲	32	25	170	32	32	32	DM6×30				
	<b>3232P16</b>	△	△	32	32	170	32	40	32	DM6×30				
	<b>2525M22</b>	▲	▲	25	25	150	25	32	35	DM6×30				
	<b>3225P22</b>	▲	▲	32	25	170	32	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17
	<b>3232P22</b>	△	△	32	32	170	32	40	40					
	<b>4040R22</b>	△	△	40	40	200	40	50	40					

▲Stock available    △Make-to-order

### Applicable inserts

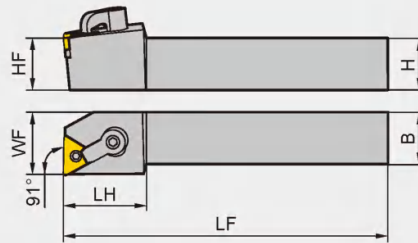
Application	For finishing	For semi-finishing	For roughing	For heavy machining	For cast iron machining
Inserts shape	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78	<b>DM</b>  A81	<b>ER</b> Double-side  A83		
	<b>EF</b>  A79	<b>EM</b>  A81	<b>SNR</b> Double-side  A83		
	<b>ES</b>  A79	<b>EG</b>  A81	<b>LR</b> Single-side  A83		
	<b>ADF</b>  A79	<b>EH</b>  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					
<b>MTFNR/L</b>	<b>1616H16</b>	△	△	16	16	100	16	20	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	<b>2020K16</b>	▲	△	20	20	125	20	25	32	DM6×25				
	<b>2525M16</b>	▲	▲	25	25	150	25	32	32	DM6×30				
	<b>3225P16</b>	▲	△	32	25	170	32	32	32	DM6×30				
	<b>3232P16</b>	△	△	32	32	170	32	40	32	DM6×30	T22BM	WH30L	C2RD	TM6×17
	<b>2525M22</b>	▲	▲	25	25	150	25	32	36	DM6×30				
	<b>3225P22</b>	▲	△	32	25	170	32	32	36	DM6×30				
	<b>3232P22</b>	△	△	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	<b>XF</b>  A78	<b>XM</b>  A80	<b>DR</b> Double-side  A82	<b>HDR</b>  A84	<b>TC</b>  A84
	<b>DF</b>  A78	<b>PM</b>  A80	<b>DR</b> Single-side  A83		Without chipbreaker  A84
	<b>SF</b>  A78	<b>DM</b>  A81	<b>ER</b> Double-side  A83		
	<b>EF</b>  A79	<b>EM</b>  A81	<b>SNR</b> Double-side  A83		
	<b>ES</b>  A79	<b>EG</b>  A81	<b>LR</b> Single-side  A83		
	<b>ADF</b>  A79	<b>EH</b>  A82			
Tool holder type	<b>MTFNR/L□□ H/K/M/P16</b>	TN□□1604□□	TN□□1604□□	TN□□1604□□	TN□□1604□□
	<b>MTFNR/L□□M/P22</b>	TN□□2204□□	TN□□2204□□	TN□□2204□□	TN□□2204□□

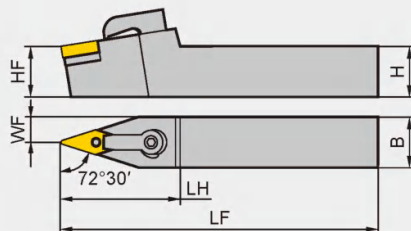
General turning

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						
<b>MVVNN</b>	<b>1616H16</b>	△	16	16	100	16	8	45	DM6×25	V16BM	WH20L WH30L	C3RD	TM5×13
	<b>2020K16</b>	▲	20	20	125	20	10	45	DM6×25				
	<b>2525M16</b>	▲	25	25	150	25	12.5	45	DM6×30				
	<b>3225P16</b>	▲	32	25	170	32	12.5	45	DM6×30				
	<b>3232P16</b>	▲	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	<b>XF</b>	A85	<b>XM</b>	A86	<b>SNR</b>	A87
	<b>DF</b>	A85	<b>PM</b>	A86		
	<b>EF</b>	A85	<b>DM</b>	A86		
	<b>ADF</b>	A85	<b>EM</b>	A87		
	<b>SF</b>	A86	<b>EG</b>	A87		
	<b>NF</b>	A85	<b>NM</b>	A87		
	<b>NGF</b>	A86				

