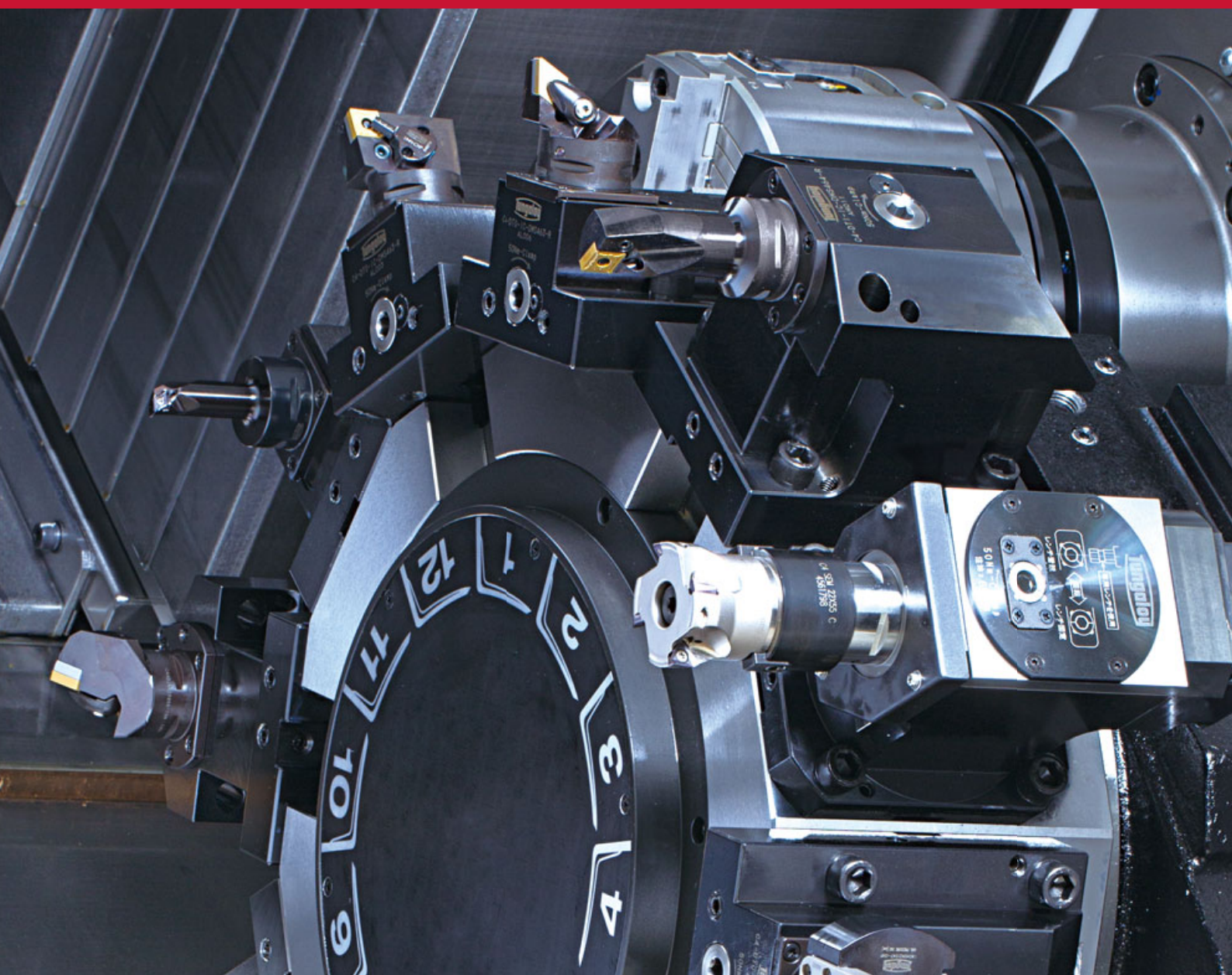


Now offering **expanded lineup of PSC clamping units** for major machine brands





ACCELERATED MACHINING



Boosts productivity in your machine!

TungCap Key features p.5

TungCap Lineup p.8

High speed compact spindle p.57

Digital fine boring p.58

Clamping units p.62

DMG MORI Co., Ltd. p.67

Murata Machinery, Ltd. p.72

Nakamura-Tome Precision Industry Co., Ltd. p.74

Okuma Corporation p.80

TAKAMAZ Machinery Co., Ltd. p.81

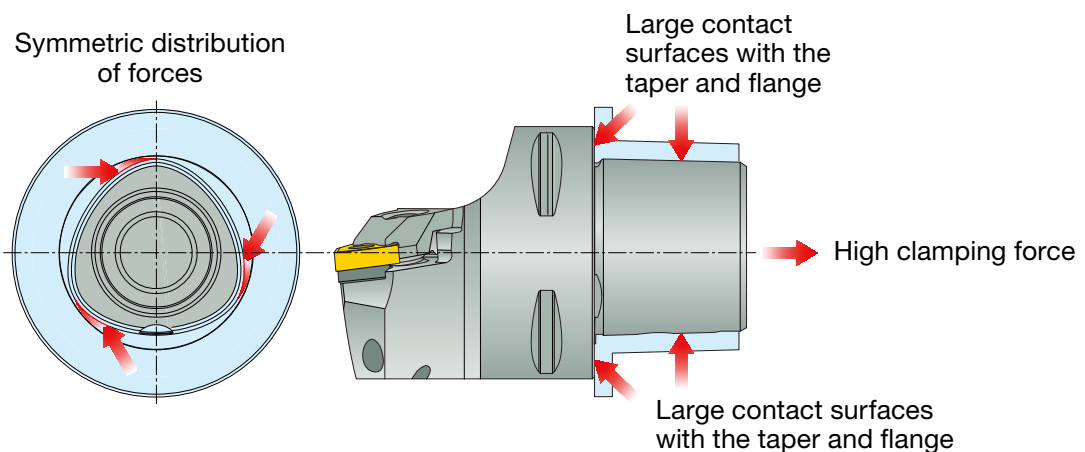
Takisawa Machine Tool Co., Ltd. p.87

TUNGCAP Quick change system (Compatible with PSC standard)

Increase your productivity by

High rigidity

- Enabling higher cutting conditions without losing excellent dimensional accuracy and surface quality.
- The clamping is extremely rigid and strong against bending force due to the dual contact of its polygonal taper and flange face. The polygonal clamping design divides cutting torque evenly, increasing its self-centering effect.



Effective coolant connection

- Direct coolant flow from the spindle through the tool to the cutting area allows higher productivity.
- Completely eliminates the need for coolant pipe setup, enabling interference-free internal coolant capability.
- Improved chip control - even on the most plastic and distressed materials, small chips can be obtained.

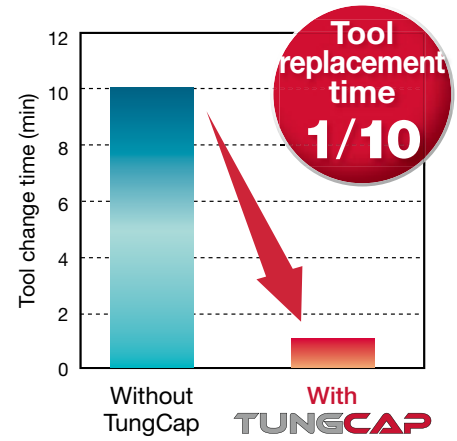
TUNG T^{URN} JET
TUNGALOY

For more information



Reducing downtime

In measuring, tool setup and changing.



Measurement outside the machine



Input measured data

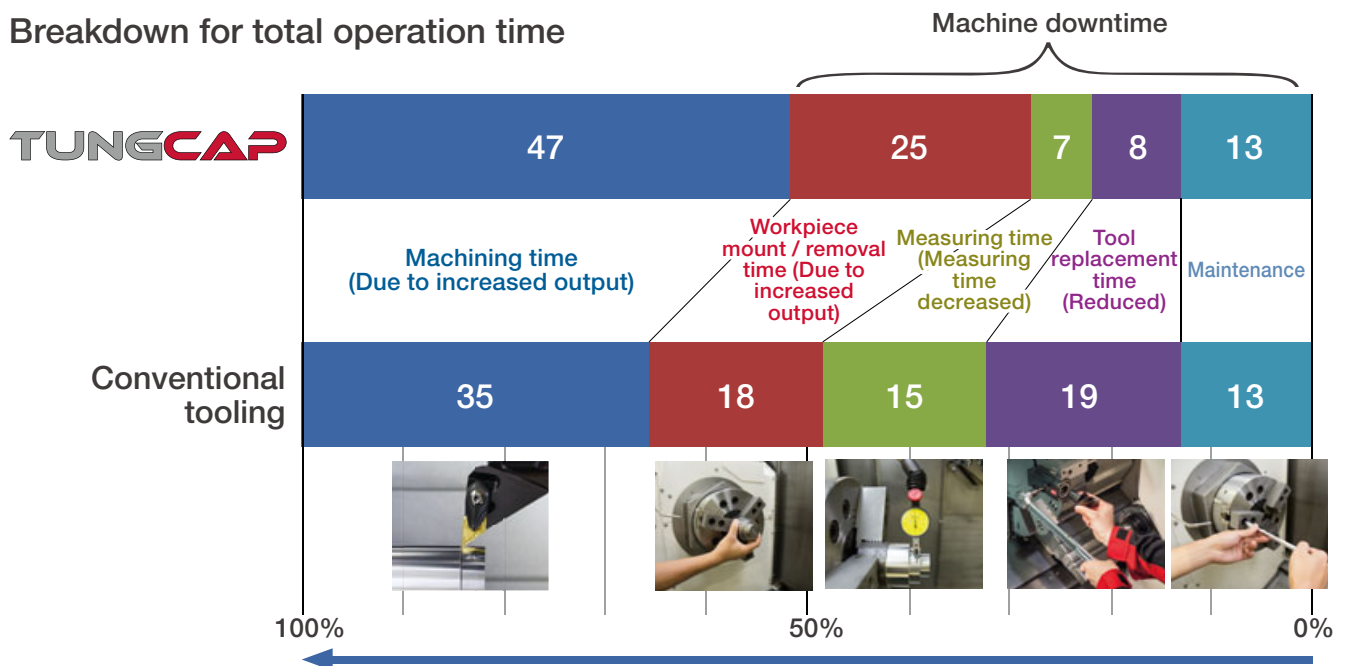


Short tool change time

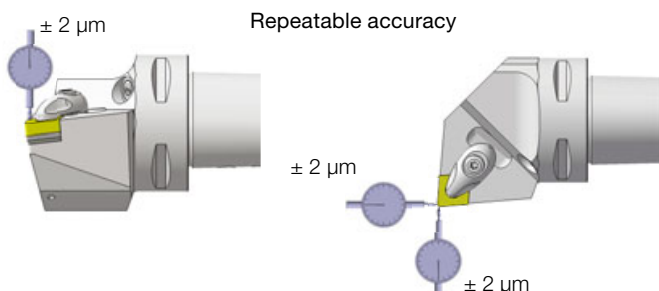


High precision in simple process

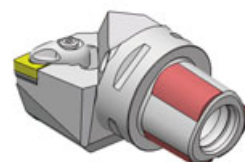
Breakdown for total operation time



High repeatability of the edge position in tool change up to $\pm 2 \mu\text{m}$

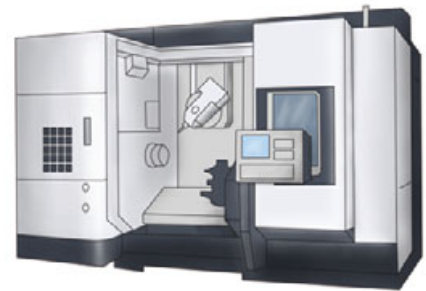


Precision Indexing via polygon taper coupling



Toolings for multi-tasking machine

A multi-tasking machine is a combination of a turning center and a machining center, which allows a workpiece to be completed in a single machine setup. TungCap offers a complete range of efficient tooling solutions in such a highly advanced machine-tool.



Cutting heads for a B-axis locked at 45° in multi-tasking machines

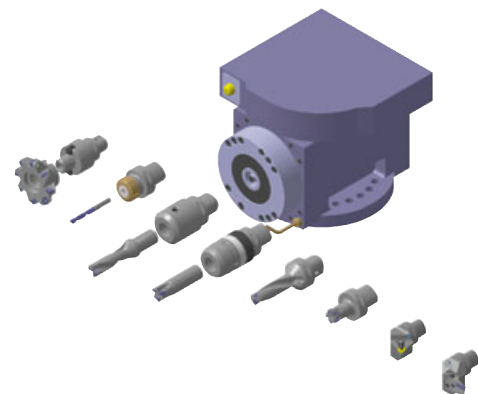
- A large radial stroke is possible for B-axis
- Heavy-duty machining is possible due to diverse cutting force
- No interference in machining corner radii



Easy tool management

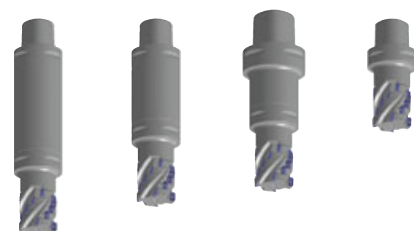
Suitable for a wide range of applications

- TungCap modular system enhances tooling flexibility in a wide range of applications, without compromising other interface adapters
- Adaptors for HSK and dual-contact BT taper are also available

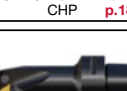
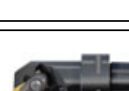


Ideal tooling

- An optimized overhang length can be set with an extension or reduction holder



Turning tool

CN**1204 CN**0904	 C*PCLNR/L****-CHP p.11	 C*PCLNR/L****-12N p.10	 C*ACLR/L****-N p.10	 C6PCMNN*-CHP p.12	 C*ACLRN00****-N p.11
TN**1604 TN**1104	 C*A/PTNJR/L****-N p.16, 17	 C*ACMNN00****-N p.12	WN**0804 WN**0604	 C*PWLNR/L****-CHP p.13	 C*AWLR/L****-N p.13
DN**1504 (DN**1506)	 C*PDJNR/L****-CHP p.15	 C*PDJNR/L****-15N p.14	 C*ADJNR/L****-N p.14	 C6PDMNL*-CHP p.15	 C*ADNN00****-15N p.16
VN**1604	 C*PVJNR/L****-16-CHP p.18	 C*AVJNR/L****-16N p.17	VC**1604**	 C*SVJCR/L****-16N p.18	 C*SVVCN00****-16N p.19
DN**1104	 C4PDJNR/L****-11 p.22	DN**1504	 C*ADJNR/L****-15 p.21	CN**1204 CN**0904	 C4PCLNR/L****-N p.20
WXGU0403**L	 C*SWLXR*-04 p.21	DXGU0703**L	 C*SDXXR*-07 p.23	VB**1103 VB**1604	 C*SVQBR*-11/16 p.23
DRILLMEISTER TUNGDRILL TUNGSIK-DRILL	Side-lock holder (For weldon-shank) C*EM**X** p.39	Side-lock holder (For whistle-notch shank) C*EM**X**E p.40	Boring bar	Sleeve SC***** p.37	Boring bar Adaptor C*ABB**-* p.37 C*ADI** p.38
					TungDrill Twisted drill C*TDX**L***-3 p.31
DGS, SGS, DGM, SGM, DTX, DTE, DGG, DTR, SGN			16ER/L**	 C*CER/L****-16ERN p.24	
Blade	Adaptor for parting-off blade p.38	 C*CHSR/L****N p.26	 C*CHFVR/L****N p.25	 C*CHSN*-CHP p.29	 C*CHFVN*-CHP p.29
Toolholder for external turning	 C*ADES-20 p.36	 C*ASHR/L** p.35	 C*ASHR/L**-.45 p.36	 C*ASHA20 p.34	 C*ADE**R/L p.34
	 C*ASHA-HPMC p.34	 C*ASHR/L-HPMC p.35	 C*ASHR/L-45-HPMC p.36		

