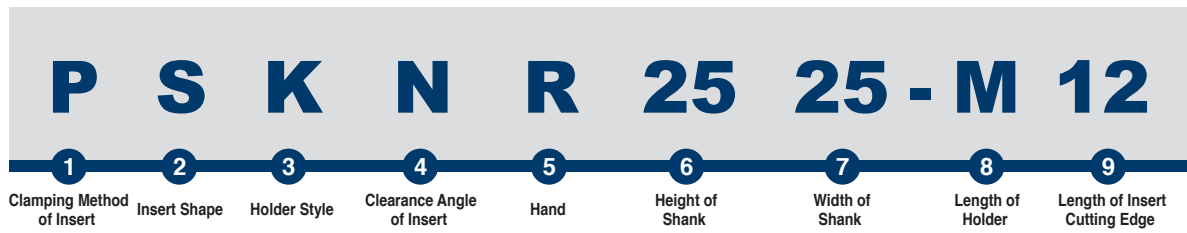
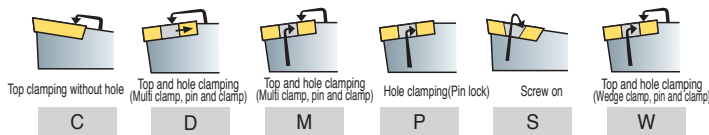


B External tool Holder Code System(ISO)



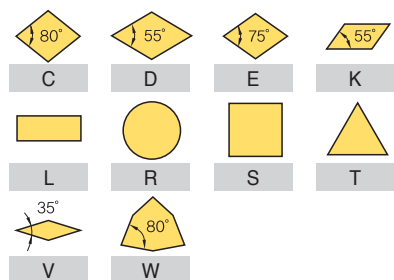
1 Clamping Method of Insert

P S K N R 25 25 - M 12



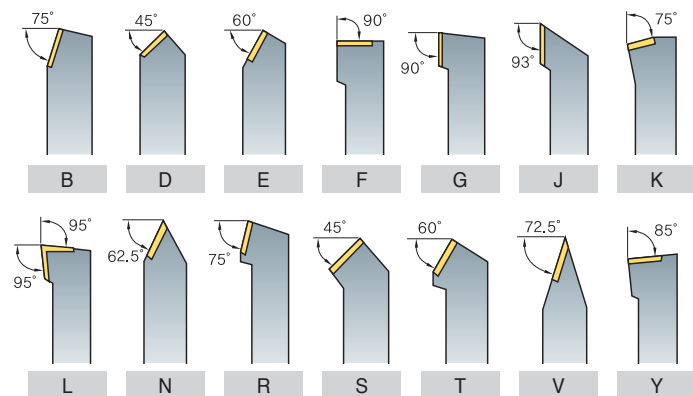
2 Insert Shape

P S K N R 25 25 - M 12



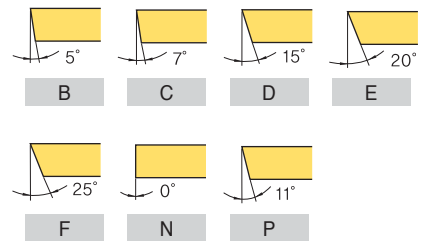
3 Holder Style

P S K N R 25 25 - M 12



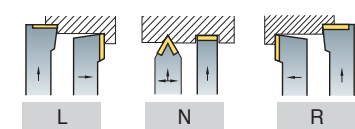
4 Clearance Angle of Insert

P S K N R 25 25 - M 12



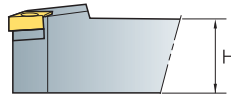
5 Hand

P S K N R 25 25 - M 12



6 Height of Shank

P S K N R 25 25 - M 12



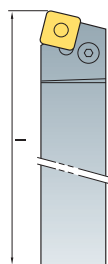
7 Width of Shank

P S K N R 25 25 - M 12



8 Length of Holder

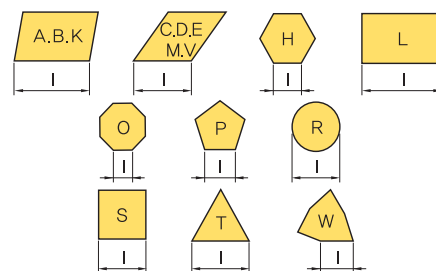
P S K N R 25 25 - M 12



A - 32	H - 100	Q - 180	X-Special Item
B - 40	J - 110	R - 200	
C - 50	K - 125	S - 250	
D - 60	L - 140	T - 300	
E - 70	M - 150	U - 350	
F - 80	N - 160	V - 400	
G - 90	P - 170	W - 450	

9 Length of Insert Cutting Edge

P S K N R 25 25 - M 12



Double Clamp System

Cutting Shape										
Designation	DCBNR/L	DCKNR/L	DCLNR/L	DDJNR/L	DSBNR/L	DSDNN	DSKNR/L	DSSNR/L	DTFNR/L	DTGNR/L
Approach angle	75°	75°	95°	93°	75°	45°	75°	45°	90°	90°
Page	B148	B148	B148	B149	B149	B150	B150	B150	B151	B151
Turning	●		●	●	●	●		●		●
Copying				●						
Facing		●	●				●	●	●	
Chamfering						●				
Back turning			●	●						

Cutting Shape										
Designation	DVJNR/L	DVVNN	DWLNR/L							
Approach angle	93°	72.5°	95°							
Page	B151	B152	B152							
Turning	●	●	●							
Copying	●	●								
Facing			●							
Chamfering										
Back turning	●		●							

Lever Lock System

Cutting Shape										
Designation	PCBNR/L	PCKNR/L	PCLNR/L	PDJNR/L	PDNNR/L	PRDCN	PRGCR/L	PSBNR/L	PSDNN	PSKNR/L
Approach angle	75°	75°	95°	93°	62.5°	-	-	75°	45°	75°
Page	B153	B153	B154	B154	B155	B156	B156	B157	B157	B158
Turning	●	●	●	●	●	●	●	●	●	
Copying				●	●	●	●			
Facing			●							●
Chamfering										
Back turning			●	●						

Cutting Shape										
Designation	PSSNR/L	PTFNR/L	PTGNR/L	PTTNR/L	PWLNR/L					
Approach angle	45°	90°	90°	60°	95°					
Page	B158	B159	B159	B160	B160					
Turning	●		●	●	●					
Copying										
Facing	●	●			●					
Chamfering				●						
Back turning					●					



B Index for External Holder

Wedge Clamp System

Cutting Shape										
Designation	WTENN	WTJNR/L	WTXNR/L	WWLNR/L						
Approach angle	60°	93°	105°	95°						
Page	B161	B161	B161	B162						
Turning	●	●	●	●						
Copying	●	●	●							
Facing				●						
Chamfering										
Back turning		●	●	●						

Clamp on System

Cutting Shape										
Designation	CKJNR/L	CKNNR/L	CSDPN	CSKPR/L	CTFPR/L	CTGPR/L				
Approach angle	93°	62.5°	45°	75°	90°	90°				
Page	B163	B163	B163	B164	B164	B164				
Turning	●	●	●			●				
Copying	●	●								
Facing				●	●					
Chamfering										
Back turning	●									

Multi Lock System

Cutting Shape										
Designation	MCKNR/L	MCLNR/L	MCMNN	MCRNR/L	MDJNR/L	MDNNN	MDQNR/L	MSBNR/L	MSDNN	MSKNR/L
Approach angle	75°	95°	50°	75°	93°	62.5°	107.5°	75°	45°	75°
Page	B165	B165	B165	B166	B166	B166	B167	B167	B167	B168
Turning		●	●	●	●	●	●	●	●	
Copying					●	●	●			
Facing	●	●								●
Chamfering										
Back turning		●			●		●			

Cutting Shape										
Designation	MSRRNR/L	MSSNR/L	MTENN	MTFNR/L	MTGNR/L	MTJNR/L	MVJNR/L	MVQNR/L	MVVNN	MWLNR/L
Approach angle	75°	45°	60°	90°	90°	93°	93°	117.5°	72.5°	95°
Page	B168	B169	B169	B169	B170	B170	B170	B171	B171	B171
Turning	●	●	●		●	●	●	●	●	●
Copying			●			●	●	●	●	
Facing		●		●		●				●
Chamfering										
Back turning						●	●	●		●



B Turning

Screw on System

Cutting Shape										
Designation	SCACR/L	SCLCR/L	SDACR/L	SDJCR/L	SDNCN	SRDCN	SRGCR/L	SSBCR/L	SSDCN	SSKCR/L
Approach angle	90°	95°	90°	93°	62.5°	-	-	75°	45°	75°
Page	B172	B172	B172	B173	B173	B173	B174	B174	B174	B175
Turning	●	●	●	●	●	●	●	●	●	
Copying			●	●	●	●	●			
Facing		●								●
Chamfering										
Back turning		●		●						

Cutting Shape										
Designation	SSSCR/L	STACR/L	STFCR/L	STGCR/L	STTCR/L	SVABR/L	SVHBR/L	SVJBR/L	SVJCR/L	SVVBN
Approach angle	45°	90°	90°	90°	60°	90°	107.5°	93°	93°	72.5°
Page	B175	B175	B176	B176	B176	B177	B177	B177	B178	B178
Turning	●	●		●	●	●	●	●	●	●
Copying						●	●	●	●	●
Facing	●		●							
Chamfering										
Back turning						●	●	●	●	

Cutting Shape										
Designation	SVVCN									
Approach angle	72.5°									
Page	B178									
Turning	●									
Copying	●									
Facing										
Chamfering										
Back turning										

Ceramic Holder

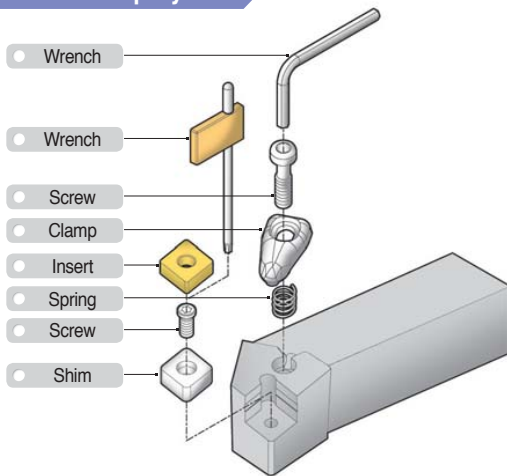
Cutting Shape										
Designation	CCNLR/L	CRDNN	CRGNNR/L	CSDNN	CSKNR/L	CTFNNR/L	CTGNNR/L			
Approach angle	95°	-	-	45°	75°	90°	90°			
Page	B179	B179	B179	B179	B180	B180	B180			
Turning	●	●	●	●			●			
Copying			●							
Facing	●				●	●				
Chamfering										
Back turning	●									



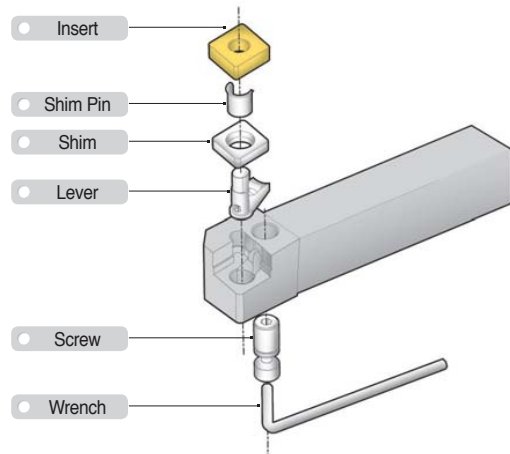
B Instruction of External Holder

Instruction of External Holder

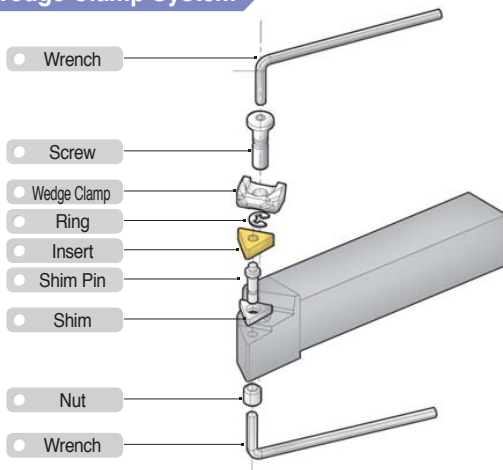
Double Clamp System



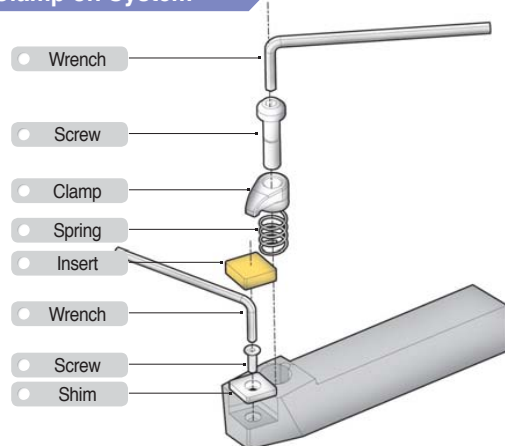
Lever Lock System



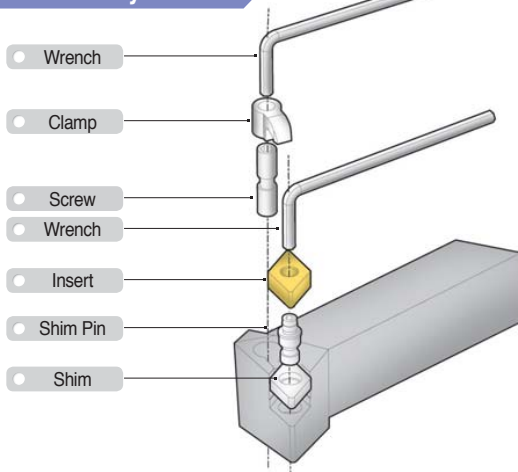
Wedge Clamp System



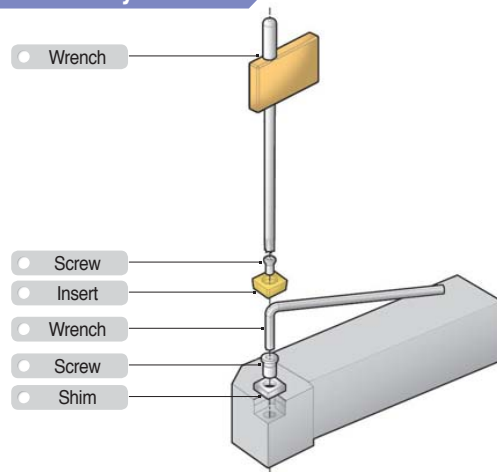
Clamp on System



Multi Lock System



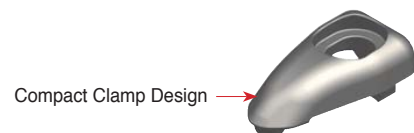
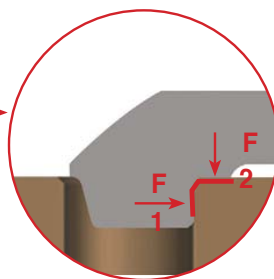
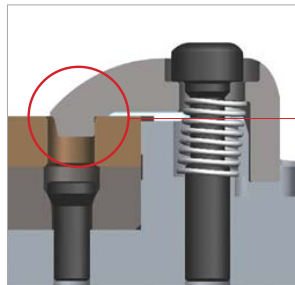
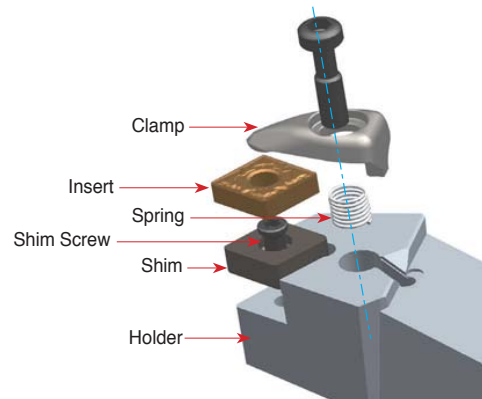
Screw on System



Double Clamp System

Stable clamping with double clamp system

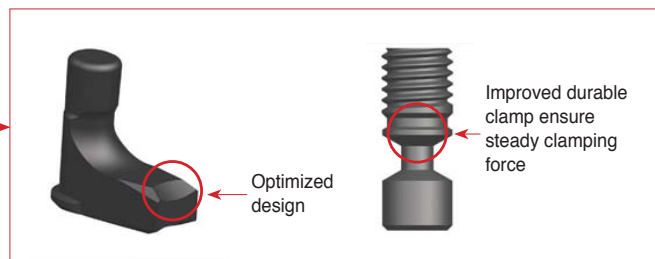
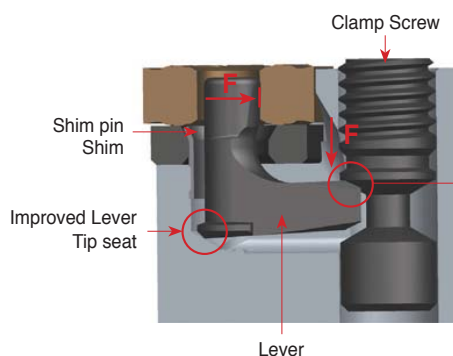
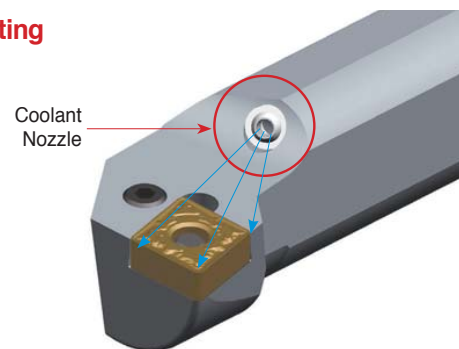
- Features**
- Simple and powerful clamping system operated by only a single clamp screw
 - The powerful double-clamping system (upper and internal) is suitable for machining in very tough cutting conditions
 - The holder offers precision due to the special design in the rear of the clamp
 - Compact and optimized design for avoiding chip interference with a powerful clamp



Lever Lock System

Excellent clamping stability and rigidity compared to existing lever-lock holders and boring bars

- Features**
- The holder offers precision due to the special design due to the improved Lever tip seat
 - The durability of parts has been improved
 - Superior tool life due to powerful clamping system and optimized design of part
 - Part designation on holder body makes it easy to check the right part description for each product
 - Adjustable coolant nozzle gives the option to change the direction of the coolant to optimize chip control and improve tool life

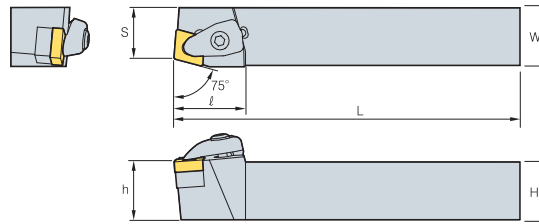


B Double Clamp System

DCBNR/L



CN□□



• R type insert
(mm)

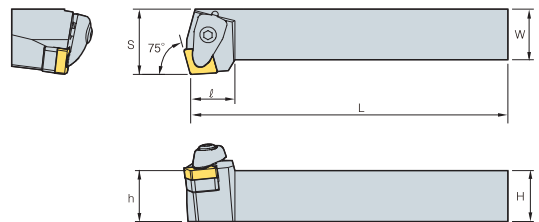
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DCBNR/L 2020-K12	20	20	125	17	20	31	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	22	25	31							
3225-P12	32	25	170	22	32	31							
2525-M16	25	25	150	22	25	36	CN□□1606□□	CVH5	CHX0622	SC54V	FTNA0511	SPR0811	HW40L
3232-P16	32	32	170	27	32	36							
3232-P19	32	32	170	27	32	40							
4040-S19	40	40	250	35	40	40	CN□□1906□□	CVH6	CHX0622	SC63V	FTNA0511	SPR0811	HW40L

➔ Applicable inserts B26~B32

DCKNR/L



CN□□



• R type insert
(mm)

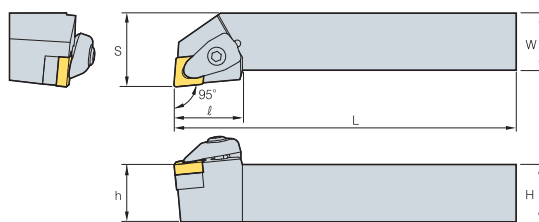
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DCKNR/L 2020-K12	20	20	125	25	20	21	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	32	25	21							
3225-P12	32	25	170	32	32	21							
3232-P16	32	32	170	40	32	26	CN□□1606□□	CVH5	CHX0622	SC54V	FTNA0511	SPR0811	HW40L
4040-S16	40	40	250	50	40	26							

➔ Applicable inserts B26~B32

DCLNR/L



CN□□



• R type insert
(mm)

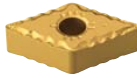
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DCLNR/L 2020-K09	20	20	125	25	20	24.5	CN□□0903□□	CVH3	CHX0415	SC32V	FTKA0307	SPR0510	HW25P
2525-M09	25	25	150	32	25	24.5							
2020-K12	20	20	125	25	20	30	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	32	25	30							
3225-P12	32	25	170	32	32	30							
3232-P12	32	32	170	40	32	30	CN□□1606□□	CVH5	CHX0622	SC54V	FTNA0511	SPR0811	HW40L
2525-M16	25	25	150	32	25	36							
3225-P16	32	25	170	32	32	36							
3232-P16	32	32	170	40	32	36	CN□□1906□□	CVH6	CHX0622	SC63V	FTNA0511	SPR0811	HW40L
2525-M19	25	25	150	32	25	40							
3225-P19	32	25	170	32	32	40							
3232-P19	32	32	170	40	32	40	CN□□1906□□	CVH6	CHX0622	SC63V	FTNA0511	SPR0811	HW40L
4040-S19	40	40	250	50	40	40							

➔ Applicable inserts B26~B32

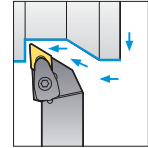
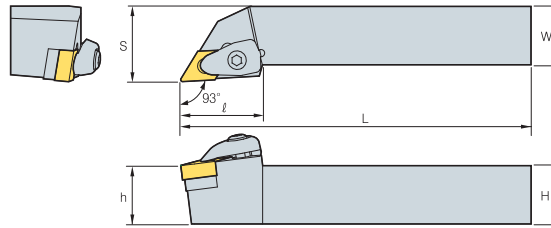


B Turning

DDJNR/L



DN□□



93°

• R type insert (mm)

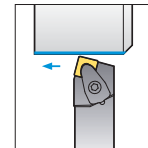
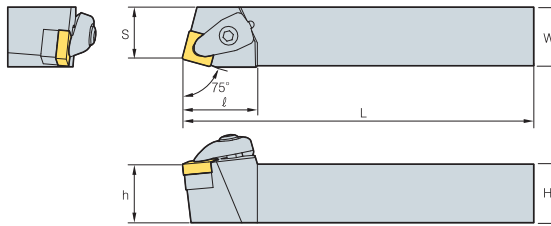
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DDJNR/L 2020-K11	20	20	125	25	20	30	DN□□1104□□						
2525-M11	25	25	150	32	25	30							
3225-P11	32	25	170	32	32	30							
3232-P11	32	32	170	40	32	30							
2020-K15	20	20	125	25	20	35	DN□□1506□□						
2525-M15	25	25	150	32	25	35							
3225-P15	32	25	170	32	32	35							
3232-P15	32	32	170	40	32	35							
2020-K15-3	20	20	125	25	20	35	DN□□1504□□						
2525-M15-3	25	25	150	32	25	35							
3232-P15-3	32	32	170	40	32	35							

Applicable inserts B33~B39

DSBNR/L



SN□□



75°

• R type insert (mm)

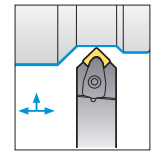
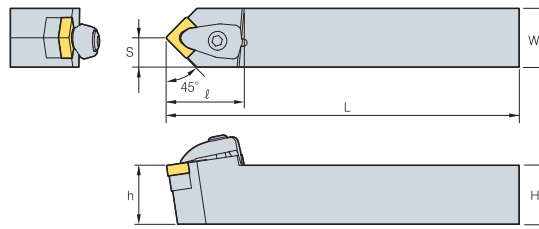
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DSBNR/L 2020-K09	20	20	125	17	20	25	SN□□0903□□						
2525-M09	25	25	150	22	25	25							
2020-K12	20	20	125	17	20	32	SN□□1204□□						
2525-M12	25	25	150	22	25	32							
3225-P12	32	25	170	22	32	32							
3232-P12	32	32	170	27	32	32							
2525-M15	25	25	150	22	25	38	SN□□1506□□						
3225-P15	32	25	170	22	32	38							
3232-P15	32	32	170	27	32	38							
3232-P19	32	32	170	27	32	43	SN□□1906□□						
4040-S19	40	40	250	35	40	43							

Applicable inserts B41~B48



B Double Clamp System

DSDNN



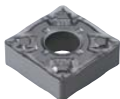
45°

• R type insert
(mm)

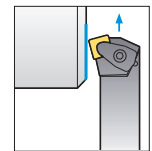
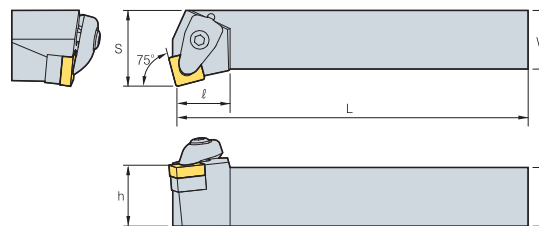
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DSDNN 2020-K09	20	20	125	10	20	26.5	SN□□0903□□	CVH3	CHX0415	SS32V	FTKA0307	SPR0510	HW25P
2020-K12	20	20	125	10	20	33	SN□□1204□□	CVH4	CHX0518	SS44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	12.5	25	33							
3225-P12	32	25	170	12.5	32	33							
3232-P12	32	32	170	16	32	33							
2525-M15	25	25	150	12.5	25	39.4	SN□□1506□□	CVH5	CHX0622	SS54V	FTNA0511	SPR0811	HW25P
3232-P15	32	32	170	16	32	38							
3232-P19	32	32	170	16	32	43	SN□□1906□□	CVH6	CHX0622	SS64V	FTNA0511	SPR0811	HW40L
4040-S19	40	40	250	20	40	45							

Applicable inserts B41~B48

DSKNR/L



SN□□



75°

• R type insert
(mm)

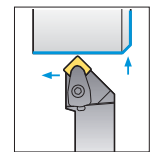
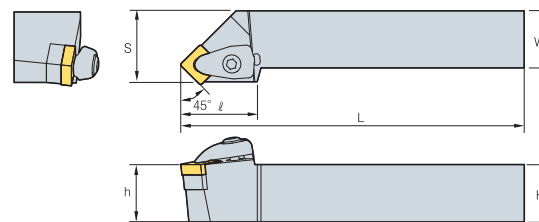
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DSKNR/L 2020-K09	20	20	125	25	20	20	SN□□0903□□	CVH3	CHX0415	SS32V	FTKA0307	SPR0510	HW25P
2020-K12	20	20	125	25	20	23	SN□□1204□□	CVH4	CHX0518	SS44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	32	25	23							
3232-P12	32	32	170	40	32	23							
3232-P15	32	32	170	40	32	28	SN□□1506□□	CVH5	CHX0622	SS54V	FTNA0511	SPR0811	HW40L
3232-P19	32	32	170	40	32	35	SN□□1906□□	CVH6	CHX0622	SC64V	FTNA0511	SPR0811	HW40L
4040-S19	40	40	250	50	40	43							

Applicable inserts B41~B48

DSSNR/L



SN□□



45°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DSSNR/L 2020-K09	20	20	125	25	20	28.5	SN□□0903□□	CVH3	CHX0415	SS32V	FTKA0307	SPR0510	HW25P
2020-K12	20	20	125	25	20	35	SN□□1204□□	CVH4	CHX0518	SS44V	FTKA0410	SPR0714	HW30P
2525-M12	25	25	150	32	25	35							
3225-P12	32	25	170	32	32	35							
3232-P12	32	32	170	40	32	35							
2525-M15	25	25	150	32	25	38.5	SN□□1506□□	CVH5	CHX0622	SS54V	FTNA0511	SPR0811	HW40L
3232-P15	32	32	170	40	32	38.5							
3232-P19	32	32	170	40	32	46	SN□□1906□□	CVH6	CHX0622	SS64V	FTNA0511	SPR0811	HW40L
4040-S19	40	40	250	50	40	46							

Applicable inserts B41~B48



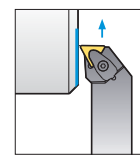
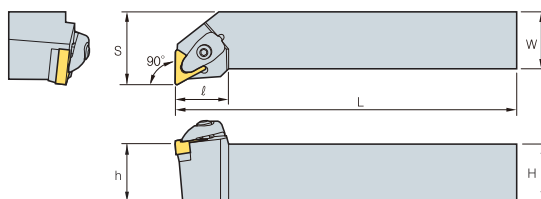
B

Turning

DTFNR/L



TN□□



90°

• R type insert
(mm)

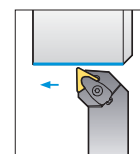
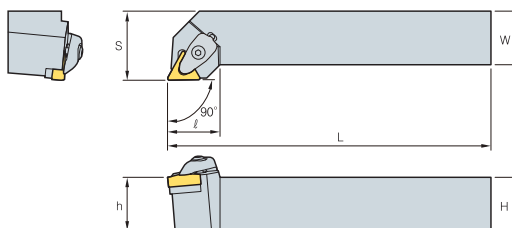
Designation		H	W	L	S	h	ℓ	Insert						
DTFNR/L	2020-K16	20	20	125	25	20	24.5	TN□□1604□□						
	2525-M16	25	25	150	32	25	24.5							
	3232-P16	32	32	170	40	32	23.5							
	2525-M22	25	25	150	32	25	33	TN□□2204□□						
	3225-P22	32	25	170	32	32	33							
	3232-P22	32	32	170	40	32	33							

Applicable inserts B49~B55

DTGNR/L



TN□□



90°

• R type insert
(mm)

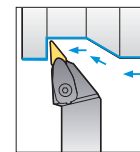
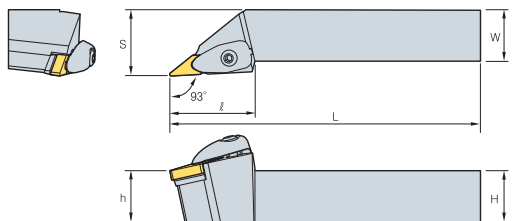
Designation		H	W	L	S	h	ℓ	Insert						
DTGNR/L	2020-K16	20	20	125	25	20	24.5	TN□□1604□□	CVH3	CHX0415	ST32V	FTKA0307	SPR0510	HW25F
	2525-M16	25	25	150	32	25	24.5							
	3232-P16	32	32	170	40	32	24.5							
	2525-M22	25	25	150	32	25	32.6	TN□□2204□□	CVH4	CHX0518	ST44V	FTKA0410	SPR0714	HW30F
	3225-P22	32	25	170	32	32	32.6							
	3232-P22	32	32	170	40	32	32.6							

Applicable inserts B49~B55

DVJNR/L



VN□□



93°

• R type insert
(mm)

Designation		H	W	L	S	h	ℓ	Insert						
DVJNR/L	2020-K16	20	20	125	25	20	41.5	VN□□1604□□						
	2525-M16	25	25	150	32	25	41.5							
	3232-P16	32	32	170	40	32	41.5							

Applicable inserts B56~B57

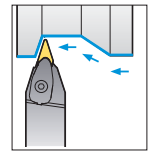
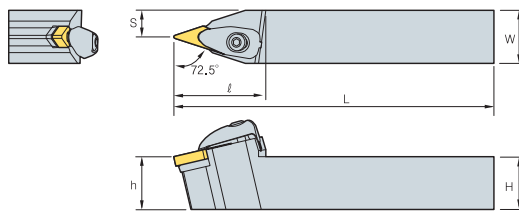


B Double Clamp System

DVVNN



VN□□



72.5°

• R type insert (mm)

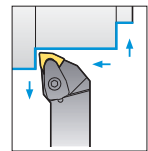
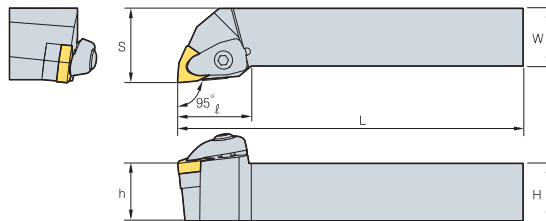
Designation		H	W	L	S	h	ℓ	Insert						
DVVNN	2020-K16	20	20	125	10	20	40	VN□□1604□□						
	2525-M16	25	25	150	12.5	25	40							
	3232-P16	32	32	170	16	32	40							
								CVH3V	CHX0518	SV32V	FTNA03508	SPR0714	HW30P	

Applicable inserts B56~B57

DWLNR/L



WN□□



95°

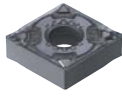
• R type insert (mm)

Designation		H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Wrench
DWLNR/L	2020-K06	20	20	125	25	20	26	WN□□0604□□						
	2525-M06	25	25	150	32	25	26		CVH3	CHX0415	SW32V	FTKA0307	SPR0510	HW25P
	2020-K08	20	20	125	25	20	32	WN□□0804□□						
	2525-M08	25	25	150	32	25	32		CVH4	CHX0518	SW44V	FTKA0410	SPR0714	HW30P

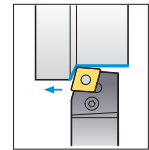
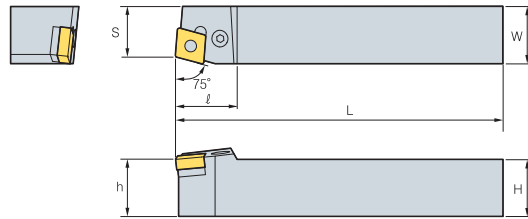
Applicable inserts B58~B61



PCBNR/L



CN□□



75°

• R type insert
(mm)

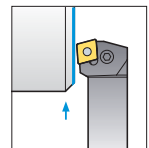
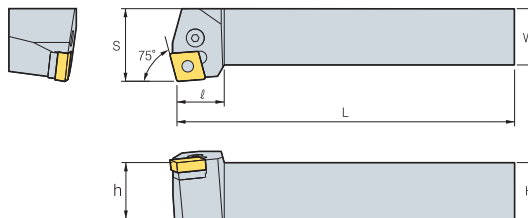
Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PCBNR/L 2020-K12	20	20	125	17	20	27	CN□□ 1204□□	LV4	VHX0821	SC42	SP4	HW30L	LSPS4
2525-M12	25	25	150	22	25	27							
3225-P12	32	25	170	22	32	27							
2525-M16	25	25	150	22	25	33	CN□□ 1606□□	LV5	VHX0825	SC53	SP5	HW30L	LSPS6
3232-P16	32	32	170	27	32	33							
3232-P19	32	32	170	27	32	36	CN□□ 1906□□	LV6N	VHX1027N	SC63N	SP6N	HW40L	LSPS6
4040-S19	40	40	250	35	40	36							
4040-S25	40	40	250	35	40	47	CN□□ 2509□□	LV8N	VHX1236N	SC84N	SP8N	HW50L	LSPS8
4040-S25-5	40	40	250	35	40	47	CN□□ 2507□□						
5050-T25	50	50	300	43	50	47	CN□□ 2509□□						
PCBNR/L 2020-K12N	20	20	125	17	20	27	CN□□ 1204□□	LV4N	VHX0820N	SC42N	SP4N	HW30L	LSPS4
2525-M12N	25	25	150	22	25	27							
3225-P12N	32	25	170	22	32	27							
2525-M16N	25	25	150	22	25	33	CN□□ 1606□□	LV6N	VHX1027N	SC63N	SP6N	HW40L	LSPS8
3232-P16N	32	32	170	27	32	33							
3232-P19N	32	32	170	27	32	36	CN□□ 1906□□	LV6N	VHX1027N	SC63N	SP6N	HW40L	LSPS8
4040-S19N	40	40	250	35	40	38	CNMG190612						

Applicable inserts B26~B32

PCKNR/L



CN□□



95°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PCKNR/L 2020-K12	20	20	125	25	20	27	CN□□ 1204□□	LV4	VHX0821	SC42	SP4	HW30L	LSPS4
2525-M12	25	25	150	32	25	27							
3225-P12	32	25	170	40	32	30							
3232-P16	32	32	170	40	32	26	CN□□ 1606□□	LV5	VHX0825	SC53	SP5	HW30L	HW30L
4040-S16	40	40	250	50	40	25							
PCKNR/L 2020-K12N	20	20	125	25	20	27	CN□□ 1204□□	LV4N	VHX0820N	SC42N	SP4N	HW30L	LSPS4
2525-M12N	25	25	150	32	25	27							
3225-P12N	32	25	170	40	32	30							
3232-P16N	32	32	170	40	32	26	CN□□ 1606□□	LV5N	VHX0820AN	SC53N	SP5N	HW30L	LSPS5
4040-S16N	40	40	250	50	40	25							

Applicable inserts B26~B32

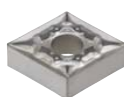


- Improved holders and parts ensure performance and durability
- “N” stand for New type (Holders and parts)

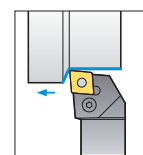
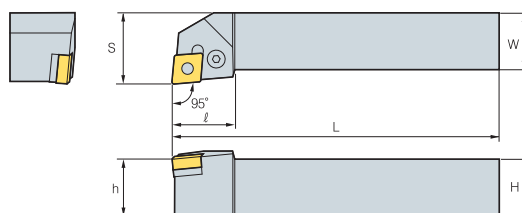


B Lever Lock System

PCLNR/L



CN□□



95°

• R type insert
(mm)