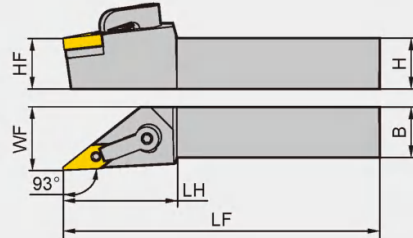
Tool holder type	MVVNN□□ H/K/M/P16	VN□□1604□□	VN□□1604□□	VN□□1604□□	VN□□1604□□
------------------	-------------------	------------	------------	------------	------------

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

**MVJNR/L**  
KAPR:93°



R-type shown



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

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

Application	For finishing		For semi-finishing		For roughing	For cast iron machining
Inserts shape	<b>XF</b>		<b>XM</b>		<b>SNR</b>	<b>TC</b>
	<b>DF</b>		<b>PM</b>			
	<b>EF</b>		<b>DM</b>			
	<b>ADF</b>		<b>EM</b>			
	<b>SF</b>		<b>EG</b>			
	<b>NF</b>		<b>NM</b>			
	<b>NGF</b>					

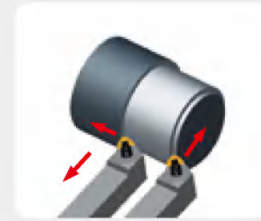
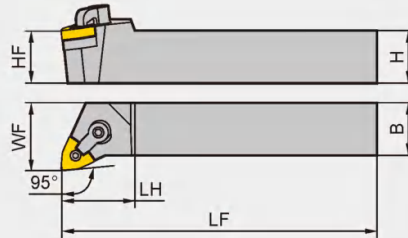
Tool holder type	MVJNR/L□□ K/M/P16	VN□□1604□□	VN□□1604□□	VN□□1604□□	VN□□1604□□
------------------	-------------------	------------	------------	------------	------------

### Corresponding tool holders of insert **WN** M-type clamping

**MWLNRI/L**  
KAPR:95°



R-type shown



Type	Stock		Basic dimensions(mm)						Screw	Shim	Wrench	Clamp	Pin	
	R	L	H	B	LF	HF	WF	LH						
<b>MWLNRI/L</b>	<b>1616H06</b>	△	△	16	16	100	16	20	28	DM6×25				
	<b>2020K06</b>	▲	▲	20	20	125	20	25	30	DM6×25	W06BM	WH20L WH30L	C1RD	TM5×13
	<b>2525M06</b>	▲	▲	25	25	150	25	32	30	DM6×30				
	<b>1616H08</b>	△	△	16	16	100	16	20	30	DM6×25				
	<b>2020K08</b>	▲	▲	20	20	125	20	25	30	DM6×25				
	<b>2525M08</b>	▲	▲	25	25	150	25	32	35	DM6×30				
	<b>3525P08</b>	▲	▲	32	25	170	32	32	35	DM6×30	W08BM	WH30L	C1RD	TM6×17
	<b>3232P08</b>	▲	▲	32	32	170	32	40	35					
<b>4040R08</b>	△	△	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	<b>XF</b>  A88	<b>XM</b>  A90	<b>DR</b> Double-side  A92	<b>TC</b>  A93
	<b>DF</b>  A88	<b>PM</b>  A90	<b>SNR</b> Double-side  A92	Without chipbreaker  A93
	<b>SF</b>  A88	<b>DM</b>  A91		
	<b>EF</b>  A89	<b>EM</b>  A91		
	<b>ES</b>  A89	<b>EG</b>  A91		
	<b>ADF</b>  A89	<b>EH</b>  A92		
	<b>NF</b>  A89	<b>NM</b>  A92		
Tool holder type	<b>MWLNRI/L</b> □□□□H/K/M06	WN□□0604□□	WN□□0604□□	WN□□0604□□
	<b>MWLNRI/L</b> □□□□H/K/M/P/R08	WN□□0804□□	WN□□0804□□	WN□□0804□□