Tool spindle

Cutting head for
external turning
& facing

Cutting head for
internal turning

Cutting head for
threading

Cutting head for
grooving

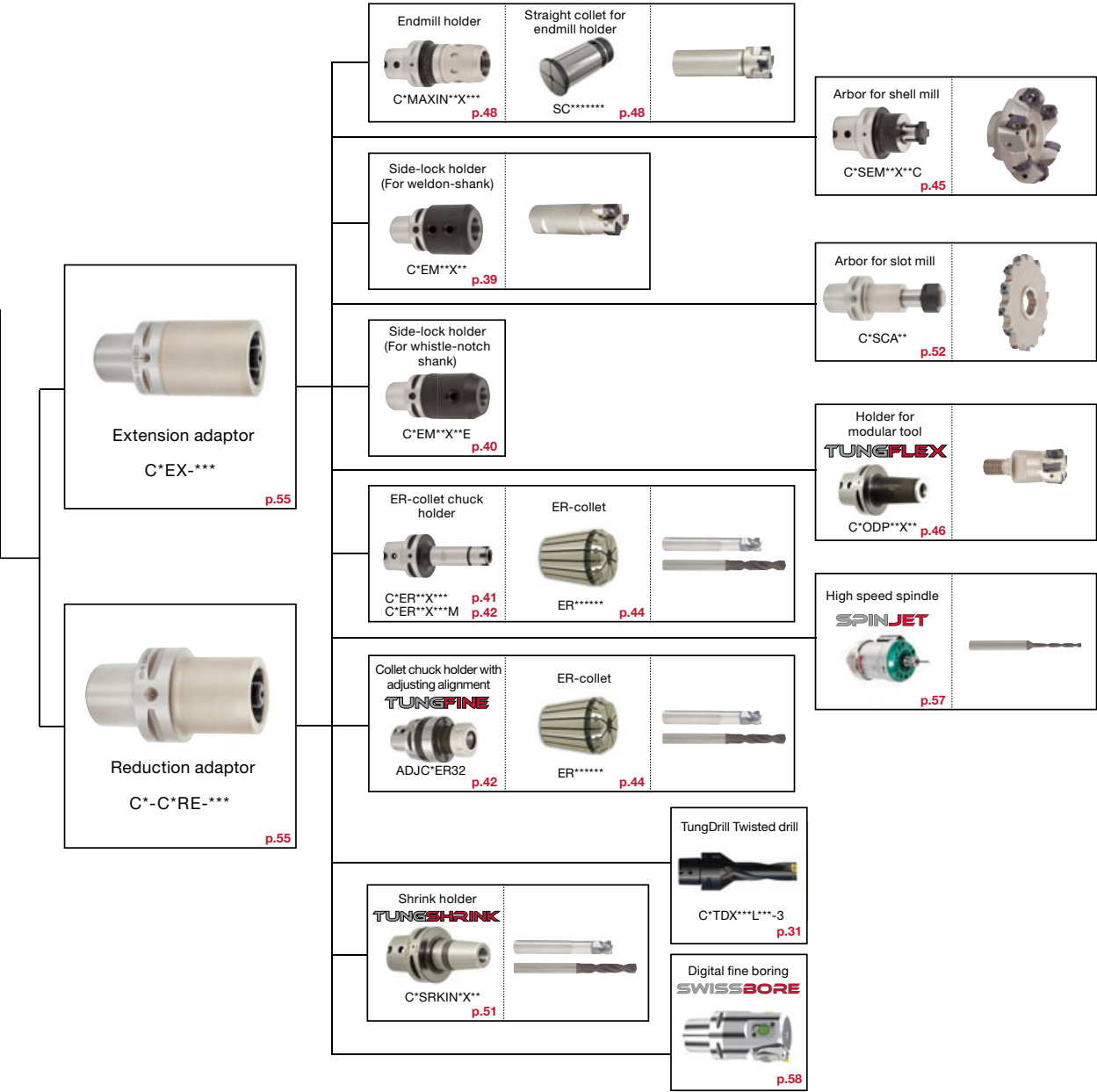
Adaptor for
toolholder with
square shank

For product details, see the page indicated in the box.

System for Multi-Tasking Machine

TOOLING SYSTEM

Rotating tool



Multi clamp
MULTICLAMPC*
p.56

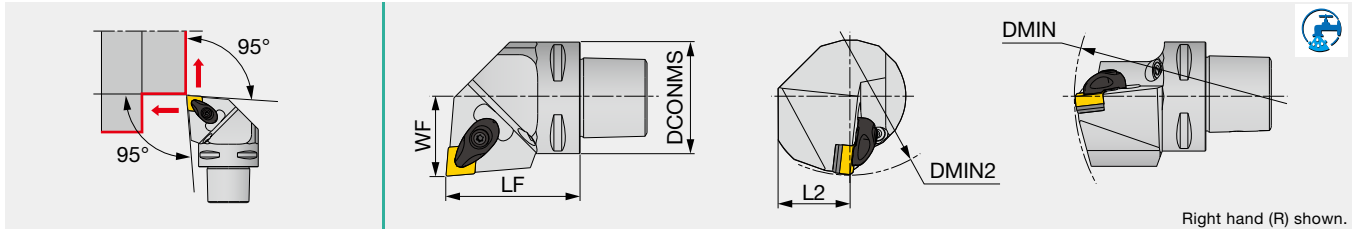


Clamping unit
p.62
For machines
p.67 -

For product details, see the page indicated in the box.

C-ACLR/L

Double-clamp toolholder, with 95° approach angle, for negative 80° rhombic inserts



Right hand (R) shown.

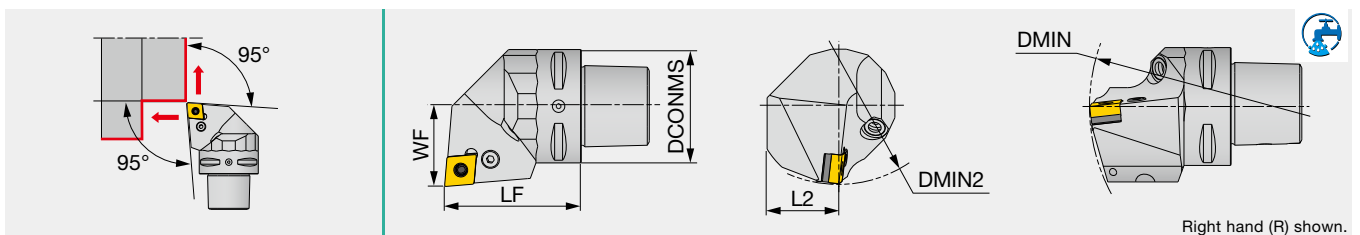
Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C3ACLR/L22040-0904N	32	40	20	22	110	121	0.8	CN**0904**E
C4ACLR/L27050-0904N	40	50	25	27	140	110	0.8	CN**0904**E
C4ACLR/L27050-12N	40	50	25	27	140	110	0.8	CN**1204...
C5ACLR/L35060-12N	50	60	32	35	165	110	0.8	CN**1204...
C6ACLR/L45065-0904N	63	65	35	45	190	110	0.8	CN**0904**E
C6ACLR/L45065-12N	63	65	41	45	190	125	0.8	CN**1204...
C6ACLR/L45065-16N	63	65	41	45	190	125	1.2	CN**1606...
C6ACLR45135-12N	63	135	41	45	190	110	0.8	CN**1204...

Applicable for 7 MPa coolant

Designation	Clamp	Clamping screw	Coolant parts	Shim	Shim screw	Spring	Spring pin	Wrench 1	Wrench 2
C*ACLR***-0904N	ACP3S-E	ACS-5W	SATZ-M10X1-5	ASC322	CSTB-3.5	BP-7	SP-2.5	-	T-15F
C*ACLR***-12N	ACP4S	ACS-5W	SATZ-M8X1-M3	ASC422	CSTB-3.5	BP-7	SP-2.5	-	T-15F
C6ACLR*45065-16N	ACP5S	ACS-6W	SATZ-M8X1-M3	ASC533	CSTB-5	BP-8.8	SP-2.5	KEYV-T20	-

C-PCLNR/L

Lever-lock toolholder, with 95° approach angle, for negative 80° rhombic inserts



Right hand (R) shown.

Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C5PCLNR/L35060-12	50	60	32	35	-	-	0.8	CN**1204...
C5PCLNR/L35060-12N	50	60	32	35	165	110	0.8	CN**1204...
C6PCLNR/L45065-12N	63	65	41	45	190	125	0.8	CN**1204...

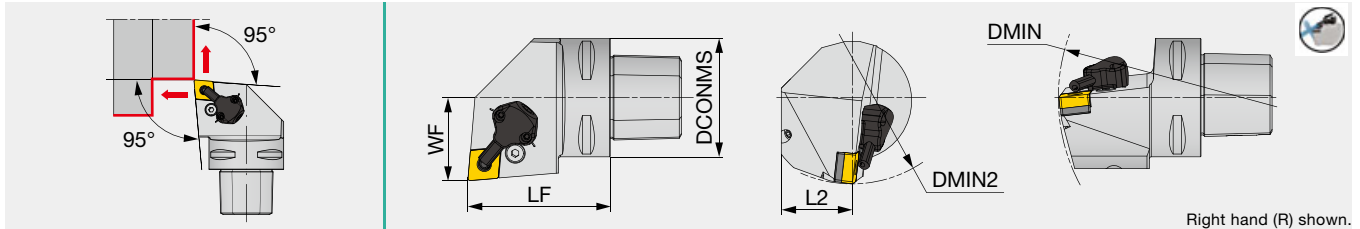
Applicable for 7 MPa coolant

The item without DMIN and DMIN2 cannot be used for boring.

Designation	Coolant parts	Lever	Clamping screw	Shim	Spring pin	Wrench
C5PCLN*35060-12	EZ104	LCL4	LCS4	LSC42	LSP4	P-3
C*PCLN***-12N	SATZ-M10X1-M5	LCL4	LCS4	LSC42	LSP4	P-3

C-PCLNR/L-CHP

Lever-lock toolholder, with 95° approach angle, for negative 80° rhombic inserts, with high pressure coolant capability



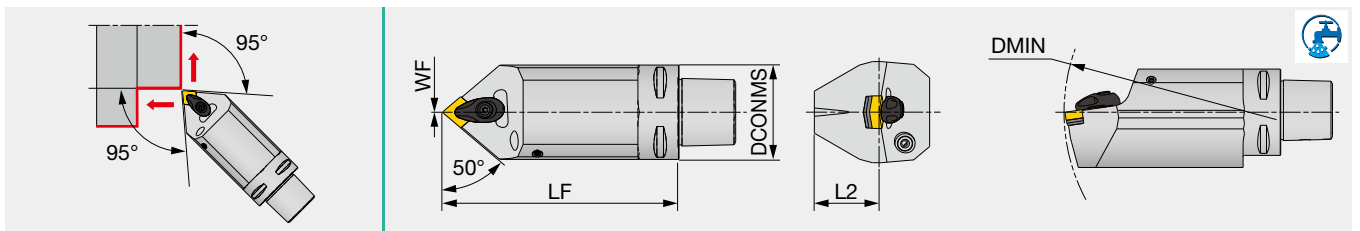
Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4PCLNR/L27050-0904-CHP	40	50	25	27	140	110	0.8	CN**0904...
C4PCLNR/L27050-12-CHP	40	50	25	27	140	110	0.8	CN**1204...
C5PCLNR/L35060-12-CHP	50	60	32	35	165	110	0.8	CN**1204...
C6PCLNR/L45065-0904-CHP	63	65	41	45	195	125	0.8	CN**0904...
C6PCLNR/L45065-12-CHP	63	65	41	45	195	125	0.8	CN**1204...

Applicable for 14 MPa coolant

SPARE PARTS						COOLANT SET				
Designation										
C*PCLNR/L**-12-CHP	LSC42	LCS4	LSP4	LCL4	P-3	C*PCLNR/L**-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N
C*PCLNR/L**0904-CHP	LSC317	LCS3	LSP3	LCL33	P-2.5					

C-ACLNN

Double-clamp toolholder, with 50° approach angle, for negative 80° rhombic inserts



Designation	DCONMS	LF	L2	WF	DMIN	RE	Insert
C5ACLNN00090-12 ⁽¹⁾	50	90	32	0	-	0.8	CN**1204...
C5ACLNN00090-12N ⁽²⁾	50	90	32	0	165	0.8	CN**1204...
C5ACLNN00125-12 ⁽¹⁾	50	125	32	0	-	0.8	CN**1204...
C5ACLNN00125-12N ⁽²⁾	50	125	32	0	165	0.8	CN**1204...
C6ACLNN00100-12N ⁽²⁾	63	100	37.5	0	190	0.8	CN**1204...
C6ACLNN00140-12N ⁽²⁾	63	140	37.5	0	190	0.8	CN**1204...

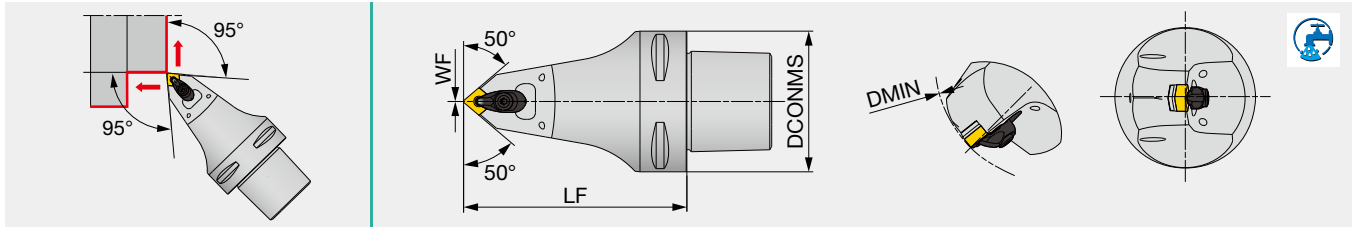
The items without DMIN cannot be used for boring.

(1) Applicable for 3 MPa coolant (2) Applicable for 7 MPa coolant

SPARE PARTS								
Designation	Clamp	Clamping screw	Coolant parts	Shim	Shim screw	Spring	Spring pin	Wrench
C5ACLNN00090-12	ACP4S	ACS-5W	EZ83	ASC422	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ACLNN00090-12N	ACP4S	ACS-5W	SATZ-M8X1-M3	ASC422	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ACLNN00125-12	ACP4S	ACS-5W	EZ83	ASC422	CSTB-3.5	BP-7	SP-2.5	T-15F
C*ACLNN001**-12N	ACP4S	ACS-5W	SATZ-M8X1-M3	ASC422	CSTB-3.5	BP-7	SP-2.5	T-15F

C-ACMNN

Double-clamp toolholder, with 50° approach angle, for negative 80° rhombic inserts



Designation	DCONMS	LF	WF	DMIN	RE	Insert
C6ACMNN00100-0904N	63	100	0	110	0.8	CN**0904**E
C6ACMNN00140-0904N	63	140	0	110	0.8	CN**0904**E
C6ACMNN00100-12N	63	100	0	110	0.8	CN**1204...
C6ACMNN00140-12N	63	140	0	110	0.8	CN**1204...