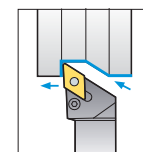
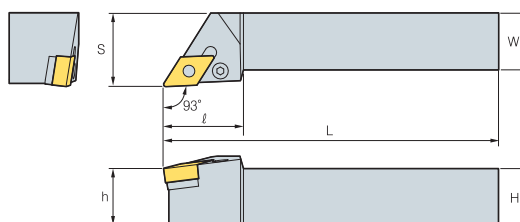
Designation	H	W	L	S	h	l	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PCLNR/L 1616-H09	16	16	100	20	16	20	CN□□ 0903□□	LV3	VHX0617	SC32	SP3	HW25L	LSPS3
2020-K09	20	20	125	25	20	22							
2525-M09	25	25	150	32	25	22							
1616-H12	16	16	100	20	16	28							
2020-K12	20	20	125	25	20	28	CN□□ 1204□□	LV4	VHX0821	SC42	SP4	HW30L	LSPS4
2525-M12	25	25	150	32	25	28							
3225-P12	32	25	170	32	32	28							
3232-P12	32	32	170	40	32	28							
2525-M16	25	25	150	32	25	33	CN□□ 1606□□	LV5	VHX0825	SC53	SP5	HW30L	LSPS5
3232-P16	32	32	170	40	32	33							
2525-M19	25	25	150	32	25	36							
3225-P19	32	25	170	32	32	36							
3232-P19	32	32	170	40	32	36	CN□□ 1906□□	LV6N	VHX1027N	SC63N	SP6N	HW40L	LSPS6
4040-P19	40	40	170	50	40	36							
4040-S19	40	40	250	50	40	36							
4040-S25	40	40	250	50	40	47							
5050-T25	50	50	300	60	50	47	CN□□ 2509□□	LV8N	VHX1236N	SC84N	SP8N	HW50L	LSPS8
4040-S25-5	40	40	250	50	40	47	CN□□ 2507□□	LV8N	VHX1236N	SC84N	SP8N	HW50L	LSPS8
5050-S25-5	50	50	300	60	50	47							
PCLNR/L 1616-H09N	16	16	100	20	16	20	CN□□ 0903□□	LV3N	VHX0617N	SC32N	SP3	HW25L	LSPS3
2020-K09N	20	20	125	25	20	22							
2525-M09N	25	25	150	32	25	22							
1616-H12N	16	16	100	20	16	28							
2020-K12N	20	20	125	25	20	28	CN□□ 1204□□	LV4N	VHX0817N VHX0820N	SC42N	SP4N	HW30L	LSPS4
2525-M12N	25	25	150	32	25	28							
3225-P12N	32	25	170	32	32	28							
3232-P12N	32	32	170	40	32	28							
2525-M16N	25	25	150	32	25	33	CN□□ 1606□□	LV5N	VHX0820AN	SC53N	SP5N	HW30L	LSPS5
3232-P16N	32	32	170	40	32	33							
2525-M19N	25	25	150	32	25	38							
4040-S19N	40	40	250	50	40	36							

Applicable inserts B26~B32

PDJNR/L



DN□□



93°

• R type insert
(mm)

Designation	H	W	L	S	h	l	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PDJNR/L 1616-H11	16	16	100	20	16	25	DN□□ 1104□□	LV3	VHX0617	SD317	SP3	HW25L	LSPS3
2020-K11	20	20	125	25	20	25							
2525-M11	25	25	150	32	25	30							
2020-K15	20	20	125	25	20	35							
2525-M15	25	25	150	32	25	35	DN□□ 1506□□	LV4B	VHX0821	SD42	SP4	HW30L	LSPS4
3225-P15	32	25	170	32	32	35							
3232-P15	32	32	170	40	32	35							
2020-K15-3	20	20	125	25	20	35							
2525-M15-3	25	25	150	32	25	35	DN□□ 1504□□	LV4	VHX0821	SD42	SP4	HW30L	LSPS4
3232-P15-3	32	32	170	40	32	35							

Applicable inserts B33~B39



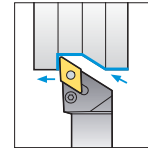
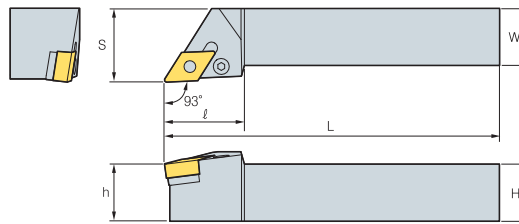
B

Turning

PDJNR/L



DN□□



93°

• R type insert (mm)

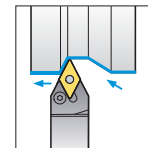
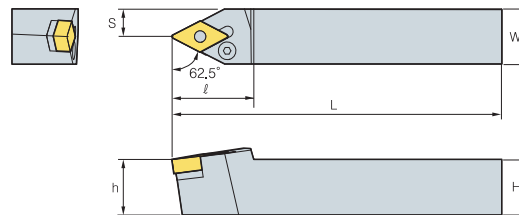
Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PDJNR/L 1616-H11N	16	16	100	20	16	25	DN□□ 1104□□						
2020-K11N	20	20	125	25	20	25							
2525-M11N	25	25	150	32	25	30	DN□□ 1506□□						
2020-K15N	20	20	125	25	20	35							
2525-M15N	25	25	150	32	25	35							
3225-P15N	32	25	170	32	32	35							
3232-P15N	32	32	170	40	32	35	DN□□ 1504□□						
2020-K15-3N	20	20	125	25	20	35							
2525-M15-3N	25	25	150	32	25	35							
3232-P15-3N	32	32	170	40	32	35							

Applicable inserts B33~B39

PDNNR/L



DN□□



62.5°

• R type insert (mm)

Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PDNNR/L 2020-K15	20	20	125	8	20	37	DN□□ 1506□□						
2525-M15	25	25	150	12.5	25	37							
3232-P15	32	32	150	16	32	37							
4025-M15	40	25	170	12.5	32	37							
2525-M15-3	25	25	150	12.5	25	37	DN□□ 1504□□						
4025-M15-3	40	25	150	12.5	25	37							
PDNNR/L 2020-K15N	20	20	125	8	20	37	DN□□ 1506□□						
2525-M15N	25	25	150	12.5	25	37							
3232-P15N	32	32	170	16	32	37	DN□□ 1504□□						
2525-M15-3N	25	25	150	12.5	25	37							
3232-P15-3N	32	32	170	16	32	37							

Applicable inserts B33~B39

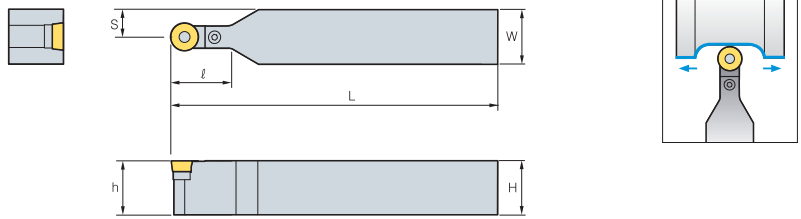


B Lever Lock System

PRDCN



RCMX



(mm)

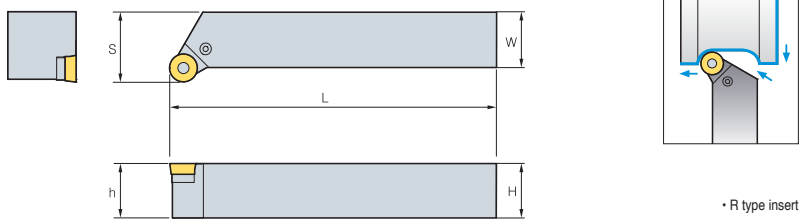
Designation		H	W	L	S	h	ℓ	Insert						
PRDCN	2020-M10	20	20	150	15	20	24	RCMX 1003M0	LR10	VHX0514	SR10	SP3	HW20L	LSPS3
	2525-M10	25	25	150	17.5	25	24							
	2525-M12	25	25	150	18.5	25	24	RCMX 1204M0	LR12	VHX0617	SR12	SP3	HW25L	LSPS3
	2020-K12	20	20	125	16	20	24							
	3225-Q12	32	25	180	18.5	32	24	RCMX 1606M0	LR16	VHX0621	SR16	SP4	HW25L	LSPS4
	2525-Q16	25	25	180	20.5	25	30							
	3225-Q16	32	25	180	20.5	32	30							
	3232-Q16	32	32	180	24	32	35							
	3232-Q20	32	32	180	26	32	40	RCMX 2006M0	LR20	VHX0823	SR20	SP20	HW30L	LSPS5
	4040-S25	40	40	250	32.5	40	42	RCMX 2507M0	LR25	VHX1030	SR25	SP6N	HW40L	LSPS6
	4040-T25	40	40	300	32.5	40	42							
	5050-U32	50	50	350	41	50	52	RCMX 3209M0	LR32	VHX1236	SR32	SP8N	HW50L	LSPS8

Applicable inserts B70

PRGCR/L



RCMX



• R type insert
(mm)

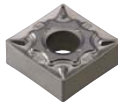
Designation		H	W	L	S	h	Insert						
PRGCR/L	2020-K10	20	20	125	25	20	RCMX 1003M0	LR10	VHX0514	SR10	SP3	HW20L	LSPS3
	2525-M10	25	25	150	32	25							
	2020-K12	20	20	125	25	20	RCMX 1204M0	LR12	VHX0617	SR12	SP3	HW25L	LSPS3
	2525-M12	25	25	150	32	25							
	3225-P12	32	25	170	32	32	RCMX 1606M0	LR16	VHX0621	SR16	SP4	HW25L	LSPS4
	2525-M16	25	25	150	32	25							
	3225-P16	32	25	170	32	32							
	3232-P20	32	32	170	40	32	RCMX 2006M0	LR20	VHX0823	SR20	SP5-1	HW30L	LSPS5
	4040-S25	40	40	250	50	40	RCMX 2507M0	LR25	VHX1030	SR25	SP6N	HW40L	LSPS6

Applicable inserts B70

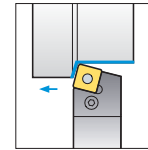
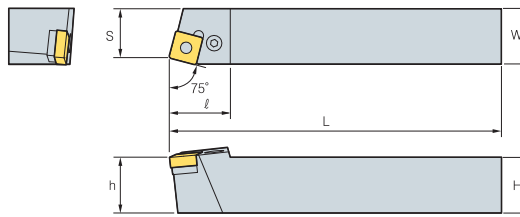


B Turning

PSBNR/L



SN□□



75°

• R type insert
(mm)

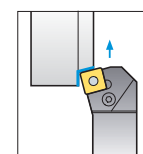
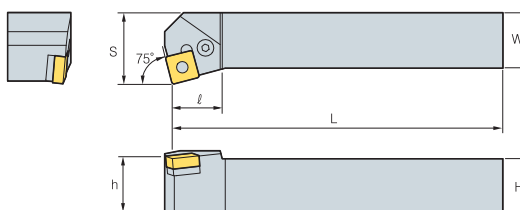
Designation		H	W	L	S	h	ℓ	Insert						
PSBNR/L	1616-H09	16	16	100	13	16	21	SN□□ 0903□□	LV3	VHX0617	SS32	SP3	HW25L	LSPS3
	2020-K09	20	20	125	17	20	23							
	2020-K12	20	20	125	17	20	28							
	2525-M12	25	25	150	22	25	28	SN□□ 1204□□	LV4	VHX0821	SS42	SP4	HW30L	LSPS4
	3225-P12	32	25	170	22	32	28							
	3232-P12	32	32	170	27	32	28							
	2525-M15	25	25	150	22	25	35	SN□□ 1506□□	LV5	VHX0825	SS53	SP5	HW30L	LSPS5
	3232-P15	32	32	170	27	32	35							
	3232-P19	32	32	170	27	32	40							
	4040-S19	40	40	250	35	40	40	SN□□ 1906□□	LV6N	VHX1027N	SS63N	SP6N	HW40L	LSPS6
	4040-S25	40	40	250	35	40	50							
	4040-S25-6	40	40	250	35	40	50							
5050-T25	50	50	300	43	50	50	SN□□ 2507□□	LV8N	VHX1236N	SS84N	SP8N	HW50L	LSPS8	
5050-T25-6	50	50	300	43	50	46	CNMG250924	LV8N	VHX1026N	SS84N	SP8N	HW50L	LSPS8	
PSBNR/L	1616-H09N	16	16	100	13	16	21	SN□□ 0903□□	LV3N	VHX0617N	SS32N	SP3	HW25L	LSPS3
	2020-K09N	20	20	125	17	20	23							
	2020-K12N	20	20	125	17	20	28							
	2525-M12N	25	25	150	22	25	28	SN□□ 1204□□	LV4N	VHX0820N	SS42N	SP4N	HW30L	LSPS4
	3225-P12N	32	25	150	22	25	28							
	3232-P12N	32	32	170	27	32	28							
	2525-M15N	25	25	150	22	25	35	SN□□ 1506□□	LV5N	VHX0820AN	SS53N	SP5N	HW30L	LSPS5
	3232-P15N	32	32	170	27	32	35							

B Lever Lock System

PSKNR/L



SN□□



75°

• R type insert
(mm)

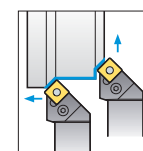
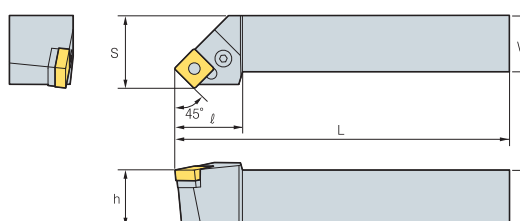
Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PSKNR/L 1616-H09	16	16	100	20	16	17	SN□□0903□□	LV3	VHX0617	SS32	SP3	HW25L	LSPS3
2020-K09	20	20	125	25	20	20							
2020-K12	20	20	125	25	20	23							
2525-M12	25	25	150	32	25	23	SN□□1204□□	LV4	VHX0821	SS42	SP4	HW30L	LSPS4
3232-P12	32	32	170	40	32	23							
2525-M15	25	25	150	32	25	28							
3232-P15	32	32	170	40	32	28	SN□□1506□□	LV5	VHX0825	SS53	SP5	HW30L	LSPS5
3232-P19	32	32	170	40	32	41.5							
4040-S19	40	40	250	50	40	41.5							
4040-S25	40	40	250	50	40	46	SN□□2507□□	LV8N	VHX1236N	SS84N	SP8N	HW50L	LSPS8
4040-S25-6	40	40	250	50	40	46							
5050-T25-6	50	50	300	60	50	37.5							
PSKNR/L 1616-H09N	16	16	100	20	16	17	SN□□0903□□	LV3N	VHX0617N	SS32N	SP3	HW25L	LSPS3
2020-K09N	20	20	125	25	20	20							
2020-K12N	20	20	125	25	20	26							
2525-M12N	25	25	150	32	25	26	SN□□1204□□	LV4N	VHX0820N	SS42N	SP4N	HW30L	LSPS4
3232-P12N	32	32	170	40	32	26							
2525-M15N	25	25	150	32	25	32							
3232-P15N	32	32	170	40	32	32	SN□□1506□□	LV5N	VHX0820AN	SS53N	SP5N	HW30L	LSPS5

Applicable inserts B41~B48

PSSNR/L



SN□□



45°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PSSNR/L 1616-H09	16	16	100	20	16	25	SN□□0903□□	LV3	VHX0617	SS32	SP3	HW25L	LSPS3
2020-K12	20	20	125	25	20	30							
2525-M12	25	25	150	32	25	36							
3232-P12	32	32	170	40	32	40	SN□□1204□□	LV4	VHX0821	SS42	SP4	HW30L	LSPS4
2525-M15	25	25	150	32	25	36							
3232-P15	32	32	170	40	32	45							
2525-M15N	25	25	150	32	25	36	SN□□1506□□	LV5	VHX0825	SS53	SP5	HW30L	LSPS5
3232-P15	32	32	170	40	32	45							
4040-R19	40	40	200	50	40	41.5							
4040-S19	40	40	250	50	40	41.5	SN□□1906□□	LV6N	VHX1027N	SS63N	SP6N	HW40L	LSPS6
4040-S25	40	40	250	50	40	48							
4040-S25-6	40	40	250	50	40	48							
							SN□□2507□□	LV8N	VHX1236N	SS84N	SP8N	HW50L	LSPS8
PSSNR/L 1616-H09N	16	16	100	20	16	25	SN□□0903□□	LV3N	VHX0617N	SS32N	SP3	HW25L	LSPS3
2020-K12N	20	20	125	25	20	30							
2525-M12N	25	25	150	32	25	36							
3232-P12N	32	32	170	40	32	45	SN□□1204□□	LV4N	VHX0821N	SS42N	SP4N	HW30L	LSPS4
2525-M15N	25	25	150	32	25	36							
3232-P15N	32	32	170	40	32	45							
							SN□□1506□□	LV5N	VHX08209N	SS53N	SP5N	HW30L	LSPS5

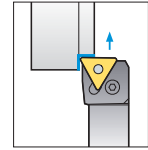
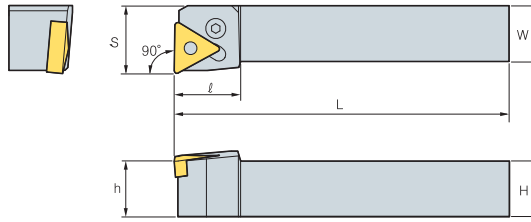
Applicable inserts B41~B48



PTFNR/L



TN□□



90°

• R type insert
(mm)

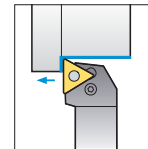
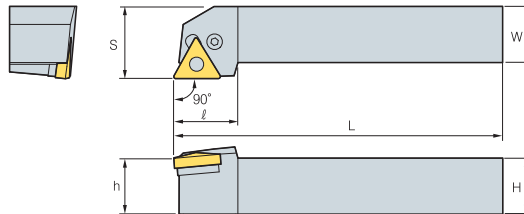
Designation	H	W	L	S	h	l	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PTFNR/L 1616-H16	16	16	100	20	16	20	TN□□1604□□	LV3	VHX0617	ST317	SP3	HW25L	LSPS3
2020-K16	20	20	125	25	20	20							
2525-M16	25	25	150	32	25	20	TN□□2204□□	LV4	VHX0821	ST42	SP4	HW30L	LSPS4
2525-M22	25	25	150	32	25	25							
3232-P22	32	32	170	40	32	25	TN□□2706□□	LV5	VHX0825	ST53	SP5	HW30L	LSPS5
3232-P27	32	32	170	40	32	34							
4040-S27	40	40	250	50	40	34							
PTFNR/L 1616-H16N	16	16	100	20	16	20	TN□□1604□□	LV3N	VHX0617N	ST317N	SP3	HW25L	LSPS3
2020-K16N	20	20	125	25	20	20							
2525-M16N	25	25	150	32	25	20	TN□□2204□□	LV4N	VHX0820N	ST42N	SP4N	HW30L	LSPS4
2525-M22N	25	25	150	32	25	25							
3232-P22N	32	32	170	40	32	25	TN□□2706□□	LV5AN	VHX0823N	ST53N	SP5N	HW30L	LSPS5
3232-P27N	32	32	170	40	32	34							
4040-S27N	40	40	250	50	40	34							

Applicable inserts B49~B55

PTGNR/L



TN□□



90°

• R type insert
(mm)

Designation	H	W	L	S	h	l	Insert	Lever	Screw	Shim	Shim Pin	Wrench	Shim Pin Punch
PTGNR/L 1212-F11	12	12	80	16	12	16	TN□□1103□□	LV2	VHX0509B	-	-	HW20L	-
1616-H11	16	16	100	20	16	18							
2020-K11	20	20	125	25	20	19							
2525-M11	25	25	150	32	25	20	TN□□1604□□	LV3	VHX0617	ST317	SP3	HW25L	LSPS3
1616-H16	16	16	100	20	16	20							
2020-K16	20	20	125	25	20	20							
2525-M16	25	25	150	32	25	20	TN□□2204□□	LV4	VHX0821	ST42	SP4	HW30L	LSPS4
2525-M22	25	25	150	32	25	28							
3232-P16	32	32	170	40	32	20							
2525-M22	25	25	150	32	25	28	TN□□2706□□	LV5	VHX0825	ST53	SP5	HW30L	LSPS5
3232-P22	32	32	170	40	32	28							
3232-P27	32	32	170	40	32	33							
4040-S27	40	40	250	50	40	33							
PTGNR/L 1616-H16N	16	16	100	20	16	20	TN□□1604□□	LV3N	VHX0617N	ST317N	SP3N	HW25L	LSPS3
2020-K16N	20	20	125	25	20	20							
2525-M16N	25	25	150	32	25	20							
3232-P16N	32	32	170	40	32	20	TN□□2204□□	LV4N	VHX0820N	ST42N	SP4N	HW30L	LSPS4
2525-M22N	25	25	150	32	25	28							
3232-P22N	32	32	170	40	32	28							
3232-P27N	32	32	170	40	32	33	TN□□2706□□	LV5AN	VHX0823N	ST53N	SP5N	HW30L	LSPS5
4040-S27N	40	40	250	50	40	33							

Applicable inserts B49~B55

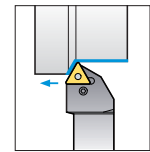
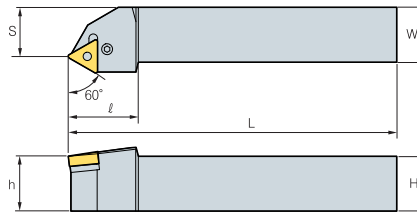


B Lever Lock System

PTTNR/L



TN□□



60°

• R type insert
(mm)

Designation		H	W	L	S	h	ℓ	Insert						
PTTNR/L	1616-H16	16	16	100	13	16	25	TN□□1604□□	LV3	VHX0617	ST317	SP3	HW25L	LSPS3
	2020-K16	20	20	125	17	20	25							
	2525-M16	25	25	150	22	25	32							
	2525-M22	25	25	150	22	25	32	TN□□2204□□	LV4	VHX0821	ST42	SP4	HW30L	LSPS4
PTTNR/L	1616-H16N	16	16	100	13	16	25	TN□□1604□□	LV3N	VHX0617N	ST317N	SP3	HW25L	LSPS3
	2020-K16N	20	20	125	17	20	25							
	2525-M16N	25	25	150	22	25	32							
	2525-M22N	25	25	150	22	25	32	TN□□2204□□	LV4N	VHX0820N	ST42N	SP4N	HW30L	LSPS4

Applicable inserts B49~B55

PWLNR/L



WN□□

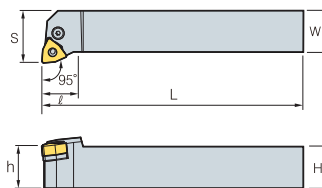


Fig.1

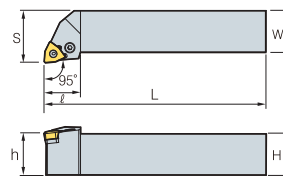
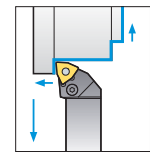


Fig.2



95°

• R type insert
(mm)

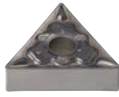
Designation		H	W	L	S	h	ℓ	Insert							Fig.
PWLNR/L	1616-H06	16	16	100	20	16	20	WN□□0604□□							1
	2020-K06	20	20	125	25	20	20								
	2525-M06	25	25	150	32	25	20								
	2020-K08	20	20	125	25	20	26	WN□□0804□□							2
	2525-M08	25	25	150	32	25	26								
PWLNR/L	1616-H06N	16	16	100	20	16	20	WN□□0604□□							1
	2020-K06N	20	20	125	25	20	20								
	2525-M06N	25	25	150	32	25	20								
	2020-K08N	20	20	125	25	20	26	WN□□0804□□							2
	2525-M08N	25	25	150	32	25	26								

Applicable inserts B58~B61

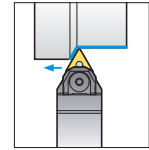
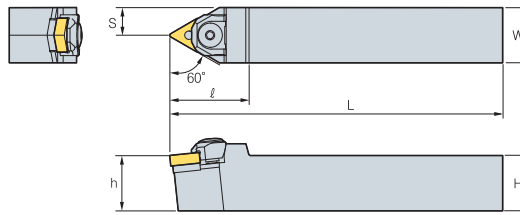


B Turning

WTENN



TN□□



60°

• R type insert (mm)

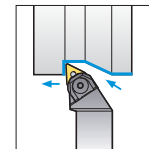
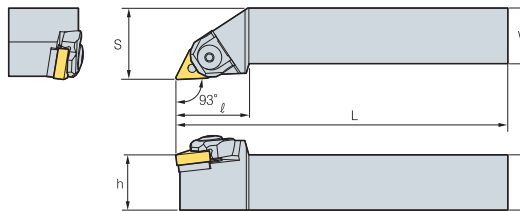
Designation		H	W	L	S	h	ℓ	Insert							
WTENN	2020-K16	20	20	125	10	20	36	TN□□1604□□					SP3M-1		
	2525-M16	25	25	150	12.5	25	36						SP3M		
	2525-M22	25	25	150	12.5	25	42	TN□□2204□□							
	3232-P22	32	32	170	16	32	42								

Applicable inserts B49~B55

WTJNR/L



TN□□



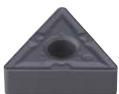
93°

• R type insert (mm)

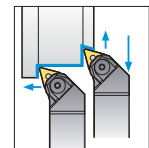
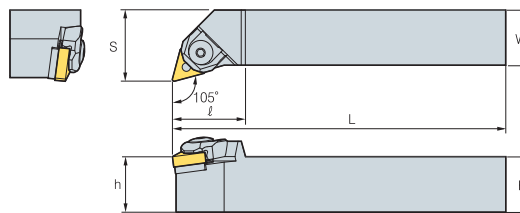
Designation		H	W	L	S	h	ℓ	Insert							
WTJNR/L	2020-K16	20	20	125	25	20	33	TN□□1604□□					 SP3M		
	2525-M16	25	25	150	32	25	33								
	3232-P16	32	32	170	40	32	33								
	2525-M22	25	25	150	32	25	35	TN□□2204□□							
	3232-P22	32	32	170	40	32	35								

Applicable inserts B49~B55

WTXNR/L



TN□□



105°

• R type insert (mm)

Designation		H	W	L	S	h	ℓ	Insert								
WTXNR/L	2020-K16	20	20	125	25	20	30	TN□□1604□□								
	2525-M16	25	25	150	32	25	33									
	3232-P16	32	32	170	40	32	33									

Applicable inserts B49~B55

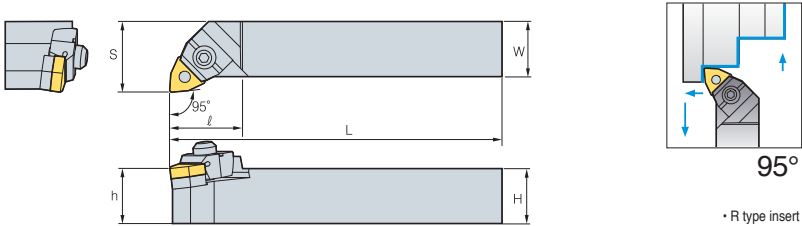


B Wedge Clamp System

WWLNR/L



WN□□



• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Wedge Clamp	Screw	Stopper Ring	Shim	Shim Pin	Nut	Wrench
WWLNR/L 2020-K08	20	20	125	25	20	32	WN□□0804□□	CMH6R/L3	MHX0630	CR05	SW43M	SP2M	N0508	HW30L
2525-M08	25	25	150	32	25	33		CMH6R2				SP4M		
3232-P08	32	32	170	40	32	33		CMH6R2						

⌚ Applicable inserts B58~B61

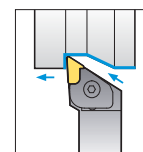
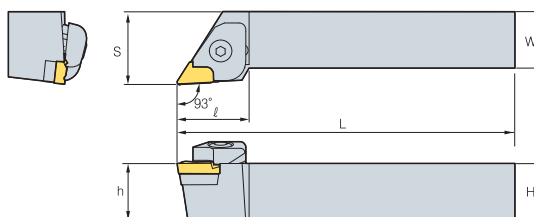


B Turning

CKJNR/L



KN□□



93°

• R type insert (mm)

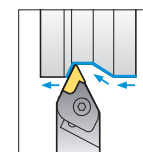
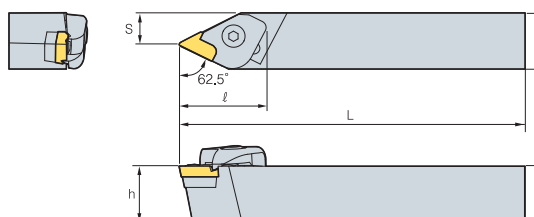
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Spring	Shim	Pin + Spring	Shim Screw	Wrench
CKJNR 2020-K16	20	20	125	25	20	32	KN□□1604□□R							
2525-M16	25	25	150	32	25	32								
3225-M16	32	25	150	32	32	32								
3225-P16	32	25	170	32	32	32								
3232-P16	32	32	170	40	32	32								
4040-R16	40	40	200	50	40	32								
CKJNL 2020-K16	20	20	125	25	20	32	KN□□1604□□L							
2525-M16	25	25	150	32	25	32								
3232-P16	32	32	170	40	32	32								
4040-R16	40	40	200	50	40	32								

Applicable inserts **B40**

CKNNR/L



KN□□



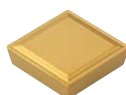
62.5°

• R type insert (mm)

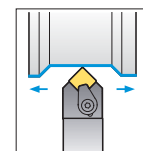
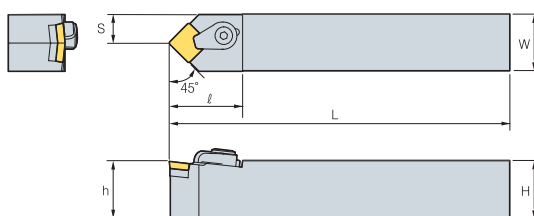
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Spring	Shim	Pin + Spring	Shim Screw	Wrench
CKNNR 2525-M16	25	25	150	14.3	25	37	KN□□1604□□R							
3232-P16	32	32	170	16.8	32	37								
CKNNL 2525-M16	25	25	150	14.3	25	37	KN□□1604□□L							
3232-P16	32	32	170	16.8	32	37								

Applicable inserts **B40**

CSDPN



SP□R



45°

• R type insert (mm)

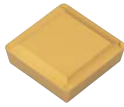
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	C-Ring	Wrench
CSDPN 1616-H09	16	16	100	8	16	30	SP□R0903□□						
2525-M12	25	25	150	12.5	25	35	SP□R1203□□						

Applicable inserts **B72~B73**

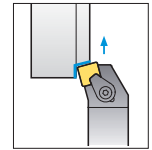
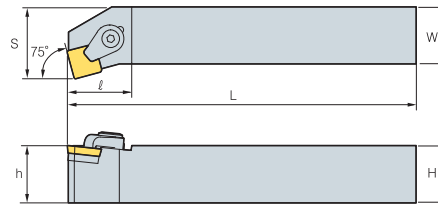


B Clamp on System

CSKPR/L



SP□R



75°

• R type insert (mm)

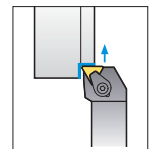
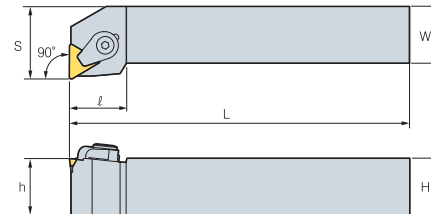
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	C-Ring	Wrench
CSKPR/L 2525-M12	25	25	150	32	20	32	SP□R1203□□	CH6R5	CHX0414C	SS42C	SP3C	CR04C	HW30L

Applicable inserts B72~B73

CTFPR/L



TP□R



90°

• R type insert (mm)

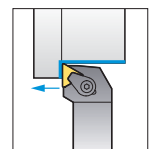
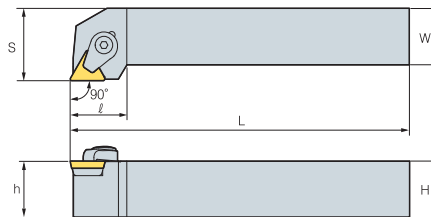
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	C-Ring	Wrench
CTFPR/L 2020-K16	25	25	125	25	20	32	TP□R1603□□	CH6R5	CHX0622C	ST32C	SP3C	CR04C	HW30L
2525-M16	25	25	150	32	25	32							

Applicable inserts B77~B79

CTGPR/L



TP□R



90°

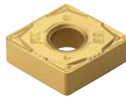
• R type insert (mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	C-Ring	Wrench
CTGPR/L 1212-F11	12	12	80	16	12	20	TP□R1103□□	CH53R1	CHX0515C	-	-	CR03C	HW25L
1616-H11	16	16	100	20	16	20							
2020-K11	20	20	125	25	20	20							
2020-K16	20	20	125	25	20	25	TP□R1603□□	CH6R5	CHX0622C	ST32C	SP3C	CR04C	HW30L
2525-M16	25	25	150	32	25	25							
2525-M22	25	25	150	32	25	32							
3232-P22	32	32	170	40	32	32	TP□R2204□□	CH83R1	CHX0823C	ST43C	SP4C	CR05C	HW40L

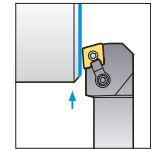
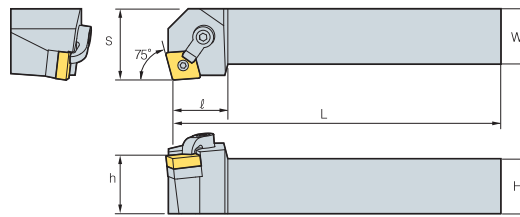
Applicable inserts B77~B79



MCKNR/L



CN□□



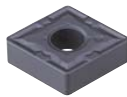
75°

• R type insert
(mm)

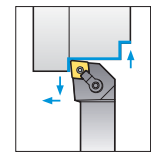
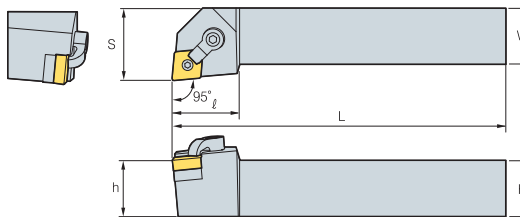
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MCKNR/L 2020-K12	20	20	125	25	20	32	CN□□1204□□					
2525-M12	25	25	150	32	25	32						
3232-P12	32	32	170	40	32	32						
								CDH6N	DHA1/4-25	SC43D	SP4D	HW31.8L HW23.8L

Applicable inserts B26~B32

MCLNR/L



CN□□



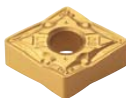
95°

• R type insert
(mm)

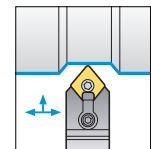
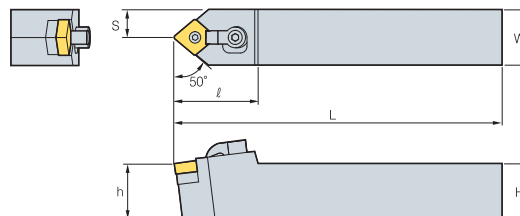
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MCLNR/L 1616-H09	16	16	100	20	16	25	CN□□0903□□					
2020-K09	20	20	125	25	20	25						
2525-M09	25	25	150	32	25	25						
2020-K12	20	20	125	25	20	32	CN□□1204□□					
2525-M12	25	25	150	32	25	32						
3225-P12	32	25	170	32	32	32						
3232-P12	32	32	170	40	32	32	CN□□1606□□					
2525-M16	25	25	150	32	25	33						
3232-P16	32	32	170	40	32	33						
4040-S16	40	40	250	50	40	33	CN□□1906□□					
2525-M19	25	25	150	32	25	38						
3232-P19	32	32	170	40	32	38						
4040-S19	40	40	250	50	40	38	CN□□2507□□					
4040-S25	40	40	250	50	40	38						
								CDH7N	DHA10-32-19	SC32D	SP3DS	HW23.8L HW19.8L
								CDH6N	DHA1/4-25	SC43D	SP4D	HW31.8L HW23.8L
								CDH8N	DHA5/16-32	SC53D	SP5D	HW39.7L HW31.8L
								CDH8N	DHA5/16-32	SC63D	SP6D	HW39.7L HW35.7L
								CDH8N3	DHA3/8-35	SC84D	SP8D	HW39.7L HW47.6L

Applicable inserts B26~B32

MCMNN



CN□□



50°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MCMNN 2020-K12	20	20	125	10	20	32	CN□□1204□□					
2525-M12	25	25	150	12.5	25	32						
3232-P12	32	32	170	16	32	32						
2525-M16	25	25	150	12.5	25	40	CN□□1606□□					
3232-P16	32	32	170	16	32	40						
3232-P19	32	32	170	16	32	40	CN□□1906□□					
4040-S19	40	40	250	20	40	32						
								CDH6N	DHA1/4-25	SC43D	SP4D	HW31.8L HW23.8L
								CDH8N	DHA5/16-32	SC53D	SP5D	HW39.7L HW31.8L
								CDH8N	DHA5/16-32	SD63D	SP6D	HW39.7L HW35.7L

Applicable inserts B26~B32



Turning

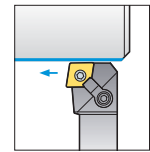
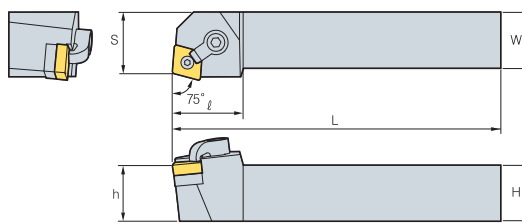
B