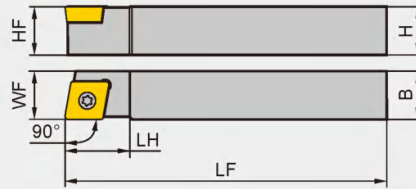




Corresponding tool holders of insert **CC**   S-type clamping

**SCACRIL**  
KAPR:90°



R-type shown



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

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

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

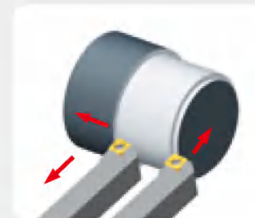
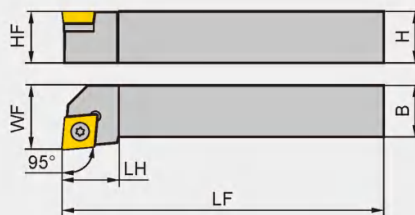


### Corresponding tool holders of insert **CC** S-type clamping

#### 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					
<b>SCLCR/L</b>	<b>0808F06</b>	▲	△	08	08	80	08	10	12	I60M2.5×6.5	---	---	WT071P
	<b>1010F06</b>	▲	▲	10	10	80	10	12	12				
	<b>1212H06</b>	△	△	12	12	100	12	16	12				
	<b>1616H06</b>	△	△	16	16	100	16	20	16				
	<b>1212H09</b>	▲	▲	12	12	100	12	16	16	I60M3.5×8	---	---	WT151P
	<b>1616H09</b>	▲	▲	16	16	100	16	20	16				
	<b>2020K09</b>	△	△	20	20	125	20	25	25				
	<b>2525M09</b>	△	△	25	25	150	25	32	25				
	<b>2020K12</b>	▲	▲	20	20	125	20	25	25	I60M4×11X	C12BS	SM6×10XA	WT151P WH40L
	<b>2525M12</b>	▲	▲	25	25	150	25	32	25				
	<b>3225M12</b>	▲	▲	32	25	150	32	32	25				

▲Stock available    △Make-to-order

#### Applicable inserts

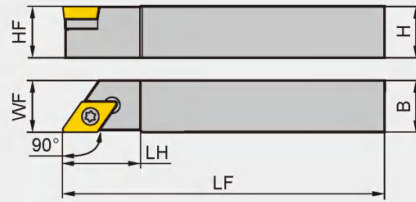
Application	For extra finishing	For finishing	For semi-finishing	For roughing	For cast iron machining	For AI machining
Inserts shape	<b>SF</b>  A95	<b>XF</b>  A95	<b>XM</b>  A96	<b>HR</b>  A98	<b>TC</b>  A98	<b>LH</b>  A99
		<b>HF</b>  A95	<b>HM</b>  A97			<b>LC</b>  A99
		<b>EF</b>  A96	<b>EF</b>  A97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

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

**SDACRIL**  
KAPR:90°



R-type shown



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

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

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



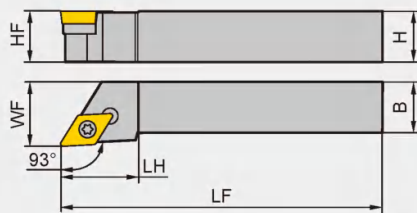


### Corresponding tool holders of insert DC S-type clamping

**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					
<b>SDJCR/L</b>	0808F07	△	△	8	8	80	8	10	15	I60M2.5×6.5	---	---	WT071P
	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				
1212K11	△	△	12	12	125	12	16	22	I60M3.5×10	D11BS	SM5×7XA	WT151P WH35L	
1616K11	▲	▲	16	16	125	16	20	22	I60M3.5×12		SM5×8.65XA		
2020K11	▲	▲	20	20	125	20	25	24					
2525M11	▲	▲	25	25	150	25	32	24					