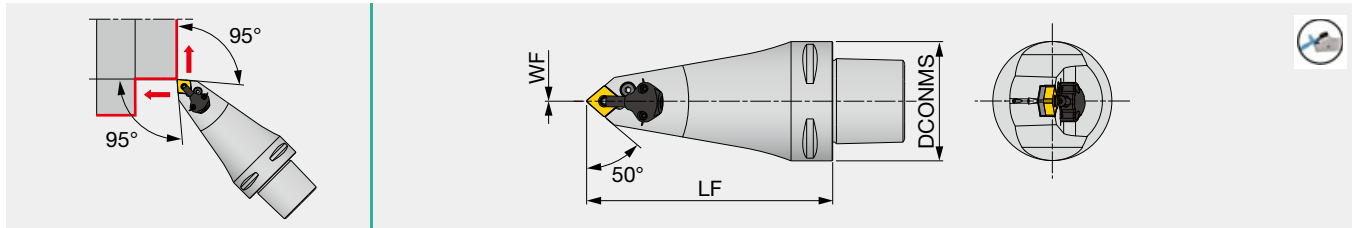
Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamp	Clamping screw	Shim	Shim screw	Spring	Spring pin	Wrench
C6ACMNN001**0904N	ACP3S-E	ACS-5W	ASC322	CSTB-3.5	BP-7	SP-2.5	T-15F
C6ACMNN001**12N	ACP4S	ACS-5W	ASC422	CSTB-3.5	BP-7	SP-2.5	T-15F

C-PCMNN-CHP

Lever-lock toolholder, with 50° approach angle, for negative 80° rhombic inserts, with high pressure coolant capability



Designation	DCONMS	LF	WF	RE	Insert
C6PCMNN00130-12-CHP	63	130	0	0.8	CN**1204...

Applicable for 14 MPa coolant

Cannot be used for boring.

SPARE PARTS

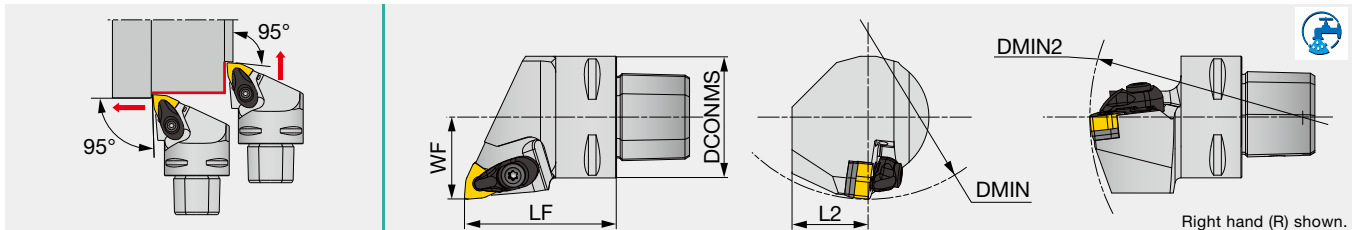
Designation	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant unit
C6PCMNN00130-12-CHP	LSC42	LSP4	LCL4	LCS4	P-3	CU-CW-CHP

COOLANT SET

Designation	Coolant unit	Mounting screw	Wrench 2	O-ring
C6PCMNN00130-12-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N

C-AWLNR/L

Double-clamp toolholder, with 95° approach angle, for negative 80° trigon inserts



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4AWLNR/L27050-0604N	40	50	25	27	140	110	0.8	WN**0604...
C4AWLNR/L27050-08N	40	50	25	27	-	-	0.8	WN**0804...
C6AWLNR/L45065-08N	63	65	35	45	190	110	0.8	WN**0804...

Applicable for 7 MPa coolant

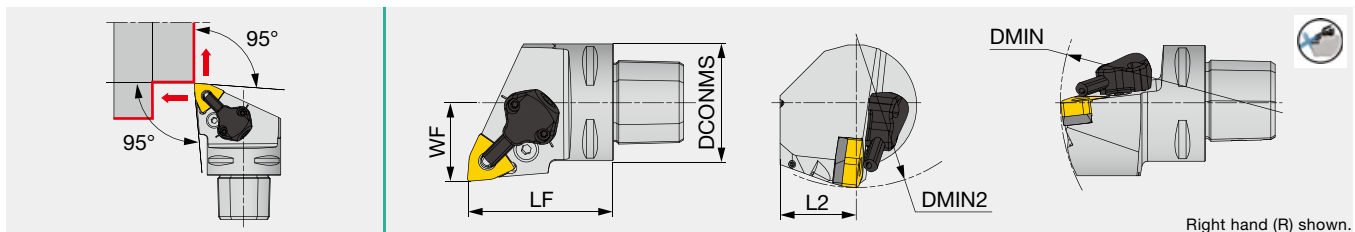
The items without DMIN and DMIN2 cannot be used for boring.

SPARE PARTS

Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Spring pin	Wrench
C-AWLNR/L	ACP4S	ACS-5W	ASW422	CSTB-3.5	BP-7	SP-2.5	T-15F

C-PWLNR/L-CHP

Lever-lock toolholder, for negative 80° trigon inserts, with high pressure coolant capability



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4PWLNR/L27050-0604-CHP	40	50	25	27	140	110	0.8	WN**0604...
C4PWLNR/L27050-08-CHP	40	50	25	27	140	110	0.8	WN**0804...
C6PWLNR/L45065-08-CHP	63	65	41	45	190	125	0.8	WN**0804...

Applicable for 14 MPa coolant

SPARE PARTS

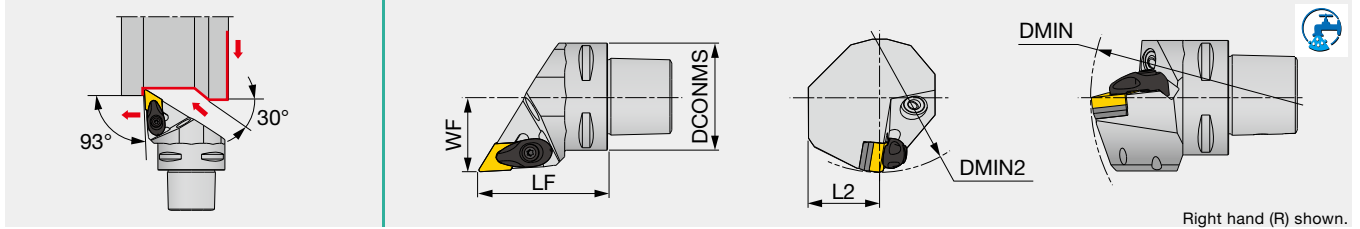
Designation	Shim	Clamping screw	Spring pin	Lever	Wrench
C*PWLNR/L*-08-CHP	LSW42BL	LCS4	LSP4	LCL4	P-3
C*PWLNR/L**0604-CHP	LSW312	LCS3	LSP3	LCL3	P-2.5

COOLANT SET

Designation	Coolant unit	Mounting screw	Wrench	O-ring
C*PWLNR/L*-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N

C-ADJNR/L

Double-clamp toolholder, with 93° approach angle, for negative 55° rhombic inserts



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C3ADJNR/L22050-1104N	32	50	20	22	121	85	0.8	DN**1104...
C4ADJNR/L27050-1104N	40	50	25	27	145	110	0.8	DN**1104...
C4ADJNR/L27050-15N	40	50	25	27	145	110	0.8	DN**15...
C5ADJNR/L35060-15N	50	60	32	35	165	110	0.8	DN**15...
C6ADJNR/L45065-1104N	63	65	35	45	190	110	0.8	DN**1104...
C6ADJNR/L45065-15N	63	65	41	45	190	110	0.8	DN**15...
C6ADJNR/L45135-15N	63	135	41	45	190	110	0.8	DN**15...

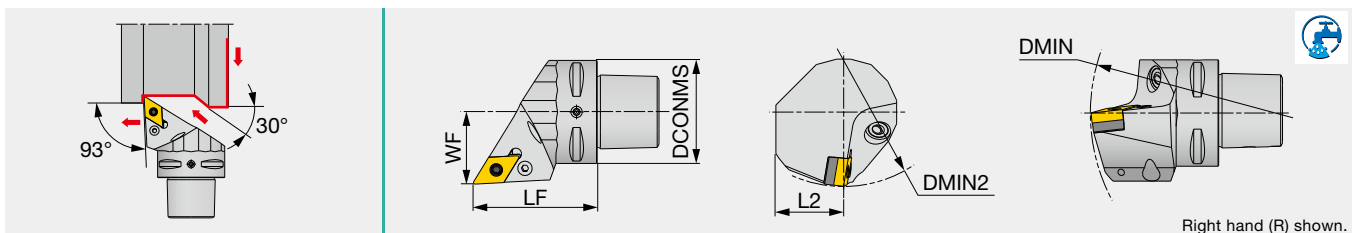
Applicable for 7 MPa coolant

Designation	Clamp	Clamping screw	Coolant parts	Shim	Shim screw	Spring	Spring pin	Wrench
C4ADJN*27050-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ADJN*35060-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C6ADJN*45065-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C6ADJN*45135-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F

Option: ASD423 (Shim for DN**1506**)

C-PDJNR/L

Lever-lock toolholder, with 93° approach angle, for negative 55° rhombic inserts



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C5PDJNR/L35060-15N	50	60	32	35	165	110	0.8	DN**1504(06)
C6PDJNR/L45065-15N	63	65	41	45	195	95	0.8	DN**1504(06)

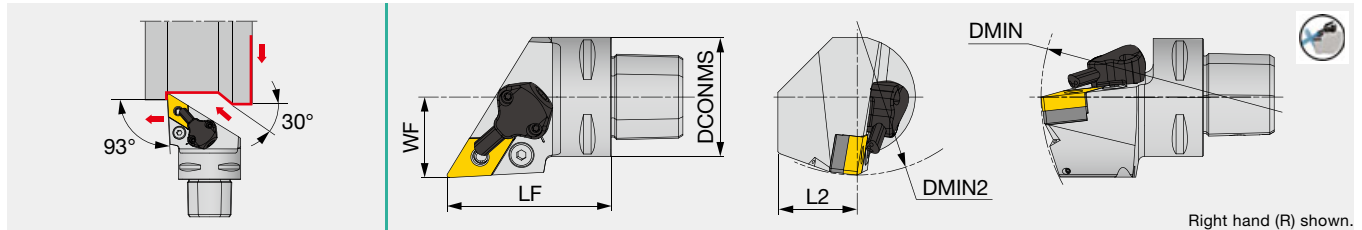
Applicable for 7 MPa coolant

Designation	Coolant parts	Shim	Lever	Clamping screw	Spring pin	Wrench
C5PDJN*35060-15N	SATZ-M10X1-M5	LSD43A	LCL4	LCS4	LSP4	P-3
C6PDJN*45065-15N	SATZ-M10X1-M5	LSD43A	LCL4	LCS4	LSP4S	P-3

Option: LSD42A (Shim for DN**1506**), LSP4S (Spring pin for DN**1506**)

C-PDJNR/L-CHP

Lever-lock toolholder, with 93° approach angle, for negative 55° rhombic inserts, with high pressure coolant capability



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4PDJNR/L27055-1104-CHP	40	55	25	27	140	110	0.8	DN**1104...
C4PDJNR/L27055-15-CHP	40	55	25	27	140	110	0.8	DN**1504(06)...
C5PDJNR/L35060-15-CHP	50	60	32	35	165	110	0.8	DN**1504(06)...
C6PDJNR/L45065-1104-CHP	63	65	35	45	190	110	0.8	DN**1104...
C6PDJNR/L45065-15-CHP	63	65	35	45	190	110	0.8	DN**1504(06)...

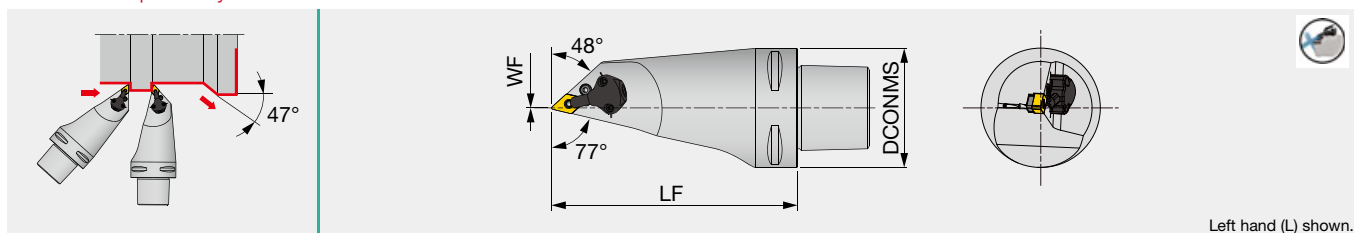
Applicable for 14 MPa coolant

SPARE PARTS						COOLANT SET				
Designation	Shim	Clamping screw	Spring pin	Lever	Wrench	Designation	Coolant unit	Mounting screw	Wrench	O-ring
C*PDJNR/L**-15-CHP	LSD43A	LCS4	LSP4	LCL4	P-3	C*PDJLNR/L**-CHP	CU-D-CHP	SRM3	T-8F	OR6.4X0.9N
C*PDJNR/L**1104-CHP	ELSD32	LCS3	LSP3	LCL33L	P-2.5					

Option: LSD42A (Shim for DN**1506**), LSP4S (Spring pin for DN**1506**)

C-PDMNL-CHP

Lever-lock toolholder, with 48° approach angle, for negative 55° rhombic inserts, with high pressure coolant capability



Designation	DCONMS	LF	WF	RE	Insert
C6PDMNL00130-1104-CHP	63	130	0	0.8	DN**1104...

Applicable for 14 MPa coolant

Cannot be used for boring

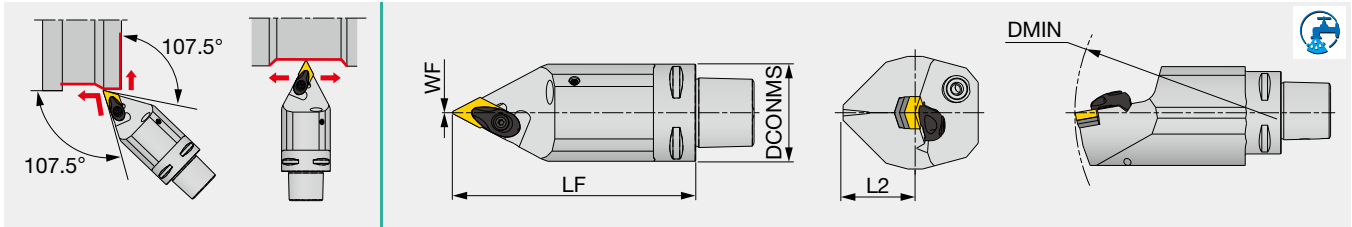
SPARE PARTS						
Designation	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant unit
C6PDMNL00130-1104-CHP	ELSD32	LSP3	LCL33L	LCS3	P-2.5	CU-D-CHP

COOLANT SET				
Designation	Coolant unit	Mounting screw	Wrench 2	O-ring
C6PDMNL00130-1104-CHP	CU-D-CHP	SRM3	T-8F	OR6.4X0.9N

C-ADNNN

TURNING

Double-clamp toolholder, with 62.5° approach angle, for negative 55° rhombic inserts



Designation	DCONMS	LF	L2	WF	DMIN	RE	Insert
C5ADNNN00090-15 ⁽¹⁾	50	90	32	0	-	0.8	DN**1504(06)
C5ADNNN00090-15N ⁽²⁾	50	90	32	0	165	0.8	DN**1504(06)
C5ADNNN00125-15 ⁽¹⁾	50	125	32	0	-	0.8	DN**1504(06)
C5ADNNN00125-15N ⁽²⁾	50	125	32	0	165	0.8	DN**1504(06)
C6ADNNN00100-15N ⁽²⁾	63	100	37.5	0	190	0.8	DN**1504(06)
C6ADNNN00140-15N ⁽²⁾	63	140	37.5	0	190	0.8	DN**1504(06)

The items without DMIN cannot be used for boring

(1) Applicable for 3 MPa coolant (2) Applicable for 7 MPa coolant

SPARE PARTS

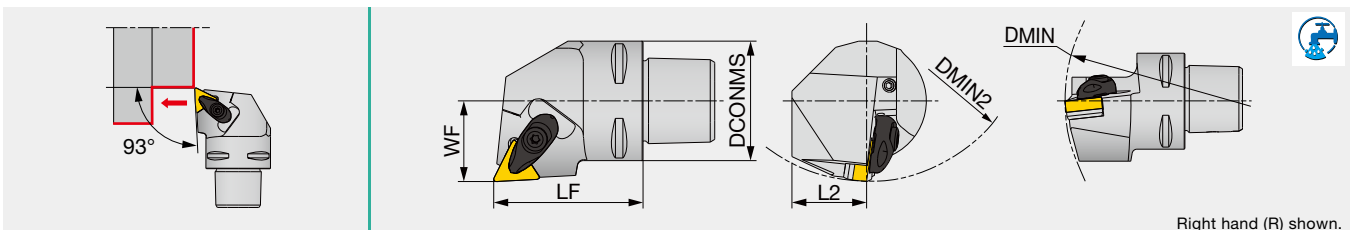
Designation	Clamp	Clamp screw	Coolant parts	Shim	Shim screw	Spring	Spring pin	Wrench
C5ADNNN00090-15	ACP4S	ACS-5W	EZ104	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ADNNN00090-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ADNNN00125-15	ACP4S	ACS-5W	EZ104	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C5ADNNN00125-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C6ADNNN00100-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F
C6ADNNN00140-15N	ACP4S	ACS-5W	SATZ-M10X1-M5	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F

Option: ASD423 (Shim for DN**1506**)

C-ATJNR/L

TURNING

Double-clamp toolholder, with 93° approach angle, for negative 60° triangular inserts



Right hand (R) shown.

Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4ATJNR/L27050-16N	40	50	25	27	140	110	0.8	TN**1604...

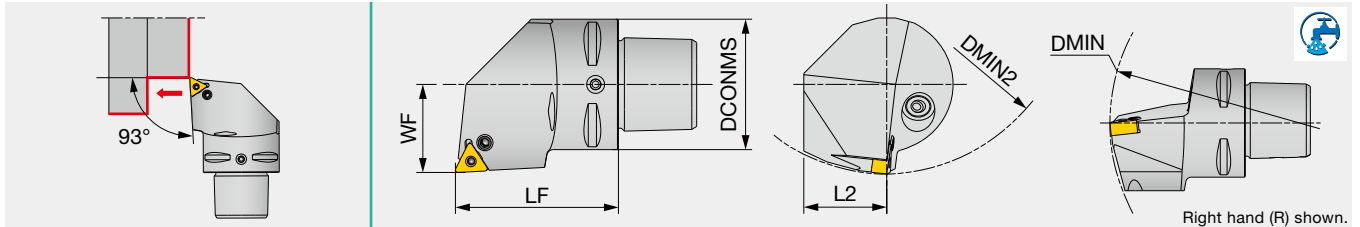
Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Spring pin	Wrench
C4ATJNR/L...	ACP3S	ACS-5W	AST322	CSTB-3.5	BP-7	SP-2.5	T-15F

C-PTJNR/L

Lever-lock toolholder, with 93° approach angle, for negative 60° triangular inserts



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4PTJNR/L27050-1104N	40	50	25	27	140	110	0.8	TN**1104**E

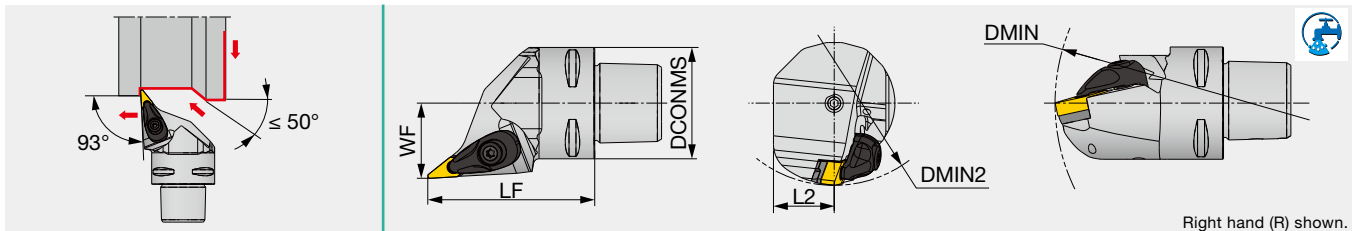
Applicable for 7 MPa coolant

Designation	Coolant parts	Lever	Clamping screw	Wrench
C4PTJNR/L27050-1104N	SATZ-M8X1-M3	LCL23	LCS23A	P-2.5

C-AVJNR/L

TURNING

Double-clamp toolholder, with 93° approach angle, for negative 35° rhombic inserts



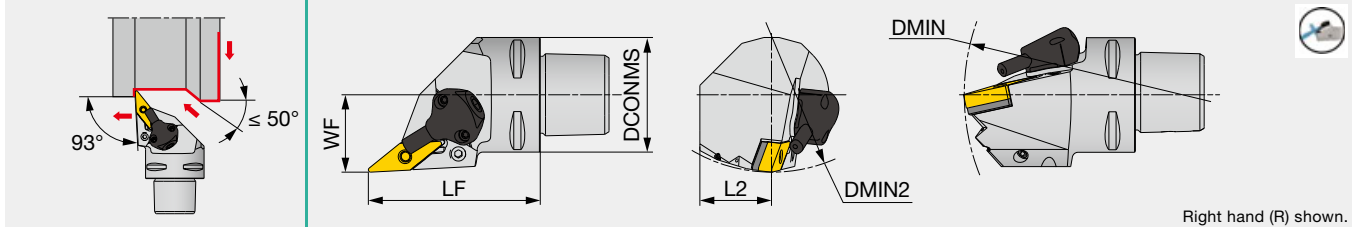
Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4AVJNR/L27060-1204N	40	60	20	27	140	55	0.8	VN**1204...
C4AVJNR/L27060-16N	40	60	25	27	140	110	0.8	V/YN**1604...
C6AVJNR/L45065-1204N	63	65	31.5	45	190	81	0.8	VN**1204...
C6AVJNR/L45065-16N	63	65	35	45	190	81	0.8	V/YN**1604...

Applicable for 7 MPa coolant

Designation	Clamp	Clamp screw	Coolant parts	Shim	Shim screw	Spring	Spring pin	Wrench 1	Wrench 2
C4AVJNR/L27060-1204N	ACP3L-E	ACS-5W	-	ASV222	CSTB-3	BP-7	SP-2.5	T-9F	T-15F
C4AVJNR/L27060-16N	ACP3L	ACS-5W	-	ASV322	CSTB-3.5	BP-7	SP-2.5	-	T-15F
C6AVJNR/L45065-1204N	ACP3L-E	ACS-5W	SATZ-M10X1-M5	ASV222	CSTB-3	BP-7	SP-2.5	T-9F	T-15F
C6AVJNR/L45065-16N	ACP3L	ACS-5W	SATZ-M10X1-M5	ASV322	CSTB-3.5	BP-7	SP-2.5	-	T-15F

C-PVJNR/L-CHP

Lever-lock toolholder, with 93° approach angle, for negative 35° rhombic inserts, with high pressure coolant capability



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C4PVJNR/L27060-16-CHP	40	60	25	27	140	110	0.8	V/YN**1604...
C6PVJNR/L45065-16-CHP	63	65	32	45	190	81	0.8	V/YN**1604...

Applicable for 14 MPa coolant

SPARE PARTS

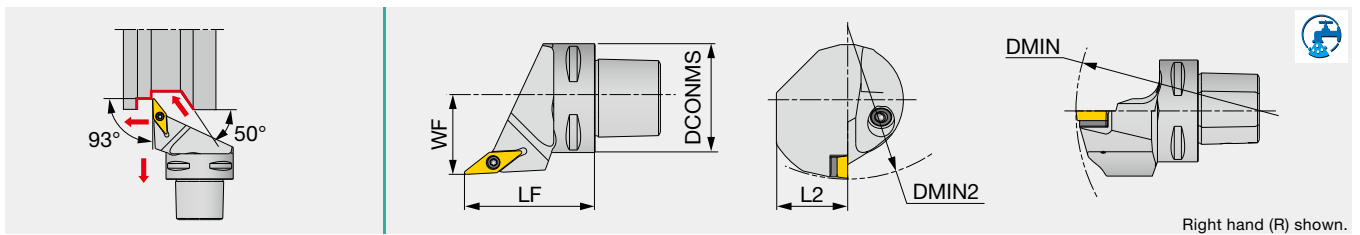
Designation	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant unit
C*PVJNR/L...16-CHP	LSV317	LSP3	LCL3V	LCS3V	P-2.5	CU-V-CHP

COOLANT SET

Designation	Coolant unit	Mounting screw	Wrench 2	O-ring
C*PVJNR/L...16-CHP	CU-V-CHP	SRM3	T-8F	OR6.4X0.9N

C-SVJCR/L

Screw-on toolholder, with 93° approach angle, for positive 35° rhombic inserts



Designation	DCONMS	LF	L2	WF	DMIN	DMIN2	RE	Insert
C3SVJCR/L22040-11N ⁽²⁾	32	40	20	22	-	-	0.4	VC**1103...
C5SVJCL35060-16 ⁽¹⁾	50	60	32	35	-	-	0.8	VC**1604...
C5SVJCR/L35060-16N ⁽²⁾	50	60	32	35	170	160	0.8	VC**1604...
C6SVJCR/L45065-16 ⁽¹⁾	63	65	41	45	-	-	0.8	VC**1604...
C6SVJCR/L45065-16N ⁽²⁾	63	65	41	45	170	190	0.8	VC**1604...

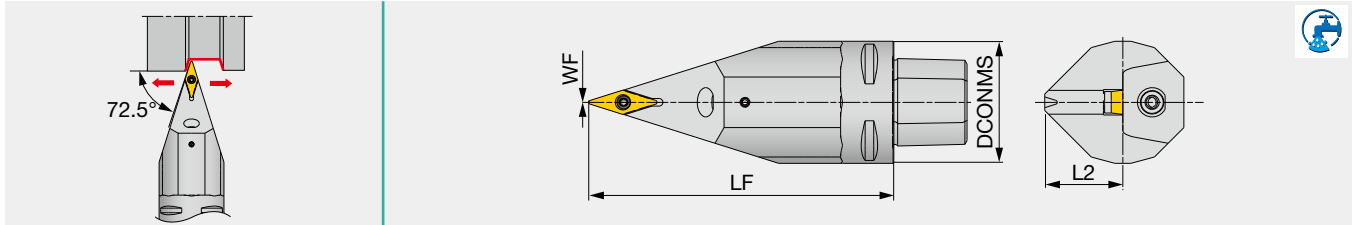
The items without DMIN and DMIN2 cannot be used for boring.
(1) Applicable for 3 MPa coolant (2) Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamping screw	Coolant parts	Shim	Shim screw	Wrench 1	Wrench 2
C3SVJC*22040-11N	CSTB-2.5	SATZ-M8X1-M3	-	-	-	T-8F
C5SVJC*35060-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C5SVJC*35060-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVJC*45065-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVJC*45065-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F

C-SVVCN

Screw-on toolholder, with 72.5° approach angle, for positive 35° rhombic inserts



Designation	DCONMS	LF	L2	WF	RE	Insert
C5SVVCN00090-16 ⁽¹⁾	50	90	32	0	0.8	VC**1604...
C5SVVCN00090-16N ⁽²⁾	50	90	32	0	0.8	VC**1604...
C5SVVCN00125-16 ⁽¹⁾	50	125	32	0	0.8	VC**1604...
C5SVVCN00125-16N ⁽²⁾	50	125	32	0	0.8	VC**1604...
C6SVVCN00100-16N ⁽²⁾	63	100	37.5	0	0.8	VC**1604...
C6SVVCN00140-16N ⁽²⁾	63	140	37.5	0	0.8	VC**1604...

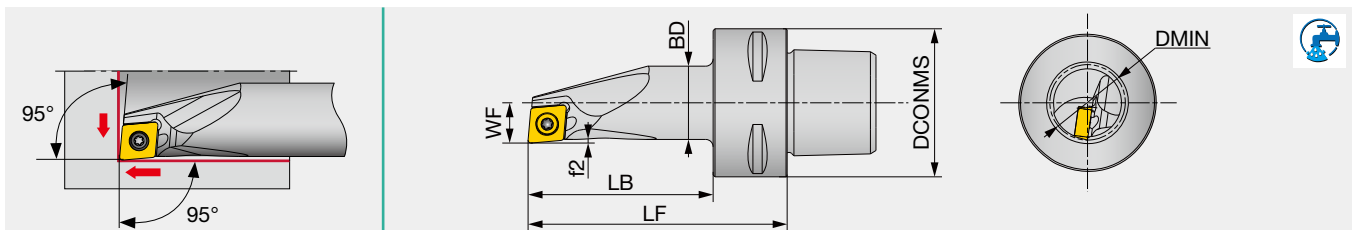
(1) Applicable for 3 MPa coolant (2) Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamping screw	Coolant parts	Shim	Shim screw	Wrench 1	Wrench 2
C5SVVCN00090-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C5SVVCN00090-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F
C5SVVCN00125-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C5SVVCN00125-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVVCN00100-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVVCN00100-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVVCN00140-16	CSTB-3.5L	EZ104	SSV32	DTS5-3.5	P-3.5	T-15F
C6SVVCN00140-16N	CSTB-3.5L	SATZ-M10X1-M5	SSV32	DTS5-3.5	P-3.5	T-15F

C-SCLCR

Screw-on internal toolholder, for positive 80° rhombic inserts

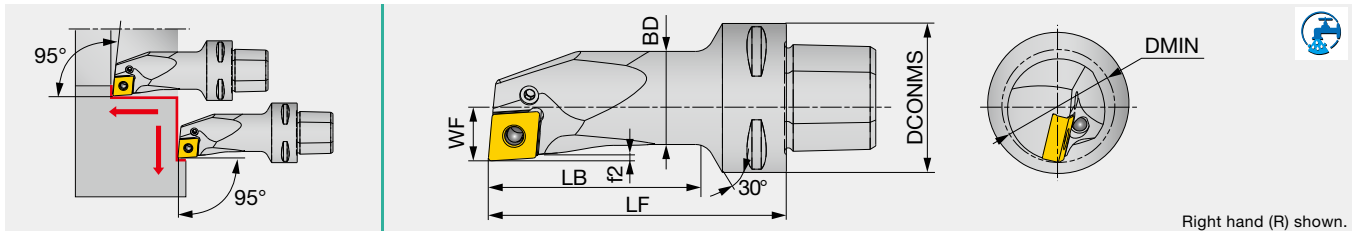


Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C3SCLCR11070-09	22	32	19.8	70	52	11	1.0	0.8	CC**09...
C4SCLCR11070-09	22	40	19.8	70	47	11	1.0	0.8	CC**09...

Applicable for 7 MPa coolant
Use right-hand toolholders (R) with left-hand inserts (L).