B Multi Lock System

MCRNR/L



CN□□



75°

• R type insert
(mm)

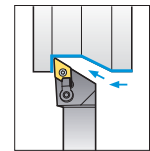
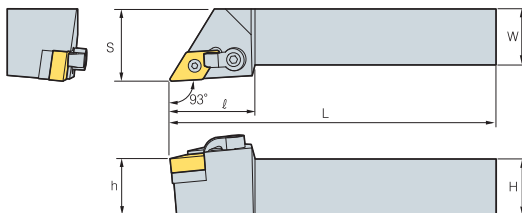
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MCRNR/L 2020-K12	20	20	125	22	20	32	CN□□1204□□	CDH8N1	DHA5/16-32	SC43D	SP4D	HW39.7L HW23.8L
2525-M12	25	25	150	27	25	32	CN□□1204□□	CDH8N1	DHA5/16-32	SC43D	SP4D	HW39.7L HW23.8L
2525-M16	25	25	150	27	25	33	CN□□1606□□	CDH8N1	DHA5/16-32	SC53D	SP5D	HW39.7L HW31.8L
3232-P16	32	32	170	35	32	33	CN□□1606□□	CDH8N1	DHA5/16-32	SC53D	SP5D	HW39.7L HW31.8L
3232-P19	32	32	170	35	32	38	CN□□1906□□	CDH8N1	DHA5/16-32	SC63D	SP6D	HW39.7L HW35.7L
4040-S19	40	40	250	43	40	38	CN□□1906□□	CDH8N1	DHA5/16-32	SC63D	SP6D	HW39.7L HW35.7L

Applicable inserts B26~B32

MDJNR/L



DN□□



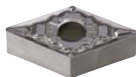
93°

• R type insert
(mm)

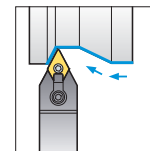
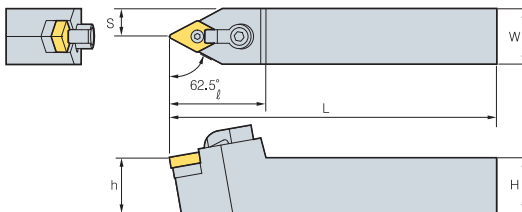
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MDJNR/L 2020-K11	20	20	125	25	20	32	DN□□1204□□	CDH6N	DHA1/4-19	SD32D	SP3D	HW31.8L HW19.8L
2525-M11	25	25	150	32	25	32	DN□□1204□□	CDH6N	DHA1/4-19	SD32D	SP3D	HW31.8L HW19.8L
2020-K15-3	20	20	125	25	20	36	DN□□1504□□	CDH6N	DHA1/4-25	SD43D	SP4D	HW31.8L HW23.8L
2525-M15-3	25	25	150	32	25	36	DN□□1504□□	CDH6N	DHA1/4-25	SD43D	SP4D	HW31.8L HW23.8L
3232-P15-3	32	32	170	40	32	36	DN□□1504□□	CDH6N	DHA1/4-25	SD43D	SP4D	HW31.8L HW23.8L
2020-K15	20	20	125	25	20	36	DN□□1506□□	CDH6N	DHA1/4-25	SD43D	SP4DL	HW31.8L HW23.8L
2525-M15	25	25	150	32	25	36	DN□□1506□□	CDH6N	DHA1/4-25	SD43D	SP4DL	HW31.8L HW23.8L
3232-P15	32	32	170	40	32	36	DN□□1506□□	CDH6N	DHA1/4-25	SD43D	SP4DL	HW31.8L HW23.8L

Applicable inserts B33~B39

MDNNN



DN□□



62.5°

(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MDNNN 2525-M15-3	25	25	150	12.5	25	41	DN□□1504□□	CDH8N	DHA5/16-32	SD43D	SP4D	HW39.7L HW23.8L
2525-M15	25	25	150	12.5	25	41	DN□□1506□□	CDH8N	DHA5/16-32	SD43D	SP4DL	HW39.7L HW23.8L

Applicable inserts B33~B39

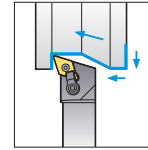
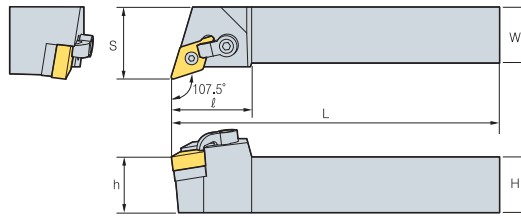


B Turning

MDQNR/L



DN□□



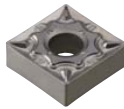
107.5°

• R type insert
(mm)

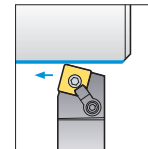
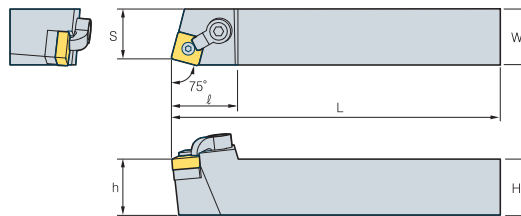
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MDQNR/L 2525-M15-3	25	25	150	32	25	36	DN□□1504□□	CDH6N	DHA1/4-25	SD43D	SP4D	HW31.8L HW23.8L
3232-P15-3	32	32	170	40	32	36						
2525-M15	25	25	150	32	25	36	DN□□1506□□	CDH6N	DHA1/4-25	SD43D	SP4DL	HW31.8L HW23.8L
3232-M15	32	32	170	40	32	36						

Applicable inserts B33~B39

MSBNR/L



SN□□



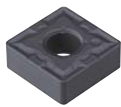
75°

• R type insert
(mm)

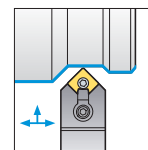
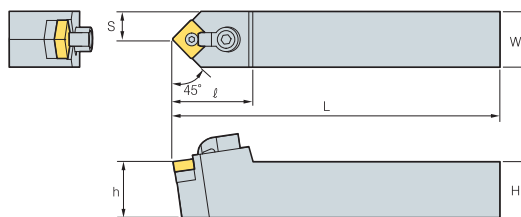
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MSBNR/L 2020-K12	20	20	125	17	20	32	SN□□1204□□	CDH8N1	DHA5/16-32	SS43D	SP4D	HW39.7L HW23.8L
2525-M12	25	25	150	22	25	32						
2525-M15	25	25	150	22	25	35	SN□□1506□□	CDH8N	DHA5/16-32	SS53D	SP5D	HW39.7L HW31.8L
3232-P15	32	32	170	22	32	35						
3232-P19	32	32	170	27	32	40	SN□□1906□□	CDH8N	DHA5/16-32	SS63D	SP6D	HW39.7L HW35.7L
4040-S19	40	40	250	35	40	40						

Applicable inserts B41~B48

MSDNN



SN□□



45°

(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MSDNN 1616-H09	16	16	100	8	16	28	SN□□0903□□	CDH7N	DHA10-32-19	SS32D	SP3DS	HW19.8L HW23.8L
2020-K09	20	20	125	10	20	28						
2020-K12	20	20	125	10	20	32	SN□□1204□□	CDH8N1	DHA5/16-32	SS43D	SP4D	HW39.7L HW23.8L
2525-M12	25	25	150	12.5	25	32						
3225-P12	32	25	170	12.5	32	32	SN□□1506□□	CDH8N	DHA5/16-32	SS53D	SP5D	HW39.7L HW31.8L
2525-M15	25	25	150	12.5	25	35						
3225-P15	32	25	170	12.5	32	35						
3232-P15	32	32	170	16	32	35						
4040-S15	40	40	250	20	40	35	SN□□1906□□	CDH8N	DHA5/16-32	SS63D	SP6D	HW39.7L HW35.7L
3232-P19	32	32	170	16	32	42						
4040-S19	40	40	250	20	40	42						

Applicable inserts B41~B48



Turning

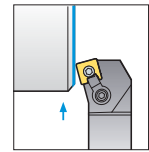
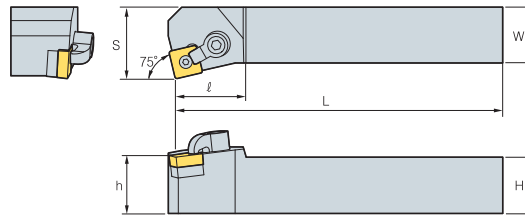
B

B Multi Lock System

MSKNR/L



SN□□



75°

• R type insert
(mm)

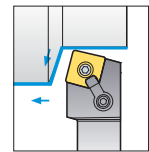
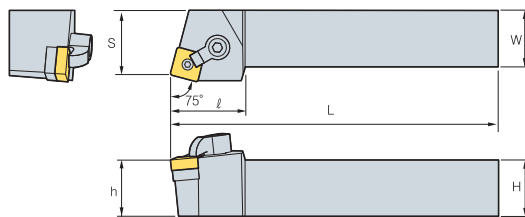
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MSKNR/L 1616-H09	16	16	100	20	16	28	SN□□0903□□	CDH7N	DHA10-32-19	SS32D	SP3DS	HW19.8L HW23.8L
2020-K09	20	20	125	22	20	28						
2020-K12	20	20	125	25	20	32						
2525-M12	25	25	150	32	25	32						
3225-P12	32	25	170	32	32	32	SN□□1204□□	CDH8N1	DHA5/16-32	SS43D	SP4D	HW39.7L HW23.8L
2525-M15	25	25	150	32	25	35						
3232-P15	32	32	170	40	32	35						
3232-P19	32	32	170	40	32	40	SN□□1906□□	CDH8N	DHA5/16-32	SS63D	SP6D	HW39.7L HW35.7L
4040-S19	40	40	250	50	40	40						
4040-S25	40	40	250	50	40	40	SN□□2507□□	CDH8N3	DHA3/8-35	SS84D	SP8D	HW47.6L HW39.7L

➔ Applicable inserts B41~B48

MSRNR/L



SN□□



75°

• R type insert
(mm)

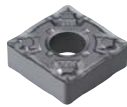
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MSRNR/L 1616-H09	16	16	100	17	16	28	SN□□0903□□	CDH7N	DHA10-32-19	SS32D	SP3DS	HW19.8L HW23.8L
2020-K09	20	20	125	22	20	28						
2020-K12	20	20	125	22	20	32						
2525-M12	25	25	150	27	25	32						
2525-M15	25	25	150	27	25	35	SN□□1506□□	CDH8N	DHA5/16-32	SS53D	SP5D	HW39.7L HW31.8L
3232-P15	32	32	170	35	32	35						
3225-P19	32	25	170	27	32	40						
3232-P19	32	32	170	35	32	40	SN□□1906□□	CDH8N	DHA5/16-32	SS63D	SP6D	HW39.7L HW35.7L
4040-S19	40	40	250	43	40	40						
4040-S25	40	40	250	43	40	40	SN□□2507□□	CDH8N3	DHA3/8-35	SS84D	SP8D	HW47.6L HW39.7L

➔ Applicable inserts B41~B48

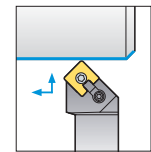
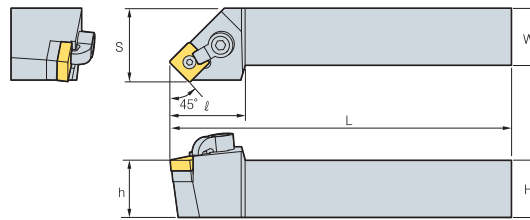


B Turning

MSSNR/L



SN□□



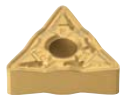
45°

• R type insert
(mm)

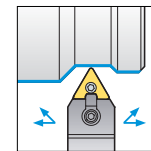
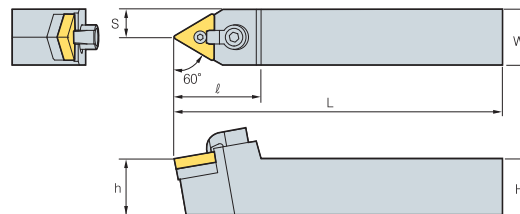
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MSSNR/L 1616-H09	16	16	100	20	16	28	SN□□0903□□	CDH7N	DHA10-32-19	SS32D	SP3DS	HW19.8L HW23.8L
2020-K09	20	20	125	25	20	28						
2020-K12	20	20	125	25	20	32						
2525-M12	25	25	150	32	25	32	SN□□1204□□	CDH8N1	DHA5/16-32	SS43D	SP4D	HW39.7L HW23.8L
2525-M15	25	25	150	32	25	35						
3232-P15	32	32	170	40	32	35						
3232-P19	32	32	170	40	32	40	SN□□1506□□	CDH8N1	DHA5/16-32	SS53D	SP5D	HW39.7L HW31.8L
4040-S19	40	40	250	50	40	40						
							SN□□1906□□	CDH8N1	DHA5/16-32	SS63D	SP6D	HW39.7L HW35.7L

Applicable inserts B41~B48

MTENN



TN□□



60°

(mm)

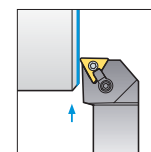
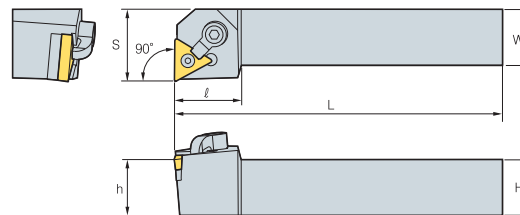
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MTENN 2020-K16	20	20	125	10	20	32	TN□□1604□□	CDH7N	DHA10-32-19	ST32D	SP3D	HW23.8L HW19.8L
2525-M16	25	25	150	12.5	25	32						
2525-M22	25	25	150	12.5	25	35	TN□□2204□□	CDH8N1	DHA5/16-32	ST43D	SP4D	HW39.7L HW23.8L
3232-P27	32	32	170	16	32	35						
4040-S33	40	40	250	20	40	40	TN□□3307□□	CDH8N	DHA5/16-32	ST63D	SP6DL	HW39.7L HW35.7L

Applicable inserts B49~B55

MTFNR/L



TN□□



90°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MTFNR/L 1616-H16	16	16	100	20	16	32	TN□□1604□□	CDH7N	DHA10-32-19	ST32D	SP3D	HW23.8L HW19.8L
2020-K16	20	20	125	25	20	32						
2525-M16	25	25	150	32	25	32						
2525-M22	25	25	150	32	25	32	TN□□2204□□	CDH8N1	DHA5/16-32	ST43D	SP4D	HW39.7L HW23.8L
3232-P22	32	32	170	40	32	32						
4040-S22	40	40	250	50	40	32						
3232-P27	32	32	170	40	32	35	TN□□2706□□	CDH8N1	DHA5/16-32	ST53D	SP5D	HW39.7L HW31.8L
4040-S27	40	40	250	50	40	35						
4040-S33	40	40	250	50	40	40	TN□□3307□□	CDH8N	DHA5/16-32	ST63D	SP6DL	HW39.7L HW35.7L

Applicable inserts B49~B55



Turning

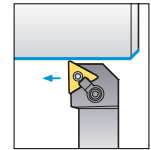
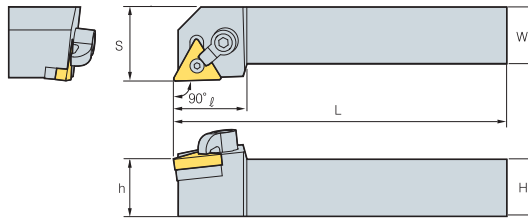
B

B Multi Lock System

MTGNR/L



TN□□



90°

• R type insert
(mm)

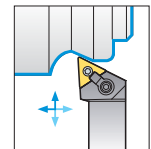
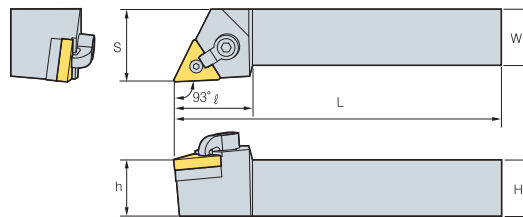
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MTGNR/L 1616-H16	16	16	100	20	16	32	TN□□1604□□	CDH7N	DHA10-32-19	ST32D	SP3D	HW23.8L HW19.8L
2020-K16	20	20	125	25	20	32						
2525-M16	25	25	150	32	25	32						
2525-M22	25	25	150	32	25	32						
3232-P22	32	32	170	40	32	32	TN□□2204□□	CDH8N1	DHA5/16-32	ST43D	SP4D	HW39.7L HW23.8L
3232-P27	32	32	170	40	32	35						
4040-S27	40	40	250	50	40	35	TN□□2706□□	CDH8N1	DHA5/16-32	ST53D	SP5D	HW39.7L HW31.8L
4040-S33	40	40	250	50	40	40	TN□□3307□□	CDH8N	DHA5/16-32	ST63D	SP6DL	HW39.7L HW35.7L

Applicable inserts B49~B55

MTJNR/L



TN□□



93°

• R type insert
(mm)

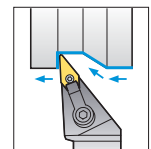
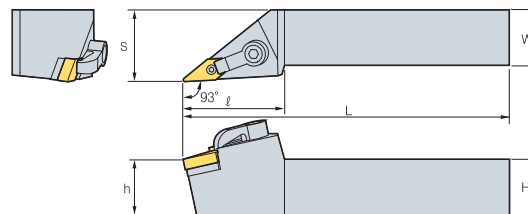
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MTJNR/L 2020-K16	20	20	125	25	20	32	TN□□1604□□	CDH7N	DHA10-32-19	ST32D	SP3D	HW23.8L HW19.8L
2525-M16	25	25	150	32	25	32						
2525-M22	25	25	150	32	25	32	TN□□2204□□	CDH8N1	DHA5/16-32	ST43D	SP4D	HW39.7L HW23.8L
3232-P22	32	32	170	40	32	32						
3232-P27	32	32	170	40	32	35	TN□□2706□□	CDH8N1	DHA5/16-32	ST53D	SP5D	HW39.7L HW31.8L
4040-S27	40	40	250	50	40	35						
4040-S33	40	40	250	50	40	40	TN□□3307□□	CDH8N	DHA5/16-32	ST63D	SP6DL	HW39.7L HW35.7L

Applicable inserts B49~B55

MVJNR/L



VN□□



93°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MVJNR/L 2020-K16	20	20	125	25	20	37	VN□□1604□□	CDH8N2	DHA5/16-32	SV32D	SP3D	HW39.7L HW19.8L
2525-M16	25	25	150	32	25	37						
3232-P16	32	32	170	40	32	37						
2525-M22	25	25	150	32	25	50						
3232-P22	32	32	170	40	32	50	VN□□2204□□	CDH8N2	DHA5/16-32	SV43D	SP4D	HW39.7L HW23.8L
4040-S22	40	40	250	50	40	50						

Applicable inserts B56~B57

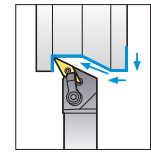
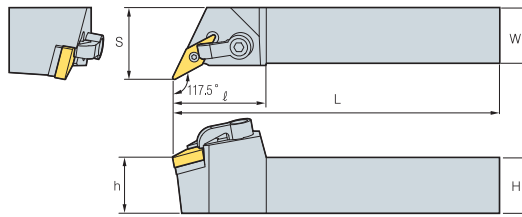


B Turning

MVQNR/L



VN□□



117.5°

• R type insert
(mm)

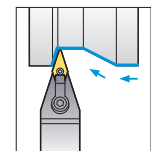
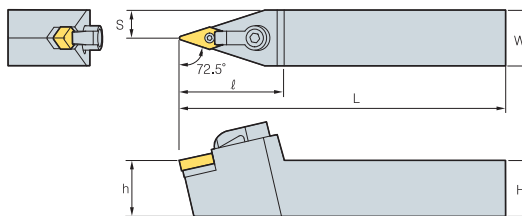
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MVQNR/L 2020-K16	20	20	125	25	20	42	VN□□1604□□					
2525-M16	25	25	150	32	25	42						
3232-P16	32	32	170	40	32	37						

Applicable inserts B56~B57

MVVNN



VN□□



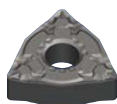
72.5°

(mm)

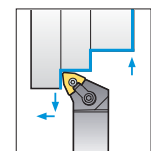
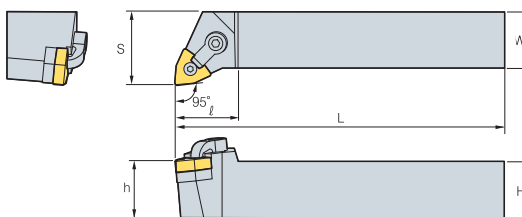
Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MVVNN 2020-K16	20	20	125	25	20	42	VN□□1604□□					
2525-M16	25	25	150	32	25	42						

Applicable inserts B56~B57

MWLNR/L



WN□□



95°

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim Pin	Wrench
MWLNR/L 2020-K06	20	20	125	25	20	32	WN□□0604□□					
2525-M06	25	25	150	32	25	32						
3232-P06	32	32	170	40	32	32						
2020-K08	20	20	125	25	20	32	WN□□0804□□					
2525-M08	25	25	150	32	25	32						
3232-P08	32	32	170	40	32	32						

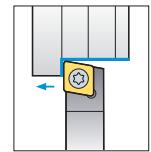
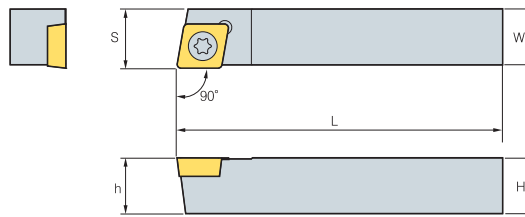
Applicable inserts B58~B61

B Screw on System

SCACR/L



CC□□



90°

• R type insert
(mm)

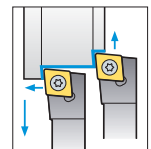
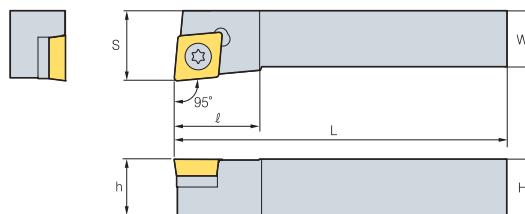
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SCACR/L 1010-E06	10	10	70	10.5	10	CC□□0602□□	FTKA02565	-	-	TW07P
1212-F09	12	12	80	12.5	12	CC□□09T3□□	FTKA03508	-	-	TW15P

Applicable inserts B62~B65, B87

SCLCR/L



CC□□



95°

• R type insert
(mm)

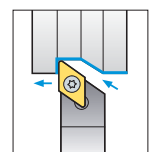
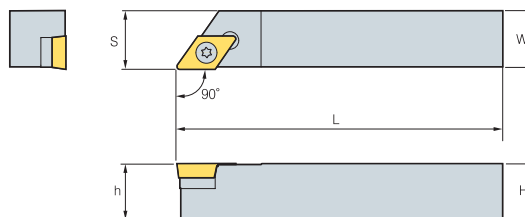
Designation	H	W	L	S	h	ℓ	Insert	Screw	Shim	Shim Screw	Wrench
SCLCR/L 0808-D06	08	08	60	10	08	10	CC□□0602□□	FTKA02565	-	-	TW07P
1010-E06	10	10	70	16	10	10					
1212-F09	12	12	80	20	12	16					
1616-H09	16	16	100	20	16	16	CC□□09T3□□	CDH7N	-	-	TW15P
2020-K09	20	20	125	25	20	16					
2020-K12	20	20	125	25	20	25					
2525-M09	25	25	150	32	25	26	CC□□09T3□□	FTGA03508	-	-	TW156P
2525-M12	25	25	150	32	25	26	CC□□1204□□	FTGA0411F	SC42S	SHXN0610F	HW40L

Applicable inserts B62~B65, B87

SDACR/L



DC□□



90°

• R type insert
(mm)

Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SDACR/L 1010-E07	10	10	70	10.5	10	DC□□0702□□	FTKA02565	-	-	TW07P
1212-F11	12	12	80	12.5	12		FTKA03508	-	-	TW15P
1616-H11	16	16	100	16.5	16		FTGA03512	SD32S	SHXN0509F	TW15P, HW35L

Applicable inserts B67~B69, B88

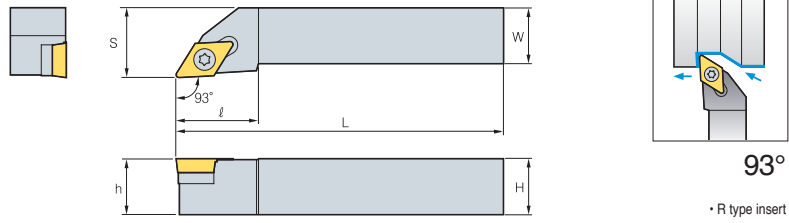


B Turning

SDJCR/L



DC□□



93°

• R type insert
(mm)

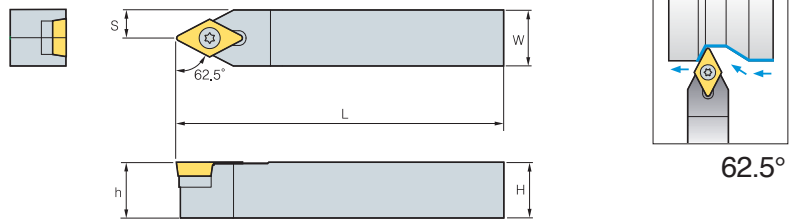
Designation		H	W	L	S	h	ℓ	Insert	 Screw	 Shim	 Shim Screw	 Wrench
SDJCR/L	1010-E07	10	10	70	12	10	15	DC□□0702□□	FTKA02565	-	-	TW07P
	1212-F07	12	12	80	16	12	15					
	1616-H07	16	16	100	20	16	18					
	2020-K07	20	20	125	25	20	15					
	1212-F11	12	12	80	16	12	15	DC□□11T3□□	FTGA03512	-	-	TW15P, HW35L
	1616-H11	16	16	100	20	16	24					
	2020-K11	20	20	125	25	20	24					
	2525-M11	25	25	150	32	25	29					

Applicable inserts B67~B69, B88

SDNCN



DC□□



62.5°

(mm)

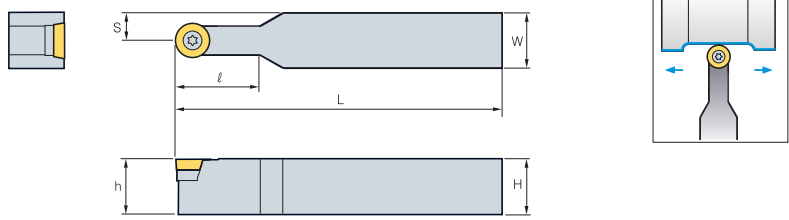
Designation		H	W	L	S	h	Insert	 Screw	 Shim	 Shim Screw	 Wrench
SDNCN	1010-E07	10	10	70	5	10	DC□□0702□□	FTKA02565	-	-	TW07P
	1212-F07	12	12	80	6	12					
	1212-H11	12	12	100	6	12	DC□□11T3□□	FTGA03508	-	-	TW15P
	1616-H11	16	16	100	8	16					
	2020-K11	20	20	125	10	20					
	2020-M11	25	25	150	12.5	25					
							DCMT□□11T3□□	FTGA03512	SD32S	SHXN0509F	TW25P, HW35L

Applicable inserts B67~B69, B88

SRDCN



RCGT



(mm)

Designation		H	W	L	S	h	ℓ	Insert				
SRDCN	1010-E06	10	10	70	5	10	10	RCGT0602M0	FTKA02565	-	-	TW07P
	1212-F06	12	12	80	6	12	12					
	1616-H06	16	16	100	8	16	12					
	2525-M06	25	25	150	12.5	25	20					
	1616-H08	16	16	100	8	16	16	RCGT0803M0	FTNA0307	-	-	TW09P
	2020-K08	20	20	125	10	20	20					
	2525-M08	25	25	150	12.5	25	20					
	1616-H10	16	16	100	8	16	25	RCGT1003M0	FTKA03511A	SR10S	SHXN0509F	TW15P HW35L
	2020-K10	20	20	125	10	20	25					
	2525-M10	25	25	150	12.5	25	25					
	2020-K12	20	20	125	10	20	28	RCGT1204M0	FTGA03512	SR12S	SHXN0509F	TW15P HW35L
	2525-M12	25	25	150	12.5	25	28					

Applicable inserts B89

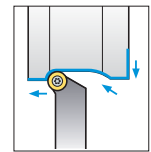
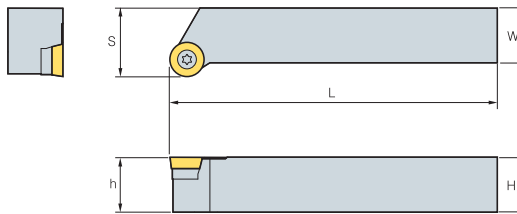


B Screw on System

SRGCR/L



RCGT

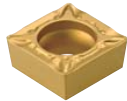


• R type insert
(mm)

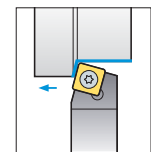
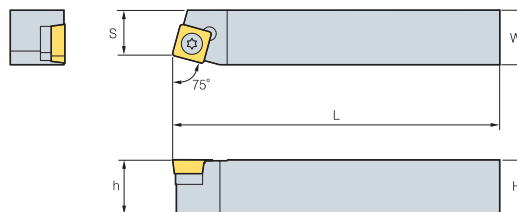
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SRGCR/L 1010-E06	10	10	70	12	10	RCGT0602M0	FTKA02565	-	-	TW07P
	12	12	80	16	12					
	16	16	100	20	16					
	16	16	100	20	16					
1616-H08	16	16	100	20	16	RCGT0803M0	FTNA0307	-	-	TW09P
	20	20	125	25	20					
	25	25	150	32	25					
	16	16	100	20	16					
2020-K08	20	20	125	25	20	RCGT1003M0	FTKA03511A	SR10S	SHXN0509F	TW15P HW35L
	25	25	150	32	25					
	25	25	150	32	25					
	20	20	125	25	20					
2525-M10	25	25	150	32	25	RCGT1204M0	FTGA03512	SR12S	SHXN0509F	TW15P HW35L
	20	20	125	25	20					
	25	25	150	32	25					
	25	25	150	32	25					

Applicable inserts B89

SSBCR/L



SC□□



75°

• R type insert
(mm)

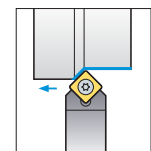
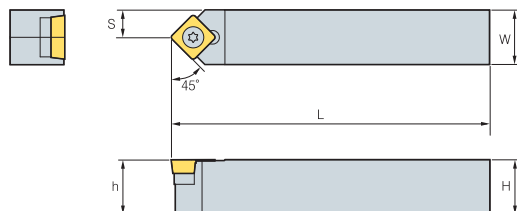
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SSBCR/L 1212-F09	12	12	80	11	12	SC□□09T3□□	FTGA03508	-	-	TW15P
	16	16	100	13	16		FTGA03512	SS32S	SHXN0509F	TW15P, HW35L
	20	20	125	17	20		FTGA0411F	SS42S	SHXN0610F	TW15P, HW40L

Applicable inserts B70~B71, B90

SSDCN



SC□□



45°

(mm)

Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SSDCN 1212-F09	12	12	80	6	12	SC□□09T3□□	FTGA03508	-	-	TW15P
	16	16	100	8	16		FTGA03512	SS32S	SHXN0509F	TW15P, HW35L

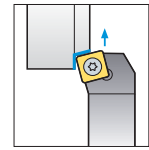
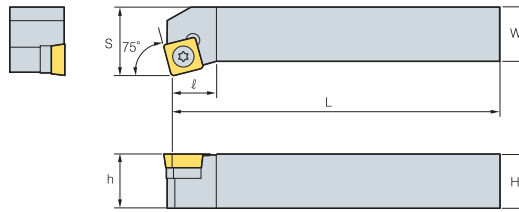
Applicable inserts B70~B71, B90



SSKCR/L



SC□□



75°

• R type insert
(mm)

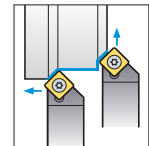
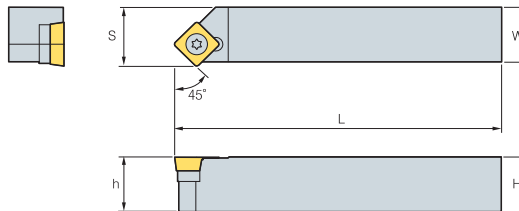
Designation	H	W	L	S	h	l	Insert	Screw	Shim	Shim Screw	Wrench
SSKCR/L 1616-H09	16	16	100	20	16	13	SC□□09T3□□	FTGA03512	SS32S	SHXN0509F	TW15P, HW35L

➔ Applicable inserts B70~B71, B90

SSSCR/L



SC□□



45°

• R type insert
(mm)

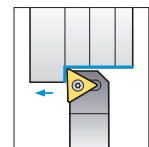
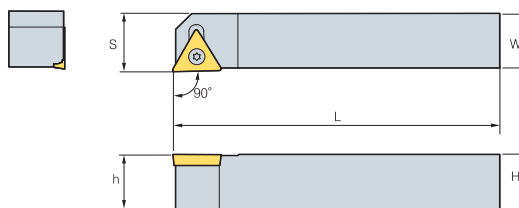
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SSSCR/L 1616-H09	16	16	100	17	16	SC□□09T3□□	FTGA03512	SS32S	SHXN0509F	TW15P, HW35L
2020-K12	20	20	125	21	20	SC□□1204□□	FTGA0411F	SS42S	SHXN0610F	TW15P, HW40L
2525-M12	25	25	150	26	25	SC□□1204□□	FTGA0411F	SS42S	SHXN0610F	TW15P, HW40L

➔ Applicable inserts B70~B71, B90

STACR/L



TC□□



90°

• R type insert
(mm)

Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
STACR/L 1010-E09	10	10	70	10.5	10	TC□□0902□□	FTKA02206	-	-	TW06P
1212-F11	12	12	80	12.5	12	TC□□1102□□	FTKA02565	-	-	TW07P

➔ Applicable inserts B75~B76, B91

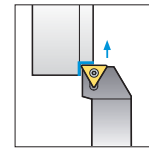
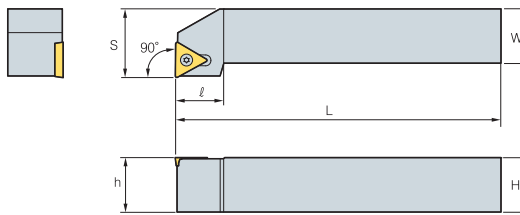


B Screw on System

STFCR/L



TC□□



90°

• R type insert
(mm)

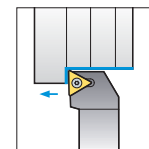
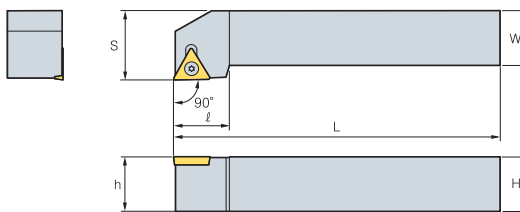
Designation		H	W	L	S	h	ℓ	Insert	 Screw	 Shim	 Shim Screw	 Wrench
STFCR/L	1010-E09	10	10	70	12	10	10	TC□□0902□□	FTKA02206	-	-	TW06P
	1212-F11	12	12	80	16	12	14	TC□□1102□□	FTKA02565	-	-	TW07P
	1616-H11	16	16	100	20	16	14					
	1616-H16	16	16	100	20	16	19	TC□□16T3□□	FTGA03512	ST32S	SHXN0509F	TW15P, HW35L
	2020-K16	20	20	125	25	20	19					
	2525-M16	25	25	150	32	25	25.2					

Applicable inserts B75~B76, B91

STGCR/L



TC□□



90°

• R type insert
(mm)

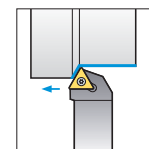
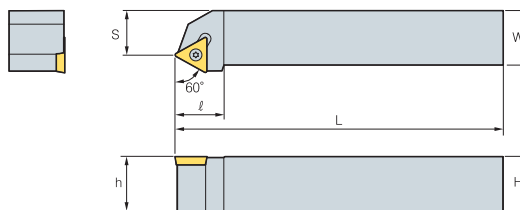
Designation		H	W	L	S	h	ℓ	Insert				
STGCR/L	0808-D09	08	08	60	10	08	11	TC□□0902□□	FTKA02206	-	-	TW06P
	1010-E09	10	10	70	12	10	11					
	1212-F11	12	12	80	16	12	14	TC□□1102□□	FTKA02565	-	-	TW07P
	1616-H11	16	16	100	20	16	16					
	1616-H16	16	16	100	20	16	21					
	2020-K16	20	20	125	25	20	21	TC□□16T3□□	FTGA03512	ST32S	SHXN0509F	TW15P, HW35L
	2525-M16	25	25	150	32	25	21					

Applicable inserts B75~B76, B91

STTCR/L



TC□□



60°

• R type insert
(mm)

Designation		H	W	L	S	h	ℓ	Insert	 Screw	 Shim	 Shim Screw	 Wrench
STTCR/L	1616-H11	16	16	100	13	16	14	TC□□1102□□	FTKA02565	-	-	TW07P
	1616-H16	16	16	100	13	16	19	TC□□16T3□□	FTGA03512	ST32S	SHXN0509F	TW15P, HW35L
	2020-K16	20	20	125	17	20	19					

Applicable inserts B75~B76, B91

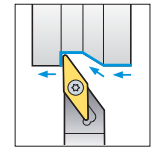
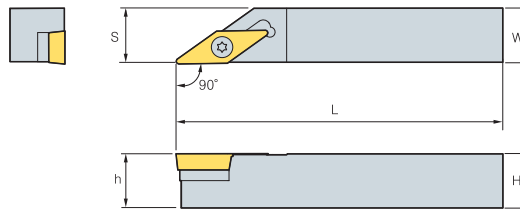