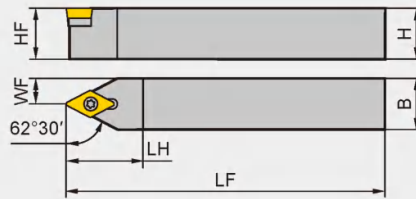
▲Stock available    △Make-to-order

### 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'



Type	Stock	Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench	
		H	B	LF	HF	WF	LH					
<b>SDNCN</b>	<b>0808F07</b>	△	8	8	80	8	4	20	I60M2.5×6.5	---	---	WT071P
	<b>1010F07</b>	▲	10	10	80	10	5	20				
	<b>1212H07</b>	▲	12	12	100	12	6	20				
	<b>1616H07</b>	△	16	16	100	16	8	20				
	<b>2020K07</b>	△	20	20	125	20	10	25				
	<b>2525M07</b>	△	25	25	150	25	12.5	30				
	<b>1616K11</b>	▲	16	16	125	16	8	30	I60M3.5×12	D11BS	SM5×8.65XA	WT151P WH35L
	<b>2020K11</b>	▲	20	20	125	20	10	30				
	<b>2525M11</b>	▲	25	25	150	25	12.5	30				
	<b>3225M11</b>	△	32	25	150	32	12.5	30				
<b>3232P11</b>	△	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	<b>SF</b>  A100	<b>XF</b>  A100	<b>XM</b>  A101	<b>HR</b>  A102	<b>LH</b>  A103
		<b>HF</b>  A100	<b>HM</b>  A102		<b>LC</b>  A103
		<b>EF</b>  A101	<b>EM</b>  A102		
		<b>AHF</b>  A101			
Tool holder type	<b>SDNCN□□F/H/K/M07</b>	DC□□0702□□	DC□□0702□□	DC□□0702□□	DCGX0702□□
	<b>SDNCN□□K/M/P11</b>	DC□□11T3□□	DC□□11T3□□	DC□□11T3□□	DCGX11T3□□

General turning

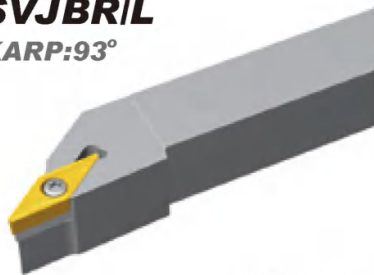
External turning tools



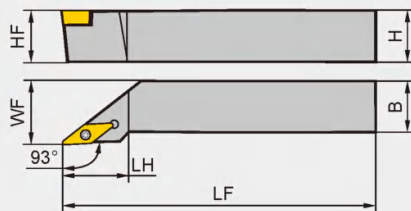
## External turning tools

### 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					
<b>SVJBR/L</b>	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				
<b>SVJBR/L</b>	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	<b>SF</b>  A117	<b>XF</b>  A117	<b>XM</b>  A118	<b>HR</b>  A119
		<b>HF</b>  A117	<b>HM</b>  A119	<b>SNR</b>  A119
		<b>NF</b>  A118	<b>EM</b>  A118	
		<b>EF</b>  A117		
		<b>NGF</b>  A118		
		<b>AHF</b>  A118		
Tool holder type	SVJBR/L□□H/K/M11	VB□□1103□□	VB□□1103□□	VB□□1103□□
	SVJBR/L□□H/K/M16	VB□□1604□□	VB□□1604□□	VB□□1604□□