C-PCLNR/L-IN

Lever-lock internal toolholder, for negative 80° rhombic inserts



Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C3PCLNR17090-12	32	32	25	90	71	17	1.6	0.8	CN**1204...
C4PCLNR17090-0904	32	40	25	90	63	17	1.3	0.8	CN**0904**E
C4PCLNR/L17080-12	32	40	25	80	58.5	17	1.6	0.8	CN**1204...
C4PCLNR22110-0904	40	40	32	110	86.5	22	1.3	0.8	CN**0904**E
C4PCLNR27120-0904	50	40	39.5	120	100	27	1.7	0.8	CN**0904**E

Applicable for 7 MPa coolant

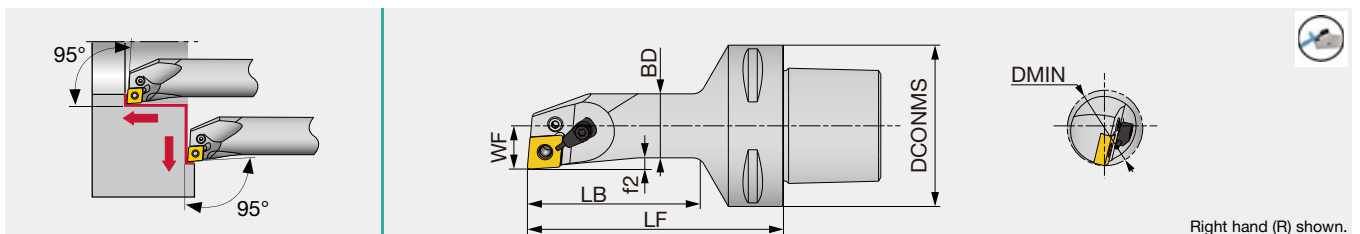
SPARE PARTS

Designation	Lever	Clamping screw	Wrench
C*PCLNR/L...	LCL43N	LCS43	P-2.5

C-PCLNR/L-CHP

Lever-lock internal toolholder, for negative 80° rhombic inserts

TUNGTURN



Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C6PCLNL17100-12-CHP	32	63	25	100	67.5	17	4.5	0.8	CN**1204...

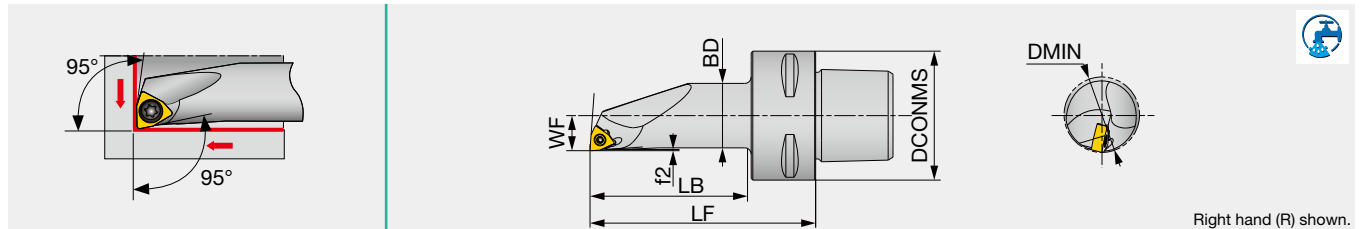
Applicable for 14 MPa coolant

SPARE PARTS

Designation	Clamping screw	Coolant unit	Wrench	Lever
C6PCLNL17100-12-CHP	LCS43	S-CU-CHP	P-2.5F	LCL43N

C-SWLXR/L

Screw-on internal toolholder, for WXGU inserts



Right hand (R) shown.

Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C4SWLXR11070-04	22	40	20	70	47	11	0.4	0.4	WXGU0403**L...

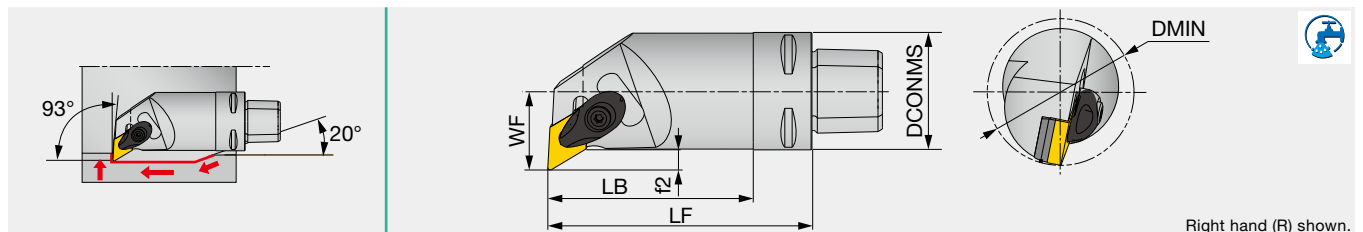
Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamping screw	Wrench
C4SWLXR11070-04	SR34-514	T-7F

C-ADUNR/L

Double-clamp internal toolholder, for negative 55° rhombic inserts



Right hand (R) shown.

Designation	DMIN	DCONMS	LF	LB	WF	f2	RE	Insert
C4ADUNR20070-15	38	40	70	50	20	5	0.8	DN**1504...
C4ADUNR27090-15	50	40	90	-	27	7	0.8	DN**1504...

Applicable for 7 MPa coolant

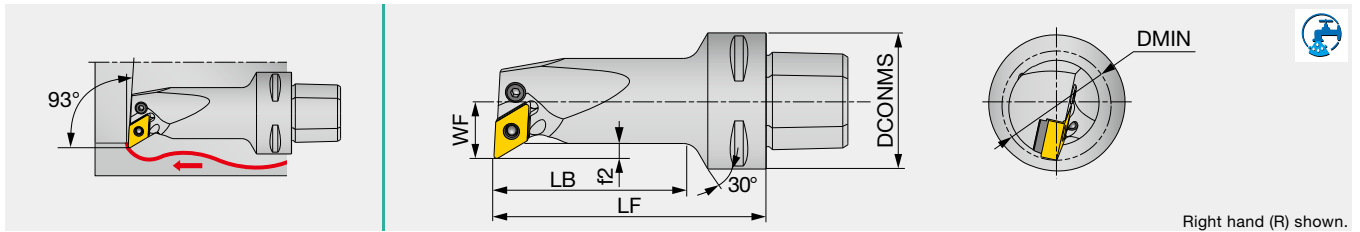
SPARE PARTS

Designation	Clamp	Clamp screw	Shim	Shim screw	Spring	Spring pin	Wrench
C*ADUNR/L...	ACP4S	ACS-5W	ASD432	CSTB-3.5	BP-7	SP-2.5	T-15F

Option: ASD423 (Shim for DN**1506**)

C-PDUNR/L

Lever-lock internal toolholder, for negative 55° rhombic inserts



Designation	DMIN	DCONMS	LF	LB	WF	f2	RE	Insert
C4PDUNR/L17080-11	32	40	80	58.5	17	4.4	0.8	DN**1104...

Applicable for 7 MPa coolant

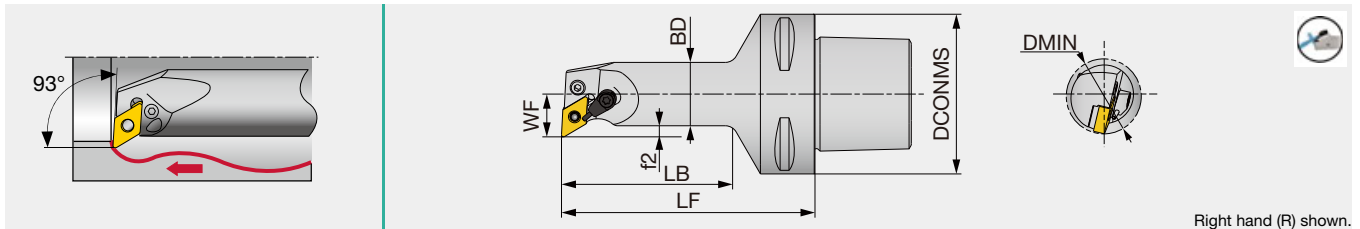
SPARE PARTS

Designation	Lever	Clamping screw	Shim	Spring pin	Wrench
C4PDUNR17080-11	LCL33L	LCS3	ELSD317BR	LSP3	P-2.5
C4PDUNL17080-11	LCL33L	LCS3	ELSD317BL	LSP3	P-2.5

C-PDUNR/L

Lever-lock internal toolholder, for negative 55° rhombic inserts

TUNG^{TURN}TJET



Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C6PDUNL17100-1104-CHP	32	63	25	100	67.5	17	4.5	0.8	DN**1104...

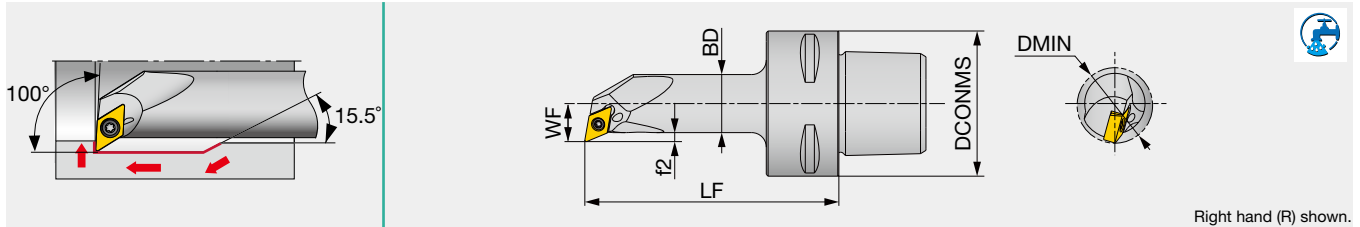
Applicable for 14 MPa coolant

SPARE PARTS

Designation	Shim	Clamping screw	Coolant unit	Wrench	Spring pin	Lever
C6PDUNL17100-1104-CHP	ELSD317BL	LCS43	S-CU-CHP	P-2.5	LSP3	LCL33L

C-SDXXR

Screw-on internal toolholder, for DXGU inserts



Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C3SDXXR11065-07	20	32	16	65	45	10.6	2.5	0.4	DXGU0703**L...
C3SDXXR13080-07	24	32	20	80	62	12.6	2.5	0.4	DXGU0703**L...
C4SDXXR11070-07	20	40	16	70	46	10.6	2.5	0.4	DXGU0703**L...
C4SDXXR13080-07	24	40	20	80	58	12.6	2.5	0.4	DXGU0703**L...

Applicable for 7 MPa coolant
Use right-hand toolholders (R) with left-hand inserts (L).

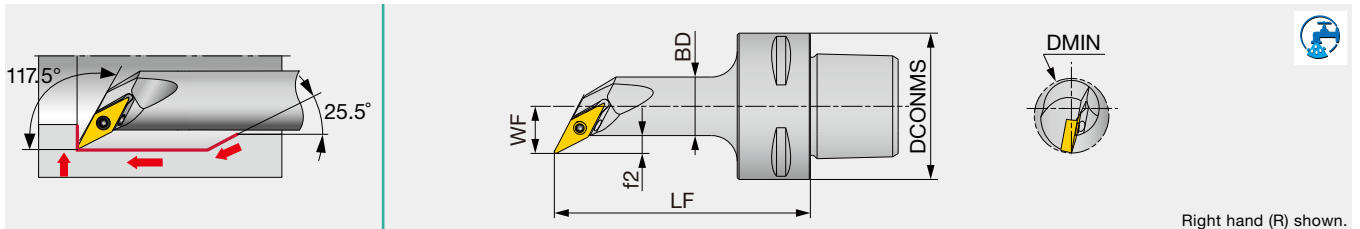
SPARE PARTS



Designation	Clamping screw	Wrench
C*SDXXR...	SR34-514	T-7F

C-SVQBR/L

Screw-on internal toolholder, for positive 35° rhombic inserts



Designation	DMIN	DCONMS	BD	LF	LB	WF	f2	RE	Insert
C3SVQBR13065-11	21.5	32	16	65	45	13	4.9	0.4	VB**11...
C3SVQBR15080-11	25.5	32	20	80	59	15	4.9	0.4	VB**11...
C3SVQBR18090-16	30.5	32	25	90	71	17.5	4.9	0.8	VB**16...
C4SVQBR13070-11	21.5	40	16	70	43	13	4.9	0.4	VB**11...
C4SVQBR15080-11	25.5	40	20	80	52	15	4.9	0.4	VB**11...
C4SVQBR18095-16	30.5	40	25	95	68	17.5	4.9	0.8	VB**16...

Applicable for 7 MPa coolant

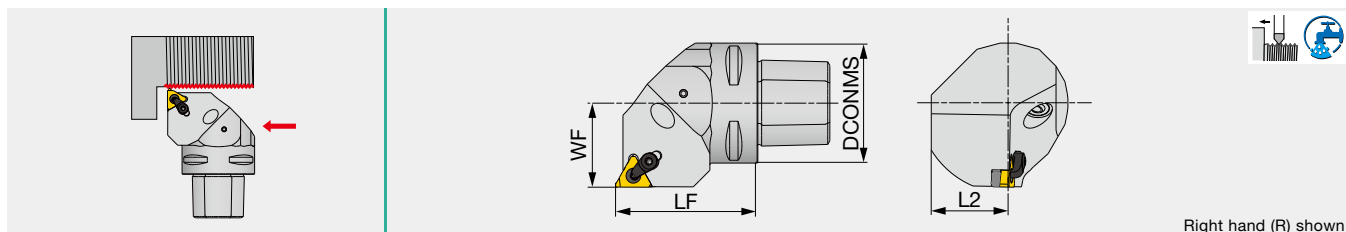
SPARE PARTS



Designation	Clamping screw	Wrench
C*SVQBR**-11	CSTB-2.5	T-6F
C*SVQBR**-16	CSTB-3.5	T-15F

C-CER/L

External threading toolholder, alternative clamping of screw-on or clamp-on



Designation	DCONMS	LF	L2	WF	Insert
C3CER/L22040-16ERN ⁽³⁾	32	40	20	22	16ER/L...
C4CER/L27050-16ERN ⁽³⁾	40	50	25	27	16ER/L...
C5CEL35060-16ER ⁽¹⁾	50	60	32	35	16ER/L...
C5CER/L35060-16ERN ⁽²⁾	50	60	32	35	16ER/L...
C6CEL45065-16ER ⁽¹⁾	63	65	41	45	16ER/L...
C6CER/L45065-16ERN ⁽²⁾	63	65	41	45	16ER/L...

(1) Applicable for 3 MPa coolant
(2), (3) Applicable for 7 MPa coolant

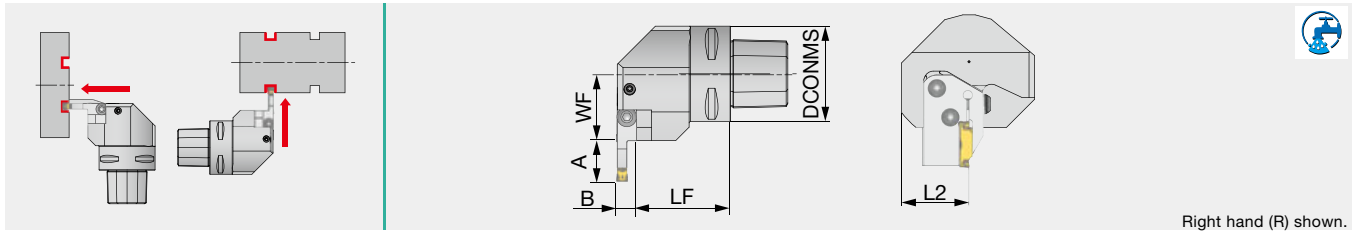
SPARE PARTS

Designation	Shim	Shim screw	Clamp screw	Clamping screw	Wrench 1	Wrench 2	Coolant parts
C*CER/L*****-16ER...	A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	EZ104 ⁽¹⁾
C*CER/L*****-16ER...	A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	SATZ-M10X1-M5 ⁽²⁾
C*CER/L*****-16ER...	A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	SATZ-M8X1-M3 ⁽³⁾

(1) Applicable for 3 MPa coolant
(2), (3) Applicable for 7 MPa coolant

C-CHFVR/L

Shank for CAER/L and CAFR/L blades



Right hand (R) shown.

Designation	DCONMS	LF	L2	WF	A	B
C3CHFVR/L22040N	32	32.5	35	22	*Table:	*Table:
C4CHFVR/L27050N	40	42.5	36	27	*Table:	*Table:
C5CHFVR/L35060N	50	49.5	36	35	*Table:	*Table:
C6CHFVR/L45065N	63	54.5	41	45	*Table:	*Table:

Applicable for 7 MPa coolant

Depend on the blade type, the value of A or B may change. If needed, the coolant direction can be adjusted by the nozzle.
See the table below for the offset dimensions.