B Turning

SVABR/L



VB□□



90°

• R type insert (mm)

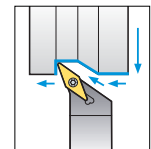
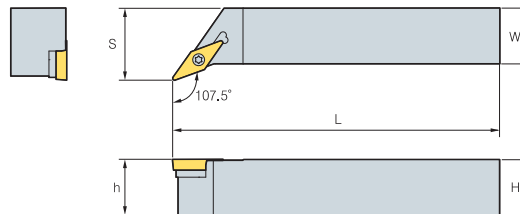
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SVABR/L 1616-H16	16	16	100	16.5	16	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
2020-K16	20	20	125	20.5	20					

➔ Applicable inserts B80~B81, B92

SVHBR/L



VB□□



107.5°

• R type insert (mm)

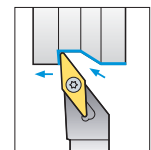
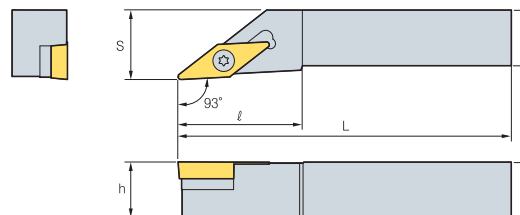
Designation	H	W	L	S	h	Insert	Screw	Shim	Shim Screw	Wrench
SVHBR/L 2525-M16	25	25	150	32	25	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
3225-P16	32	25	170	32	32					

➔ Applicable inserts B80~B81, B92

SVJBR/L



VB□□



93°

• R type insert (mm)

Designation	H	W	L	S	h	ℓ	Insert	Screw	Shim	Shim Screw	Wrench
SVJBR/L 1212-F11	12	12	80	16	12	27	VB□□1102□□	FTKA02565	-	-	TW07P
1616-H11	16	16	100	20	16	27					
2020-K11	20	20	125	25	20	27					
1616-H16	16	16	100	20	16	36	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
2020-K16	20	20	125	25	20	41					
2525-M16	25	25	150	32	25	41	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
3225-P16	32	25	170	32	32	55					
3232-P16	32	32	170	40	33	55					

➔ Applicable inserts B80~B81, B92

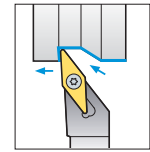
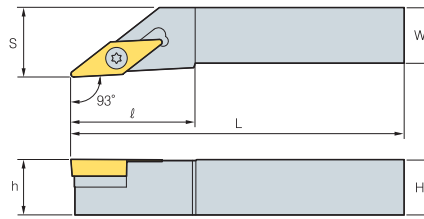


B Screw on System

SVJCR/L



VC□□



93°

• R type insert
(mm)

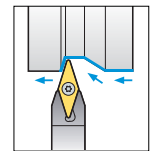
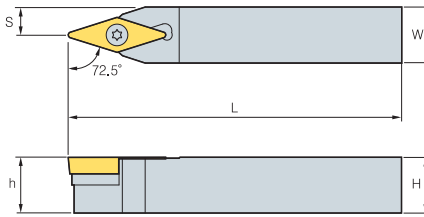
Designation		H	W	L	S	h	ℓ	Insert	 Screw	 Shim	 Shim Screw	 Wrench
SVJCR/L	1212-F11	12	12	80	16	12	25	VC□□1103□□	FTKA02565	-	-	TW07P
	1616-H11	16	16	100	20	16	25					
	2020-K11	20	20	125	25	20	25					
	1212-F13	12	12	80	16	12	32	VC□□1303□□	FTKA0307	-	-	TW09P
	1616-H13	16	16	100	20	16	32					
	2020-K13	20	20	125	25	20	32					
	1616-H16	16	16	100	20	16	40	VC□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
	2020-K16	20	20	125	25	20	40					
2525-M16	25	25	150	32	25	40						

Applicable inserts B82~B83, B93

SVVBN



VB□□



72.5°

(mm)

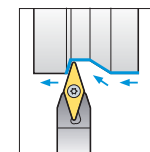
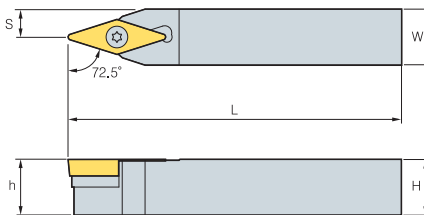
Designation		H	W	L	S	h	Insert	 Screw	 Shim	 Shim Screw	 Wrench
SVVBN	1212-F11	12	12	80	6	12	VB□□1102□□	FTKA02565	-	-	TW07P
	1616-H11	16	16	100	8	16					
	2020-K11	20	20	125	10	20					
	1616-H16	16	16	100	8	16	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
	2020-K16	20	20	125	10	20					
	2525-M16	25	25	150	12.5	25					
	3225-P16	32	25	170	12.5	32					

Applicable inserts B80~B81, B92

SVVCN



VC□□



72.5°

(mm)

Designation		H	W	L	S	h	Insert	 Screw	 Shim	 Shim Screw	 Wrench
SVVCN	1212-F11	12	12	80	6	12	VC□□1103□□	FTKA02565	-	-	TW07P
	1616-H11	16	16	100	8	16					
	2020-K11	20	20	125	10	20					
	1212-F13	12	12	80	6	12	VC□□1303□□	FTNA0307	-	-	TW09P
	1616-H13	16	16	100	8	16					
	2020-K13	20	20	125	10	20					
	1616-H16	16	16	100	8	16	VC□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P, HW35L
	2020-K16	20	20	125	10	20					
	2525-M16	25	25	150	12.5	25					

Applicable inserts B82~B83, B93

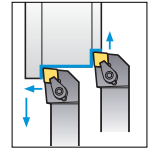
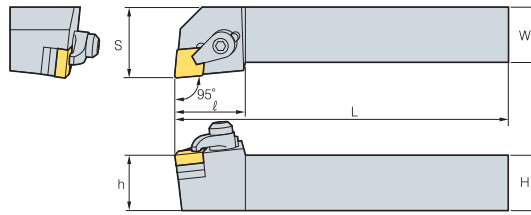


B Turning

CCLNR/L



CN□N



95°

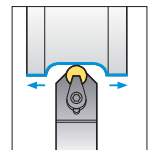
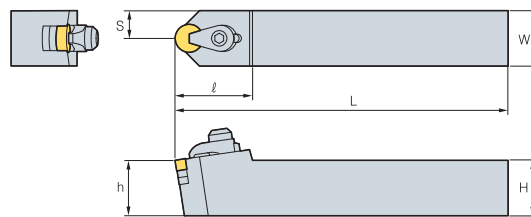
• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Screw	Shim	Spring	Wrench
CCLNR/L 2525-M12C	25	25	150	32	25	32	CN□N1204□□ 1207□□	CH6R3	MHX0630 SHX0310	SC42CC	SR3	HW40L HW20L

CRDNN



RN□N



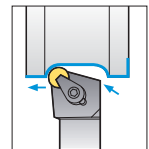
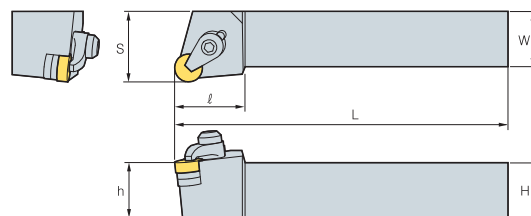
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Screw	Shim	Spring	Wrench
CRDNN 2525-M12C	25	25	150	12.5	25	35	RN□N1204□□ 1207□□	CH6R3	MHX0630 SHX0310	SC42CC	SR3	HW40L HW20L

CRGNR/L

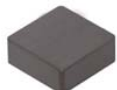


RN□N

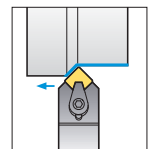
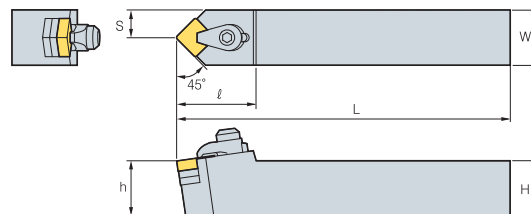

• R type insert
(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Screw	Shim	Spring	Wrench
CRGNR/L 2525-M12C	25	25	150	32	25	32	RN□N1204□□ 1207□□	CH6R3	MHX0630 SHX0310	SC42CC	SR3	HW40L HW20L

CSDNN



SN□N



45°

(mm)

Designation	H	W	L	S	h	ℓ	Insert	Clamp	Screw	Shim	Spring	Wrench
CSDNN 2525-M12C	25	25	125	12.5	25	35	SN□N1204□□ 1207□□	CH6R3	MHX0630 SHX0310	SS42CC	SR3	HW40L HW20L

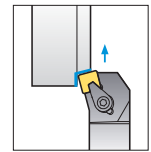
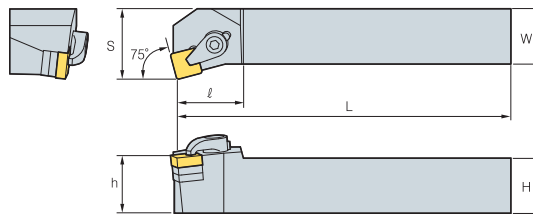


B Ceramic Holder

CSKNR/L



SN□N



75°

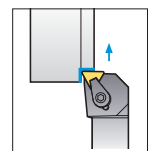
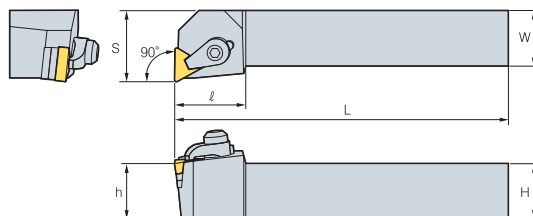
• R type insert (mm)

Designation	H	W	L	S	h	l	Insert	Clamp	Screw	Shim	Spring	Wrench
CSKNR/L 2525-M12C	25	25	150	32	25	28	SN□N1204□□ 1207□□	CH6R3	MHX0630 SHX0310	SS42CC	SR3	HW40L HW20L

CTFNR/L



TN□N



90°

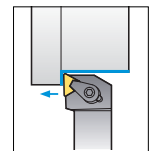
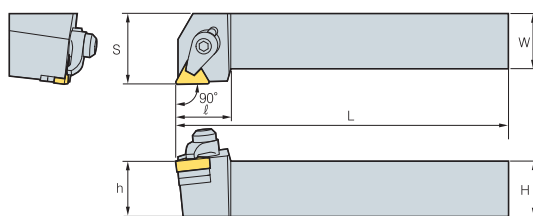
• R type insert (mm)

Designation	H	W	L	S	h	l	Insert	Clamp	Screw	Shim	Spring	Wrench
CTFNR/L 2525-M16C	25	25	150	32	25	32	TN□N1604□□ 1607□□	CH6R3	MHX0630 SHX0310	ST32CC	SR3	HW40L HW20L

CTGNR/L



TN□N



90°

• R type insert (mm)

Designation	H	W	L	S	h	l	Insert	Clamp	Screw	Shim	Spring	Wrench
CTGNR/L 2525-M16C	25	25	150	32	25	32	TN□N1604□□ 1607□□	CH6R3	MHX0630 SHX0310	ST32CC	SR3	HW40L HW20L



Note) Generally, two shims are clamped to a Ceramic Holder.

However, only one shim is used in clamping 1207□□ and 1607□□ sized inserts.



B Turning

S 12 M - S T F P R - 11

1 2 3 4 5 6 7 8 9

Type of Bar Bar Diameter Bar Length Method of Mounting Insert Insert Shape Lead Angle of Boring Bar Relief Angle of Insert Hand of Bar Length of Cutting Edge

1 Type of Bar
S 12 M - S T F P R - 11

"A" Steel with coolant hole
"E" Carbide bar with fixed steel head and coolant hole
"C" Carbide shank
"S" Steel shank
"X" Special type

2 Bar Diameter
S 12 M - S T F P R - 11

3 Bar Length
S 12 M - S T F P R - 11

length(L) (mm)	
H	100
J	110
K	125
M	150
N	160
Q	180
R	200
S	250
T	300
U	350
V	400
W	450
Y	500

4 Method of Mounting Insert
S 12 M - S T F P R - 11

5 Insert Shape
S 12 M - S T F P R - 11

6 Lead Angle of Boring Bar
S 12 M - S T F P R - 11

7 Relief Angle of Insert
S 12 M - S T F P R - 11

8 Hand of Bar
S 12 M - S T F P R - 11

9 Length of Cutting Edge
S 12 M - S T F P R - 11

B Index for Boring Bar

Double Clamp System

Cutting Shape								
Designation	DCLNR/L	DDUNR/L	DSKNR/L	DTFNR/L	DWLNR/L			
Approach angle	95°	93°	75°	90°	95°			
Page	B185	B185	B185	B186	B186			
Copying		●						
Facing	●				●			
Back turning		●						
Turning	●	●	●	●	●			

Lever Lock System

Cutting Shape								
Designation	PCLNR/L	PDSNR/L	PDUNR/L	PSKNR/L	PTFNR/L	PWLNR/L		
Approach angle	95°	62.5°	93°	75°	90°	95°		
Page	B187	B187	B188	B189	B189	B190		
Copying		●	●					
Facing	●					●		
Back turning		●	●			●		
Turning	●	●	●	●	●	●		

Clamp on System

Cutting Shape								
Designation	CKUNR/L	CSKPR/L	CTFPR/L					
Approach angle	93°	75°	90°					
Page	B191	B191	B191					
Copying								
Facing								
Back turning	●							
Turning	●	●	●					

Multi Lock System

Cutting Shape								
Designation	MCLNR/L	MDUNR/L	MSKNR/L	MTFNR/L	MVUNR/L	MWLNR/L		
Approach angle	95°	93°	75°	90°	93°	95°		
Page	B192	B192	B192	B193	B193	B193		
Copying		●			●			
Facing	●					●		
Back turning		●			●			
Turning	●	●	●	●	●	●		



Screw on System

Cutting Shape								
Designation	SCLCR/L	SCLPR/L	SDQCR/L	SDUCR/L	SDZCR/L	SSKCR/L	SSKPR/L	STFCR/L
Approach angle	95°	95°	107.5°	93°	93°	75°	75°	90°
Page	B194	B195	B196	B197	B198	B198	B198	B199
Copying			●	●				
Facing	●	●						
Back turning			●	●	●			
Turning	●	●	●	●	●	●	●	●

Cutting Shape								
Designation	STFPR/L	STWPR/L	SVJCR/L	SVQBR/L	SVQCR/L	SVUBR/L	SVUCR/L	SWLCR/L
Approach angle	90°	60°	142°	108°	108°	93°	93°	95°
Page	B200	B201	B201	B201	B202	B202	B202	B203
Copying			●	●	●	●	●	●
Facing								
Back turning				●	●	●	●	●
Turning	●	●	●	●	●	●	●	●

Compact Mini

Cutting Shape								
Designation	SCLCR/L	STUBR/L	STUPR/L	SWUBR/L				
Approach angle	95°	93°	93°	93°				
Page	B204	B204	B205	B206				
Copying								
Facing	●	●						
Back turning			●					
Turning	●	●	●	●				

Carbide Shank Boring Bar

Designation	SCLCR/L	SCLPR/L	SDQCR/L	SDUCR/L	STFCR/L
Approach angle	95°	95°	107.5°	93°	90°
Page	B194	B195	B196	B197	B199

Designation	STFPR/L	STUBR/L	STUPR/L	SWUBR/L	-
Approach angle	90°	93°	93°	93°	-
Page	B200	B204	B205	B206	-

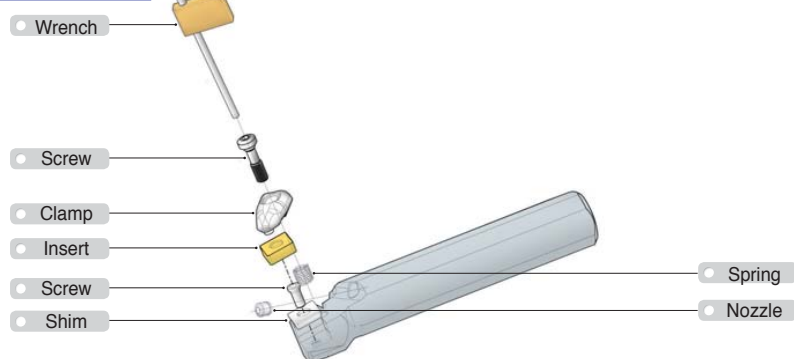
Sleeve

Shape	
Designation	SL
Page	B130

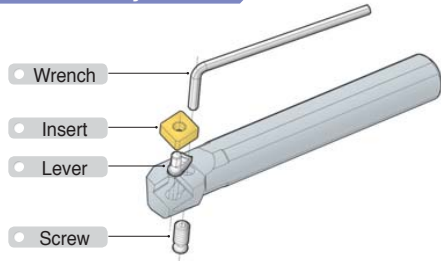
B Instructions of Boring Bar assembly

Instructions of Boring Bar assembly

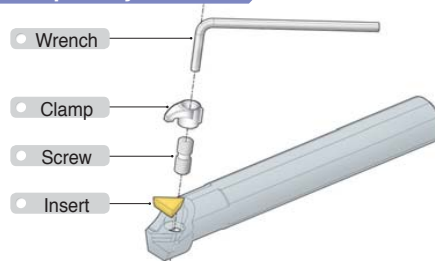
Double Clamp System



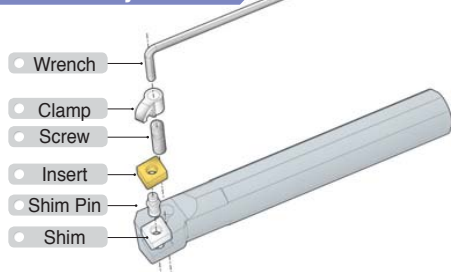
Lever Lock System



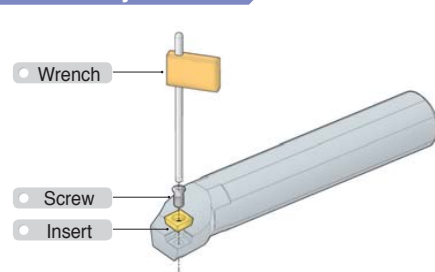
Clamp on System



Multi Lock System



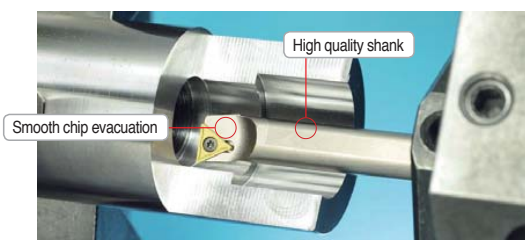
Screw on System



Carbide Shank Boring Bar

- Excellent cutting performance even in internal machining with chattering
- Available for various workpieces such as steel, stainless steel, cast iron, etc.
- Improved tool life and surface roughness

Features



Higher strength and durability than steel shank, special surface treatment applied

Comparison of chipping

Specifications	Steel boring bar			Carbide boring bar		
SCM440 vc:200 m/min ap:0.4 mm fn:0.15 mm/rev Cutting depth:5D	Increased chipping on insert			Stable tool life		
	Rmax	Rz	Ra	Rmax	Rz	Ra
	4.67	3.68	0.62	3.07	2.76	0.53



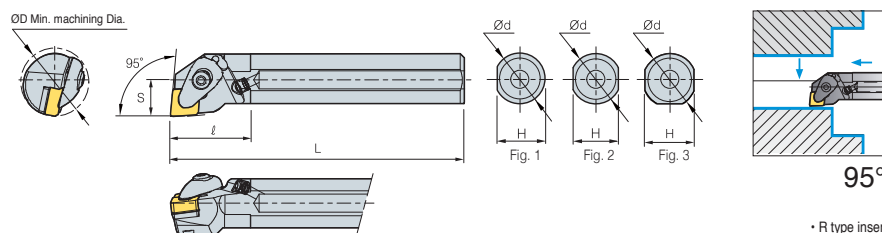
B

Turning

DCLNR/L



CN□□



• R type insert (mm)

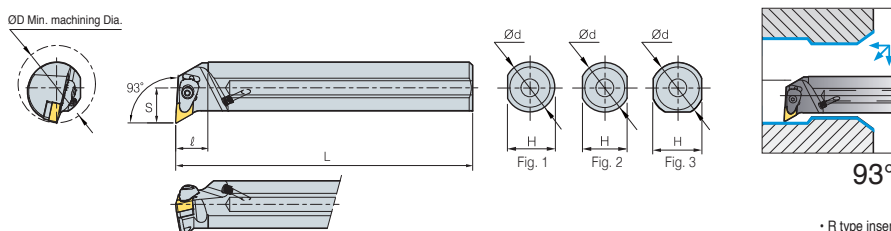
Designation	ØD	Ød	H	L	S	l	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Nozzle	Wrench	Fig.
A25R-DCLNR/L-09	32	25	24	200	17	40	CN□□0903□□	CVH3	CHX0415	SC32V	FTKA0307	SPR0510	CN0605	HW25P	1
A25R-DCLNR/L-12	32	25	24	200	17	40	CN□□0903□□	CVH3	CHX0415	SC32V	FTKA0307	SPR0510	CN0605	HW25P	1
A32S-DCLNR/L-12	40	32	30	250	22	50	CN□□1204□□	CVH4	CHX0518	SC42V	FTKA0410	SPR0714	CN0605	HW30P	3
A40T-DCLNR/L-12	50	40	38	300	27	60	CN□□1204□□	CVH4	CHX0518	SC42V	FTKA0410	SPR0714	CN0605	HW30P	3
A50U-DCLNR/L-16	63	50	48	350	35	70	CN□□1604□□	CVH5	CHX0622	SC54V	FTNA0511	SPR0811	CN0605	HW40L	3

Applicable inserts B26~B32

DDUNR/L



DN□□



• R type insert (mm)

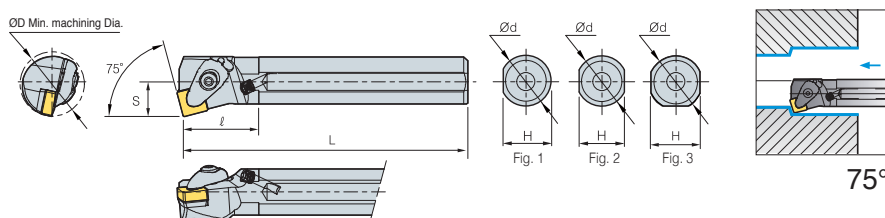
Designation	ØD	Ød	H	L	S	l	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Nozzle	Wrench	Fig.
A40T-DDUNR/L-15	50	40	38	300	27	60	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	HW30P	3
A50U-DDUNR/L-15	63	50	47	350	35	70	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	HW30P	3
A40T-DDUNR/L-15 -3	50	40	38	300	27	60	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	HW30P	3
A50U-DDUNR/L-15 -3	63	50	47	350	35	70	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	HW30P	3

Applicable inserts B33~B39

DSKNR/L



SN□□



• R type insert (mm)

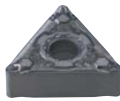
Designation	ØD	Ød	H	L	S	l	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Nozzle	Wrench	Fig.
A25R-DSKNR/L-09	32	25	24	200	17	40	SN□□0903□□	CVH3	CHX0415	SS32V	FTKA0307	SPR0510	CN0605	HW25P	1
A25R-DSKNR/L-12	32	25	24	200	17	40	SN□□0903□□	CVH3	CHX0415	SS32V	FTKA0307	SPR0510	CN0605	HW25P	1
A32S-DSKNR/L-12	40	32	30	250	22	50	SN□□1204□□	CVH4	CHX0518	SS42V	FTKA0410	SPR0714	CN0605	HW30P	3
A40T-DSKNR/L-12	50	40	38	300	27	60	SN□□1204□□	CVH4	CHX0518	SS42V	FTKA0410	SPR0714	CN0605	HW30P	3

Applicable inserts B41~B48

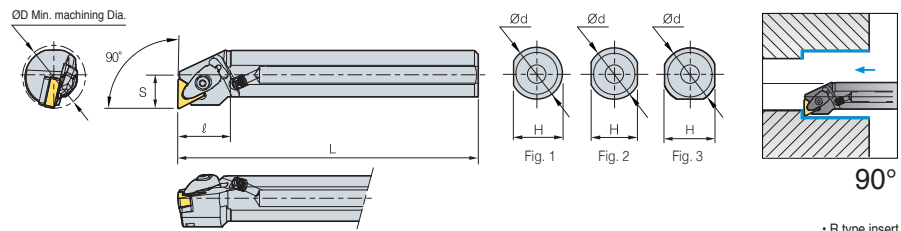


B Double Clamp System

DTFNR/L



TN□□



• R type insert (mm)

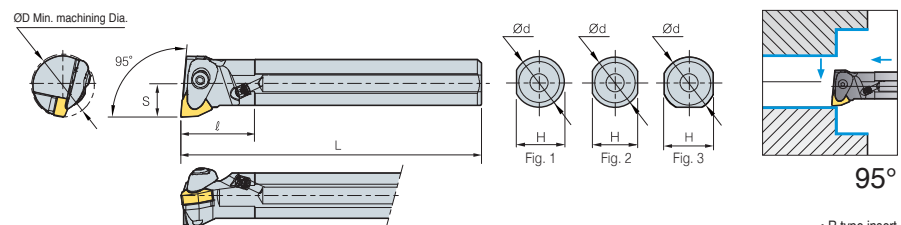
Designation	ØD	Ød	H	L	S	l	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Nozzle	Wrench	Fig.
A25R-DTFNR/L-16	32	25	24	200	17	40	TN□□1604□□								1
A32S-DTFNR/L-16	40	32	30	250	22	50									3
A40T-DTFNR/L-22	50	40	38	300	27	60									
A50U-DTFNR/L-22	63	50	47	350	35	70	TN□□2204□□	CVH4	CHX0518	ST44V	FTKA0410	SPR0714	CN0605	HW30P	3

Applicable inserts B49~B55

DWLNRL



WN□□



• R type insert (mm)

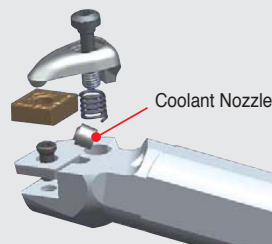
Designation	ØD	Ød	H	L	S	l	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Spring	Nozzle	Wrench	Fig.
A25R-DWLNRL-06	32	25	24	200	17	40	WN□□0604□□								1
A32S-DWLNRL-06	40	32	30	250	22	50									3
A40T-DWLNRL-06	50	40	38	300	27	60									
A25R-DWLNRL-08	32	25	24	200	17	40	WN□□0804□□								1
A32S-DWLNRL-08	40	32	30	250	22	50									
A40T-DWLNRL-08	50	40	38	300	27	60									
A50U-DWLNRL-08	63	50	47	350	35	70									3

Applicable inserts B58~B61



Features of Double Clamp (Boring bar)

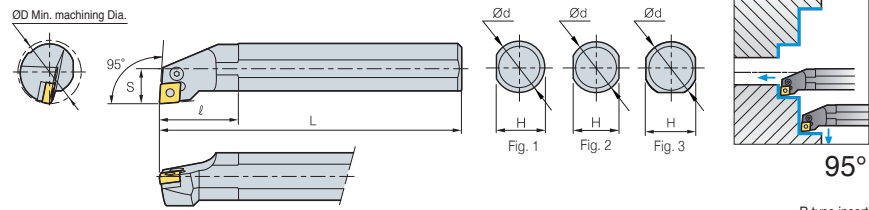
Longer tool life and excellent surface finish can be achieved with the adjustable Coolant Nozzle



PCLNR/L



CN□□

• R type insert
(mm)

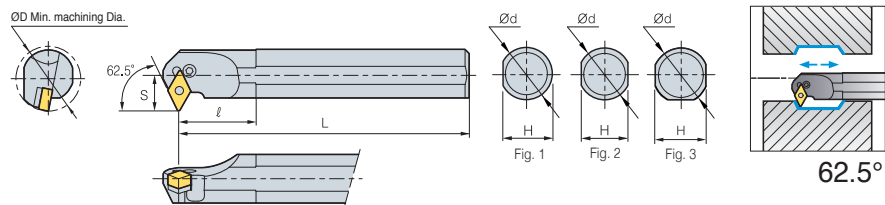
Designation	ØD	Ød	H	L	S	l	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S16R-PCLNR/L-09	20	16	14	200	11	25	CN□□0903□□	LV3C	VHX0509B	-	-	-	HW20L	2
S20S-PCLNR/L-09	25	20	18	250	13	32								3
S25R-PCLNR/L-09	32	25	23	200	17	40	CN□□1204□□	LV4A	VHX0613A	-	-	-	HW25L	3
S25R-PCLNR/L-12	32	25	23	200	17	40								
S32S-PCLNR/L-12	40	32	30	250	22	50		LV4	VHX0821	SC42B	SP4	LSPS4	HW30L	
S40T-PCLNR/L-12	50	40	38	300	27	60								
S50U-PCLNR/L-12	63	50	47	350	35	70	CN□□1906□□	LV6	VHX1027	SC63	SP6	LSPS6	HW40L	3
S50U-PCLNR/L-19	63	50	47	350	35	70								
A25R-PCLNR/L-12	32	25	24	200	17	40	CN□□1204□□	LV4A	VHX0613A	-	-	-	HW25L	1
A32S-PCLNR/L-12	40	32	30	250	22	50		LV4	VHX0821	SC42B	SP4	LSPS4	HW30L	3
A40T-PCLNR/L-12	50	40	38	300	27	60								
S16R-PCLNR/L-09N	20	16	14	200	11	25	CN□□0903□□	LV3CN	VHX0509BN	-	-	-	HW20L	2
S20S-PCLNR/L-09N	25	20	18	250	13	32								3
S25R-PCLNR/L-09N	32	25	23	200	17	40	CN□□1204□□	LV4AN	VHX0613N	-	-	-	HW25L	3
S25R-PCLNR/L-12N	32	25	23	200	17	40								
S25T-PCLNR/L-12N	32	25	23	300	17	40								
S32S-PCLNR/L-12N	40	32	30	250	22	50		LV4N	VHX0820N	SC42N	SP4N	LSPS4	HW30L	
S32U-PCLNR/L-12N	40	32	30	350	22	50	CN□□1906□□	LV6N	VHX1027N	SC63N	SP6N	LSPS6	HW40L	3
S40T-PCLNR/L-12N	50	40	38	300	27	60								
S50U-PCLNR/L-12N	63	50	47	350	35	70	CN□□0903□□	LV3CN	VHX0509BN	-	-	-	HW20L	1
S50U-PCLNR/L-19N	63	50	47	350	35	70								
A16R-PCLNR/L-09N	20	16	14	200	11	25	CN□□1204□□	LV4AN	VHX0613N	-	-	-	HW25L	1
A20S-PCLNR/L-09N	25	20	18	250	13	32								
A25R-PCLNR/L-09N	32	25	23	200	17	40		LV4N	VHX0820N	SC42N	SP4N	LSPS4	HW30L	3
A25R-PCLNR/L-12N	32	25	23	200	17	40								
A32R-PCLNR/L-12N	40	32	30	250	22	50	CN□□1504□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	3
A40T-PCLNR/L-12N	50	40	38	300	27	60								
A50U-PCLNR/L-12N	63	50	47	350	35	70	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	
A50U-PCLNR/L-19N	63	50	47	350	35	70	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	

• Applicable inserts B33~B39

PDSNR/L



DN□□

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	l	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S32S-PDSNR/L-15	40	32	30	250	22	50	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	3
S40T-PDSNR/L-15	50	40	38	300	27	60								
S32S-PDSNR/L-15-3	40	32	30	250	22	50	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	3
S40T-PDSNR/L-15-3	50	40	38	300	27	60								
A32S-PDSNR/L-15	40	32	30	250	22	50	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	
A32S-PDSNR/L-15-3	40	32	30	250	22	50	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	

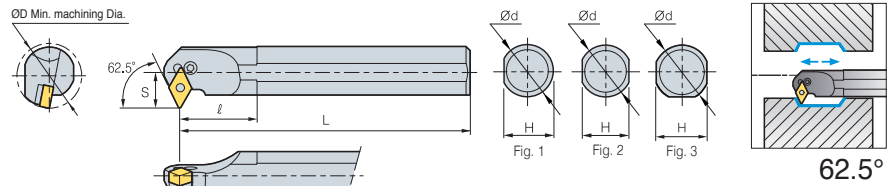
• Applicable inserts B33~B39

B Lever Lock System

PDSNR/L



DN□□



• R type insert
(mm)

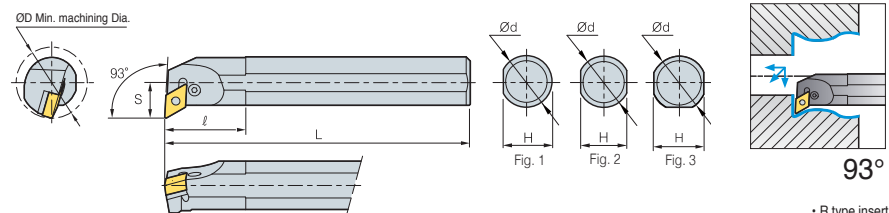
Designation	ØD	Ød	H	L	S	ℓ	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S32S-PDSNR/L-15N	40	32	30	250	22	50	DN□□1506□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	3
S40T-PDSNR/L-15N	50	40	38	300	27	60	DN□□1506□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	
S32S-PDSNR/L-15-3N	40	32	30	250	22	50	DN□□1504□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	
S40T-PDSNR/L-15-3N	50	40	38	300	27	60	DN□□1504□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	
A32S-PDSNR/L-15N	40	32	30	250	22	50	DN□□1506□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	
A40T-PDSNR/L-15N	50	40	38	300	27	60	DN□□1506□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	
A32S-PDSNR/L-15-3N	40	32	30	250	22	50	DN□□1504□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	3
A40T-PDSNR/L-15-3N	50	40	38	300	27	60	DN□□1504□□	LV4BN	VHX0821	SD42N	SP4N	LSPS4	HW30L	

• Applicable inserts B33~B39

PDUNR/L



DN□□



• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S20S-PDUNR/L-11	25	20	18	250	13	32	DNMG110408	LV3DN	VHX0512B	-	-	-	HW20L	2
S25R-PDUNR/L-11	32	23.5	23	250	17	40	DNMG110408	LV3DN	VHX0512B	-	-	-	HW20L	3
S32S-PDUNR/L-11	40	32	30	250	22	50	DN□□1104□□	LV3	VHX0617	SD317	SP3	LSPS3	HW25L	3
S32S-PDUNR/L-15	40	32	30	250	22	50	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	3
S40T-PDUNR/L-15	50	40	38	300	27	60	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	
S50U-PDUNR/L-15	63	50	47	350	35	70	DN□□1506□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	3
S32S-PDUNR/L-15-3	40	32	30	250	22	50	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	
S40T-PDUNR/L-15-3	50	40	38	300	27	60	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	3
A32S-PDUNR/L-15	40	32	30	250	22	50	DN□□1506□□	LV4B	VHX0821	SD42	SP4	LSPS4	HW30L	
A32S-PDUNR/L-15-3	40	32	30	250	22	50	DN□□1504□□	LV4	VHX0821	SD42	SP4	LSPS4	HW30L	
S20S-PDUNR/L-11N	25	20	18	250	13	32	DN□□1104□□	LV3DN	VHX0512BN	-	-	-	HW20L	2
S25R-PDUNR/L-11N	32	25	23	200	17	40	DN□□1104□□	LV3AN	VHX0617N	SD32N	SP3	LSPS3	HW30L	
S32S-PDUNR/L-11N	40	32	30	250	22	50	DN□□1104□□	LV3AN	VHX0617N	SD32N	SP3	LSPS3	HW30L	3
S32S-PDUNR/L-15N	40	32	30	250	22	50	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	
S32U-PDUNR/L-15N	40	32	30	350	22	50	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	3
S40T-PDUNR/L-15N	50	40	38	300	27	60	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	
S50U-PDUNR/L-15N	63	50	47	350	35	70	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	3
S32S-PDUNR/L-15-3N	40	32	30	250	22	50	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	HW30L	
S40T-PDUNR/L-15-3N	50	40	38	300	27	60	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	HW30L	3
A20S-PDUNR/L-11N	25	20	19	250	13	32	DN□□1104□□	LV3DN	VHX0512BN	-	-	-	HW20L	
A25R-PDUNR/L-11N	32	25	24	200	17	40	DN□□1104□□	LV3AN	VHX0617N	SD32N	SP3	LSPS3	HW30L	3
A32S-PDUNR/L-11N	40	32	30	250	22	50	DN□□1104□□	LV3AN	VHX0617N	SD32N	SP3	LSPS3	HW30L	
A32S-PDUNR/L-15N	40	32	30	250	22	50	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	3
A40T-PDUNR/L-15N	50	40	38	300	27	60	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	
A50U-PDUNR/L-15N	63	50	47	350	35	70	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	HW30L	3
A32S-PDUNR/L-15-3N	40	32	30	250	22	50	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	HW30L	
A40T-PDUNR/L-15-3N	50	40	38	300	27	60	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	HW30L	3
A50U-PDUNR/L-15-3N	63	50	47	350	35	70	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	HW30L	