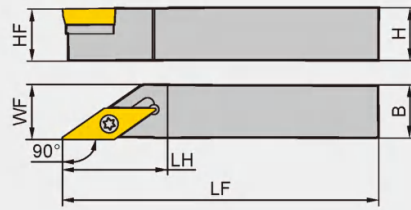


Corresponding tool holders of insert **VB**   S-type clamping

**SVABRIL**  
KAPR:90°



R-type shown



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

▲Stock available    △Make-to-order

General turning

External turning tools

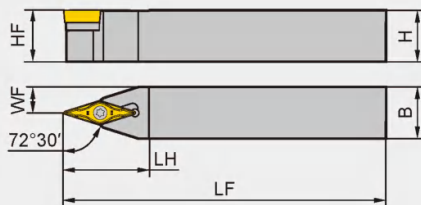
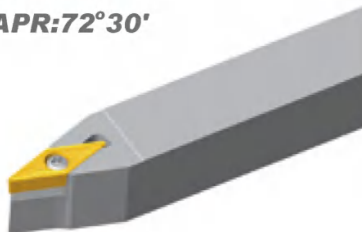
Applicable inserts

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



### 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					
<b>SVVBN</b>	<b>1212H11</b>	▲	12	12	100	12	6	25	I60M2.5×6.5	---	---	WT07IP
	<b>1616H11</b>	▲	16	16	100	16	8	25				
	<b>2020K11</b>	▲	20	20	125	20	10	30				
	<b>2525M11</b>	△	25	25	150	25	12.5	35				
	<b>1616H16</b>	▲	16	16	100	16	8	35	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	<b>2020K16</b>	▲	20	20	125	20	10	35				
	<b>2525M16</b>	▲	25	25	150	25	12.5	35				

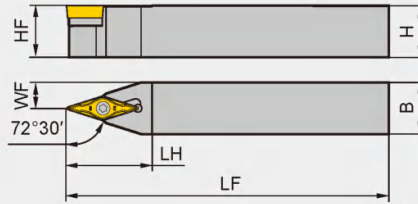
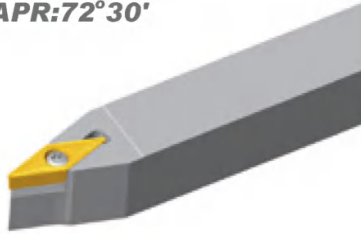
▲Stock available    △Make-to-order

### Applicable inserts

Application	For extra finishing	For finishing	For semi-finishing	For roughing
Inserts shape	<b>SF</b>  A117	<b>XF</b>  A117	<b>XM</b>  A118	<b>HR</b>  A119
		<b>HF</b>  A117	<b>HM</b>  A119	<b>SNR</b>  A119
		<b>NF</b>  A118	<b>EM</b>  A118	
		<b>EF</b>  A117		
		<b>NGF</b>  A118		
		<b>AHF</b>  A118		
Tool holder type	SVJBR/L□□H/K/M11	VB□□1103□□	VB□□1103□□	VB□□1103□□
	SVJBR/L□□H/K/M16		VB□□1604□□	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				
<b>SVVCN</b>	<b>1212H11</b>	▲	12	12	100	12	6	25	I60M2.5×6.5	---	---	WT07IP
	<b>1616H11</b>	▲	16	16	100	16	8	27				
	<b>2020K11</b>	▲	20	20	125	20	10	30				
	<b>2525M11</b>	△	25	25	150	25	12.5	38				
	<b>1616H16</b>	▲	16	16	100	16	8	33	I60M3.5×12	V16BSC	SM5×8.65XA	WT15IP WH35L
	<b>2020K16</b>	▲	20	20	125	20	10	33				
	<b>2525M16</b>	▲	25	25	150	25	12.5	38				