SPARE PARTS

Designation	Coolant parts	Clamping screw	Wrench
C3CHFVR/L22040N	SATZ-M8X1-M3	CSHB-6-A	P-4
C4CHFVR/L27050N	SATZ-M8X1-M3	CSHB-6-A	P-4
C5CHFVR/L35060N	SATZ-M10X1-M5	CSHB-6-A	P-4
C6CHFVR/L45065N	SATZ-M10X1-M5	CSHB-6-A	P-4

Combination of blade and toolholder

Holder	Blade			
	CAER...	CAEL...	CAFR...	CAFL...
C*CHFVR...	-	●	●	-
C*CHFVL...	●	-	-	●

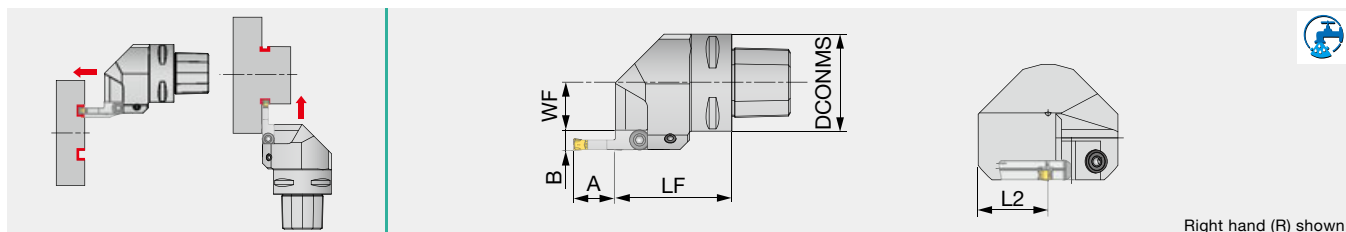
● : Corresponding

*Table: Off set dimensions for blade

Application	Blade	A	B
For external grooving	CAER/L-3T16	16	10.4
	CAER/L-4T16	16	10.5
	CAER/L-5T20	20	10.5
	CAER/L-6T20	20	10.5
For face grooving	CAFR/L-3T12-*	12	10.4
	CAFR/L-4T16-*	16	10.5
	CAFR/L-5T20-*	20	10.5
	CAFR/L-6T20-*	25	10.5

C-CHSR/L

Shank for CAER/L and CAFR/L blades



Designation	DCONMS	LF	L2	WF	A	B
C3CHSR/L22050N	32	50	35	11.5	*Table:	*Table:
C4CHSR/L27050N	40	50	36	16.5	*Table:	*Table:
C5CHSR/L35060N	50	60	36	24.5	*Table:	*Table:
C6CHSR/L45065N	63	65	41	34.5	*Table:	*Table:

Applicable for 7 MPa coolant

Depend on the blade type, the value of A or B may change. If needed, the coolant direction can be adjusted by the nozzle.
See the table below for the offset dimensions.

SPARE PARTS

Designation	Coolant parts	Clamping screw	Wrench
C3CHSR/L22050N	SATZ-M8X1-M3	CSHB-6-A	P-4
C4CHSR/L27050N	SATZ-M8X1-M3	CSHB-6-A	P-4
C5CHSR/L35060N	SATZ-M10X1-M5	CSHB-6-A	P-4
C6CHSR/L45065N	SATE-M10X1-M5	CSHB-6-A	P-4

Combination of blade and toolholder

Holder	Blade			
	CAER...	CAEL...	CAFR...	CAFL...
C*CHSR...	●	-	-	●
C*CHSL...	-	●	●	-

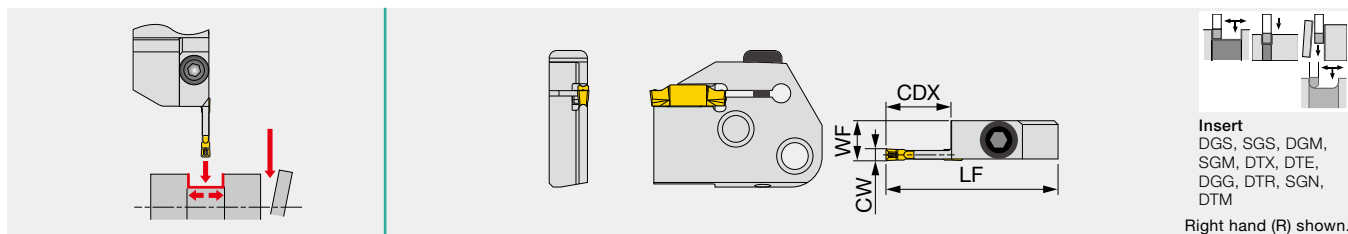
● : Corresponding

*Table: Off set dimensions for blade

Application	Blade	A	B
For external grooving	CAER/L-3T16	16	10.4
	CAER/L-4T16	16	10.5
	CAER/L-5T20	20	10.5
	CAER/L-6T20	20	10.5
For face grooving	CAFR/L-3T12-*	12	10.4
	CAFR/L-4T16-*	16	10.5
	CAFR/L-5T20-*	20	10.5
	CAFR/L-6T20-*	25	10.5

CAER/L**TUNG**CUT

Blade for external grooving and turning



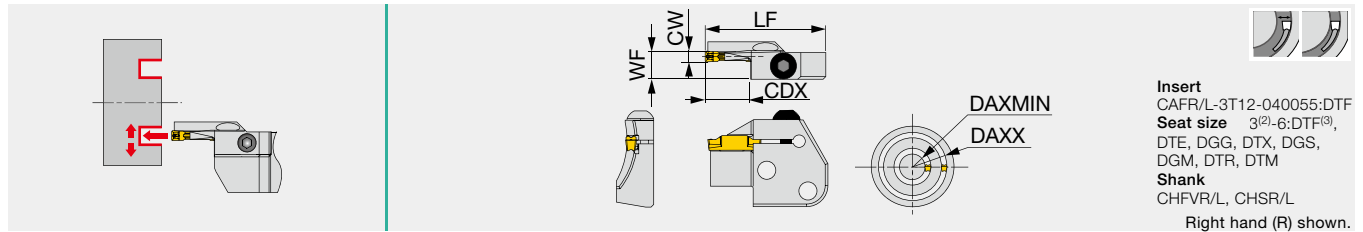
Designation	CW	Seat size	CDX	LF	WF	Shank
CAER/L-3T16	3	3	16	45	10.4	C*CHSR/L, C*CHFVL/R
CAER/L-4T16	4	4	16	45	10.5	C*CHSR/L, C*CHFVL/R
CAER/L-5T20	5	5	20	49	10.5	C*CHSR/L, C*CHFVL/R
CAER/L-6T20	6	6	20	49	10.5	C*CHSR/L, C*CHFVL/R

SPARE PARTS

Designation	Clamping screw	Wrench
CAER/L...	BHM6-20-A	P-4

CAFR/L

Blade for face grooving and turning



Designation	CW	DAXMIN	DAXX	Seat size	CDX	LF	WF ⁽¹⁾
CAFR/L-3T12-040055	3	40	55	3	12	45	10.4
CAFR/L-3T12-055075	3	55	75	3	12	45	10.4
CAFR/L-3T12-075100	3	75	100	3	12	45	10.4
CAFR/L-3T12-100140	3	100	140	3	12	45	10.4
CAFR/L-3T12-140200	3	140	200	3	12	45	10.4
CAFR/L-4T16-050070	4	50	70	4	16	45	10.5
CAFR/L-4T16-070100	4	70	100	4	16	45	10.5
CAFR/L-4T16-100150	4	100	150	4	16	45	10.5
CAFR/L-4T16-150250	4	150	250	4	16	45	10.5
CAFR/L-5T20-055080	5	55	80	5	20	49	10.5
CAFR/L-5T20-080120	5	80	120	5	20	49	10.5
CAFR/L-5T20-120180	5	120	180	5	20	49	10.5
CAFR/L-5T20-180300	5	180	300	5	20	49	10.5
CAFR/L-5T20-300000	5	300	∞	5	20	49	10.5
CAFR/L-6T25-060090	6	60	90	6	25	55	10.5
CAFR/L-6T25-090150	6	90	150	6	25	55	10.5
CAFR/L-6T25-150250	6	150	250	6	25	55	10.5
CAFR/L-6T25-250400	6	250	400	6	25	55	10.5

When groove depth is larger than (insert length - 1.5 mm), please use 1-cornered insert.

(1) WF is calculated with the groove width CW in the above table.

(2) Not applicable to CAFR/L-3T12-040055

(3) Seat sizes of DTF are only 3 and 4.

SPARE PARTS

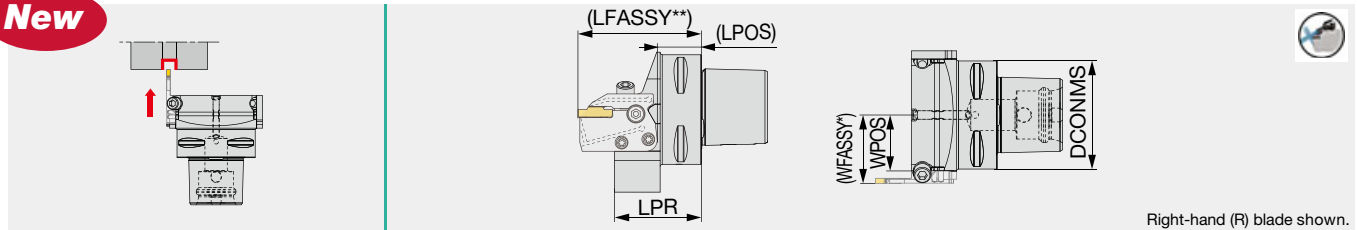
Designation	Clamping screw	Wrench
CAFR/L...	BHM6-20-A	P-4

Minimum machining diameter in face grooving with each insert

Insert	DAXMIN	Note
DTE 3 / DGS 3 / DGM 3	ø92	When the machining diameter is smaller than DAXMIN, please use DTF or DTX.
DTE 4 / DGS 4 / DGM 4	ø42	
DTE 5 / DGS 5 / DGM 5	ø64	
DTE 6 / DGS 6 / DGM 6	ø61	

C*CHSN-CHP

TungCap shank for CAER/L-CHP blades with high pressure coolant capability

New

Right-hand (R) blade shown.

Designation	DCONMS	LPR	LPOS	WPOS	Blade (Option)	Torque*
C3CHSN19045-CHP	32	45	17.5	18.5	CAER/L...-CHP	5
C4CHSN21047-CHP	40	46.5	21.5	21	CAER/L...-CHP	5
C5CHSN26047-CHP	50	47	22.5	26	CAER/L...-CHP	5
C6CHSN33050-CHP	63	50	24.5	32.5	CAER/L...-CHP	5

*WFASSY : Shank (WPOS) + blade (WF)

**LFASSY : Shank (LPOS) + blade (LF)

*Torque: Recommended clamping torque (N·m)

Applicable for 14 MPa coolant

Please see the page 33 for instructions on installing and removing the blade or the insert.

SPARE PARTS

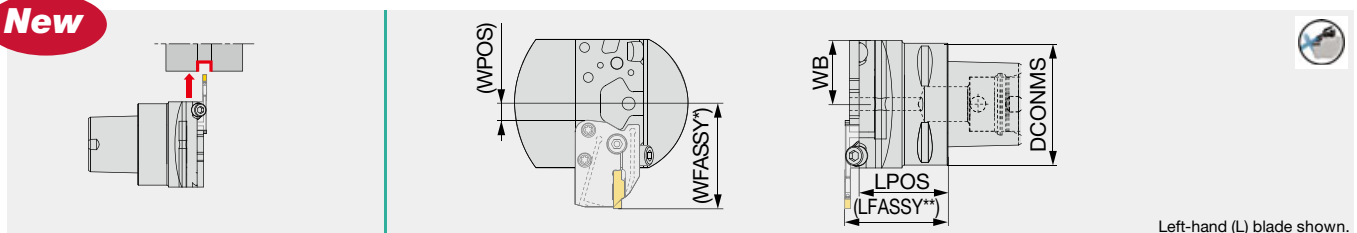
Designation	Clamping screw 1	Wrench 1	Clamping screw 2	Clamping screw 3	Wrench 2	O-ring
C*CHSN...-CHP	SRM5-04451	T-20/5	SRM6X12DIN6912	SRM6X20-XT	HW5.0	OR5X1N

Recommended clamping torque (N·m)

Clamping screw	Torque (N·m)
SRM5-04451	5
SRM6X12DIN6912	8.5
SRM6X20-XT	8.5

C*CHFVN-CHP

TungCap shank for CAER/L-CHP blades with high pressure coolant capability

New

Left-hand (L) blade shown.

Designation	DCONMS	LPOS	WB	WPOS	Blade (Option)	Torque*
C3CHFVN26040-CHP	32	40	26	1.5	CAER/L...-CHP	5
C4CHFVN26046-CHP	40	46	26	1.5	CAER/L...-CHP	5
C5CHFVN26046-CHP	50	46	26	1.5	CAER/L...-CHP	5
C6CHFVN33046-CHP	63	46	33	8.5	CAER/L...-CHP	5

*WFASSY : Shank (WPOS) + blade (LF)

**LFASSY : Shank (LPOS) + blade (WF)

*Torque: Recommended clamping torque (N·m)

Applicable for 14 MPa coolant

Please see the page 33 for instructions on installing and removing the blade or the insert.

SPARE PARTS

Designation	Clamping screw 1	Wrench 1	Clamping screw 2	Clamping screw 3	Wrench 2	O-ring
C*CHFVN...-CHP	SRM5-04451	T-20/5	SRM6X12DIN6912	SRM6X20-XT	HW5.0	OR5X1N

Recommended clamping torque (N·m)

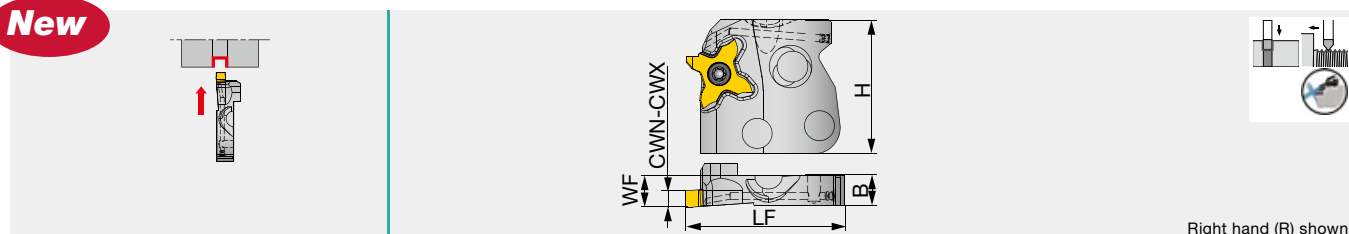
Clamping screw	Torque (N·m)
SRM5-04451	5
SRM6X12DIN6912	8.5
SRM6X20-XT	8.5

STCAR/L18-CHP

TETRAMCUT

Modular-type external grooving and parting blade, with high pressure coolant capability

New



Designation	CWN	CWX	WF	H	LF	B	Insert	Torque*
STCAR/L18-CHP	0.33	3	7.5	33	38	7.2	TC*18...	1.2

Use the right hand insert (TC*18R...) with the right hand blade (STCAR...). Use the left hand insert (TC*18L...) with the left hand blade (STCAL...).