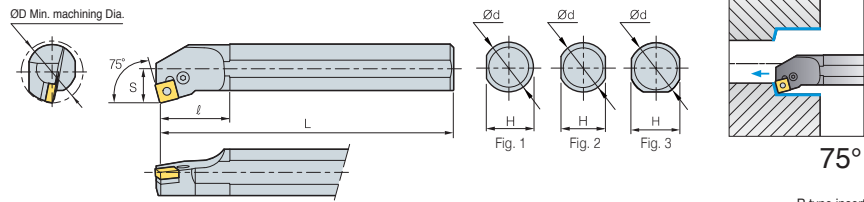
• Applicable inserts B33~B39



PSKNR/L



SN□□

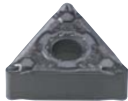


• R type insert (mm)

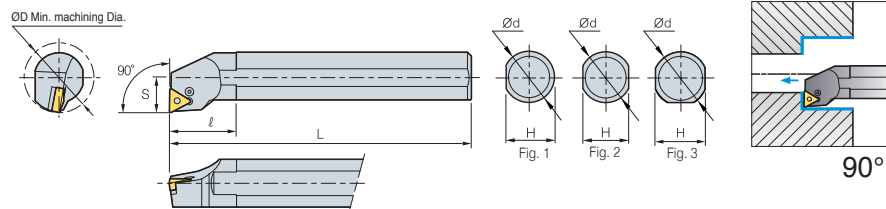
Designation	ØD	Ød	H	L	S	ℓ	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S25R-PSKNR/L-12	32	25	23	200	17	40	SN□□1204□□	LV4A	VHX0613A	-	-	-	HW30L	3
S32S-PSKNR/L-12	40	32	30	250	22	50		LV4	VHX0821	SS42B	SP4	LSPS4	HW30L	
S40T-PSKNR/L-12	50	40	38	300	27	60		LV4A	VHX0613A	-	SP4	-	HW25L	1
A25R-PSKNR/L-12	32	25	24	200	17	40	SN□□1204□□	LV4	VHX0821	SS42B	SP4	LSPS4	HW30L	3
A32S-PSKNR/L-12	40	32	30	250	22	50		LV4A	VHX0613N	-	-	-	HW25L	3
S25R-PSKNR/L-12N	32	25	23	200	17	40	SN□□1204□□	LV4N	VHX0821N	SS42N	SP4N	LSPS4	HW30L	
S32S-PSKNR/L-12N	40	32	30	250	22	50		LV4N	VHX0613N	-	-	-	HW25L	1
S40T-PSKNR/L-12N	50	40	38	300	27	60		LV4N	VHX0821N	SS42N	SP4N	LSPS4	HW30L	3
A25R-PSKNR/L-12N	32	25	24	200	17	40	SN□□1204□□	LV4A	VHX0613N	-	-	-	HW25L	1
A32S-PSKNR/L-12N	40	32	30	250	22	50		LV4N	VHX0821N	SS42N	SP4N	LSPS4	HW30L	3
A40T-PSKNR/L-12N	50	40	38	300	27	60								

Applicable inserts B41~B48

PTFNR/L



TN□□



• R type insert (mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S16R-PTFNR/L-11	20	16	23	200	11	25	TN□□1103□□	LV2	VHX0509B	-	-	-	HW25L	1
S20S-PTFNR/L-11	25	20	30	250	13	32		LV3B	VHX0512B	-	-	-	HW20L	3
S25R-PTFNR/L-11	32	25	38	200	17	40		LV3	VHX0617	ST317B	SP3	LSPS3	HW25L	1
S25R-PTFNR/L-16	32	25	23	200	17	40	TN□□1604□□	LV3	VHX0617	ST317B	SP3	LSPS3	HW25L	1
S32S-PTFNR/L-16	40	32	30	250	22	50		LV3B	VHX0512B	-	-	-	HW20L	3
S40T-PTFNR/L-16	50	40	38	300	27	60		LV3N	VHX0617N	ST317B	SP3	LSPS3	HW25L	3
A25R-PTFNR/L-16	32	25	24	200	17	40	TNMG160408	LV3B	VHX0512B	-	-	-	HW20L	3
A32S-PTFNR/L-16	40	32	30	250	22	50		LV3N	VHX0617N	ST317B	SP3	LSPS3	HW25L	3
S25T-PTFNR/L-16N	32	24	23	200	17	40		LV3B	VHX0512B	-	-	-	HW20L	3
S32S-PTFNR/L-16N	40	31	30	250	22	50								
S40T-PTFNR/L-16N	50	39	38	300	27	50								

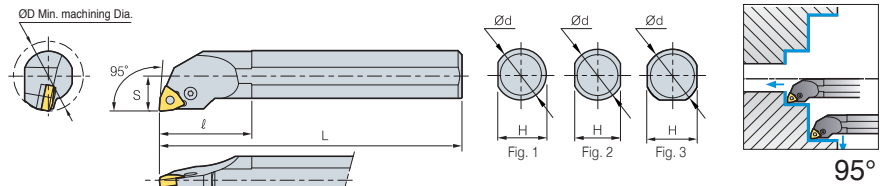
Applicable inserts B49~B55

B Lever Lock System

PWLNRL



WN□□



• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Lever	Screw	Shim	Shim pin	Shim pin Punch	Wrench	Fig.
S16R-PWLNRL-06	20	16	14	200	11	25	WNMG060408	LV3B	VHX0512B	-	-	-	HW20L	2
S20S-PWLNRL-06	25	20	18	250	13	32	WN□□0604□□	LV3B	VHX0512B	-	-	-	HW20L	2
S25R-PWLNRL-06	32	25	23	200	17	40		LV3	VHX0617	SW317	SP3	LSPS3	HW25L	3
S32S-PWLNRL-06	40	32	30	250	22	50	WN□□0804□□	LV4A	VHX0613A	-	-	-	HW25L	3
S25R-PWLNRL-08	32	25	23	200	17	40		LV4	VHX0821	SW42	SP4	LSPS3	HW30L	
S32S-PWLNRL-08	40	32	30	250	22	50								
S32S-PWLNRL-06N*	40	32	30	250	22	50	WN□□0604□□	LV3N	VHX0617N	SW317N	SP3	LSPS3	HW25L	3
S25R-PWLNRL-08N*	32	25	23	200	17	40	WN□□0804□□	LV4AN	VHX0613N	-	-	-	HW25L	
S32S-PWLNRL-08N*	40	32	30	250	22	50		LV4N	VHX0820N	SW42N	SP4N	LSPS4	HW30L	

➡ Applicable inserts **B58~B61**



- Improved holders and parts ensure performance and durability
- “N” stand for New type (parts)

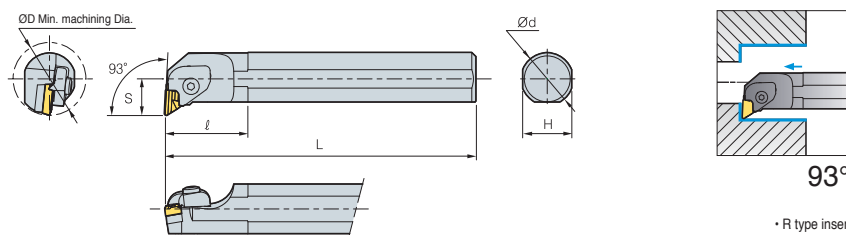


B Turning

CKUNR/L



KN□□



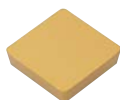
• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Spring	Shim	Pin+Spring	Shim Screw	Wrench
S32S-CKUNR-16	40	32	30	250	22	70	KN□□1604□□L	CTH6LI	CHX0625	SR3	SK33CL	PN0515 SR4	SHX0310	HW40L HW20L
S40T-CKUNR-16	50	40	37	300	27	60								
S50U-CKUNR-16	63	50	43	350	35	55								
S32S-CKUNL-16	40	32	30	250	22	70	KN□□1604□□R	CTH6RI	CHX0625	SR3	SK33C	PN0515 SR4	SHX0310	HW40L HW20L
S40T-CKUNL-16	50	40	37	300	27	60								
S50U-CKUNL-16	63	50	43	350	35	55								

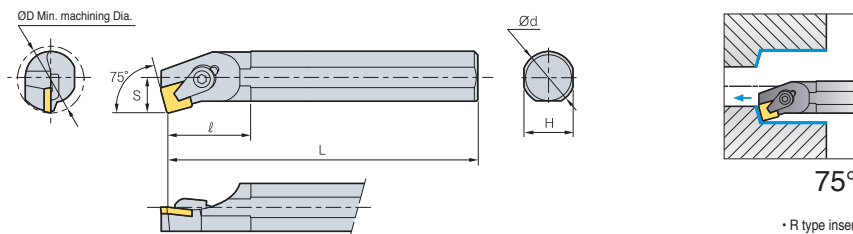
Applicable inserts **B40**

• Use left handed insert for right handed holder

CSKPR/L



SP□□



• R type insert
(mm)

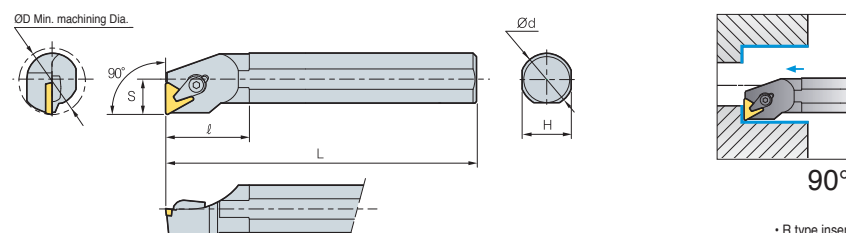
Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	C-ring	Wrench
S16R-CSKPR/L-09	20	16	15	200	11	30	SP□□0903□□	CH4R1C	CHX0414C	CR02C	HW25L
S20S-CSKPR/L-09	25	20	18	250	13	36		CH5R5C	CHX0519C	CR03C	HW30L
S20S-CSKPR/L-12	25	20	18	250	13	28	SP□□1203□□	CH6R5	CH0616	CR04C	HW30L
S25R-CSKPR/L-12	32	25	23	300	17	40					

Applicable inserts **B72~B73**

CTFPR/L



TP□□



• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert						
S12M-CTFPR/L-11	16	12	11	150	9	26	TP□□1103□□L						
S16R-CTFPR/L-11	20	16	15	200	11	40							
S20S-CTFPR/L-11	25	20	18	250	13	40							
S16R-CTFPR/L-16	20	16	15	200	11	40	TP□□1603□□L						
S20S-CTFPR/L-16	25	20	18	250	13	40							
S25R-CTFPR/L-16	32	25	23	200	17	40							
S32S-CTFPR/L-16	40	32	30	250	22	45							
S40T-CTFPR/L-16	50	40	37	300	27	60	TP□□2204□□L						
S40T-CTFPR/L-22	50	40	37	300	27	60							

Applicable inserts **B77~B79**

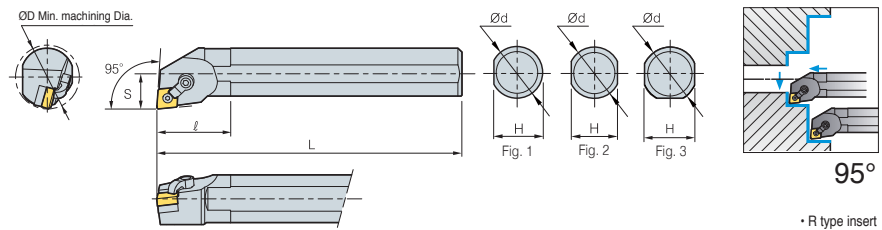


B Multi Lock System

MCLNR/L



CN□□

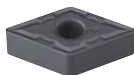


• R type insert
(mm)

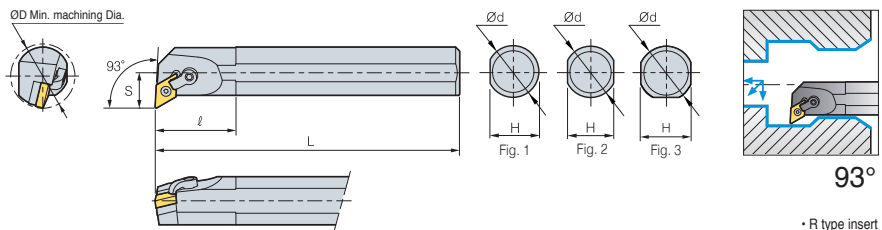
Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S20S-MCLNR/L-09	25	20	18	200	13	32	CN□□0903□□	CDH7N	DHA10/32-19	-	SP3D3	HW19.8L HW23.8L	2
S25R-MCLNR/L-09	32	25	23	250	17	40							3
S25R-MCLNR/L-12	32	25	23	200	17	40	CN□□1204□□	CDH6N	DHA1/4-21	SC43D	SP4D	HW31.8L HW23.8L	3
S32S-MCLNR/L-12	40	32	30	250	22	50							
S40T-MCLNR/L-12	50	40	38	300	27	60	CN□□1204□□	CDH6N	DHA1/4-21	SC43D	SP4D	HW31.8L HW23.8L	1
A25R-MCLNR/L-12	32	25	24	200	17	40							
A32S-MCLNR/L-12	40	32	31	250	22	50							

Applicable inserts B26~B32

MDUNR/L



DN□□



• R type insert
(mm)

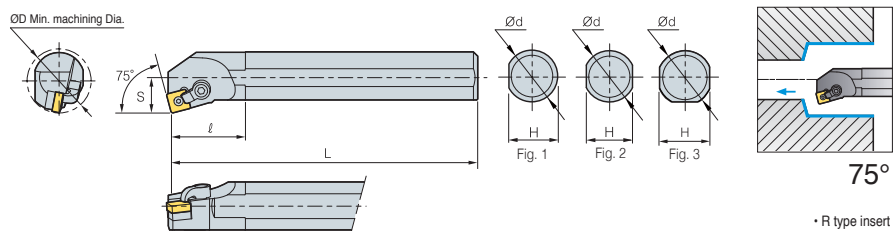
Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S32S-MDUNR/L-15-3	40	32	30	250	22	50	DN□□1504□□	CDH6N	DHA1/4-21	SD43D	SP4D	HW31.8L HW23.8L	3
S40T-MDUNR/L-15-3	50	40	38	300	27	60							
A32S-MDUNR/L-15-3	40	32	30	250	22	50							

Applicable inserts B33~B39

MSKNR/L



SN□□



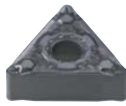
• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S25R-MSKNR/L-12	32	25	23	200	17	40	SN□□1204□□	CDH8N1	DHA5/16-28	SS43D	SP4D	HW39.7L HW23.8L	3
S32S-MSKNR/L-12	40	32	30	250	22	50							
S40T-MSKNR/L-12	50	40	38	300	27	60	SN□□1204□□	CDH8N1	DHA5/16-28	SS43D	SP4D	HW39.7L HW23.8L	1
A25R-MSKNR/L-12	32	25	23	200	17	40							
A32S-MSKNR/L-12	40	32	30	250	22	50							
A40T-MSKNR/L-12	50	40	38	300	27	60							

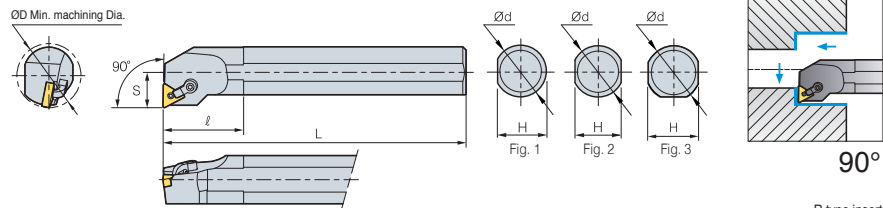
Applicable inserts B41~B48



MTFNR/L



TN□□


• R type insert
(mm)

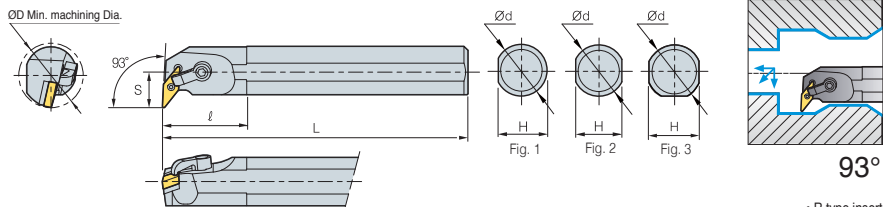
Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S25R-MTFNR/L-16	32	25	23	200	17	40	TN□□1604□□	CDH7N1	DHA10-32-19	-	SP3D3	HW23.8L	3
S32S-MTFNR/L-16	40	32	30	250	22	50		CDH7N1	DHA10-32-19	ST32D	SP3D	HW19.8L	
S40T-MTFNR/L-16	50	40	38	300	27	60		CDH7N1	DHA10-32-19	-	SP3D3	HW23.8L	
A25R-MTFNR/L-16	32	25	24	200	17	40	TN□□1604□□	CDH7N1	DHA10-32-19	-	SP3D3	HW23.8L	1
A32S-MTFNR/L-16	40	32	30	250	22	50		CDH7N1	DHA10-32-19	ST32D	SP3D	HW19.8L	3

Applicable inserts B49~B55

MVUNR/L



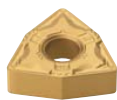
VN□□


• R type insert
(mm)

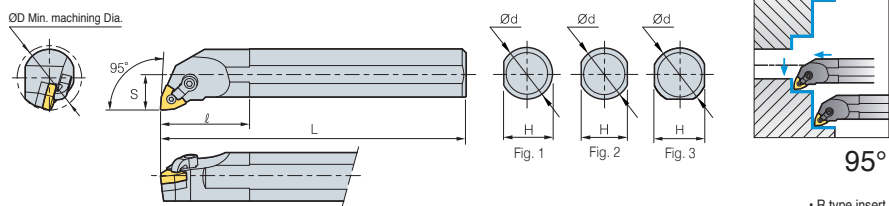
Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S32S-MVUNR/L-16	40	32	30	250	22	50	VN□□1604□□	CDH8N2	DHA5/16-28	SV32D	SP3D	HW39.7L HW19.8L	3
S40T-MVUNR/L-16	50	40	38	300	27	60		CDH8N2	DHA5/16-28	SV32D	SP3D	HW39.7L HW19.8L	
A32S-MVUNR/L-16	40	32	30	250	22	50	VN□□1604□□	CDH8N2	DHA5/16-28	SV32D	SP3D	HW39.7L HW19.8L	3
A40T-MVUNR/L-16	50	40	38	300	27	60		CDH8N2	DHA5/16-28	SV32D	SP3D	HW39.7L HW19.8L	

Applicable inserts B56~B57

MWLNRL



WN□□


• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Clamp	Clamp Screw	Shim	Shim pin	Wrench	Fig.
S25R-MWLNRL-06	32	25	23	200	17	40	WN□□0604□□	CDH7N	DHA10/32-19	-	SP3D3	HW23.8L HW19.8L	3
S32S-MWLNRL-06	40	32	30	250	22	50		CDH7N	DHA10/32-19	SW32D	SP3D	HW23.8L HW19.8L	
S40T-MWLNRL-06	50	40	38	300	27	60		CDH7N	DHA10/32-19	SW32D	SP3D	HW23.8L HW19.8L	
S25R-MWLNRL-08	32	25	23	200	17	40	WN□□0804□□	CDH6N	DHA1/4-21	-	SP4D3	HW31.8L HW23.8L	3
S32S-MWLNRL-08	40	32	30	250	22	50		CDH6N	DHA1/4-21	SW43D	SP4D	HW31.8L HW23.8L	
S40T-MWLNRL-08	50	40	38	300	27	60		CDH6N	DHA1/4-21	SW43D	SP4D	HW31.8L HW23.8L	
A25R-MWLNRL-06	32	25	24	200	17	40	WN□□0604□□	CDH7N	DHA10/32-19	-	SP3D3	HW31.8L	1
A32S-MWLNRL-06	40	32	31	250	22	50		CDH7N	DHA10/32-19	SW32D	SP3D	HW19.8L	3
A25R-MWLNRL-08	32	25	24	200	17	40	WN□□0804□□	CDH6N	DHA1/4-21	-	SP4D3	HW31.8L	1
A32S-MWLNRL-08	40	32	31	250	22	50		CDH6N	DHA1/4-21	SW43D	SP4D	HW23.8L	3

Applicable inserts B58~B61



Turning

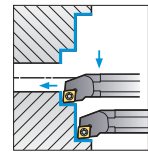
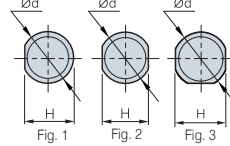
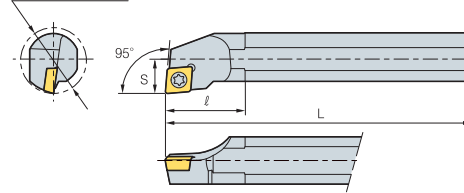
B

SCLCR/L



CC□□

ØD Min. machining Dia.



95°

Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S08K-SCLCR/L-06	11	8	7.2	125	6	12	CC□□0602□□	FTKA02555			TW07	2
S10K-SCLCR/L-06	13	10	9	125	7	16		FTKA02565	-	-	TW07P	
S10M-SCLCR/L-06	13	10	9	150	7	16						
S12M-SCLCR/L-06	16	12	11	150	9	20						
S16R-SCLCR/L-06	20	16	14	200	11	25						
S12M-SCLCR/L-09	16	12	11	150	9	20	CC□□09T3□□	FTGA03508	-	-	TW15P	2
S16R-SCLCR/L-09	20	16	14	200	11	25		FTGA03510			TW15P	
S20S-SCLCR/L-09	25	20	18	250	13	32		FTGA0411F	-	-	TW15P	
S25R-SCLCR/L-09	32	25	23	200	17	40						
S25R-SCLCR/L-12	32	25	23	200	17	40						
S32S-SCLCR/L-12	40	32	30	250	22	50	CC□□1204□□	FTGA0411F	SC42S	SHXN0610F	HW40L TW15P	3
S40T-SCLCR/L-12	50	40	38	300	27	60						
A08F-SCLCR/L-06	11	8	7.6	80	6	12		FTKA02555	-	-	TW07P	
A10H-SCLCR/L-06	13	10	9.5	100	7	16		FTKA02565	-	-	TW07P	
A12K-SCLCR/L-06	16	12	11.5	125	9	20						
A12K-SCLCR/L-09	16	12	11.5	125	9	20	CC□□09T3□□	FTGA03508	-	-	TW15P	1
A16M-SCLCR/L-09	20	16	15	150	11	25		FTGA03510	-	-	TW15P	
A20Q-SCLCR/L-09	25	20	19	180	13	32		FTGA0411F	-	-	TW15P	
A25R-SCLCR/L-09	32	25	24	200	17	40						
A25R-SCLCR/L-12	32	25	24	200	17	40						
A32S-SCLCR/L-12	40	32	31	250	22	50	CC□□1204□□	FTGA0411F	SC42S	SHXN0610F	HW40L,TW15P	3

Carbide shank type

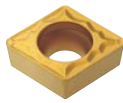
(mm)

Designation	ØD	Ød	H	L	S	Insert	Screw	Wrench	Fig.
C04G-SCLCR/L-03	5	4	3.8	90	2.5	CC□T0301□□	FTNA01633	TW06P	1
C05H-SCLCR/L-03	6	5	4.4	100	3				
C06H-SCLCR/L-04	7	6	5.4	100	3.5	CC□T0401□□	FTNA0238	TW06P	2
C07K-SCLCR/L-04	8	7	6.4	125	4				
C08K-SCLCR/L-06	10	8	7	125	5	CC□T0602□□	FTKA02555	TW07P	2
C10K-SCLCR/L-06	12	10	9	125	6		FTKA02565	TW07P	
C10M-SCLCR/L-06	12	10	9	150	6				
C12M-SCLCR/L-06	14	12	11	150	7				
C12Q-SCLCR/L-06	14	12	11	180	7				
C12M-SCLCR/L-09	15	12	11	150	8	CC□T09T3□□	FTGA03508	TW15P	2
C12Q-SCLCR/L-09	15	12	11	180	8				
C16R-SCLCR/L-09	20	16	15	200	10				
C16S-SCLCR/L-09	20	16	15	250	10				
C20R-SCLCR/L-09	25	20	18	200	13				
C20S-SCLCR/L-09	25	20	18	250	13	CC□T1204□□	FTGA0411F	TW15P	1
C25T-SCLCR/L-12	32	25	23	300	17				
E06H-SCLCR/L-04	7	6	5.4	100	3.5	CC□T0401□□	FTNA0238	TW06P	1
E07K-SCLCR/L-04	8	7	6.4	125	4				
E08K-SCLCR/L-06	10	8	7	125	5	CC□T0602□□	FTKA02555	TW07P	2
E10K-SCLCR/L-06	12	10	9	125	6		FTKA02565	TW07P	
E10M-SCLCR/L-06	12	10	9	150	6				
E12M-SCLCR/L-06	14	12	11	150	7				
E12Q-SCLCR/L-06	14	12	11	180	7				
E12M-SCLCR/L-09	15	12	11	150	8	CC□T09T3□□	FTGA03508	TW15P	2
E12Q-SCLCR/L-09	15	12	11	180	8				
E16R-SCLCR/L-09	20	16	15	200	11				
E16S-SCLCR/L-09	20	16	15	250	10				
E20R-SCLCR/L-09	25	20	18	200	13				
E20S-SCLCR/L-09	25	20	19	250	13	CC□T1204□□	FTGA0411F	TW15P	1
E25T-SCLCR/L-12	32	25	23	300	17				

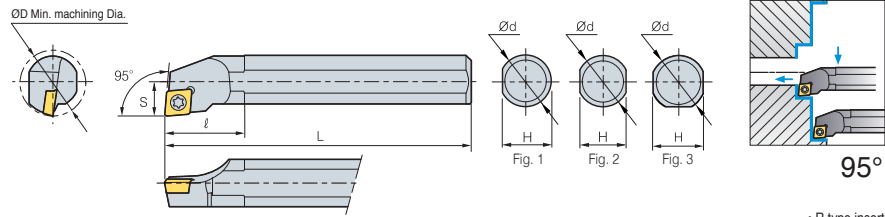
• Applicable inserts B62~B64



SCLPR/L



CP□□



Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S10M-SCLPR/L-08	11	8	7.2	150	7	16	CP□□0802□□	FTNA0305	TW09P	2
S12M-SCLPR/L-08	13	10	9	150	9	20		FTNA0307	TW09P	
S16N-SCLPR/L-09	16	12	11	160	11	25	CP□□0903□□	FTNA0408	TW15P	2
S16R-SCLPR/L-09	20	16	14	200	11	25				
S20N-SCLPR/L-09	25	20	18	160	13	32				3
S20S-SCLPR/L-09	32	25	23	250	17	40				
A10H-SCLPR/L-08	11	8	7.6	100	7	16	CP□□0802□□	FTNA0305	TW09P	1
A12K-SCLPR/L-08	13	10	9.5	125	9	20		FTNA0307	TW09P	
A16M-SCLPR/L-09	32	25	24	150	11	25	CP□□0903□□	FTNA0408	TW15P	1
A20Q-SCLPR/L-09	40	32	31	180	13	32				3

Carbide shank type

(mm)

Designation	ØD	Ød	H	L	S	Insert	 Screw	 Wrench	Fig.
C10K-SCLPR/L-08	12	10	9	125	6	CP□T0802□□	FTNA0305	TW09P	2
C10M-SCLPR/L-08	12	10	9	150	6				
C12M-SCLPR/L-08	15	12	11	150	7.5		FTNA0306	TW09P	
C12Q-SCLPR/L-08	15	12	11	180	7.5				
C12M-SCLPR/L-09	15	12	11	150	8	CP□T0903□□	FTNA0408	TW15P	2
C12Q-SCLPR/L-09	15	12	11	180	8				
C16R-SCLPR/L-09	20	16	15	200	10				
C16S-SCLPR/L-09	20	16	15	250	10				
C20R-SCLPR/L-09	25	20	18	200	13	CP□T0802□□	FTNA0305	TW09P	2
C20S-SCLPR/L-09	25	20	18	250	13				
E10K-SCLPR/L-08	12	10	9	125	6				
E10M-SCLPR/L-08	12	10	9	150	6				
E12M-SCLPR/L-08	15	12	11	150	7.5	CP□T0903□□	FTNA0407	TW09P	2
E12Q-SCLPR/L-08	15	12	11	180	7.5				
E12M-SCLPR/L-09	15	12	11	150	8				
E12Q-SCLPR/L-09	15	12	11	180	8				
E16R-SCLPR/L-09	20	16	15	200	10	CP□T0903□□	FTNA0408	TW15P	2
E16S-SCLPR/L-09	20	16	15	250	10				
E20R-SCLPR/L-09	25	20	18	200	13				
E20S-SCLPR/L-09	25	20	18	250	13				

Applicable inserts B66

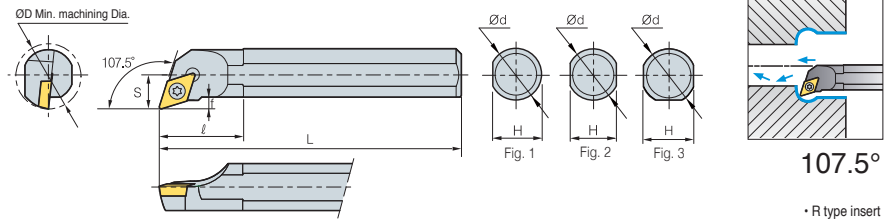


B Screw on System

SDQCR/L



DC□□



Steel shank type

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S10M-SDQCR/L-07	13	10	9	150	7	16	DC□□0702□□	FTKA02555	TW07P	2
S12M-SDQCR/L-07	16	12	11	150	9	20		FTKA02565	TW07P	
S16R-SDQCR/L-07	20	16	14	200	11	25	DC□□11T3□□	FTGA03508	TW15P	2
S16R-SDQCR/L-11	20	16	14	200	11	25		FTGA03510	TW15P	
S20S-SDQCR/L-11	25	20	18	250	13	32	DC□□0702□□	FTKA02555	TW07P	1
S25R-SDQCR/L-11	32	25	23	200	17	40		FTKA02565	TW07P	
A10H-SDQCR/L-07	13	10	9.5	100	7	16	DC□□11T3□□	FTGA03508	TW15P	1
A12K-SDQCR/L-07	16	12	11.5	125	9	20		FTGA03510	TW15P	
A16M-SDQCR/L-11	20	16	15	150	11	25	DC□□0702□□	FTKA02555	TW07P	1
A20Q-SDQCR/L-11	25	20	19	180	13	32		FTKA02565	TW07P	
A25R-SDQCR/L-11	32	25	24	200	17	40	DC□□11T3□□	FTGA03508	TW15P	1
								FTGA03510	TW15P	

Carbide shank type

Designation	ØD	Ød	H	L	S	Insert	Screw	Wrench	Fig.
C08K-SDQCR/L-07	10	8	7	125	6	DC□T0702□□	FTKA02555	TW07P	2
C10K-SDQCR/L-07	13	10	9	125	7		FTKA02565	TW07P	
C12M-SDQCR/L-07	16	12	11	150	9	DC□T11T3□□	FTGA03508	TW15P	2
C16R-SDQCR/L-07	20	16	15	200	11		FTGA03510	TW15P	
C16R-SDQCR/L-11	20	16	15	200	11	DC□T0702□□	FTKA02555	TW07P	2
C20R-SDQCR/L-11	25	20	18	200	13		FTKA02565	TW07P	
C20S-SDQCR/L-11	25	20	18	250	13	DC□T11T3□□	FTGA03508	TW15P	2
E08K-SDQCR/L-07	10	8	7	125	6		FTGA03510	TW15P	
E10K-SDQCR/L-07	13	10	9	125	7	DC□T0702□□	FTKA02555	TW07P	2
E12M-SDQCR/L-07	16	12	11	150	9		FTKA02565	TW07P	
E16R-SDQCR/L-07	20	16	15	200	11	DC□T11T3□□	FTGA03508	TW15P	2
E16R-SDQCR/L-11	20	16	15	200	11		FTGA03510	TW15P	
E20R-SDQCR/L-11	25	20	18	200	13	DC□T0702□□	FTKA02555	TW07P	2
E20S-SDQCR/L-11	25	20	19	250	13		FTKA02565	TW07P	

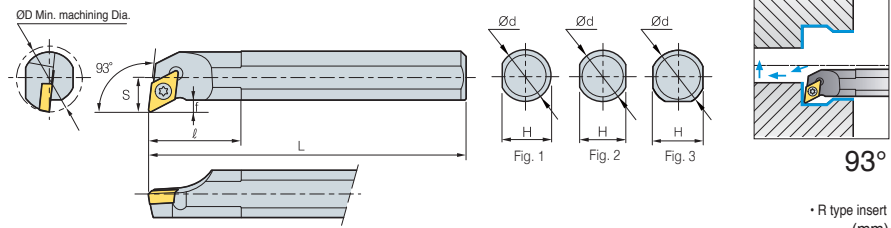
Applicable inserts B67~B69, B88



SDUCR/L



DC□□



Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S10M-SDUCR/L-07	13	10	9	150	7	16	DC□□0702□□	FTKA02555	TW07P	2
S12M-SDUCR/L-07	16	12	11	150	9	20		FTKA02565	TW07P	2
S16R-SDUCR/L-07	20	16	14	200	11	25	DC□□11T3□□	FTGA03508	TW15P	2
S16R-SDUCR/L-11	20	16	14	200	11	25		FTGA03510	TW15P	3
S20S-SDUCR/L-11	25	20	18	250	13	32				
S25R-SDUCR/L-11	32	25	23	200	17	40				
S32S-SDUCR/L-11	40	32	30	250	22	50	DC□□0702□□	FTKA02555	TW07P	1
A10H-SDUCR/L-07	13	10	9.5	100	7	16		FTKA02565	TW07P	1
A12K-SDUCR/L-07	16	12	11.5	125	9	20	DC□□11T3□□	FTGA03508	TW15P	1
A16M-SDUCR/L-07	20	16	15	150	11	25		FTGA03510	TW15P	1
A20Q-SDUCR/L-11	25	20	19	180	13	32	DC□□11T3□□			
A25R-SDUCR/L-11	32	25	24	200	17	40				

Carbide shank type

(mm)

Designation	ØD	Ød	H	L	S	Insert	Screw	Wrench	Fig.
C10K-SDUCR/L-07	13	10	9	125	7	DC□T0702□□	FTKA02555	TW07P	2
C10M-SDUCR/L-07	13	10	9	150	7		FTKA02565	TW07P	
C12M-SDUCR/L-07	16	12	11	150	9				
C12Q-SDUCR/L-07	16	12	11	180	9				
C16R-SDUCR/L-07	20	16	15	200	11	DC□T11T3□□	FTGA03508	TW15P	2
C16S-SDUCR/L-07	20	16	15	250	11		FTGA03510	TW15P	
C16R-SDUCR/L-11	20	16	15	200	11				
C16S-SDUCR/L-11	20	16	15	250	11				
C20R-SDUCR/L-11	25	20	18	200	13	DC□T0702□□	FTKA02555	TW07P	2
C20S-SDUCR/L-11	25	20	18	250	13		FTKA02565	TW07P	
C25T-SDUCR/L-11	32	25	23	300	17				
E10K-SDUCR/L-07	13	10	9	125	7				
E10M-SDUCR/L-07	13	10	9	150	7	DC□T11T3□□	FTGA03508	TW15P	2
E12M-SDUCR/L-07	16	12	11	150	9		FTGA03510	TW15P	
E12Q-SDUCR/L-07	16	12	11	180	9				
E16R-SDUCR/L-07	20	16	15	200	11				
E16S-SDUCR/L-07	20	16	15	250	11	DC□T11T3□□	FTKA02555	TW07P	2
E16R-SDUCR/L-11	20	16	15	200	11		FTKA02565	TW07P	
E16S-SDUCR/L-11	20	16	15	250	11				
E20R-SDUCR/L-11	25	20	18	200	13				
E20S-SDUCR/L-11	25	20	18	250	13	DC□T11T3□□	FTGA03508	TW15P	2
E25T-SDUCR/L-11	32	25	23	300	17		FTGA03510	TW15P	

Applicable inserts B67~B69, B88

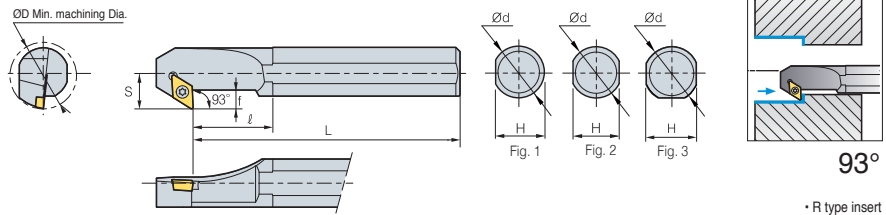


B Screw on System

SDZCR/L



DC□□



• R type insert
(mm)

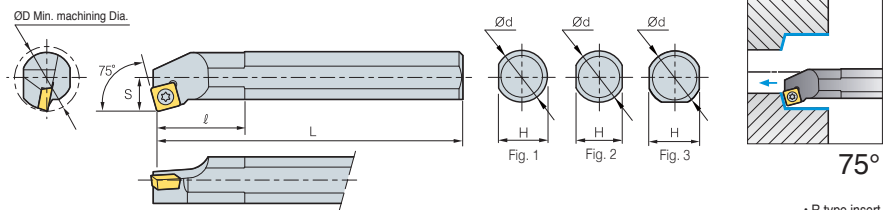
Designation	ØD	Ød	H	L	S	ℓ	f	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S16R-SDZCR/L-07	20	16	14	200	11	25	6.5	DC□□0702□□	FTKA02565	-	-	TW07P	2
S20S-SDZCR/L-07	25	20	18	250	13	32	7.5		FTGA03510	-	-	TW15P	3
S25R-SDZCR/L-11	32	25	23	200	17	40	9	DC□□11T3□□	FTGA03512	SD32S	SHXN0509F	TW15P, HW35L	
S32S-SDZCR/L-11	40	32	30	250	22	50	11		FTGA03510	-	-	TW15P	1
S40T-SDZCR/L-11	50	40	38	300	27	60	11		FTGA03512	SD32S	SHXN0509F	TW15P, HW35L	3
A25R-SDZCR/L-11	32	25	24	200	17	40	9						
A32S-SDZCR/L-11	40	32	30	250	22	50	11						