▲Stock available    △Make-to-order

General turning

External turning tools

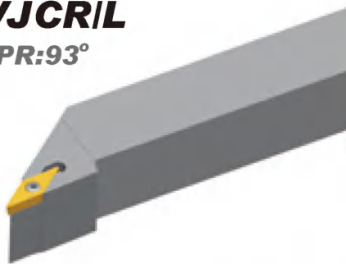
Applicable inserts

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

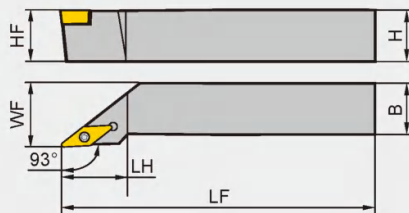


### Corresponding tool holders of insert VC S-type clamping

#### SVJCRIL KAPR:93°



R-type shown



Type	Stock		Basic dimensions(mm)							Screw	Shim	Shim screw	Wrench
	R	L	H	B	LF	HF	WF	LH					
<b>SVJCR/L</b>	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

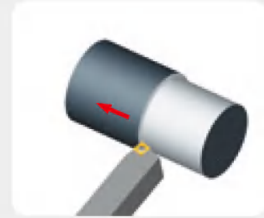
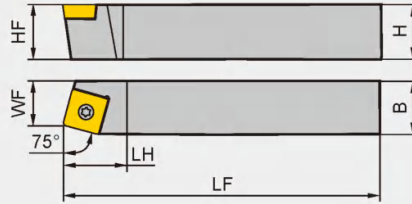
Application	For extra finishing	For finishing	For AI machining
Inserts shape	<b>SF</b>  A114	<b>XF</b>  A114	<b>LH</b>  A116
		<b>NF</b>  A114	<b>LC</b>  A116
		<b>NGF</b>  A114	
		<b>AHF</b>  A114	
Tool holder type	SVVCN□□H/K/M11	VC□□1103□□	VCGX1103□□
	SVVCN□□H/K/M16		VC□□1604□□

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

**SSBCR/L**  
KAPR:75°



R-type shown



Type	Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench	
	R	L	H	B	LF	HF	WF	LH					
<b>SSBCR/L</b>	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

General turning

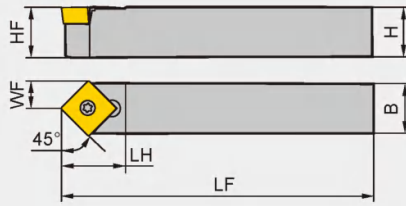
External turning tools

Applicable inserts

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

### 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
<b>SSDCN</b>	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	I60M4×11X	S12BS	SM6×10XA	WT151P WH40L
	2525M12	▲	25	25	150	25	12.5	24				

▲Stock available    △Make-to-order

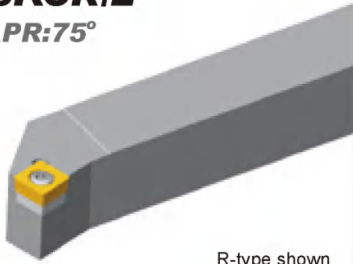
### Applicable inserts

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

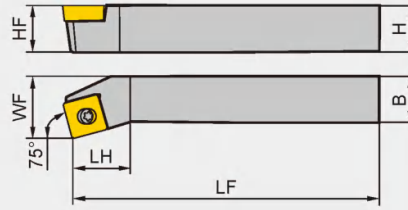






Corresponding tool holders of insert **SC**   S-type clamping

**SSKCRIL**  
KAPR:75°



R-type shown







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

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

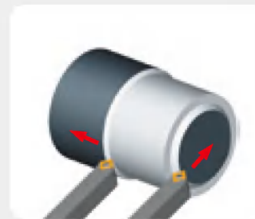
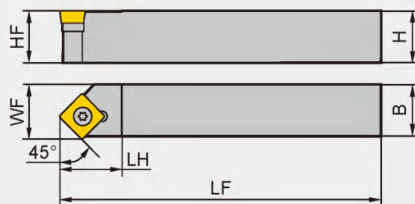
Application	For finishing	For semi-finishing	For roughing	For AI machining	
Inserts shape	<b>XF</b>  A106	<b>XM</b>  A107	<b>HR</b>  A108	<b>LH</b>  A108	
	<b>HF</b>  A106	<b>HM</b>  A107		<b>LC</b>  A108	
	<b>EF</b>  A106	<b>EM</b>  A107			
	<b>AHF</b>  A106				
Tool holder type	<b>SSKCR/L</b> □□□H/K/M09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