*Torque: Recommended clamping torque (N·m)

SPARE PARTS

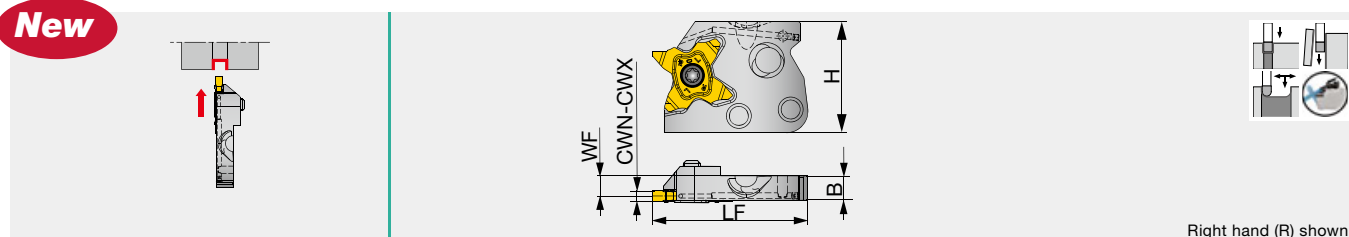
Designation	Clamping screw	Wrench
STCAL18-CHP	CSTC-4L100DR	T-1008/5
STCAR18-CHP	CSTC-4L100DL	T-1008/5

STCAR/L27-CHP

TETRAFCUT

Modular-type external grooving and parting blade, with high pressure coolant capability

New



Designation	CWN	CWX	WF	H	LF	B	Insert	Torque*
STCAR/L27-CHP	0.5	3.18	6	33	46	7.2	TC*27...	2.5

*Torque: Recommended clamping torque (N·m)

SPARE PARTS

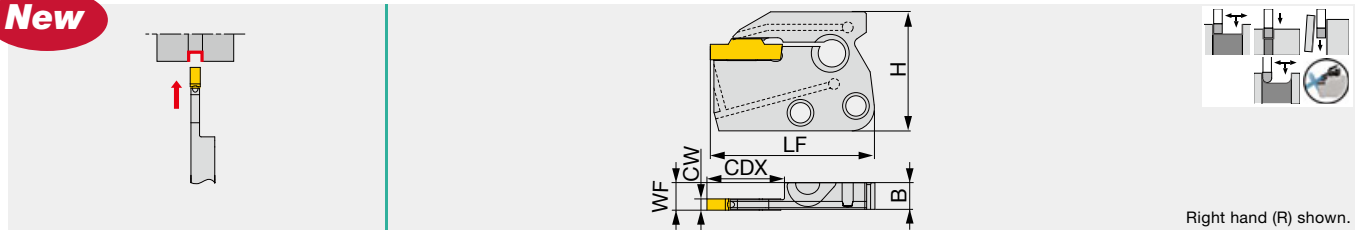
Designation	Screw	Wrench
STCAR27-CHP	SR16-212-01397L	T-2010/5
STCAL27-CHP	SR16-212-01397	T-2010/5

CAER/L-CHP

TUNGCUT

Modular-type external grooving and parting blade, with high pressure coolant capability

New



Designation	CW	Seat size	CDX	H	B	LF	WF ⁽¹⁾
CAER/L-2T16-CHP	2	2	16	33	7.2	41.5	7.3
CAER/L-2T20-CHP	2	2	20	33	7.2	45.5	7.3
CAER/L-3T16-CHP	3	3	16	33	7.2	41.5	7.4
CAER/L-3T20-CHP	3	3	20	33	7.2	45.5	7.5
CAER/L-4T16-CHP	4	4	16	33	7.2	41.5	7.7
CAER/L-4T20-CHP	4	4	20	33	7.2	45.5	7.7
CAER/L-5T20-CHP	5	5	20	33	7.2	46.3	7.8
CAER/L-6T20-CHP	6	6	20	33	7.2	46.3	7.8

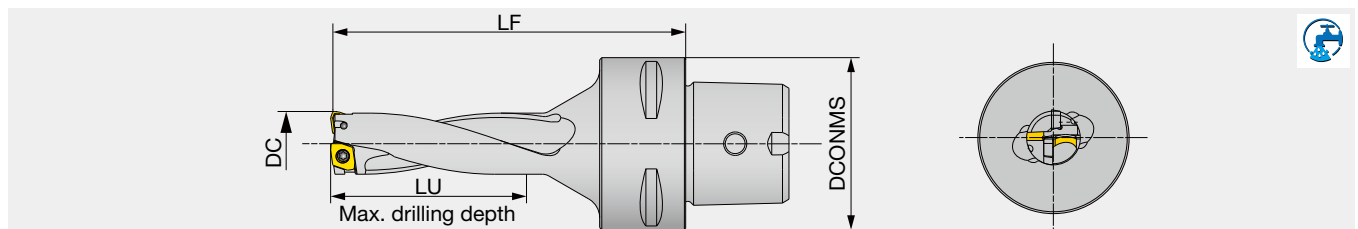
When groove depth is larger than (insert length - 1.5 mm), please use 1-cornered insert

(1) "WF" value is calculated with groove width "CW" shown in the table.

C-TDX

TUNGDRILLTWISTED

Indexable drill L/D=3



Designation	DC	DCONMS	LF	LU	Max. offset (radial)	Insert
C4TDX150L082-3	15	40	82	45.5	0.9	XPMT050204R-D*
C4TDX200L101-3	20	40	101	60.5	0.5	XPMT06X308R-D*
C4TDX250L125-3	25	40	125	75.6	0.4	XPMT07H308R-D*
C4TDX300L139-3	30	40	139	90.7	0.7	XPMT08T308R-D*
C6TDX200L101-3	20	63	101	60.5	0.5	XPMT06X308R-D*
C6TDX250L121-3	25	63	121	75.6	0.4	XPMT07H308R-D*
C6TDX300L139-3	30	63	139	90.7	0.7	XPMT08T308R-D*
C6TDX350L159-3	35	63	159	106.1	1.8	XPMT110412R-D*
C6TDX400L177-3	40	63	177	121.1	0.5	XPMT110412R-D*

Applicable for 7 MPa coolant

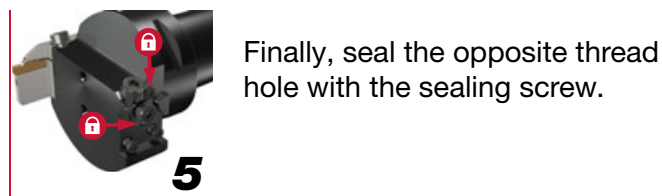
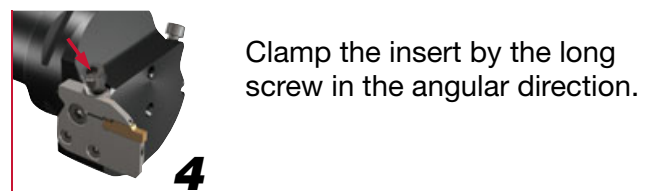
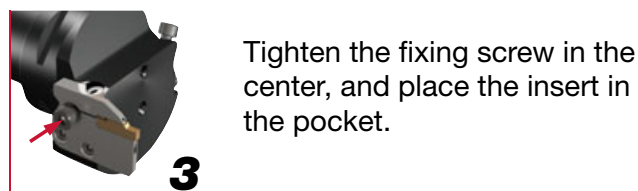
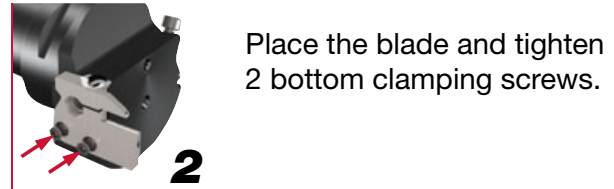
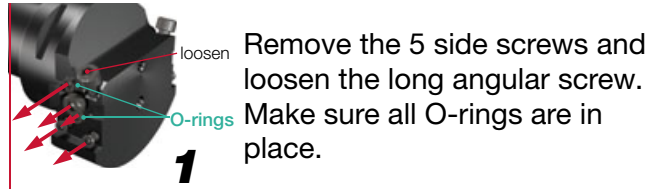
SPARE PARTS

Designation	Clamping screw	Wrench
C4TDX150L082-3	CSTB-2L040	T-6D
C4TDX200L101-3	CSTB-2.2R	T-7D
C4TDX250L125-3	CSTB-2.5	T-8D
C4TDX300L139-3	CSTB-3	T-9D
C6TDX200L101-3	CSTB-2.2R	T-7D
C6TDX250L121-3	CSTB-2.5	T-8D
C6TDX300L139-3	CSTB-3	T-9D
C6TDX350L159-3	CSTB-4	T-15D
C6TDX400L177-3	CSTB-4	T-15D

HOW TO INSTALL AND REMOVE THE BLADE AND INSERT

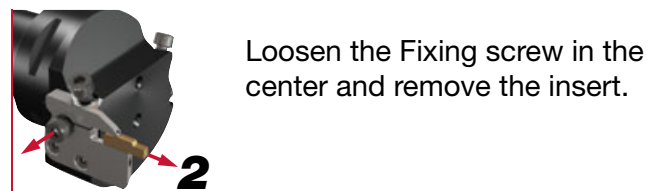
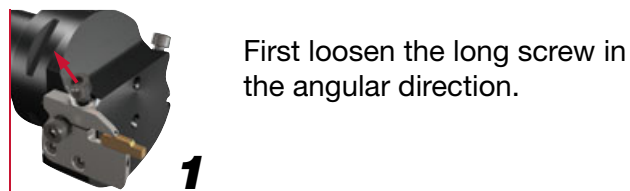
TUNGMS^{MODULAR}SYSTEM

Assembly

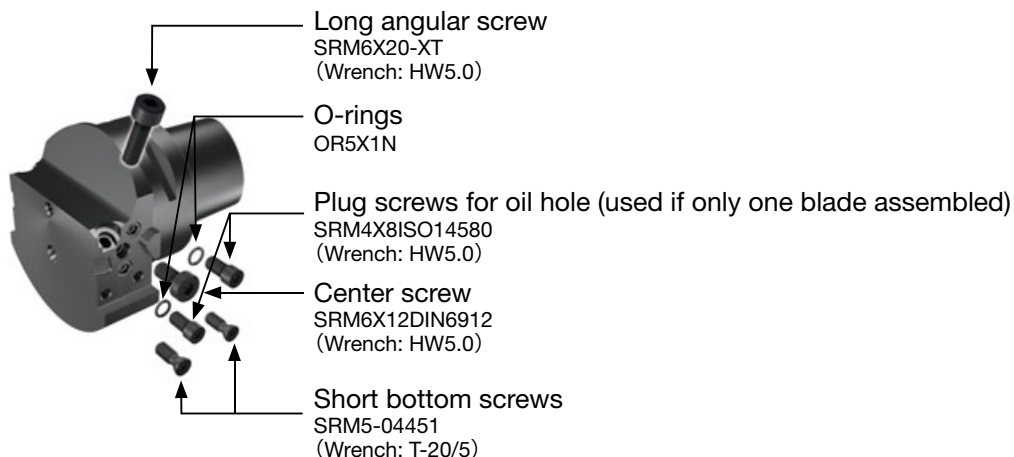


Please follow the installation order as shown above. When the screws are tightened in the **4** → **3** order, the insert clamping may be insufficient and unstable.

Insert replacement



Loosing the long screw alone may not release the insert.
Insert replacement in accordance with instructions **3**, **4** (see above).

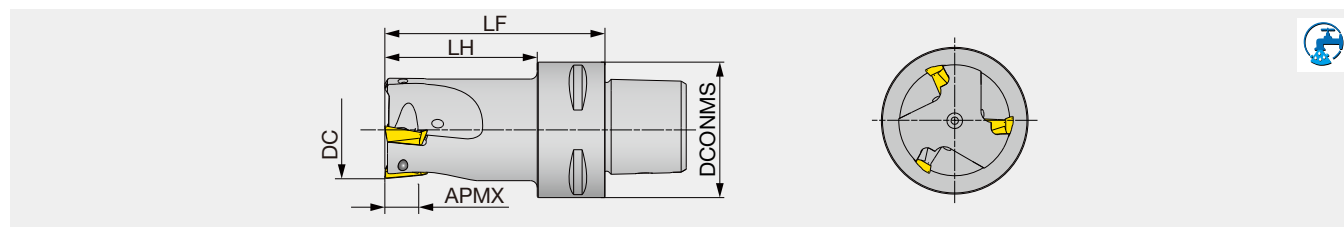


All parts listed here are included in the tool holder.

C-EPA

TUNG-TRI

Square shoulder milling



Designation	DC	APMX	DCONMS	CICT	LF	LH	Air hole	Insert
C4EPA10M032R03L065	32	10	40	3	65	45	with	TOMT1004...
C4EPA10M035R03L065	35	10	40	3	65	45	with	TOMT1004...
C6EPA15M040R03L080	40	15	63	3	80	58	with	TOMT1506...
C6EPA15M050R04L080	50	15	63	4	80	58	with	TOMT1506...

Applicable for 7 MPa coolant

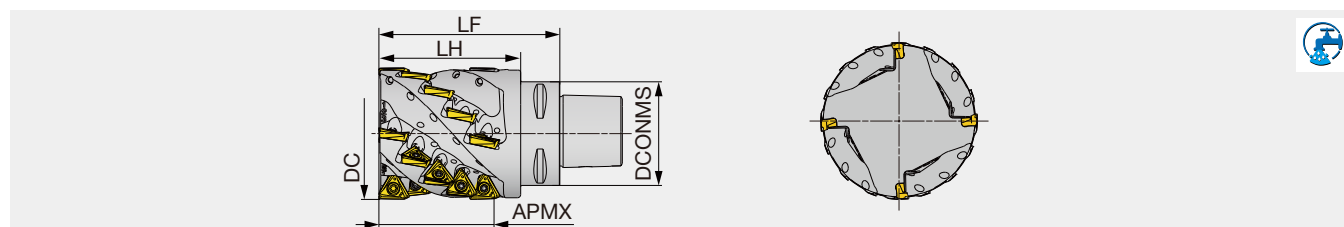
SPARE PARTS

Designation	Clamping screw	Torx bit Grip	Grip
C4EPA10M0**R03L065	SR14-562/S	BLDT10/S7	SW6-SD
C6EPA15M0**R0*L080	TS45120I	BT20S	H-TB2W

C-TLA

TUNG-TRI

Square shoulder milling (for large depth of cut)



Designation	DC	APMX	DCONMS	ZEFP	CICT	LF	LH	Air hole	Insert
C6TLA15M063R03L100	63	55	63	12	3	100	78	with	TOMT1506...
C6TLA15M080R04L110	80	70	63	20	4	110	86.2	with	TOMT1506...