• Applicable inserts B67~B69, B88

SSKCR/L



SC□□



• R type insert
(mm)

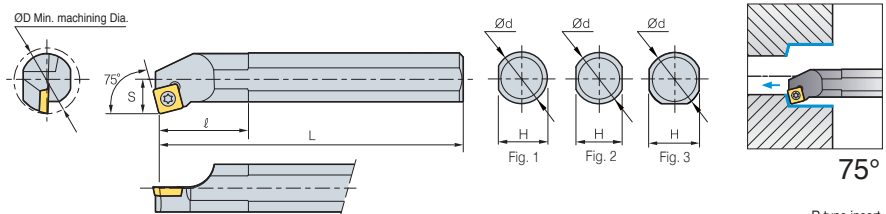
Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S12M-SSKCR/L-09	16	12	11	150	9	20	SC□□09T3□□	FTGA03507	-	-	TW15P	2
S16R-SSKCR/L-09	20	16	14	200	11	25		FTGA03508	-	-	TW15P	
S20S-SSKCR/L-09	25	20	18	250	13	32	SC□□1204□□	FTGA0411F	-	-	TW15P	3
S25R-SSKCR/L-12	32	25	23	200	17	40		FTGA0411F	SS42S	SHXN0610F	TW15P, HW40L	
S32S-SSKCR/L-12	40	32	30	250	22	50	SC□□09T3□□	FTGA03507	-	-	TW15P	1
A12K-SSKCR/L-09	16	12	11.5	125	9	20		FTGA03508	-	-	TW15P	
A16M-SSKCR/L-09	20	16	15	150	11	25	SC□□1204□□	FTGA0411F	-	-	TW15P	3
A20Q-SSKCR/L-09	25	20	19	180	13	32		FTGA0411F	SS42S	SFXN0610F	TW15P, HW40L	
A25R-SSKCR/L-12	32	25	24	200	17	40						
A32S-SSKCR/L-12	40	32	30	250	22	50						

• Applicable inserts B70~B71, B90

SSKPR/L



SP□□



• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S12M-SSKPR/L-09	16	12	11	150	9	20	SP□□09T3□□	FTNA0307	TW09P	2
S16N-SSKPR/L-09	20	16	14	160	11	25				
S16R-SSKPR/L-09	20	16	14	200	11	25				
S20N-SSKPR/L-09	25	20	18	160	13	32				
S20S-SSKPR/L-09	25	20	18	250	13	32	SP□□09T3□□	FTNA0307	TW09P	1
A12K-SSKPR/L-09	16	12	11.5	125	9	20				
A16M-SSKPR/L-09	20	16	15	150	11	25				
A20Q-SSKPR/L-09	25	20	19	180	13	32				

• Applicable inserts B72~B73

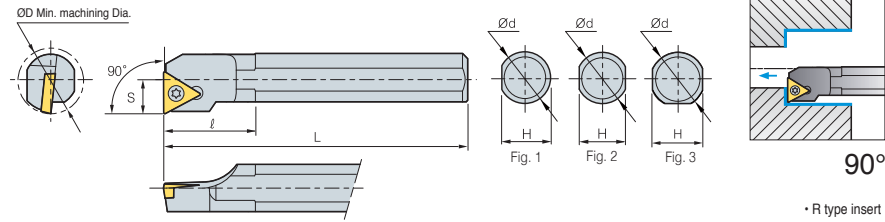
• Use left handed insert for right handed holder



STFCR/L



TC□□



Steel shank type

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S10M-STFCR/L-09	13	10	9	150	7	16	TC□□0902□□	FTKA02206	-	-	TW06P	2
S12M-STFCR/L-09	16	12	11	150	9	20						
S12M-STFCR/L-11	16	12	11	150	9	20	TC□□1102□□	FTKA02565	-	-	TW07P	2
S16R-STFCR/L-11	20	16	14	200	11	25						
S20S-STFCR/L-11	25	20	18	250	13	32	TC□□16T3□□	FTGA03510	-	-	TW15P	2 3
S20S-STFCR/L-16	25	20	18	250	13	32						
S25R-STFCR/L-16	32	25	23	200	17	40	TC□□16T3□□	FTGA03512	ST32S	SHXN0509F	TW15P, HW35L	3
S32S-STFCR/L-16	40	32	30	250	22	50						
S40T-STFCR/L-16	50	40	38	300	27	60	TC□□0902□□	FTKA02206	-	-	TW06P	1
A10H-STFCR/L-09	13	10	9.5	100	7	16						
A12K-STFCR/L-09	16	12	11.5	125	9	20	TC□□1102□□	FTKA02565	-	-	TW07P	1
A12K-STFCR/L-11	16	12	11.5	125	9	20						
A16M-STFCR/L-11	20	16	15	150	11	25	TC□□16T3□□	FTKA03510	-	-	TW15P	1 3
A20Q-STFCR/L-11	25	20	19	180	13	32						
A25R-STFCR/L-16	32	25	24	200	17	40	TC□□16T3□□	FTGA03512	ST32S	SHXN0509F	TW15P, HW35L	3
A32S-STFCR/L-16	40	32	30	250	22	50						

Carbide shank type

Designation	ØD	Ød	H	L	S	Insert	 Screw	 Wrench	Fig.
C08K-STFCR/L-09	10	8	7	125	5	TC□T0902□□	FTKA02206	TW06P	2
C10K-STFCR/L-09	12	10	9	125	6				
C10K-STFCR/L-11	12	10	9	125	6	TC□T1102□□	FTKA02565	TW07P	
C12M-STFCR/L-11	15	12	11	150	8				
C16R-STFCR/L-11	20	16	15	200	10				
C20R-STFCR/L-11	25	20	18	200	13				
C20S-STFCR/L-11	25	20	18	250	13	TC□T16T3□□	FTGA03510	TW15P	
C20R-STFCR/L-16	25	20	18	250	13				
E08K-STFCR/L-09	10	8	7	125	5	TC□T0902□□	FTKA02206	TW06P	2
E10K-STFCR/L-09	12	10	9	125	6				
E10K-STFCR/L-11	12	10	9	125	6	TC□T1102□□	FTKA02565	TW07P	
E12M-STFCR/L-11	15	12	11	150	8				
E16R-STFCR/L-11	20	16	15	200	11				
E20R-STFCR/L-11	25	20	18	200	13				
E20S-STFCR/L-11	25	20	18	250	13	TC□T16T3□□	FTGA03510	TW15P	
E20R-STFCR/L-16	25	20	18	200	13				
E20S-STFCR/L-16	25	20	19	250	13				

Applicable inserts B75~B76, B91

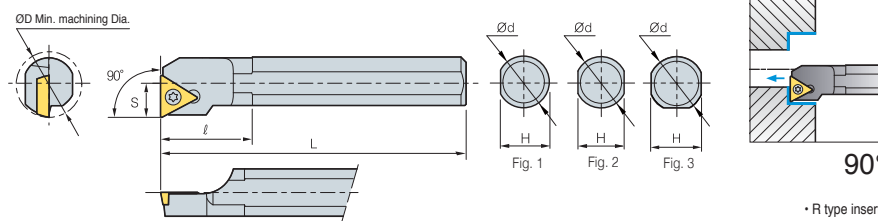


B Screw on System

STFPR/L



TP□□



Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S10M-STFPR/L-11	13	10	9	150	7	16	TP□□1103□□	FTGA03507	TW15P	2
S12M-STFPR/L-11	16	12	11	150	9	20		FTGA03508	TW15P	2
S16N-STFPR/L-11	20	16	14	160	11	25				
S16R-STFPR/L-11	20	16	14	200	11	25	TP□□1604□□	FTGA0411F	TW15P	2
S20N-STFPR/L-16	25	20	18	160	13	32				
S20S-STFPR/L-16	25	20	18	250	13	32				
A10H-STFPR/L-11	13	10	9.5	100	7	16	TP□□1103□□	FTGA03507	TW15P	1
A12K-STFPR/L-11	16	12	11	125	9	20		FTGA03508	TW15P	1
A16M-STFPR/L-11	20	16	15	150	11	25				
A20Q-STFPR/L-16	25	20	19	180	13	32	TP□□1604□□	FTGA0411F	TW15P	1

Carbide shank type

(mm)

Designation	ØD	Ød	H	L	S	Insert	 Screw	 Wrench	Fig
C08K-STFPR/L-08	10	8	7	125	5	TP□T0802□□	FTNA02205	TW06P	2
C10K-STFPR/L-11	12	10	9	125	6	TP□T1103□□	FTNA0305	TW09P	
C10M-STFPR/L-11	12	10	9	150	6		FTNA0307	TW09P	
C12M-STFPR/L-11	15	12	11	150	8				
C12Q-STFPR/L-11	15	12	11	180	8				
C16R-STFPR/L-11	20	16	15	200	10				
C16S-STFPR/L-11	20	16	15	250	10				
C20R-STFPR/L-11	25	20	18	200	13				
C20S-STFPR/L-11	25	20	18	250	13		TP□T1604□□	FTNA0408	
C20R-STFPR/L-16	25	20	18	200	13				
C20S-STFPR/L-16	25	20	18	250	13				
C25T-STFPR/L-16	32	25	23	300	17				
E08K-STFPR/L-08	10	8	7	125	5	TP□T0802□□	FTNA02205	TW06P	2
E10K-STFPR/L-11	12	10	9	125	6	TP□T1103□□	FTNA0305	TW09P	
E10M-STFPR/L-11	12	10	9	150	6		FTNA0307	TW09P	
E12M-STFPR/L-11	15	12	11	150	8				
E12Q-STFPR/L-11	15	12	11	180	8				
E16R-STFPR/L-11	20	16	15	200	10				
E16S-STFPR/L-11	20	16	15	250	10				
E20R-STFPR/L-11	25	20	18	200	13				
E20S-STFPR/L-11	25	20	18	250	13		TP□T1604□□	FTNA0408	
E20R-STFPR/L-16	25	20	18	200	13				
E20S-STFPR/L-16	25	20	18	250	13				
E25T-STFPR/L-16	32	25	23	300	17				

Applicable inserts B77~B79

• Use left handed insert for right handed holder

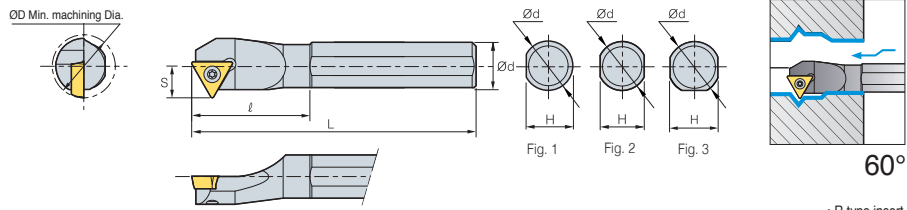


B Turning

STWPR/L



TP□□



• R type insert
(mm)

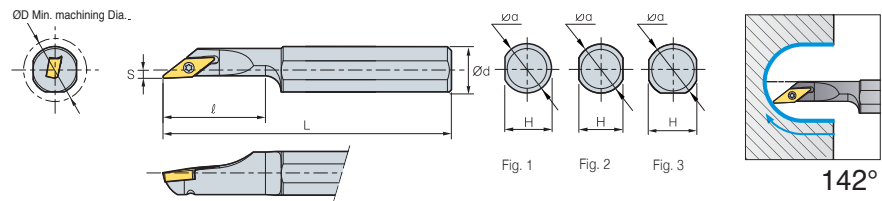
Designation	ØD	Ød	H	L	S	ℓ	Insert	 Screw	 Wrench	Fig.
S10M-STWPR/L-11	13	10	7	150	7	16	TPGH1102□□	FTNA0305	TW09P	2
S12M-STWPR/L-11	16	12	9	150	9	20	TPGH1103□□	FTNA0306	TW09P	
S16Q-STWPR/L-11	20	16	14	180	11	25	TPMT1103□□			
S20R-STWPR/L-11	25	20	18	200	13	32				

Applicable inserts B77~B79

SVJCR/L



VC□□



• R type insert
(mm)

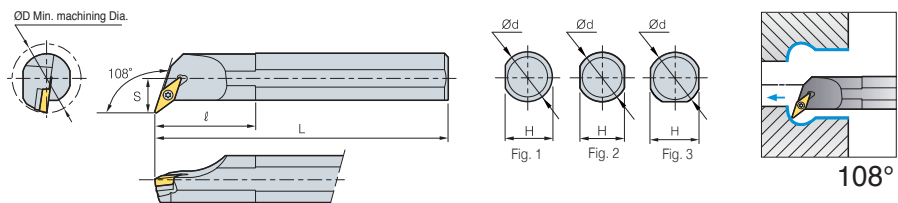
Designation	ØD	Ød	H	L	S	l	Insert	Screw	Wrench	Fig.
S12M-SVJCR/L-08	16	12	11	150	9	20	VCMT0802□□	FTNA0204	TW06P	2
S16Q-SVJCR/L-08	20	16	14	180	11	25				

Applicable inserts B82~B83

SVQBR/L



VB□□



• R type insert
(mm)

Designation	ØD	Ød	H	L	S	l	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S32S-SVQBR/L-16	40	32	30	250	22	50	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P HW35L	3
S40T-SVQBR/L-16	50	40	38	300	27	60						
A32S-SVQBR/L-16	40	32	30	250	22	50						

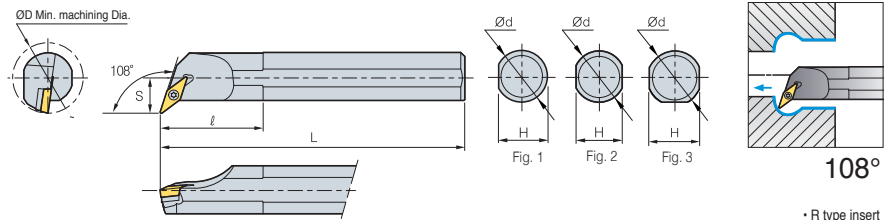
Applicable inserts B80~B81, B92

B Screw on System

SVQCR/L



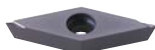
VC□□



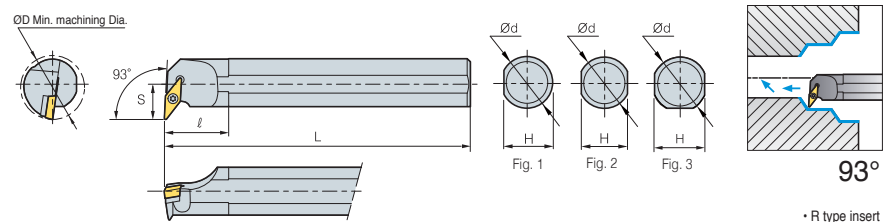
Designation	ØD	Ød	H	L	S	l	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S16R-SVQCR/L-11	20	16	14	200	11	25	VC□□1103□□	FTKA02565	-	-	TW07P	2
S20S-SVQCR/L-11	25	20	18	250	13	32						3
S25R-SVQCR/L-11	32	25	23	200	17	40						
S20S-SVQCR/L-13	25	20	18	250	13	32	VC□□1303□□	FTKA0307	-	-	TW07P	2
S25R-SVQCR/L-13	32	25	23	200	17	40						3
S25R-SVQCR/L-16	32	25	23	200	17	40						
S32S-SVQCR/L-16	40	32	30	250	22	50	VC□□1604□□	FTGA03510	-	-	TW15P	3
S40T-SVQCR/L-16	50	40	38	300	27	60		FTGA03512	SV32S	SHXN0509F	TW15P HW35L	

Applicable inserts B82~B83, B93

SVUBR/L



VB□□



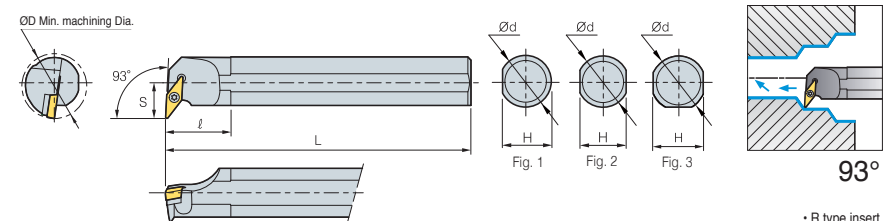
Designation	ØD	Ød	H	L	S	l	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S32S-SVUBR/L-16	40	32	30	250	22	50	VB□□1604□□	FTGA03512	SV32S	SHXN0509F	TW15P HW35L	3
S40T-SVUBR/L-16	50	40	38	300	27	60						
A32S-SVUBR/L-16	40	32	30	250	22	50						

Applicable inserts B80~B81, B92

SVUCR/L



VC□□



Designation	ØD	Ød	H	L	S	l	Insert	Screw	Shim	Shim Screw	Wrench	Fig.
S16R-SVUCR/L-11	20	16	14	200	11	25	VC□□1103□□	FTKA02565	-	-	TW07P	2
S20S-SVUCR/L-11	25	20	18	250	13	32						3
S25T-SVUCR/L-11	32	25	23	300	17	40						
S20S-SVUCR/L-13	25	20	18	250	13	32	VC□□1303□□	FTKA0307	-	-	TW09P	2
S25R-SVUCR/L-13	32	25	23	200	17	40						3
S25R-SVUCR/L-16	32	25	23	200	17	40						
S32S-SVUCR/L-16	40	32	30	250	22	50	VC□□1604□□	FTGA03510	-	-	TW15P	3
S40T-SVUCR/L-16	50	40	38	300	27	60		FTGA03512	SV32S	SHXN0509F	TW15P HW35L	

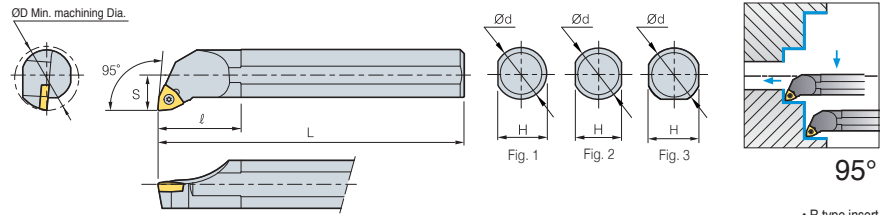
Applicable inserts B82~B83, B93



SWLCR/L



TP□□



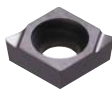
• R type insert
(mm)

Designation	ØD	Ød	H	L	S	l	Insert	Screw	Wrench	Fig.
S25R-SWLCR/L-08	32	25	23	200	17	40	TP□□1604□□	FTGA0411F	TW15P	3
S32S-SWLCR/L-08	40	32	30	250	22	50				1
A25R-SWLCR/L-08	32	25	24	200	17	40	TP□□1103□□	FTGA0411F	TW15P	3
A32S-SWLCR/L-08	40	32	30	250	22	50				3

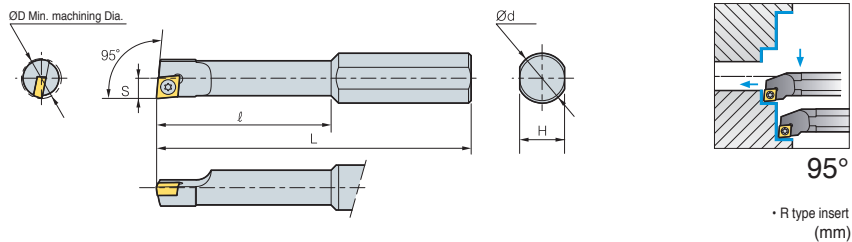
Applicable inserts B77~B79

B Compact Mini

SCLCR/L



CCET



Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench
S10H-SCLCR/L-0305	5	10	9	100	2.5	25	CCET0301□□	FTNA01633	TW06P
S10H-SCLCR/L-0306	6	10	9	100	3.0	25			
S10J-SCLCR/L-0407	7	10	9	110	3.5	30	CCET0401□□	FTNA0238	TW06P
S10J-SCLCR/L-0408	8	10	9	110	4.0	30			

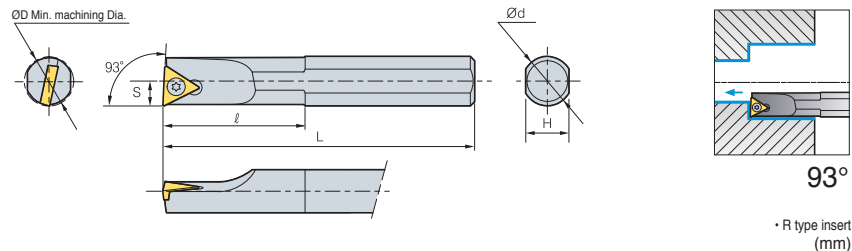
Applicable inserts B62

• Use left handed insert for right handed holder

STUBR/L



TB□□



Steel shank type

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench
S08K-STUBR/L-06	8	8	7	125	4	30	TB□□0601□□R/L	FTNA0204	TW06P
A08F-STUBR/L-06	8	8	7.5	80	4	30			

Carbide shank type

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench
C08K-STUBR/L-06	10	8	7	125	5	TB□T0601□□	FTNA0204	TW06P	(mm)
C10K-STUBR/L-06	12	10	9	125	6				
E08K-STUBR/L-06	10	8	7	125	5	TB□T0601□□	FTNA0204	TW06P	(mm)
E10K-STUBR/L-06	12	10	9	125	6				

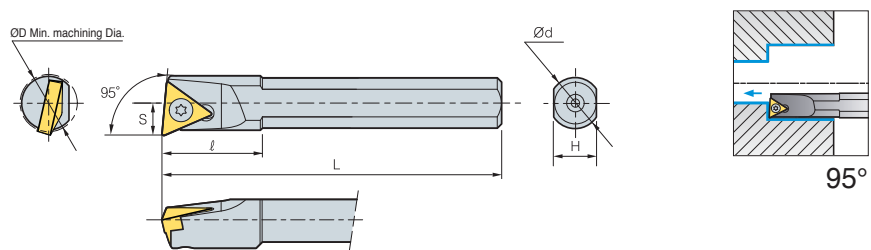
Applicable inserts B74

• Use left handed insert for right handed holder

STLBR/L



TB□□



Steel shank type

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench
S06H-STLBR/L-06-SP	8	6	5	100	3.8	12	TB□□0601□□R/L	FTNA0204	TW06P

Applicable inserts B74

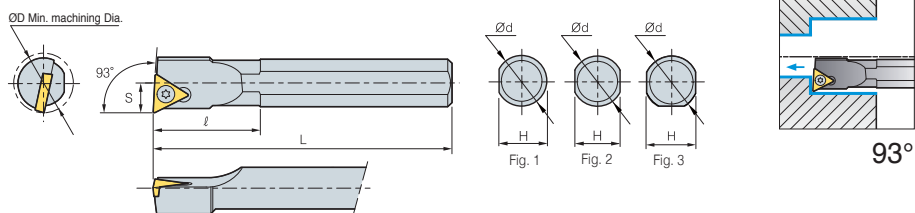
• Use left handed insert for right handed holder



STUPR/L



TP□□



Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S08K-STUPR/L-08	10	8	7	125	4	18	TP□□0802□□R/L	FTNA02205	TW06P	2
A08F-STUPR/L-08	10	8	7.5	80	4	18				

Carbide shank type

(mm)

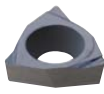
Designation	ØD	Ød	H	L	S	Insert	 Screw	 Wrench	Fig.
C08K-STUPR/L-08	10	8	7	125	5	TP□T0802□□	FTNA02205	TW06P	2
C10K-STUPR/L-11	12	10	9	125	6	TP□T1103□□	FTNA0305	TW09P	
C10M-STUPR/L-11	12	10	9	150	6		FTNA0307	TW09P	
C12M-STUPR/L-11	15	12	11	150	8				
C12Q-STUPR/L-11	15	12	11	180	8				
C16R-STUPR/L-11	20	16	15	200	10				
C16S-STUPR/L-11	20	16	15	250	10				
C20R-STUPR/L-11	25	20	18	200	13				
C20S-STUPR/L-11	25	20	18	250	13		TP□T1604□□	FTNA0408	
C20R-STUPR/L-16	25	20	18	200	13				
C20S-STUPR/L-16	25	20	18	250	13				
C25T-STUPR/L-16	32	25	23	300	17				
E08K-STUPR/L-08	10	8	7	125	5	TP□T0802□□	FTNA02205	TW06P	2
E10K-STUPR/L-11	12	10	9	125	6	TP□T1103□□	FTNA0305	TW09P	
E10M-STUPR/L-11	12	10	9	150	6		FTNA0307	TW09P	
E12M-STUPR/L-11	15	12	11	150	8				
E12Q-STUPR/L-11	15	12	11	180	8				
E16R-STUPR/L-11	20	16	15	200	10				
E16S-STUPR/L-11	20	16	15	250	10				
E20R-STUPR/L-11	25	20	18	200	13				
E20S-STUPR/L-11	25	20	18	250	13		TP□T1604□□	FTNA0408	
E20R-STUPR/L-16	25	20	18	200	13				
E20S-STUPR/L-16	25	20	18	250	13				
E25T-STUPR/L-16	32	25	23	300	17				

Applicable inserts B77~B79

• Use left handed insert for right handed holder

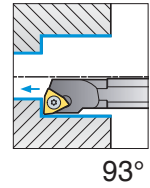
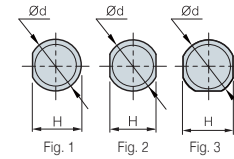
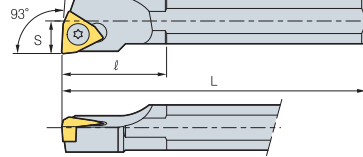


SWUBR/L



WB□T

OD Min. machining Dia.



Steel shank type

• R type insert
(mm)

Designation	ØD	Ød	H	L	S	ℓ	Insert	Screw	Wrench	Fig.
S05H-SWUBR/L-02	5.5	5	4.5	100	2.75	-	WBGT 0201□□R/L	FTNA0203	TW06P	2
S08K-SWUBR/L-02	8	8	7	125	4	30		FTNA02033		
S08K-SWUBR/L-S3	10	8	7	125	5	18		FTNA02205		
A08F-SWUBR/L-02	8	8	7.5	80	4	30		FTNA0203		
A08F-SWUBR/L-S3	10	8	7.5	80	5	16		FTNA02205		

Carbide shank type

(mm)

Designation	ØD	Ød	H	L	S	Insert	Screw	Wrench	Fig.
C05H-SWUBR/L-02	6	5	4.4	100	3	WB□T0201□□	FTNA0203	TW06P	1
C06H-SWUBR/L-02	7	6	5.4	100	3.5		FTNA02033	TW06P	2
C08K-SWUBR/L-02	9	8	7	125	4.5		FTNA02205	TW06P	
C08K-SWUBR/L-S3	10	8	7	125	4.5	WB□TS301□□	FTNA02205	TW06P	2
E06H-SWUBR/L-02	7	6	5.4	100	3.5	WB□T0201□□	FTNA0203	TW06P	1
E08K-SWUBR/L-02	9	8	7	125	4.5		FTNA02033	TW06P	2
E08K-SWUBR/L-S3	10	8	7	125	5	WB□TS301□□	FTNA02205	TW06P	

Applicable inserts B85

• Use left handed insert for right handed holder



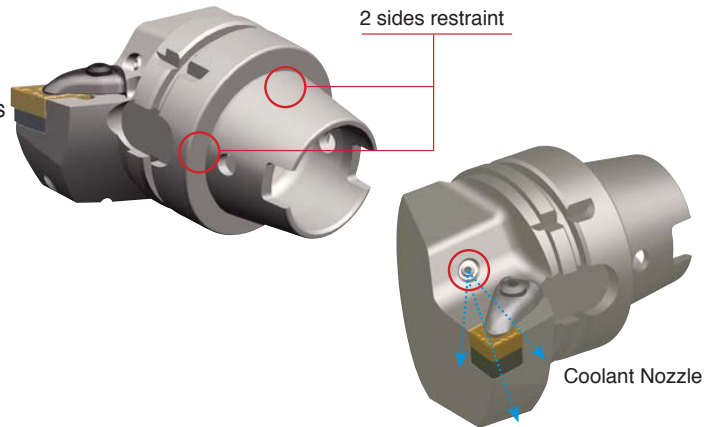
※ See page B130 for applicable sleeves



2 sides restraint - side and taper part

HSK Tooling System [For Multi-task Machines]

- 2 sides restraint - side and taper part
- Toughness guaranteed for static and dynamic movements
- Precision guaranteed on shaft and repeat directions
- Suitable at high speeds
- Suitable for small work pieces
- Coolant Nozzle is easily adjustable



HSK tooling code system

Insert Shape: C: 80° Diamond, D: 55° Diamond, S: 90° Square, T: 60° Triangle, V: 35° Diamond, W: 80° Hexagon
Clearance angle of insert: N = 0°, B = 5°
Length of tool holder: DX: 65, H: 100, L: 140

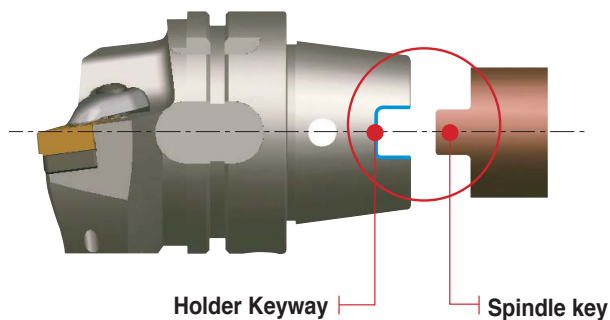
HSK Tooling Code Example: H63T D C L N R DX - 12

Taper design & size: ICTM=HSK standard
Clamping Type: D: Double Clamp, M: Multi Clamp, P: Lever Lock, S: Screw On, W: Wedge Clamp
Holder Style: E (60°), G (90°), J (93°), L (95°), N (62.5°), M (50°), V (72.5°)
Hand: R: Right, L: Left, N: No Hand
Cutting edge Length: T, C, D, V (all with length L)

ICTM (Interface committee for turning mill)

- Interface for Multi-task machines turning tool, which is tooling system based on ICTM standard from 17 major japanese companies cooperation and is compatible with conventional HSK-A type and common to Multi-task machines and machining centers

Tolerance of keyway has been improved: HSK-T63



Tolerance comparison (Example)

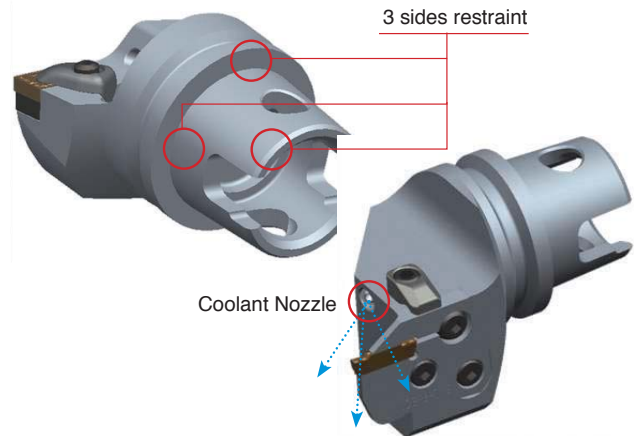
Remarks	Maximum Tolerance	Minimum Tolerance
ICTM STANDARD HSK-T63	0.075	0.035
ISO STANDARD HSK-A63	0.33	0.08

B Technical Information for KM Tooling System

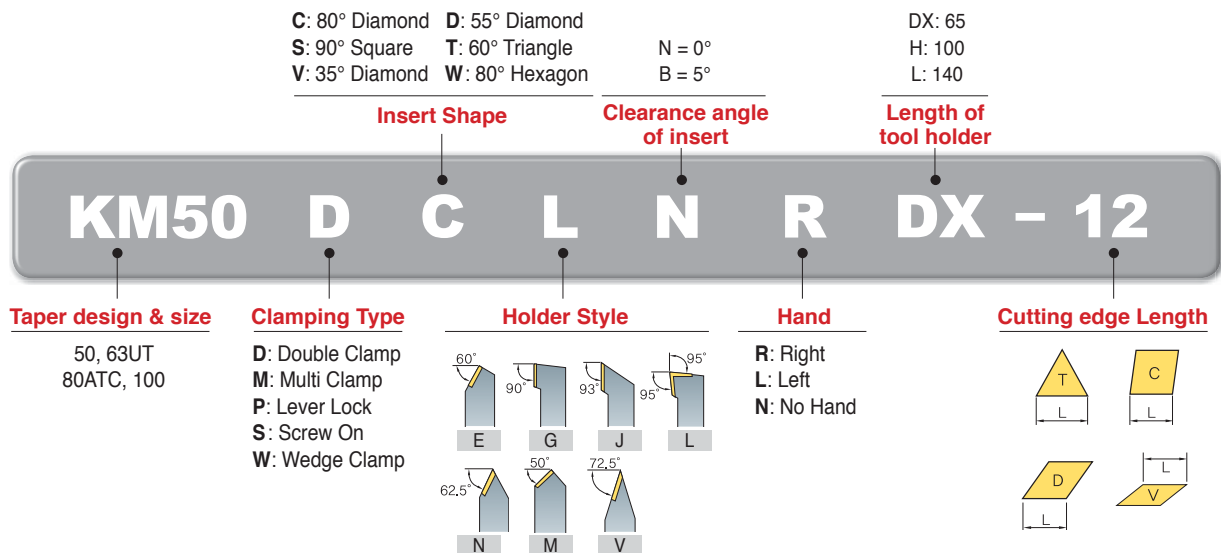
3 Face Binding - Superior precision

KM Tooling System [For Multi-task Machines]

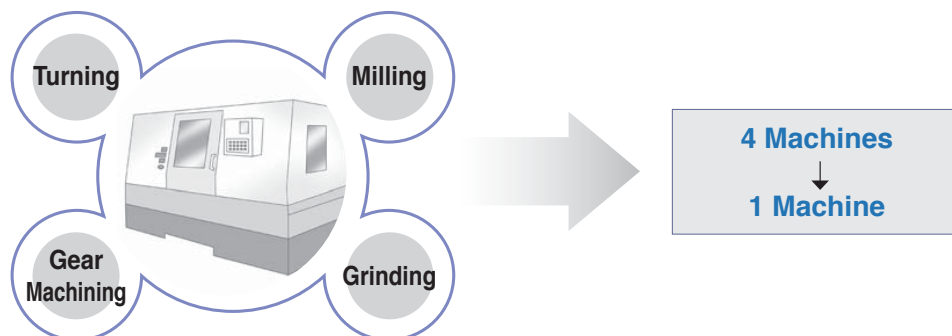
- 3 Face Binding / Superior precision
- Flexible Clamping System / Superior Rigidity
- Various Size & Style
- Appropriate for Turning & Milling
- Adjustable coolant direction with Coolant Nozzle



KM tooling code system



Multi-tasking machine



KM Tooling system is superior for wide application.

External Process

Internal Process

Grooving Process

Drill Process

Parting-off Process

KM50, KM63UT, KM80, KM100 Standard and Special type can be produced.