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

#### **SSSCRIL** KAPR:45°



R-type shown



Type	Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench	
	R	L	H	B	LF	HF	WF	LH					
<b>SSSCR/L</b>	1212H09	△	△	12	12	100	12	13	16	I60M3.5×8	---	---	WT15IP
	1616H09	▲	▲	16	16	100	16	17	16	I60M3.5×12	S09BS	SM5×8.65XA	WT15IP WH35L
	2020K09	△	△	20	20	125	20	21	25				
	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				

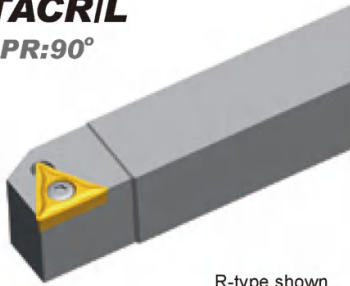
▲Stock available    △Make-to-order

### Applicable inserts

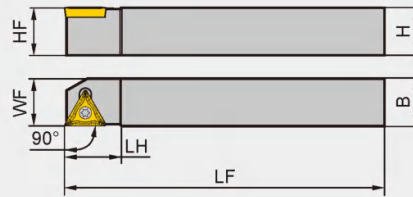
Application	For finishing	For semi-finishing	For roughing	For AI machining
Inserts shape	<b>XF</b>  A106	<b>XM</b>  A107	<b>HR</b>  A108	<b>LH</b>  A108
	<b>HF</b>  A106	<b>HM</b>  A107		<b>LC</b>  A108
	<b>EF</b>  A106	<b>EM</b>  A107		
	<b>AHF</b>  A106			
Tool holder type	SSSCR/L□□H/K/M09	SC□□09T3□□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

Corresponding tool holders of insert **TC**   S-type clamping

**STACRIL**  
KAPR:90°



R-type shown














Type	Stock		Basic dimensions(mm)						Screw	Wrench	---	---	
	R	L	H	B	LF	HF	WF	LH					
<b>STACR/L</b>	<b>1010K11</b>	△	△	10	10	100	10	10	12	160M2.5×6.5	WT07IP	---	---
	<b>1212F11</b>	△	△	12	12	80	12	12	14				
	<b>1616K11</b>	△	△	16	16	100	16	16	16				

▲Stock available    △Make-to-order

General turning

External turning tools

Applicable inserts

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

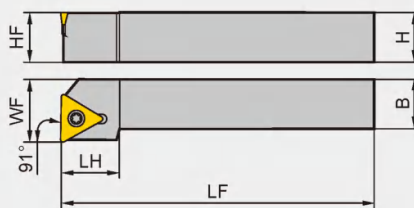


### Corresponding tool holders of insert **TC** S-type clamping

**STFCRIL**  
KAPR:91°



R-type shown



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

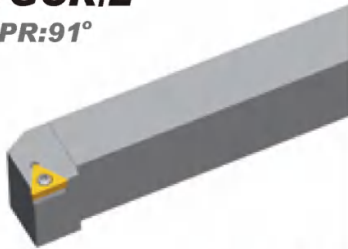
▲ Stock available    △ Make-to-order

### Applicable inserts

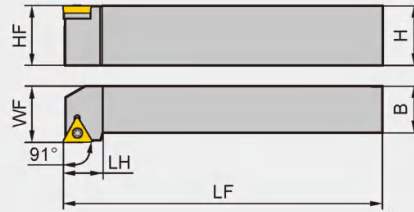
Application	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	<b>XF</b>  A109	<b>XM</b>  A111	<b>HR</b>  A112	<b>LH</b>  A113
	<b>HF</b>  A109	<b>HM</b>  A112		<b>LC</b>  A113
	<b>EF</b>  A109	<b>EM</b>  A111		
	<b>AHF</b>  A111	<b>EG</b>  A111		
Tool holder type	<b>STACR/L□□K/F11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