B

Turning

Index for HSK Tooling System

Cutting Shape								
Designation	H63T-DCLNR/L-DX12	H63T-DCMNN-H/L12	H63T-DDJNR/L-DX15	H63T-DDNNN-H/L15	H63T-PCLNR/L-DX12	H63T-PCMNN-H/L12	H63T-PDJNR/L-DX15	H63T-PDNNN-H/L15
Approach angle	95°	95°	93°	107.5°	95°	95°	93°	107.5°
Page	B210	B210	B210	B210	B211	B211	B211	B211
Turning	●	●	●	●	●	●	●	●
Copying			●	●			●	●
Facing	●	●	●	●	●	●	●	●
Back turning	●	●	●	●	●	●	●	●
Internal turning								

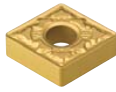
Cutting Shape								
Designation	H63T-PRDCR-DX12	H63T-PRDCN-H/L12	H63T-SVPBR/L-DX16	H63T-SVVBH-H/L16	H63T-A25K/A32L-DCLNR/L-12	H63T-MCFR/L	H63T-MCHR/L	
Approach angle	-	-	117.5°	117.5°	95°	-	-	
Page	B212	B212	B212	B212	B214	B214	B213	
Turning	●	●	●	●	●	●		
Copying	●	●	●	●		●		
Facing	●	●	●	●	●	●	●	
Back turning	●	●	●	●	●			
Internal turning					●			

Index for KM Tooling System

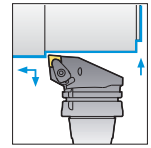
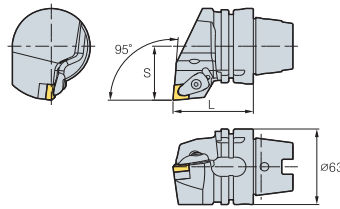
Cutting Shape						
Designation	KM50-DCLNR/L-C12 KM63UT-DCLNR/L-D12	KM50-DCMNN-C12 KM63UT-DCMNN-D12	KM50-DDJNR/L-C15(-3) KM63UT-DCLNR/L-D15(-3)	KM50-DDNNN-C15(-3) KM63UT-DDNNN-D15(-3)	KM50-A25K-DCLNR/L-12 KM50-A32K-DCLNR/L-12 KM63UT-A25K-DCLNR/L-12 KM63UT-A32L-DCLNR/L-12	KM50-PCLNR/L-C12 KM63UT-PCLNR/L-D12
Approach angle	95°	95°	93°	107.5°	95°	95°
Page	B216	B216	B216	B216	B219	B217
Turning	●	●	●	●	●	●
Copying			●	●		
Facing	●	●	●	●	●	●
Back turning	●	●	●	●	●	●
Internal turning					●	

Cutting Shape						
Designation	KM50-PCMNN-C12 KM63UT-PCMNN-D12	KM50-PDJNR/L-C15(-3) KM63UT-PCLNR/L-D15(-3)	KM50-PDNNN-C15(-3) KM63UT-PDNNN-D15(-3)	KM50-MCHR/L KM63UT-MCHR/L		
Approach angle	95°	93°	107.5°	-		
Page	B217	B218	B218	B218		
Turning	●	●	●	●		
Copying		●	●	●		
Facing	●	●	●			
Back turning	●	●	●	●		
Internal turning						

DCLNR/L



CN□□



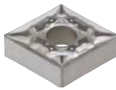
95°

• R type insert
(mm)

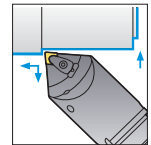
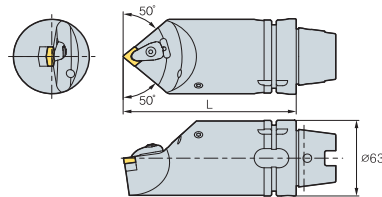
Designation	L	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench	Coolant Pipe
H63T-DCLNR/L-DX12	65	45	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	CN0605	-	HW30P	CP63T

Applicable inserts B26~B32

DCMNN



CN□□



95°

(mm)

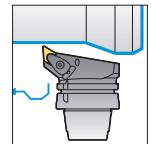
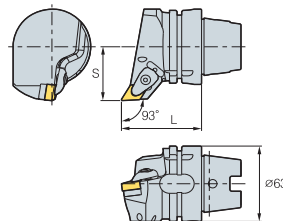
Designation	L	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench	Coolant Pipe
H63T-DCMNN-H12	100	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P	CP63T
H63T-DCMNN-L12	140										

Applicable inserts B26~B32

DDJNR/L



DN□□



93°

• R type insert
(mm)

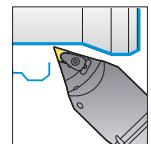
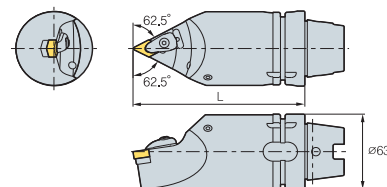
Designation	L	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench	Coolant Pipe
H63T-DDJNR/L-DX15	65	45	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	-	HW30P	CP63T
H63T-DDJNR/L-DX15-3	65	45	DN□□1504□□			SD44V						

Applicable inserts B33~B39

DDNNN



DN□□



107.5°

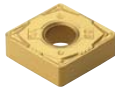
(mm)

Designation	L	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench	Coolant Pipe
H63T-DDNNN-H15	100	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P	CP63T
H63T-DDNNN-L15	140										
H63T-DDNNN-H15-3	100	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P	CP63T
H63T-DDNNN-L15-3	140										

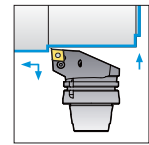
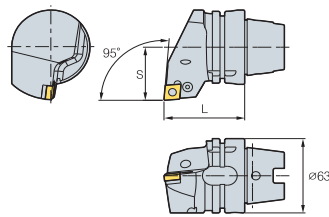
Applicable inserts B33~B39



PCLNR/L



CN□□



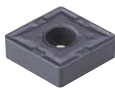
95°

• R type insert
(mm)

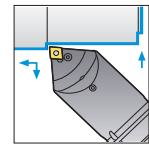
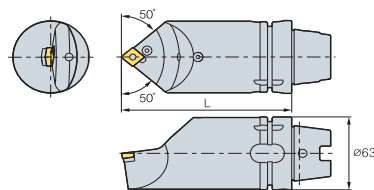
Designation	L	S	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PCLNR/L-DX12	65	45	CN□□1204□□	LV4N	VHX0820N	SC42N	SP4N	LSPS4	CN0605	-	HW30L	CP63T

Applicable inserts B26~B32

PCMNN



CN□□



95°

(mm)

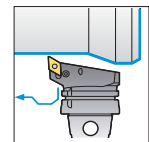
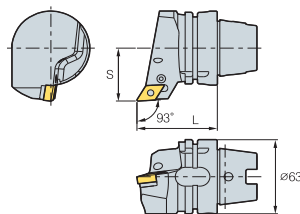
Designation	L	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PCMNN-H12	100	CN□□1204□□	LV4N	VHX0820N	SC42N	SP4N	LSPS4	CN0605	KHA0808	HW30L	CP63T
H63T-PCMNN-L12	140										

Applicable inserts B26~B32

PDJNR/L



DN□□



95°

• R type insert
(mm)

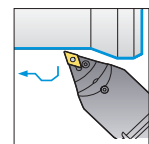
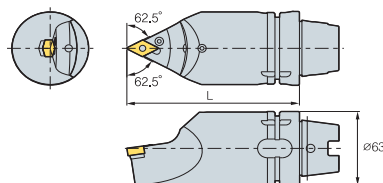
Designation	L	S	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PDJNR/L-DX15	65	45	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	-	HW30L	CP63T
H63T-PDJNR/L-DX15-3	65	45	DN□□1504□□									

Applicable inserts B33~B39

PDNNN



DN□□



107.5°

(mm)

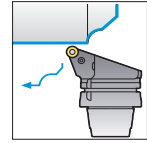
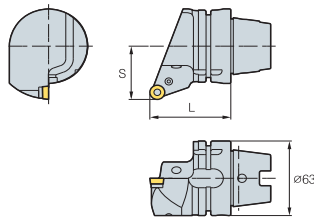
Designation	L	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PDNNN-H15	100	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	KHA0808	HW30L	CP63T
H63T-PDNNN-L15	140										
H63T-PDNNN-H15-3	100	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	CN0605	KHA0808	HW30L	CP63T
H63T-PDNNN-L15-3	140										

Applicable inserts B33~B39

PRGCR/L



RCMX1204M0



• R type insert
(mm)

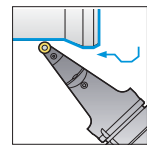
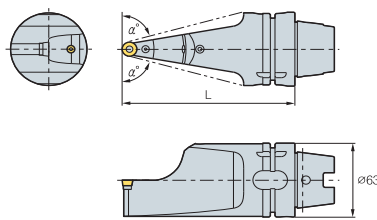
Designation	L	S	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PRGCR/L-DX12	65	45	RCMX1204M0	LR12	VHX0617	SR12	SP3	LSPS3	CN0605	-	HW25L	CP63T

➔ Applicable inserts B70

PRDCN



RCMX1204M0



(mm)

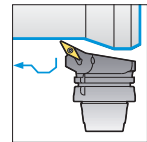
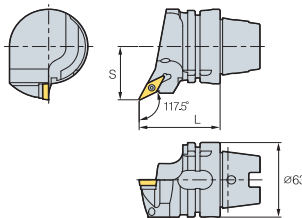
Designation	L	α°	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench	Coolant Pipe
H63T-PRDCN-H12	100	69	RCMX1204M0	LR12	VHX0617	SR12	SP3	LSPS3	CN0605	-	HW25L	CP63T
H63T-PRDCN-L12	140	75										

➔ Applicable inserts B70

SVPBR/L



VB□T



117.5°

• R type insert
(mm)

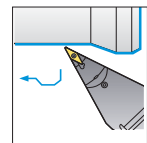
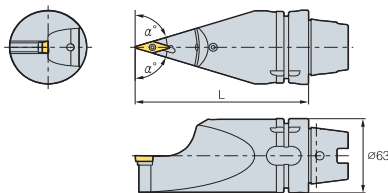
Designation	L	S	Insert	Screw	Shim Screw	Shim	Nozzle	Plug	Wrench	Wrench	Coolant Pipe
H63T-SVPBR/L-DX16	65	45	VB□T1604□□	FTGA03512	SHXN0509F	SV32S	CN0605	-	TW15P	HW32L	CP63T

➔ Applicable inserts B80~B81, B92

SVVBN



VB□T



117.5°

(mm)

Designation	L	α°	Insert	Screw	Shim Screw	Shim	Nozzle	Plug	Wrench	Wrench	Coolant Pipe
H63T-SVVBN-H16	100	66.5	VB□T1604□□	FTGA03512	SHXN0509F	SV32S	CN0605	KHA0808	TW15P	HW32L	CP63T
H63T-SVVBN-L16	140	72.5									

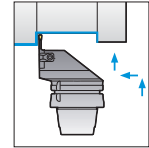
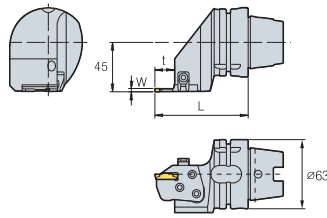
➔ Applicable inserts B80~B81, B92



MCHR/L



MGMN / MGMR/L
MGGN / MRMN



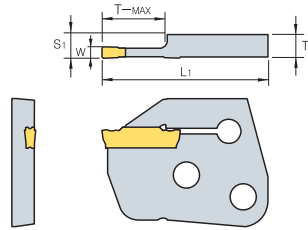
• R type insert
(mm)

Designation	L	t	W	T-MAX	Insert	Cartridge	Clamp	Clamp Screw	Hinge Screw	Screw	Nozzle	Plug	Wrench	Coolant Pipe
H63T-MCHR/L	85	18	3	16	MGMN	MCER/L3-T16	CHX8N	DHA0818F	RHA0613	FHGA0618	CN0605	-	HW40L	CP63T
	85	18	4	16	MGMR/L	MCER/L4-T16								
	89	22	5	20	MGGN	MCER/L5-T20								
	89	22	6	20	MRMN	MCER/L6-T20								

MCER/L (Cartridge)



MGMN / MGMR/L
MGGN / MRMN



• R type insert
(mm)

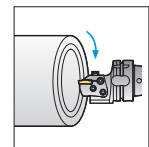
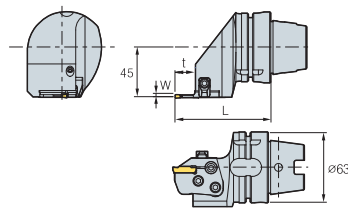
Designation		L	L1	S1	T-MAX	Insert		Tool holders
						W	Designation	
MCER/L	3-T16	6.00	44.5	6.35	16	3	MGMN	H63T-MCHR/L
	4-T16	5.97	44.5	6.35	16	4	MGMR/L	
	5-T20	5.87	48.5	6.35	20	5	MGGN	
	6-T20	5.82	48.5	6.35	20	6	MGMN	

➔ Applicable inserts B26~B27

MCHR/L



MFMN300
MGMN400

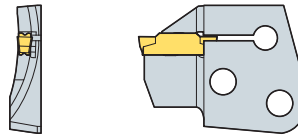
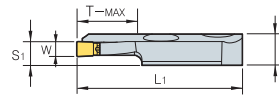


• R type insert
(mm)

Designation	L	t	W	T-MAX	Insert	Cartridge	Clamp	Clamp Screw	Hinge Screw	Screw	Nozzle	Plug	Wrench	Coolant Pipe
H63T-MCHR/L	85	18	3	16	MFMN300	MCFR/L3-24/35-T16	CHX8N	DHA0818F	RHA0613	FHGA0618	CN0605	-	HW40L	
	85	18	3	16		MCFR/L3-29/40-T16								
	85	18	3	16		MCFR/L3-34/50-T16								
	85	18	3	16		MCFR/L3-44/70-T16								
	85	18	3	16		MCFR/L3-64/99-T16								
	85	18	3	16	MGMN400	MCFR/L4-44/60-T16								
	85	18	3	16		MCFR/L4-60/120-T16								
	85	18	3	16		MCFR/L4-112/200-T16								



MCFR/L (Cartridge)

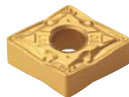


• R type insert
(mm)

Designation		T	L1	S1	T-MAX	Insert		Tool holders
						W	Designation	
MCFR/L3-	24/35-T16	8.00	44.5	6.35	16	3	MFMN300	H63T-MCHR/L
	29/40-T16	8.00	44.5	6.35	16	3		
	34/50-T16	8.00	44.5	6.35	16	3		
	44/70-T16	8.00	44.5	6.35	16	3		
	64/99-T16	8.00	44.5	6.35	16	3		
MCFR/L4-	44/60-T16	7.97	44.5	6.35	16	4	MGMN400	
	60/120-T16	7.97	44.5	6.35	16	4		
	112/200-T16	7.97	44.5	6.35	16	4		

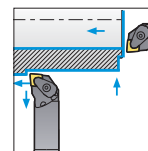
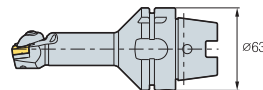
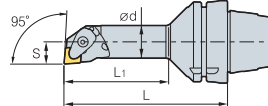
➔ Applicable inserts B26~B27

DCLNR/L



CN□□

ØD Min. machining Dia.



95°

• R type insert
(mm)

Designation	ØD	Ød	L	L1	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench	Coolant Pipe
H63T-A25K-DCLNR/L-12	32	25	125	80	17	CN□□1204□□	CVH4	CHX0518	SC42V	FTKA0410	SPR0714	CN0605	-	HW30P	CP63T
H63T-A32L-DCLNR/L-12	40	32	140	98	22										

➔ Applicable inserts B26~B32

Blank Tool

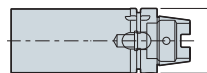


Fig. 1

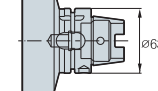
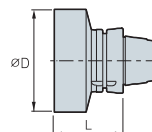


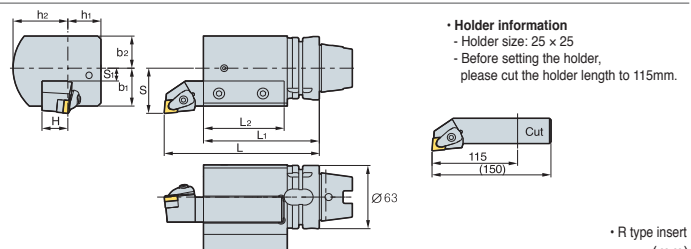
Fig. 2

(mm)

Designation	ØD	L	Fig.	Coolant Pipe
HSK-T63-BL62-102	62	102	1	CP63T
HSK-T63-BL62-142	62	142	2	
HSK-T63-BL100-67	100	67	1	
HSK-T63-BL120-70	120	70	2	

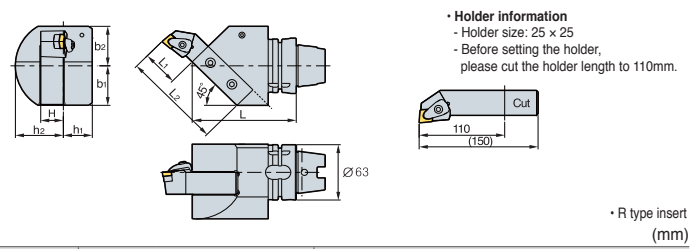


EV2525R/L-112



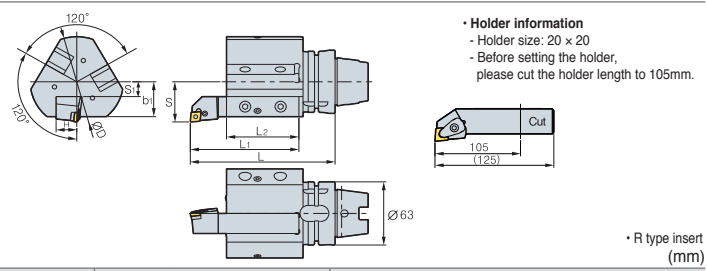
Designation	L	L1	L2	H	h1	h2	S	S1	b1	b2	Screw	Plug	Nozzle	Wrench	Coolant Pipe
EV2525R/L-112	150	112	77	25	32	53	45	12.75	37.75	32	KHA1231	KHA0808	CN0605	HW50L	CP63T

EV2525R/L-115



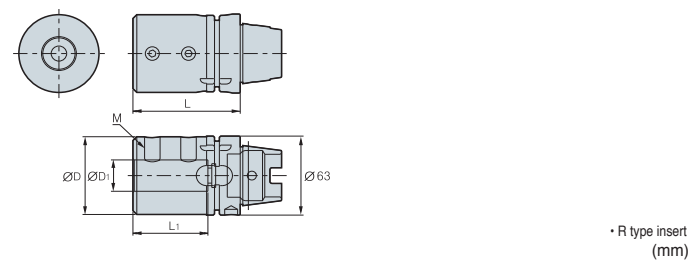
Designation	L	L1	L2	H	h1	h2	b1	b2	Screw	Plug	Nozzle	Wrench	Coolant Pipe
EV2525R/L-115	115	40	110	25	32	53	45	45	KHA1231	KHA0808	CN0605	HW50L	CP63T

EV2020R/L-105-3



Designation	L	L1	L2	H	ØD	S	S1	B1	Screw	Plug	Nozzle	Wrench	Coolant Pipe
EV2020R/L-105-3	140	105	70	20	90	40	15	35	KHA1231	KHA0808	CN0605	HW50L	CP63T

B○○-○○



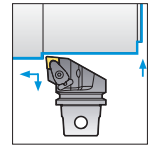
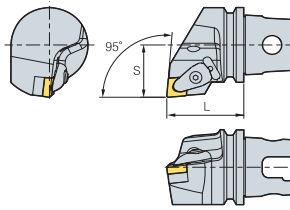
Designation	ØD	D1	L	L1	M	Screw	Wrench	Coolant Pipe
B08-65	28	8	65	40	M8	KHA1218	HW50L	CP63T
B10-70	35	10	70	45	M8			
B12-70	42	12	70	45	M8			
B16-75	48	16	75	50	M10			
B20-75	52	20	75	50	M10			
B25-83	62	25	83	58	M12			
B32-87	62	32	87	62	M12			
B40-97	65	40	97	72	M16			

B KM Tooling System

DCLNR/L



CN□□



95°

• R type insert
(mm)

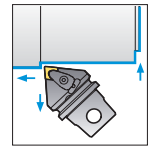
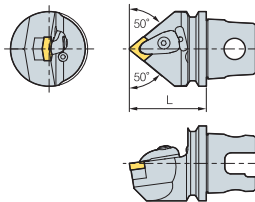
Designation	L	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench
KM50-DCLNR/L-C12	50	35	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	CN0605	-	HW30P
KM63UT-DCLNR/L-D12	60	43									

➔ Applicable inserts B26~B32

DCMNN



CN□□



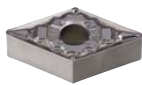
95°

(mm)

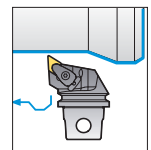
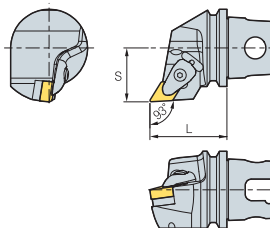
Designation	L	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench
KM50-DCMNN-C12	50	CN□□1204□□	CVH4	CHX0518	SC44V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P
KM63UT-DCMNN-D12	60									

➔ Applicable inserts B26~B32

DDJNR/L



DN□□



93°

• R type insert
(mm)

Designation	L	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench
KM50-DDJNR/L-C15	50	35	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	-	HW30P
KM50-DDJNR/L-C15-3	50	35	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	-	HW30P
KM63UT-DDJNR/L-D15	60	43	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	-	HW30P
KM63UT-DDJNR/L-D15-3	60	43	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	-	HW30P

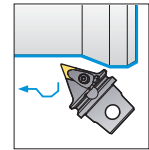
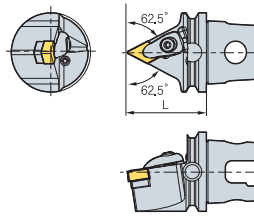
➔ Applicable inserts B33~B39



DDNNN



DN□□



117.5°

(mm)

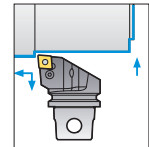
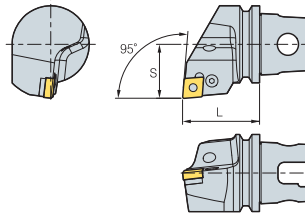
Designation	L	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench
KM50-DDNNN-C15	50	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P
KM50-DDNNN-C15-3	50	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P
KM63UT-DDNNN-D15	60	DN□□1506□□	CVH4	CHX0518	SD43V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P
KM63UT-DDNNN-D15-3	60	DN□□1504□□	CVH4	CHX0518	SD44V	FTKA0410	SPR0714	CN0605	KHA0808	HW30P

Applicable inserts B33~B39

PCLNR/L



CN□□



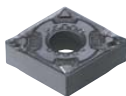
95°

• R type insert
(mm)

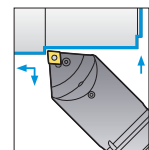
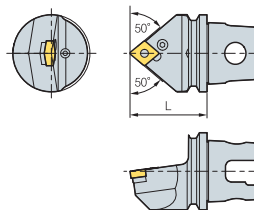
Designation	L	S	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench
KM50-PCLNR/L-C12	50	35	CN□□1204□□	LV4N	VHX0820N	SC42N	SP4N	LSPS4	CN0605	-	HW30L
KM63UT-PCLNR/L-D12	60	43									

Applicable inserts B26~B32

PCMNN



CN□□



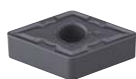
95°

(mm)

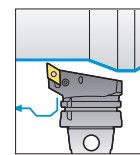
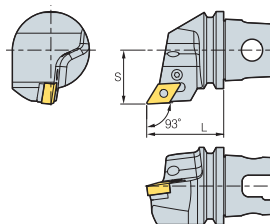
Designation	L	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench
KM50-PCMNN-C12	50	CN□□1204□□	LV4N	VHX0820N	SC42N	SP4N	LSPS4	CN0605	KHA0808	HW30L
KM63UT-PCMNN-D12	60									

Applicable inserts B26~B32

PDJNR/L



DN□□



93°

• R type insert
(mm)

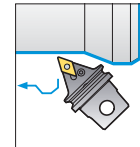
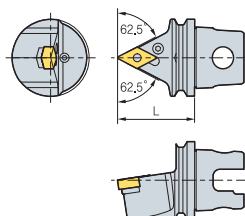
Designation	L	S	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench
KM50-PDJNR/L-C15	50	35	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	-	HW30L
KM50-PDJNR/L-C15-3	50	35	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	CN0605	-	HW30L
KM63UT-PDJNR/L-D15	60	43	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	-	HW30L
KM63UT-PDJNR/L-D15-3	60	43	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	CN0605	-	HW30L

Applicable inserts B33~B39

PDNNN



DN□□



107.5°

(mm)

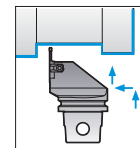
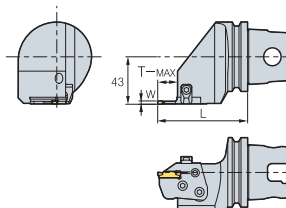
Designation	L	Insert	Lever	Screw	Shim	Shim pin	Punching	Nozzle	Plug	Wrench
KM50-PDNNN-C15	50	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	KHA0808	HW30L
KM50-PDNNN-C15-3	50	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	CN0605	KHA0808	HW30L
KM63UT-PDNNN-D15	60	DN□□1506□□	LV4BN	VHX0821N	SD42N	SP4N	LSPS4	CN0605	KHA0808	HW30L
KM63UT-PDNNN-D15-3	60	DN□□1504□□	LV4BN	VHX0821N	SD43N	SP4N	LSPS4	CN0605	KHA0808	HW30L

Applicable inserts B33~B39

MCHR/L



MGMN / MGMR/L
MGGN / MRMN



• R type insert
(mm)

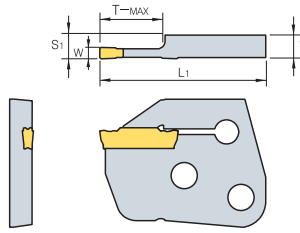
Designation	S	L	t	W	T-MAX	Insert	Cartridge	Clamp	Clamp Screw	Hinge Screw	Screw	Nozzle	Plug	Wrench
KM50-MCHR/L	35	72.5	18	3	16	MGMN MGMR/L MGGN MRMN	MCER/L3-T16	CHX8N	DHA0818F	RHA0613	FHGA0618	CN0605	-	HW40L
	35	72.5	18	4	16		MCER/L4-T16							
	35	76.5	22	5	20		MCER/L5-T20							
	35	76.5	22	6	20		MCER/L6-T20							
KM63UT-MCHR/L	43	81.5	18	3	16	MGMN MGMR/L MGGN MRMN	MCER/L3-T16	CHX8N	DHA0818F	RHA0613	FHGA0618	CN0605	-	HW40L
	43	81.5	18	4	16		MCER/L4-T16							
	43	85.5	22	5	20		MCER/L5-T20							
	43	85.5	22	6	20		MCER/L6-T20							



MCER/L (Cartridge)



MGMN / MGMR/L
MGGN / MRMN



• R type insert
(mm)

Designation		T	L1	S1	T-MAX	Insert		Tool holders
						W	Designation	
MCER/L	3-T16	6.00	44.5	6.35	16	3	MGMN	H-63T-MCHR/L
	4-T16	5.97	44.5	6.35	16	4	MGMR/L	
	5-T20	5.87	48.5	6.35	20	5	MGGN	
	6-T20	5.82	48.5	6.35	20	6	MRMN	

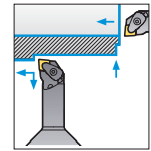
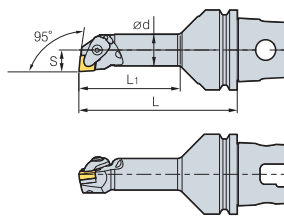
Applicable inserts C26~C27

KM○○-DCLNR/L



CN□□

ØD Min. machining Dia.



95°

• R type insert
(mm)

Designation	ØD	Ød	L	L1	S	Insert	Clamp	Screw	Shim	Shim Screw	Spring	Nozzle	Plug	Wrench
KM50-A25K-DCLNR/L-12	32	25	125	80	17	CN□□1204□□								
KM50-A32L-DCLNR/L-12	40	32	140	98	22									
KM63UT-A25K-DCLNR/L-12	32	25	125	80	17									
KM63UT-A32L-DCLNR/L-12	40	32	140	98	22									

Applicable inserts B26~B32

Blank Tool

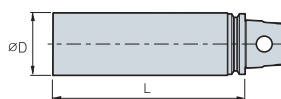


Fig. 1

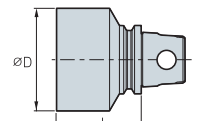


Fig. 2

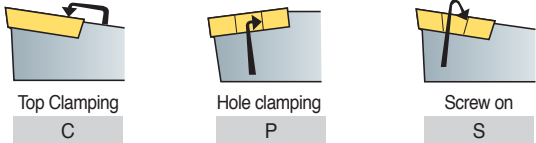
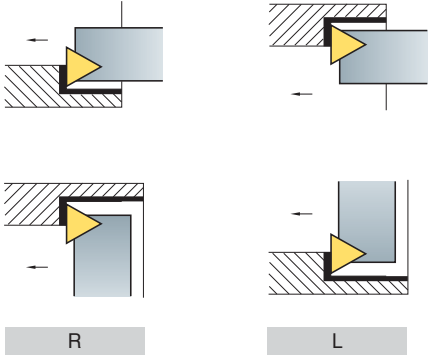
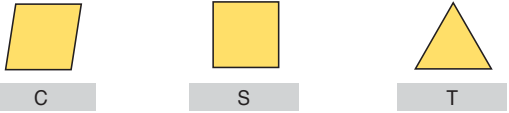
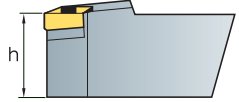
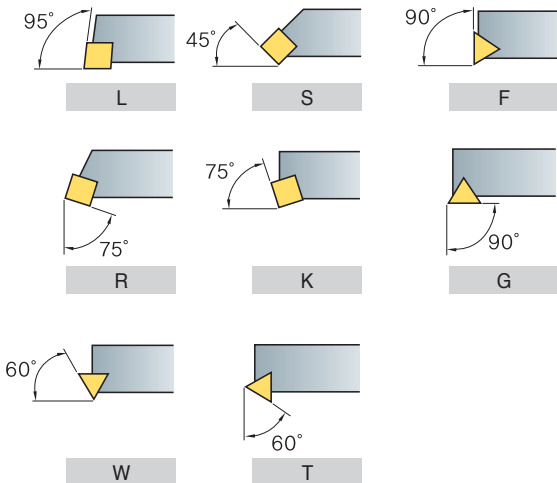
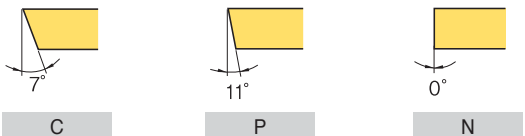
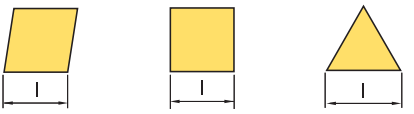
(mm)

Designation	ØD	L	Ød	Fig.
KM50-BL7562	45	62	50	1
KM50-BL10562	105	62	50	2
KM63UT-BL65200	65	200	50	1
KM63UT-BL115150	115	150	50	2

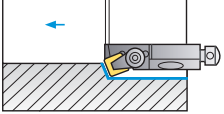
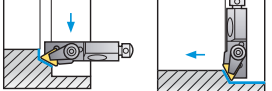
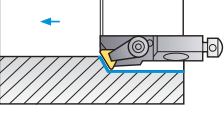
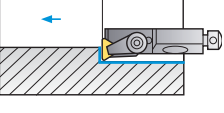
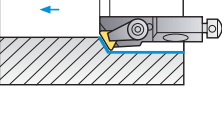
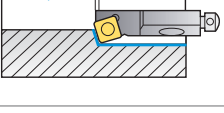
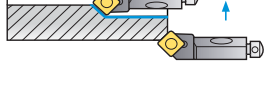
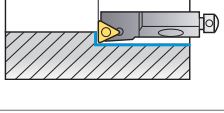
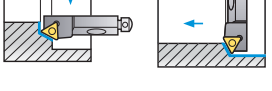
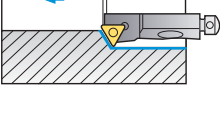


B Cartridge Code System (ISO)

1	2	3	4	5	6	7	8	9
Method of Mounting Insert	Insert Shape	Holder Style	Relief Angle of Insert	Hand	Height of Cutting Edge	Cartridge Code	Type of Cartridge	Length of Cutting Edge

1 Method of Mounting Insert S T F C R 12 C A - 16  Top Clamping C Hole clamping P Screw on S	5 Hand S T F C R 12 C A - 16  R L
2 Insert Shape S T F C R 12 C A - 16  C S T	6 Height of Cutting Edge S T F C R 12 C A - 16  h
3 Holder Style S T F C R 12 C A - 16  L S F R K G W T	7 Cartridge Code S T F C R 12 C A - 16 C (Cartridge)
4 Relief Angle of Insert S T F C R 12 C A - 16  C P N	8 Type of Cartridge S T F C R 12 C A - 16 A (ISO5611)
9 Length of Cutting Edge S T F C R 12 C A - 16  I I I	

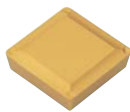


	Cutting Shape	Turning	Copying	Facing	Chamfering	Applicable inserts	Page
Clamp on System	CSKPR/L  10CA-09 12CA-12	●				SP□R 0903□□ 1203□□	B222
	CTTPR/L  10CA-11 12CA-16	●				TP□R 1103□□ 1603□□	B223
	CTWPR/L  10CA-11 12CA-16	●				TP□R 1103□□ 1603□□	B223
	CTFPR/L  10CA-11 12CA-16	●		●		TP□R 1103□□ 1603□□	B222
	CTSPR/L  10CA-11 12CA-16	●				TP□R 1103□□ 1603□□	B222
Screw on System	SSKCR/L  10CA-09 12CA-12	●				SC□T 09T3□□ 1204□□	B224
	SSSCR/L  10CA-09 12CA-12	●			●	SC□T 09T3□□ 1204□□	B224
	STFCR/L  10CA-11 12CA-16	●		●		TC□T 1102□□ 16T3□□	B224
	STTCR/L  10CA-11 12CA-16	●		●		TC□T 1102□□ 16T3□□	B225
	STWCR/L  10CA-11 12CA-16	●				TC□T 1102□□ 16T3□□	B225

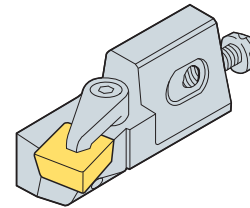
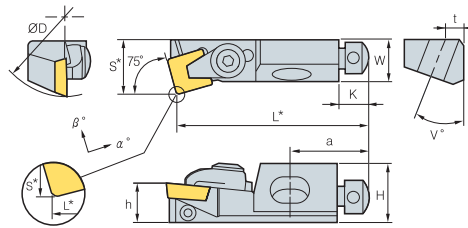


B Clamp on System

CSKPR/L



SP□R



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
CSKPR/L 10CA-09	40	15	11	50	14	10	8	6	0	20	5	20	SP□R0903 □□ 1203 □□
12CA-12	50	20	15	55	20	12	8	6	0	20	6	20	

Applicable inserts B72~B73

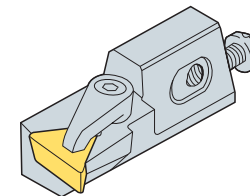
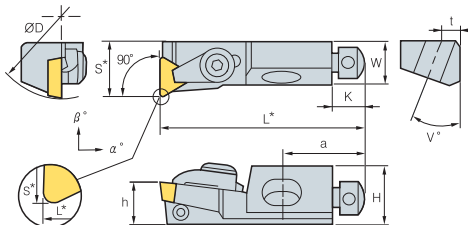
• a base Insert : r = 0.8 D = ØD Min. machining Dia.

Parts	Clamp	Axial Adjust Screw	Radial Adjust Screw	MountingScrew	Washer	Wrench	Wrench
CSKPR/L 10CA-09	CA05R	AZ0508F	KHA0408	RHA0620	WA0602	TW 15P	HW20L
12CA-12	CA06R	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L

CTFPR/L



TP□R



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
CTFPR/L 10CA-11	40	15	11	50	14	10	8	6	0	20	5	20	TP□R1103 □□ 1603 □□
12CA-16	50	20	15	55	20	12	8	6	0	20	6	20	

Applicable inserts B77~B79

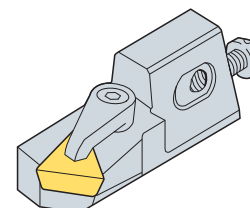
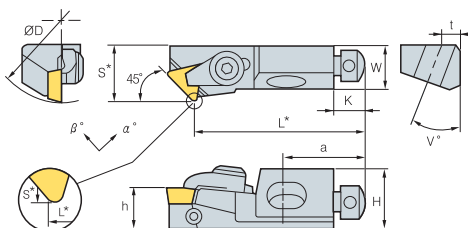
• a base Insert : r = 0.4 (l = 11) r = 0.8 (l = 16) D = ØD Min. machining Dia.

Parts	Clamp	Axial Adjust Screw	Radial Adjust Screw	MountingScrew	Washer	Wrench	Wrench
CTFPR/L 10CA-11	CA05R	AZ0508F	KHA0408	RHA0620	WA0602	TW25L	HW20L
12CA-16	CA06R	AZ0508F	KHA0412	RHA0625	WA0602	TW30L	HW20L

CTSPR/L



TP□R



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
CTSPR/L 10CA-11	40	15	11	44	14	10	8	4	0	20	5	20	TP□R1103 □□ 1603 □□
12CA-16	50	20	15	47	20	12	8	5	0	20	6	20	

Applicable inserts B77~B79

• a base Insert : r = 0.4 (l = 11) r = 0.8 (l = 16) D = ØD Min. machining Dia.

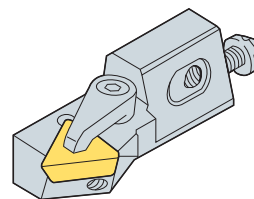
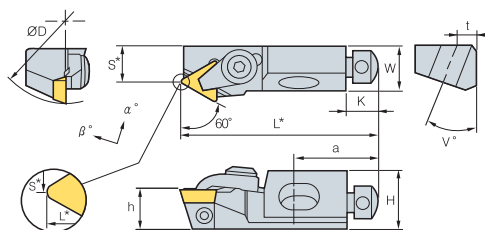
Parts	Clamp	Axial Adjust Screw	Radial Adjust Screw	MountingScrew	Washer	Wrench	Wrench
CTSPR/L 10CA-11	CA05R	AZ0508F	KHA0408	RHA0620	WA0602	TW25L	HW20L
12CA-16	CA06R	AZ0508F	KHA0412	RHA0625	WA0602	TW30L	HW20L



CTTPR/L



TPOR



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
CTTPR/L 10CA-11	40	15	11	50	9	10	8	5	0	20	5	20	TPOR1103□□
12CA-16	50	20	15	55	20	12	8	5	0	20	6	20	1603□□

Applicable inserts B77~B79

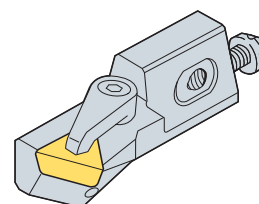
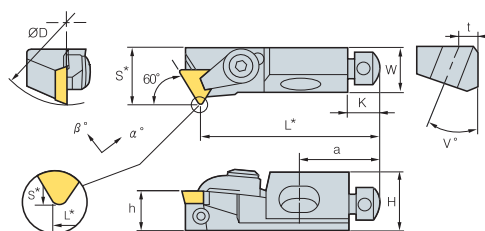
• a base Insert : r = 0.8 D = ØD Min. machining Dia.

Parts	Clamp	Axial Adjust Screw	Radial Adjust Screw	MountingScrew	Washer	Wrench	Wrench
CTTPR/L 10CA-11	CA05R	AZ0508F	KHA0408	RHA0620	WA0602	TW25L	HW20L
12CA-16	CA06R	AZ0508F	KHA0412	RHA0625	WA0602	TW30L	HW20L

CTWPR/L



TPOR



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
CTWPR/L 10CA-11	40	15	11	44	14	10	8	5	0	20	5	20	TPOR1103□□
12CA-16	50	20	15	47	20	12	8	5	0	20	6	20	1603□□

Applicable inserts B77~B79

• a base Insert : r = 0.8 D = ØD Min. machining Dia.

Parts	Clamp	Axial Adjust Screw	Radial Adjust Screw	MountingScrew	Washer	Wrench	Wrench
CTWPR/L 10CA-11	CA05R	AZ0508F	KHA0408	RHA0620	WA0602	TW25L	HW20L
12CA-16	CA06R	AZ0508F	KHA0412	RHA0625	WA0602	TW30L	HW20L

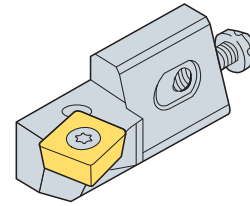
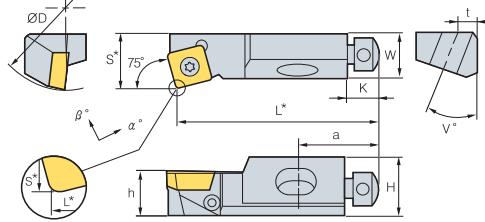


B Screw on System

SSKCR/L



SC□□



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
SSKCR/L 10CA-09	40	15	11	50	14	10	8	0	-4	20	5	20	SC□□09T3□□
12CA-12	50	20	15	55	20	12	8	0	-4	20	6	20	SC□□1204□□

➔ Applicable inserts B70~B71, B90

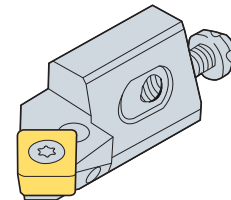
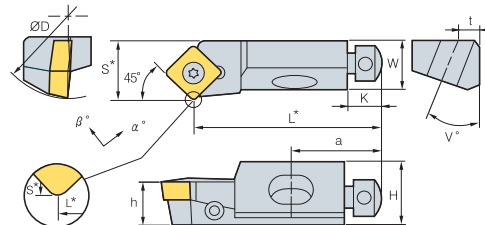
• a base Insert : r = 0.8 D = ØD Min. machining Dia.

Parts	Screw	Axial Adjust Screw	Radial Adjust Screw	Mounting Screw	Washer	Wrench	Wrench
SSKCR/L 10CA-09	FTGA03508	AZ0508F	KHA0408	RHA0620	WA0602	TW 15P	HW20L
12CA-12	FTGA0411F	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L

SSSCR/L



SC□□



• R type insert
(mm)

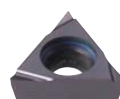
Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
SSSCR/L 10CA-09	40	15	11	44	14	10	8	-5	0	20	5	20	SC□□09T3□□
12CA-12	50	20	15	47	20	12	8	-5	0	20	6	20	SC□□1204□□

➔ Applicable inserts B70~B71, B90

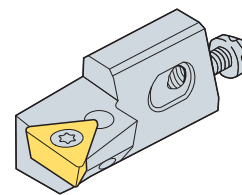
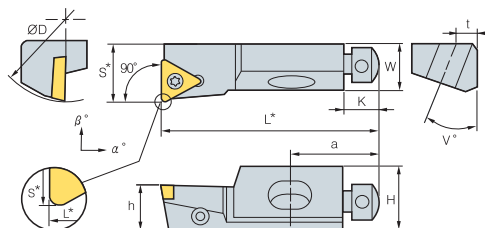
• a base Insert : r = 0.8 D = ØD Min. machining Dia.

Parts	Screw	Axial Adjust Screw	Radial Adjust Screw	Mounting Screw	Washer	Wrench	Wrench
SSSCR/L 10CA-09	FTGA03508	AZ0508F	KHA0408	RHA0620	WA0602	TW 15P	HW20L
12CA-12	FTGA0411F	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L

STFCR/L



TC□□



• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
STFCR/L 10CA-11	40	15	11	50	14	10	8	0	-3	20	5	20	TC□□1102□□
12CA-16	50	20	15	55	20	12	8	0	-3	20	6	20	TC□□16T3□□

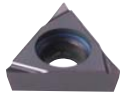
➔ Applicable inserts B75~B76, B91

• a base Insert : r = 0.4 (l=11) r = 0.8 (l=16) D = Min. machining Dia.

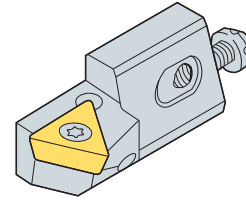
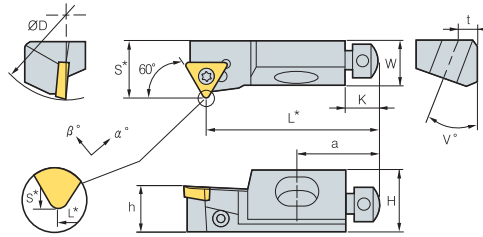
Parts	Screw	Axial Adjust Screw	Radial Adjust Screw	Mounting Screw	Washer	Wrench	Wrench
STFCR/L 10CA-11	FTKA02565	AZ0508F	KHA0408	RHA0620	WA0602	TW 15P	HW20L
12CA-16	FTKA03508	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L



STTCR/L



TC□□


• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
STTCR/L 10CA-11	40	15	11	50	9	10	8	-5	0	20	5	20	TC□□1102□□
12CA-16	50	20	15	47	20	12	8	-3	0	20	6	20	TC□□16T3□□

Applicable inserts B75~B76, B91

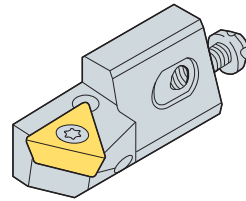
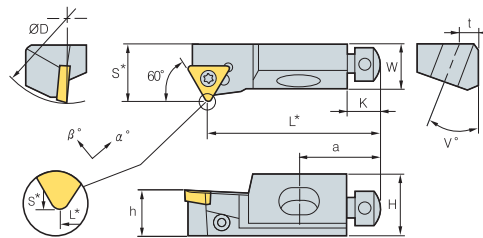
• a base Insert : r = 0.4 (l = 11) r = 0.8 (l = 16) D = Min. machining Dia.

Parts	Screw	Axial Adjust Screw	Radial Adjust Screw	Mounting Screw	Washer	Wrench	Wrench
STTCR/L 10CA-11	FTKA02565	AZ0508F	KHA0408	RHA0620	WA0602	TW 07P	HW20L
12CA-16	FTKA03508	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L

STWCR/L



TC□□


• R type insert
(mm)

Designation	ØD	H	W	L*	S*	h	K	α°	β°	a	t	v°	Insert
STWCR/L 10CA-11	40	15	11	44	14	10	8	0	-4	20	5	20	TC□□1102□□
12CA-16	50	20	15	47	20	12	8	-5	0	20	6	20	TC□□16T3□□

Applicable inserts B75~B76, B91

• a base Insert : r = 0.4 (l = 11) r = 0.8 (l = 16) D = Min. machining Dia.

Parts	Screw	Axial Adjust Screw	Radial Adjust Screw	Mounting Screw	Washer	Wrench	Wrench
STWCR/L 10CA-11	FTKA02565	AZ0508F	KHA0408	RHA0620	WA0602	TW 15P	HW20L
12CA-16	FTKA03508	AZ0508F	KHA0412	RHA0625	WA0602	TW 15P	HW20L





New

**Internal
Machining**

Carbide Shank Boring Bars

Features

- Excellent cutting performance in wide range of boring size even at vibration cutting condition.
- Applied for various workpiece such as steel, stainless steel, cast iron, etc.
- Assures longer tool life and excellent surface finish.





Carbide Shank Boring Bars

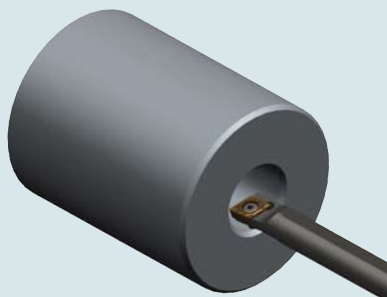
Code System | Application example

Code System

C	12	M	-
Shank type	Shank diameter	Shank length (mm)	
S : Steel shank	ISO : mm	F : 80 R : 200	
A : Steel shank with oil hole	AISI : inch	G : 90 S : 250	
C : Carbide shank		H : 100 T : 300	
E : Carbide shank with oil hole		J : 110 U : 350	
		K : 125 V : 400	
		M : 150 W : 450	
		Q : 180 T : 500	

S	C	L	C	R	-	06
Clamping system	Insert shape	Lead angle	Relief angle of Insert	Hand of tool		Length of cutting edge
S : Screw on	C : 80° Rhombic	F : 90°	B : 5° Positive	R : Right		80° Rhombic
P : Lever lock	D : 55° Rhombic	K : 75°	C : 7° Positive	L : Left		55° Rhombic
C : Clamp on	S : 90° Square	L : 95°	N : 0°			90° Square
M : Multi lock	T : 60° Triangular	Q : 108°	P : 11° Positive			60° Triangular
W : Wedge clamp	V : 35° Rhombic	U : 93°				35° Rhombic
D : Double clamp	W : 80° Trigon					80° Trigon

Application example



- Cutting conditions
- Insert : TCMT110204-HMP
- Boring bar : C12M-STFCR-11
- Workpiece : SCM440
- Cutting speed : 200 m/min
- Depth of cut : 0.4 mm
- Feed : 0.15 mm/rev

	Steel boring bar			Carbide boring bar		
5D Machining test (After 40passes)	More chippings			Long and stable tool life		
Surface Roughness (5D machining)						
	Rmax	Rz	Ra	Rmax	Rz	Ra
	4.67	3.68	0.62	3.07	2.76	0.53



Carbide Shank Boring Bars

Features

Features

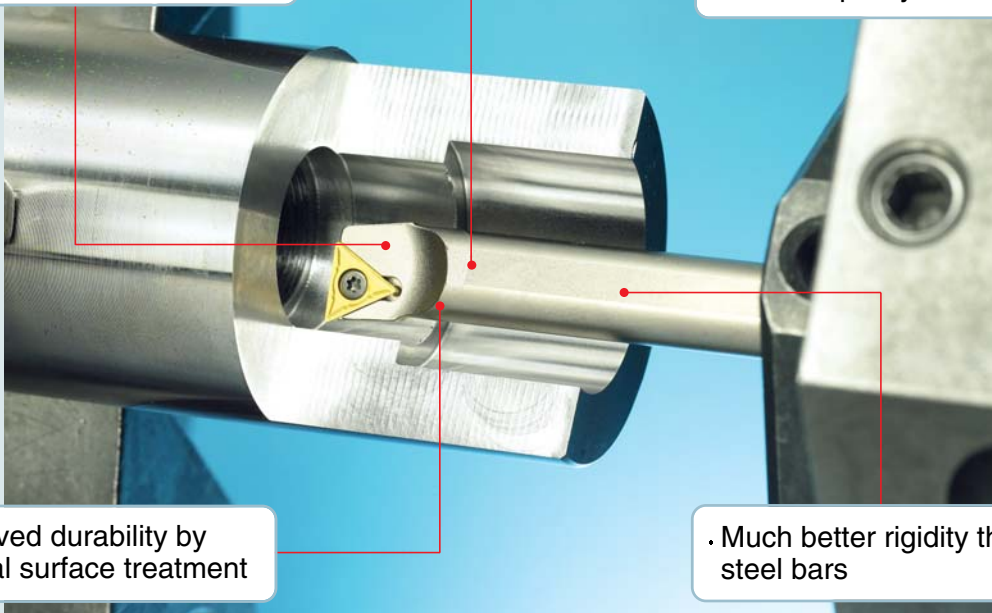
Steel Boring Bar	Carbide Shank Boring bar
$L/D \leq 3$	$L/D \leq 5$

. Excellent chip control

. Special brazing technique assures quality security

. Improved durability by special surface treatment

. Much better rigidity than steel bars

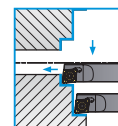
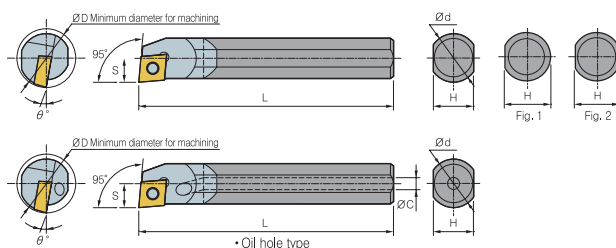




Carbide Shank Boring Bars

SCLCR/L

SCLCR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C04G-SCLCR/L-03	●	○	5	4	3.8	90	2.5	-15°	CC□T0301□□	FTNA01633	TW06P	1
C05H-SCLCR/L-03	●	○	6	5	4.4	100	3	-15°	CC□T0301□□	FTNA01633	TW06P	1
C06H-SCLCR/L-04	●	○	7	6	5.4	100	3.5	-15°	CC□T0401□□	FTNA0238	TW06P	1
C07K-SCLCR/L-04	●	○	8	7	6.4	125	4	-12°	CC□T0401□□	FTNA0238	TW06P	1
C08K-SCLCR/L-06	●	○	10	8	7	125	5	-12°	CC□T0602□□	FTKA02555	TW07P	2
C10K-SCLCR/L-06	●	○	12	10	9	125	6	-12°	CC□T0602□□	FTKA02565	TW07P	2
C10M-SCLCR/L-06	●	○	12	10	9	150	6	-12°	CC□T0602□□	FTKA02565	TW07P	2
C12M-SCLCR/L-06	●	○	14	12	11	150	7	-12°	CC□T0602□□	FTKA02565	TW07P	2
C12Q-SCLCR/L-06	●	○	14	12	11	180	7	-12°	CC□T0602□□	FTKA02565	TW07P	2
C12M-SCLCR/L-09	●	○	15	12	11	150	8	-12°	CC□T09T3□□	FTGA03508	TW15P	2
C12Q-SCLCR/L-09	●	○	15	12	11	180	8	-12°	CC□T09T3□□	FTGA03508	TW15P	2
C16R-SCLCR/L-09	●	○	20	16	15	250	10	-12°	CC□T09T3□□	FTGA03508	TW15P	2
C16S-SCLCR/L-09	●	○	20	16	15	250	10	-12°	CC□T09T3□□	FTGA03508	TW15P	2
C20R-SCLCR/L-09	●	○	25	20	18	200	13	-8°	CC□T09T3□□	FTGA03508	TW15P	2
C20S-SCLCR/L-09	●	○	25	20	18	250	13	-8°	CC□T09T3□□	FTGA03508	TW15P	2
C25T-SCLCR/L-12	●	○	32	25	23	300	17	-6°	CC□T1204□□	FTGA0411F	TW15P	2
E06H-SCLCR/L-04	●	○	7	6	5.4	100	3.5	-1°	CC□T0401□□	FTNA0238	TW06P	1
E07K-SCLCR/L-04	●	○	8	7	6.4	125	4	-1°	CC□T0401□□	FTNA0238	TW06P	1
E08K-SCLCR/L-06	●	○	10	8	7	125	5	-1°	CC□T0602□□	FTKA02555	TW07P	2
E10K-SCLCR/L-06	●	○	12	10	9	125	6	-12°	CC□T0602□□	FTKA02565	TW07P	2
E10M-SCLCR/L-06	●	○	12	10	9	150	6	-12°	CC□T0602□□	FTKA02565	TW07P	2
E12M-SCLCR/L-06	●	○	14	12	11	150	7	-12°	CC□T0602□□	FTKA02565	TW07P	2
E12Q-SCLCR/L-06	●	○	14	12	11	180	7	-12°	CC□T0602□□	FTKA02565	TW07P	2
E12M-SCLCR/L-09	●	○	15	12	11	150	8	-12°	CC□T09T3□□	FTGA03508	TW15P	2
E12Q-SCLCR/L-09	●	○	15	12	11	180	8	-12°	CC□T09T3□□	FTGA03508	TW15P	2
E16R-SCLCR/L-09	●	○	20	16	15	250	10	-12°	CC□T09T3□□	FTGA03508	TW15P	2
E16S-SCLCR/L-09	●	○	20	16	15	250	10	-12°	CC□T09T3□□	FTGA03508	TW15P	2
E20R-SCLCR/L-09	●	○	25	20	18	200	13	-8°	CC□T09T3□□	FTGA03508	TW15P	2
E20S-SCLCR/L-09	●	○	25	20	18	250	13	-8°	CC□T09T3□□	FTGA03508	TW15P	2
E25T-SCLCR/L-12	●	○	32	25	23	300	17	-6°	CC□T1204□□	FTGA0411F	TW15P	2

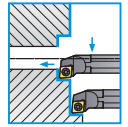
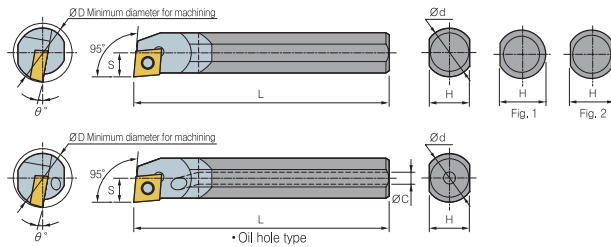
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

SCLPR/L

SCLPR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C10K-SCLPR/L-08	●	○	12	10	9	125	6	-5°	CP□T0802□□	FTNA0305	TW09P	2
C10M-SCLPR/L-08	●	○	12	10	9	150	6	-5°	CP□T0802□□	FTNA0305	TW09P	2
C12M-SCLPR/L-08	●	○	15	12	11	150	7.5	-2°	CP□T0802□□	FTNA0307	TW09P	2
C12Q-SCLPR/L-08	●	○	15	12	11	180	7.5	-2°	CP□T0802□□	FTNA0307	TW09P	2
C12M-SCLPR/L-09	●	○	15	12	11	150	8	-2°	CP□T0903□□	FTNA0408	TW15P	2
C12Q-SCLPR/L-09	●	○	15	12	11	180	8	-2°	CP□T0903□□	FTNA0408	TW15P	2
C16R-SCLPR/L-09	●	○	20	16	15	200	10	-2°	CP□T0903□□	FTNA0408	TW15P	2
C16S-SCLPR/L-09	●	○	20	16	15	250	10	-2°	CP□T0903□□	FTNA0408	TW15P	2
C20R-SCLPR/L-09	●	○	25	20	18	200	13	-2°	CP□T0903□□	FTNA0408	TW15P	2
C20S-SCLPR/L-09	●	○	25	20	18	250	13	-2°	CP□T0903□□	FTNA0408	TW15P	2
E10K-SCLPR/L-08	●	○	12	10	9	125	6	-5°	CP□T0802□□	FTNA0305	TW09P	2
E10M-SCLPR/L-08	●	○	12	10	9	150	6	-5°	CP□T0802□□	FTNA0305	TW09P	2
E12M-SCLPR/L-08	●	○	15	12	11	150	7.5	-2°	CP□T0802□□	FTNA0307	TW09P	2
E12Q-SCLPR/L-08	●	○	15	12	11	180	7.5	-2°	CP□T0802□□	FTNA0307	TW09P	2
E12M-SCLPR/L-09	●	○	15	12	11	150	8	-2°	CP□T0903□□	FTNA0408	TW15P	2
E12Q-SCLPR/L-09	●	○	15	12	11	180	8	-2°	CP□T0903□□	FTNA0408	TW15P	2
E16R-SCLPR/L-09	●	○	20	16	15	200	10	-2°	CP□T0903□□	FTNA0408	TW15P	2
E16S-SCLPR/L-09	●	○	20	16	15	250	10	-2°	CP□T0903□□	FTNA0408	TW15P	2
E20R-SCLPR/L-09	●	○	25	20	18	200	13	-2°	CP□T0903□□	FTNA0408	TW15P	2
E20S-SCLPR/L-09	●	○	25	20	18	250	13	-2°	CP□T0903□□	FTNA0408	TW15P	2

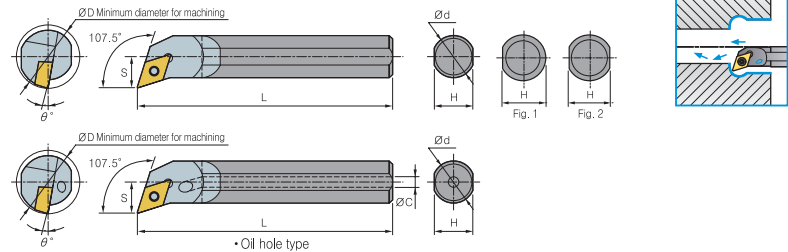
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

SDQCR/L

SDQCR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C08K-SDQCR/L-07	●	○	10	8	7	125	6	-15°	DC □ T0702 □ □	FTKA02555	TW07P	2
C10K-SDQCR/L-07	●	○	13	10	9	125	7	-15°	DC □ T0702 □ □	FTKA02555	TW07P	2
C12M-SDQCR/L-07	●	○	16	12	11	150	9	-10°	DC □ T0702 □ □	FTKA02565	TW07P	2
C16R-SDQCR/L-07	●	○	20	16	15	200	11	-6°	DC □ T0702 □ □	FTKA02565	TW07P	2
C16R-SDQCR/L-11	●	○	20	16	15	200	11	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2
C20R-SDQCR/L-11	●	○	25	20	18	200	13	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2
C20S-SDQCR/L-11	●	○	25	20	18	250	13	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2
E08K-SDQCR/L-07	●	○	10	8	7	125	6	-1°	DC □ T0702 □ □	FTKA02555	TW07P	2
E10K-SDQCR/L-07	●	○	13	10	9	125	7	-1°	DC □ T0702 □ □	FTKA02555	TW07P	2
E12M-SDQCR/L-07	●	○	16	12	11	150	9	-10°	DC □ T0702 □ □	FTKA02565	TW07P	2
E16R-SDQCR/L-07	●	○	20	16	15	200	11	-6°	DC □ T0702 □ □	FTKA02565	TW07P	2
E16R-SDQCR/L-11	●	○	20	16	15	200	11	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2
E20R-SDQCR/L-11	●	○	25	20	18	200	13	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2
E20S-SDQCR/L-11	●	○	25	20	18	250	13	-6°	DC □ T11T3 □ □	FTGA03508	TW15P	2

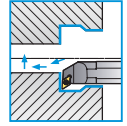
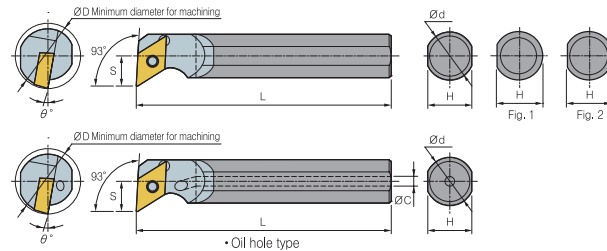
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

SDUCR/L

SDUCR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C10K-SDUCR/L-07	●	○	13	10	9	125	7	-15°	DC□T0702□□	FTKA02555	TW07P	2
C10M-SDUCR/L-07	●	○	13	10	9	150	7	-15°	DC□T0702□□	FTKA02555	TW07P	2
C12M-SDUCR/L-07	●	○	16	12	11	150	9	-10°	DC□T0702□□	FTKA02565	TW07P	2
C12Q-SDUCR/L-07	●	○	16	12	11	180	9	-10°	DC□T0702□□	FTKA02565	TW07P	2
C16R-SDUCR/L-07	●	○	20	16	15	200	11	-6°	DC□T0702□□	FTKA02565	TW07P	2
C16S-SDUCR/L-07	●	○	20	16	15	250	11	-6°	DC□T0702□□	FTKA02565	TW07P	2
C16R-SDUCR/L-11	●	○	20	16	15	200	11	-6°	DC□T11T3□□	FTGA03508	TW15P	2
C16S-SDUCR/L-11	●	○	20	16	15	250	11	-6°	DC□T11T3□□	FTGA03508	TW15P	2
C20R-SDUCR/L-11	●	○	25	20	18	200	13	-6°	DC□T11T3□□	FTGA03508	TW15P	2
C20S-SDUCR/L-11	●	○	25	20	18	250	13	-6°	DC□T11T3□□	FTGA03508	TW15P	2
C25T-SDUCR/L-11	●	○	32	25	23	300	17	-6°	DC□T11T3□□	FTGA03510	TW15P	2
E10K-SDUCR/L-07	●	○	13	10	9	125	7	-15°	DC□T0703□□	FTKA02555	TW07P	2
E10M-SDUCR/L-07	●	○	13	10	9	150	7	-15°	DC□T0702□□	FTKA02555	TW07P	2
E12M-SDUCR/L-07	●	○	16	12	11	150	9	-10°	DC□T0702□□	FTKA02565	TW07P	2
E12Q-SDUCR/L-07	●	○	16	12	11	180	9	-10°	DC□T0702□□	FTKA02565	TW07P	2
E16R-SDUCR/L-07	●	○	20	16	15	200	11	-6°	DC□T0702□□	FTKA02565	TW07P	2
E16S-SDUCR/L-07	●	○	20	16	15	250	11	-6°	DC□T0702□□	FTKA02565	TW07P	2
E16R-SDUCR/L-11	●	○	20	16	15	200	11	-6°	DC□T11T3□□	FTGA03508	TW15P	2
E16S-SDUCR/L-11	●	○	20	16	15	250	11	-6°	DC□T11T3□□	FTGA03508	TW15P	2
E20R-SDUCR/L-11	●	○	25	20	18	200	13	-6°	DC□T11T3□□	FTGA03508	TW15P	2
E20S-SDUCR/L-11	●	○	25	20	18	250	13	-6°	DC□T11T3□□	FTGA03508	TW15P	2
E25T-SDUCR/L-11	●	○	32	25	23	300	17	-6°	DC□T11T3□□	FTKA02555	TW15P	2

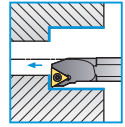
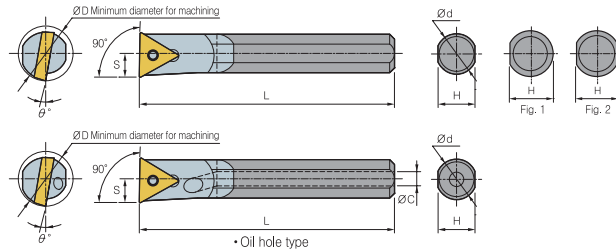
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

STFCR/L

STFCR/L



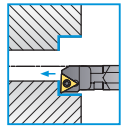
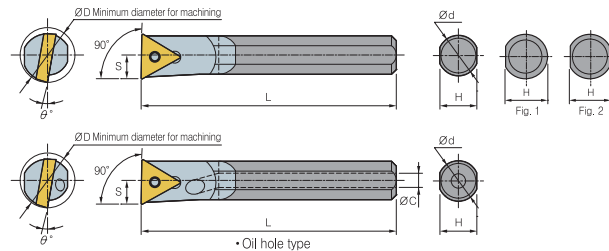
Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C08K-STFCR/L-09	●	○	10	8	7	125	5	-10°	TC □ T0902 □ □	FTKA02206	TW06P	2
C10K-STFCR/L-09	●	○	12	10	9	125	6	-10°	TC □ T0902 □ □	FTKA02206	TW06P	2
C10K-STFCR/L-11	●	○	12	10	9	125	6	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
C12M-STFCR/L-11	●	○	15	12	11	150	8	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
C16R-STFCR/L-11	●	○	20	16	15	200	10	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
C20R-STFCR/L-11	●	○	25	20	18	200	13	-6°	TC □ T1102 □ □	FTKA02565	TW07P	2
C20S-STFCR/L-11	●	○	25	20	18	250	13	-6°	TC □ T1102 □ □	FTKA02565	TW07P	2
C20R-STFCR/L-16	●	○	25	20	18	200	13	-6°	TC □ T16T3 □ □	FTGA03510	TW15P	2
C20S-STFCR/L-16	●	○	25	20	18	250	13	-6°	TC □ T16T3 □ □	FTGA03510	TW15P	2
E08K-STFCR/L-09	●	○	10	8	7	125	5	-10°	TC □ T0902 □ □	FTKA02206	TW06P	2
E10K-STFCR/L-09	●	○	12	10	9	125	6	-10°	TC □ T0902 □ □	FTKA02206	TW06P	2
E10K-STFCR/L-11	●	○	12	10	9	125	6	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
E12M-STFCR/L-11	●	○	15	12	11	150	8	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
E16R-STFCR/L-11	●	○	20	16	15	200	10	-10°	TC □ T1102 □ □	FTKA02565	TW07P	2
E20R-STFCR/L-11	●	○	25	20	18	200	13	-6°	TC □ T1102 □ □	FTKA02565	TW07P	2
E20S-STFCR/L-11	●	○	25	20	18	250	13	-6°	TC □ T1102 □ □	FTKA02565	TW07P	2
E20R-STFCR/L-16	●	○	25	20	18	200	13	-6°	TC □ T16T3 □ □	FTGA03510	TW15P	2
E20S-STFCR/L-16	●	○	25	20	18	250	13	-6°	TC □ T16T3 □ □	FTGA03510	TW15P	2

●: Stock item, ○: Under preparing for stock



STFPR/L

STFPR/L

[illegible]

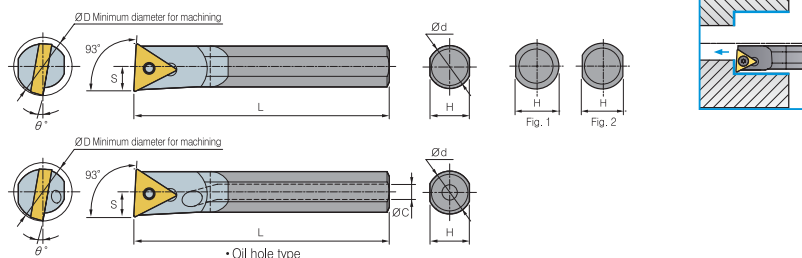
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

STUPR/L

STUPR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C08K-STUPR/L-08	●	○	10	8	7	125	5	-10°	TP □T0802 □□	FTNA02205	TW06P	2
C10K-STUPR/L-11	●	○	12	10	9	125	6	-10°	TP □T1103 □□	FTNA0305	TW09P	2
C10M-STUPR/L-11	●	○	12	10	9	150	6	-10°	TP □T1103 □□	FTNA0305	TW09P	2
C12M-STUPR/L-11	●	○	15	12	11	150	8	-10°	TP □T1103 □□	FTNA0307	TW09P	2
C12Q-STUPR/L-11	●	○	15	12	11	180	8	-10°	TP □T1103 □□	FTNA0307	TW09P	2
C16R-STUPR/L-11	●	○	20	16	15	200	10	-6°	TP □T1103 □□	FTNA0307	TW09P	2
C16S-STUPR/L-11	●	○	20	16	15	250	10	-6°	TP □T1103 □□	FTNA0307	TW09P	2
C20R-STUPR/L-11	●	○	25	20	18	200	13	-6°	TP □T1103 □□	FTNA0307	TW09P	2
C20S-STUPR/L-11	●	○	25	20	18	250	13	-6°	TP □T1103 □□	FTNA0307	TW09P	2
C20R-STUPR/L-16	●	○	25	20	18	200	13	-6°	TP □T1604 □□	FTNA0408	TW15P	2
C20S-STUPR/L-16	●	○	25	20	18	250	13	-6°	TP □T1604 □□	FTNA0408	TW15P	2
C25T-STUPR/L-16	●	○	32	25	23	300	17	-6°	TP □T1604 □□	FTNA0408	TW15P	2
E08K-STUPR/L-08	●	○	10	8	7	125	5	-10°	TP □T0803 □□	FTNA02205	TW06P	2
E10K-STUPR/L-11	●	○	12	10	9	125	6	-10°	TP □T1103 □□	FTNA0305	TW09P	2
E10M-STUPR/L-11	●	○	12	10	9	150	6	-10°	TP □T1103 □□	FTNA0305	TW09P	2
E12M-STUPR/L-11	●	○	15	12	11	150	8	-10°	TP □T1103 □□	FTNA0307	TW09P	2
E12Q-STUPR/L-11	●	○	15	12	11	180	8	-10°	TP □T1103 □□	FTNA0307	TW09P	2
E16R-STUPR/L-11	●	○	20	16	15	200	10	-6°	TP □T1103 □□	FTNA0307	TW09P	2
E16S-STUPR/L-11	●	○	20	16	15	250	10	-6°	TP □T1103 □□	FTNA0307	TW09P	2
E20R-STUPR/L-11	●	○	25	20	18	200	13	-6°	TP □T1103 □□	FTNA0307	TW09P	2
E20S-STUPR/L-11	●	○	25	20	18	250	13	-6°	TP □T1103 □□	FTNA0307	TW09P	2
E20R-STUPR/L-16	●	○	25	20	18	200	13	-6°	TP □T1604 □□	FTNA0408	TW15P	2
E20S-STUPR/L-16	●	○	25	20	18	250	13	-6°	TP □T1604 □□	FTNA0408	TW15P	2
E25T-STUPR/L-16	●	○	32	25	23	300	17	-6°	TP □T1604 □□	FTNA0408	TW15P	2

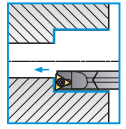
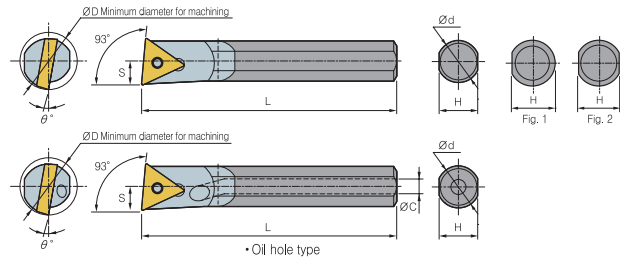
●: Stock item, ○: Under preparing for stock



Carbide Shank Boring Bars

STUBR/L | SWUBR/L

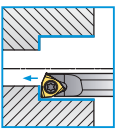
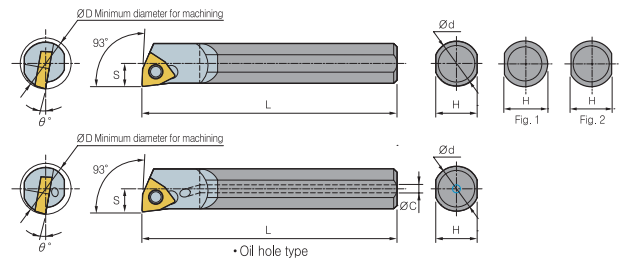
STUBR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C08K-STUBR/L-06	●	○	10	8	7	125	5	-10°	TB □ T0601 □ □	FTNA0204	TW06P	2
C10K-STUBR/L-06	●	○	12	10	9	125	6	-10°	TB □ T0601 □ □	FTNA0204	TW06P	2
E08K-STUBR/L-06	●	○	10	8	7	125	5	-10°	TB □ T0601 □ □	FTNA0204	TW06P	2
E10K-STUBR/L-06	●	○	12	10	9	125	6	-10°	TB □ T0601 □ □	FTNA0204	TW06P	2

● Stock item, ○ Under preparing for stock

SWUBR/L



Desingation	Stock		ØD	Ød	H	L	S	θ°	Parts Insert	Screw	Wrench	Fig.
	R	L										
C05H-SWUBR/L-02	●	○	6	5	4.4	100	3	-15°	WB □ T0201 □ □	FTNA0203	TW06P	1
C06H-SWUBR/L-02	●	○	7	6	5.4	100	3.5	-15°	WB □ T0201 □ □	FTNA0203	TW06P	1
C08K-SWUBR/L-02	●	○	9	8	7	125	4.5	-12°	WB □ T0201 □ □	FTNA02033	TW06P	2
C08K-SWUBR/L-S3	●	○	10	8	7	125	5	-12°	WB □ TS302 □ □	FTNA02205	TW06P	2
E06H-SWUBR/L-02	●	○	7	6	5.4	100	3.5	-15°	WB □ T0201 □ □	FTNA0203	TW06P	1
E08K-SWUBR/L-02	●	○	9	8	7	125	4.5	-12°	WB □ T0201 □ □	FTNA02033	TW06P	2
E08K-SWUBR/L-S3	●	○	10	8	7	125	5	-12°	WB □ TS302 □ □	FTNA02205	TW06P	2

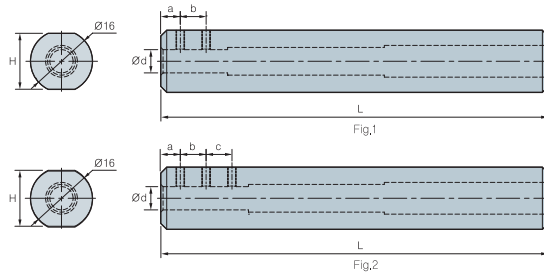
● Stock item, ○ Under preparing for stock



Carbide Shank Boring Bars

SL(SLEEVE)

SL(SLEEVE)



Desingation	Stock	Ød	a	b	c	H	L	Screw	Wrench	Fig.
SL-1604	●	4	5	6	-	14	100	M4	HW20L	1
SL-1605	●	5	5	8	-	14	100	M4	HW20L	1
SL-1606	●	6	5	6	6	14	100	M4	HW20L	2
SL-1607	●	7	5	6	8	14	100	M4	HW20L	2

●: Stock item, ○: Under preparing for stock



※ Safety instruction

- Use glasses safely and face cover with protective equipment. If cutting condition and use method are inaccurate, you may be injured by broken tools or scattered chips.
- Excessive cutting load may influence badly on both tool and machine.
Make suitable tool replacement for preventing failure of machining.
- After machine stopped, clean remained chips from machine with special cleaning equipment.
- Keep safety distance from acute and hot chip during machining.
- Make precaution for prevention of fire in advance when you use insoluble cutting oil.
- Assembled parts may be scattered at high speed cutting. Please use protective equipment.