Corresponding tool holders of insert **TC**   S-type clamping

**STGCR/L**  
KAPR:91°



R-type shown



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

▲Stock available    △Make-to-order

Applicable inserts

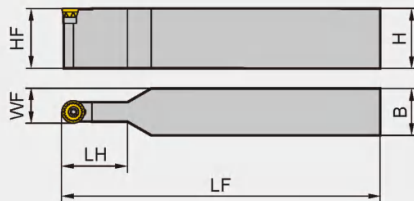
Application	For extra finishing	For finishing	For semi-finishing	For roughing	For Al machining
Inserts shape	<b>SF</b> 	<b>XF</b> 	<b>XM</b> 	<b>HR</b> 	<b>LH</b> 
		<b>HF</b> 	<b>HM</b> 		<b>LC</b> 
		<b>EF</b> 	<b>EM</b> 		
		<b>AHF</b> 	<b>EG</b> 		
Tool holder type	<b>STGCR/L□□F/H09</b>	TC□□0902□□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

General turning

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					
<b>SRDCN</b>	<b>1616H08</b>	△	16	16	100	16	12	16				
	<b>2020K08</b>	△	20	20	125	20	14	16	I60M3×7	---	---	WT09IP
	<b>2525M08</b>	△	25	25	150	25	16.5	16				
	<b>2020K10</b>	△	20	20	125	20	15	20				
	<b>2525M10</b>	▲	25	25	150	25	17.5	25	I60M3.5×10	---	---	WT15IP
	<b>2525M12</b>	▲	25	25	150	25	18.5	35				
	<b>3232P12</b>	△	32	32	170	32	22	35	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L
	<b>3225P16</b>	▲	32	25	170	32	20.5	35				
	<b>4040S16</b>	△	40	40	250	40	28	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			<b>LH</b> 
Tool holder type	SRDCN□□K/M/H08	SRDCN□□K/M10	SRDCN□□M/P12
	RCMT0803MO	RCMT10T3MO	RCMT1204MO
	RCMT0803MO	RCMT10T3MO	RCMT1606MO
	RCGX0803MO-LH		

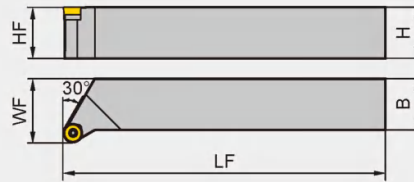


Corresponding tool holders of insert **RC**   S-type clamping

**SRGCR/L**



R-type shown



Type	Stock		Basic dimensions(mm)						Screw	Shim	Shim screw	Wrench
	R	L	H	B	LF	HF	WF					
<b>SRGCR/L</b>	<b>1616H08</b>	△	△	16	16	100	16	20	I60M3×7	---	---	WT09IP
	<b>2020K08</b>	△	△	20	20	125	20	25				
	<b>2525M08</b>	△	△	25	25	150	25	32				
	<b>1616H10</b>	△	△	16	16	100	16	20				
	<b>2020K10</b>	▲	▲	20	20	125	20	25	I60M3.5×10	---	---	WT15IP
	<b>2525M10</b>	▲	▲	25	25	150	25	32				
	<b>2020K12</b>	▲	△	20	20	125	20	27	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L
	<b>2525M12</b>	▲	▲	25	25	150	25	32				
<b>3232P16</b>	▲	△	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 AI machining
Inserts shape			<b>LH</b> 
Tool holder type	RCMT0803MO	RCMT0803MO	RCGX0803MO-LH
	RCMT10T3MO	RCMT10T3MO	
	RCMT1204MO	RCMT1204MO	
	RCMT1606MO	RCMT1606MO	