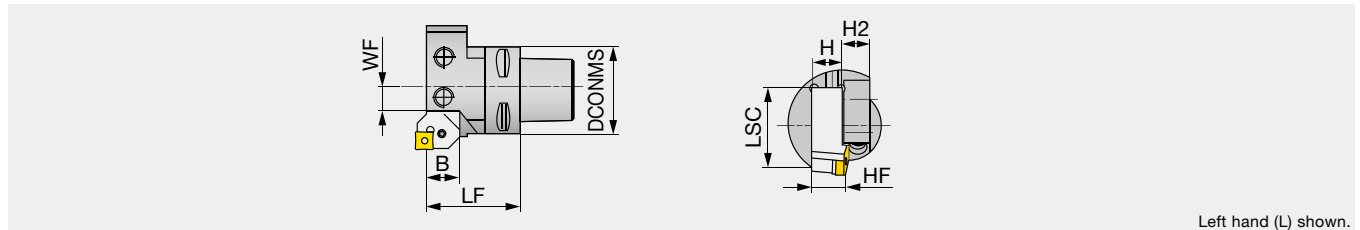
Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamping screw	Torx bit Grip	Grip
C6TLA15M0**R0*L1**	TS45120I	BT20S	H-TB2W

C-ADER/L

Adapter for square shank toolholders

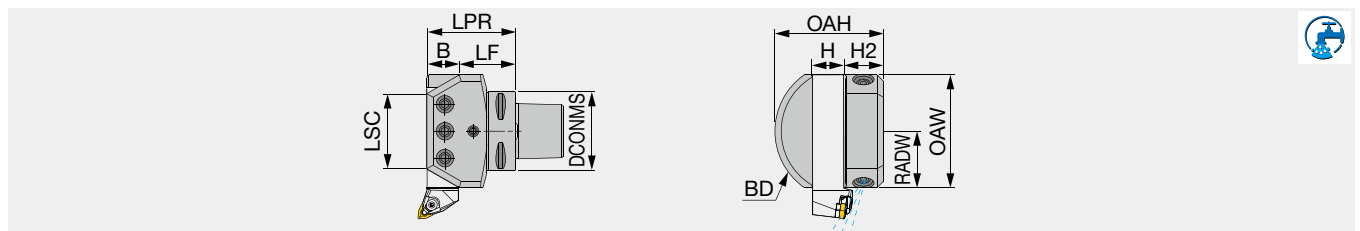


Designation	DCONMS	WF	LF	B	HF	H2	H	LSC
C3ADE-16R/L	32	17	45	16	16	26	16	45
C4ADE-20R/L	40	8	49.2	20	20	26	20	57
C5ADE-20R/L	50	8	55.2	20	20	20	20	57

Regular shank should be shortened.
Applicable for 7 MPa coolant

C-ASHA

Adapter for square shank toolholders

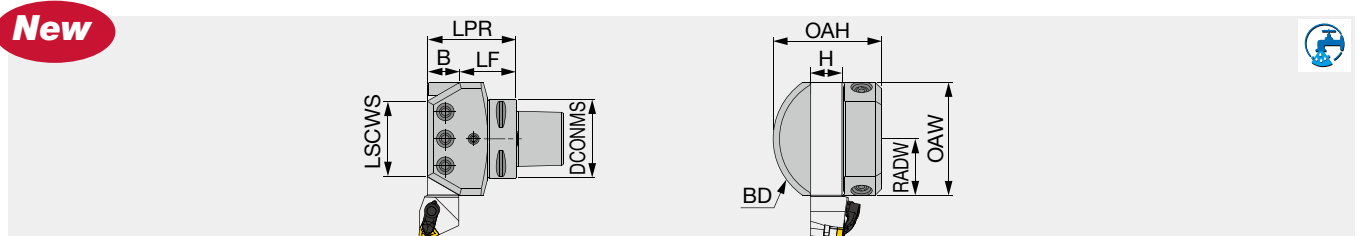


Designation	DCONMS	H	B	LPR	LSC	LF	RADW	OAW	H2	OAH	BD
C5ASHA20	50	20	20	58	46	38	38	76	31.5	76.5	90
C6ASHA20	63	20	20	60	46	40	38	76	31.5	76.5	90
C6ASHA25	63	25	25	71	61	46	45	90	31.6	86.5	110

Applicable for 7 MPa coolant

C-ASHA-HPMC

PSC adapter for square shank tool holder, with hose-free direct coolant supply

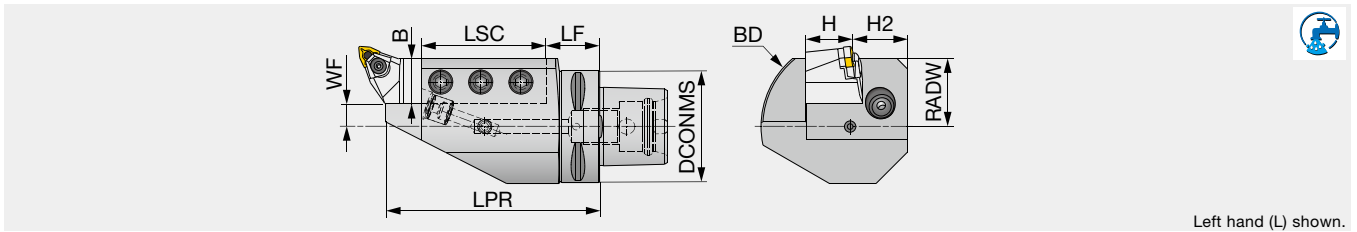


Designation	DCONMS	H	B	LPR	LSCWS	LF	RADW	OAW	OAH	BD
C6ASHA25-HPMC	63	25	25	71	61	46	45	90	86.6	110

Applicable for 7 MPa coolant

C-ASHR/L

Adapter for square shank toolholders



Left hand (L) shown.

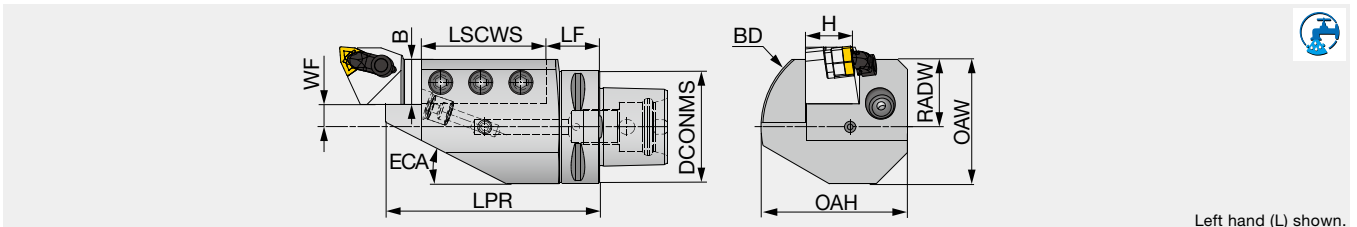
Designation	DCONMS	LPR	LSC	LF	WF	H	B	H2	RADW	BD
C4ASHR/L161	40	104	70	34	7	16	16	20	23	60
C5ASHR/L201	50	98	63.5	24.5	10	20	20	33	30	90
C6ASHR/L20-1	63	100	63.5	26.5	10	20	20	33	30	90
C6ASHL251	63	120	70	30	13	25	25	32	38	100
C8ASHR/L32-1	80	140	90	40	8	32	32	32	40	110

Regular shank should be shortened.
Applicable for 7 MPa coolant

C-ASHR/L-HPMC

TUNG T^{URN}JET

PSC adapter for square shank tool holder, with hose-free direct coolant supply



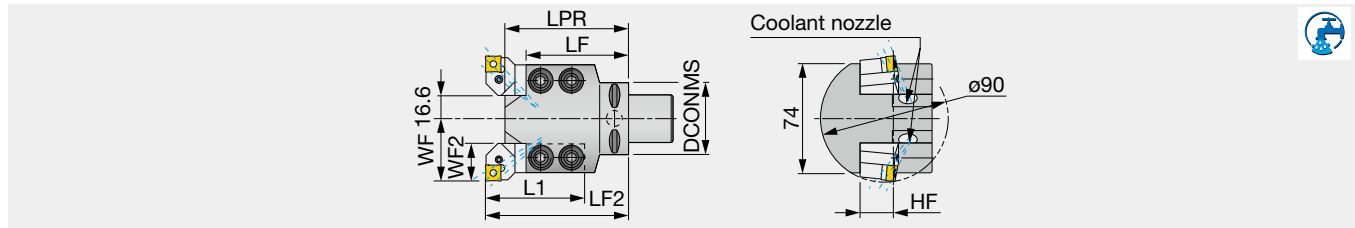
Left hand (L) shown.

Designation	DCONMS	LPR	LSCWS	LF	WF	H	B	OAH	RADW	OAW	BD	ECA
New C6ASHR/L251-J-HPMC*	63	120	82	38	4.5	25	25	76.5	29.5	61	90	4.1
C6ASHL251-HPMC	63	120	70	30	13	25	25	82	38	70	100	27

* Recommended for Mazak INTEGREX! No interference problem on machine magazine.
Applicable for 7 MPa coolant

C-ADES

Adapter for square shank toolholders

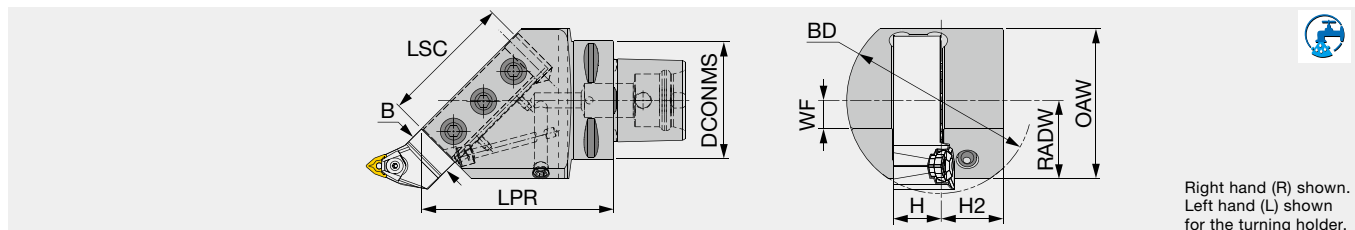


Designation	DCONMS	WF	LF2	LPR	LF	HF	WF2	L1
C4ADES-20	40	41.6	98	85	71	20	25	67
C5ADES-20	50	41.6	98	85	71	20	25	67

Regular shank should be shortened.
Applicable for 7 MPa coolant

C-ASHR/L-45

Adapter for square shank toolholders (with 45° slanted)



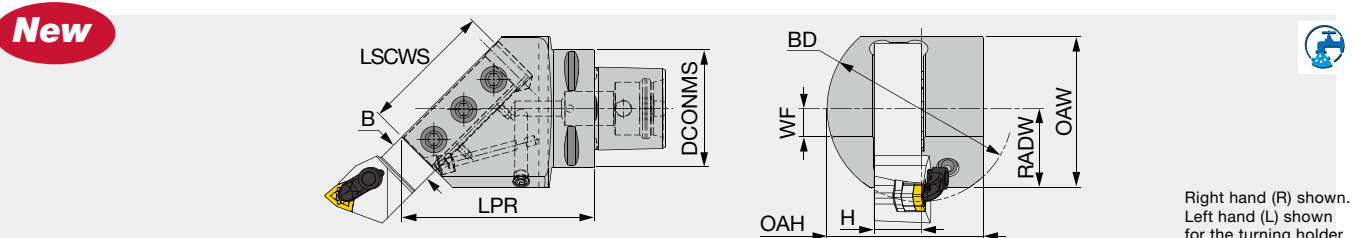
Right hand (R) shown.
Left hand (L) shown
for the turning holder.

Designation	DCONMS	H	B	LSC	LPR	H2	RADW	OAW	WF	BD
C5ASHR/L20-45	50	20	20	-	96.3	26	36	67.5	15	72
C6ASHR/L20-45	63	20	20	70	98.3	26	36	67.5	15	72
C6ASHR/L25-45	63	25	25	70	101.3	33	41.6	79.6	15	100

Regular shank should be shortened.
Applicable for 7 MPa coolant

C-ASHR/L-45-HPMC

PSC adapter for square shank tool holder, with hose-free direct coolant supply



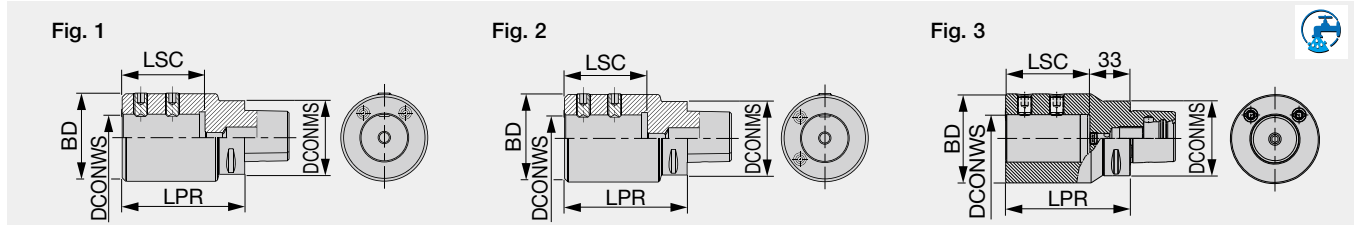
Right hand (R) shown.
Left hand (L) shown
for the turning holder.

Designation	DCONMS	H	B	LSCWS	LPR	OAH	RADW	OAW	WF	BD
C6ASHR/L25-45-HPMC	63	25	25	70	102	83	41.6	79.6	15	100

Applicable for 7 MPa coolant

C-ABB

Adapter for boring bars



Designation	DCONMS	DCONWS	BD	LPR	LSC	Fig.
C4ABB-25-60	40	25	63	100	60	2
C5ABB-25-60	50	25	63	100	60	2
C6ABB-25-60C*	63	25	63	95	60	1
C6ABB-40-70C*	63	40	75	105	71	3
C8ABB25-60	80	25	63	100	60	2
C8ABB40-72	80	40	75	105	71	2

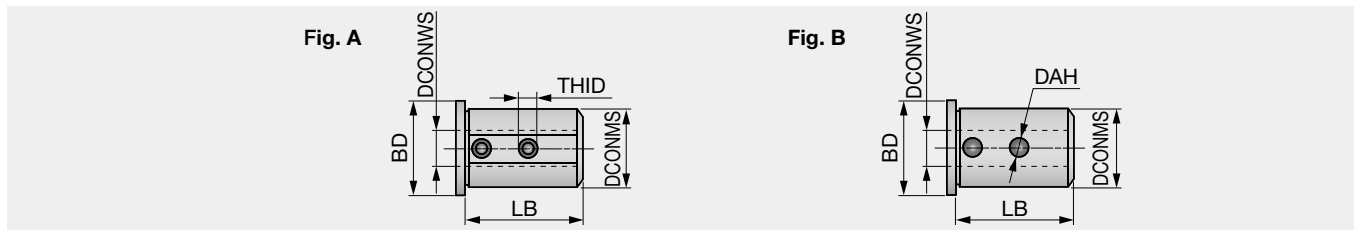
* Use the appropriate outlet screw according to the tool setup.
Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamp screw		Coolant outlet screw for internal supply	Coolant outlet screw for external supply
	Used on A-type sleeves	Used on B-type sleeves		
C...ABB-25-60/C	SRM10X20DIN915	SRM10X12DIN1835-B	SRM10X6DIN913	SRM6X8DIN913
C6ABB-40-70/C	SRM12X20DIN915	SRM12X16DIN1835-B	SRM10X6DIN913	SRM6X8DIN913
C8ABB25-60	SRM10X20DIN915	SRM10X12DIN1835-B	SRM10X6DIN913	-
C8ABB40-72	SRM12X20DIN915	SRM12X16DIN1835-B	SRM10X6DIN913	-

SC

Sleeve for C-ABB adapter

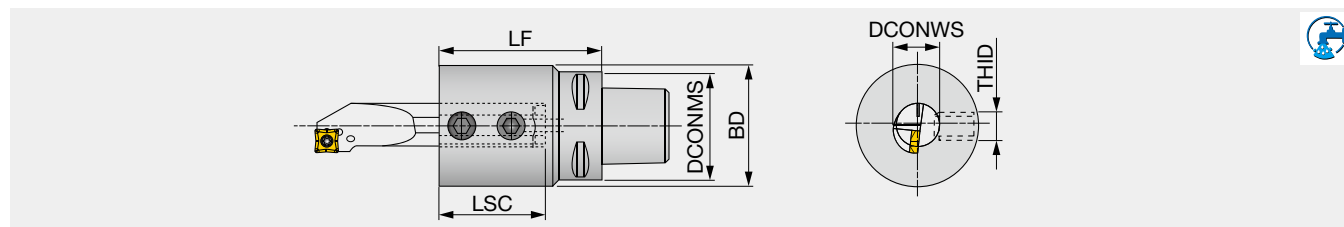


Designation	DCONMS	DCONWS	BD	LB	THID	DAH	Fig.
SC25T6A*	25	6	31	56	M6	-	A
SC25T8A*	25	8	31	56	M8	-	A
SC25T10A*	25	10	31	56	M8	-	A
SC25T12A*	25	12	31	56	M8	-	A
SC25T16B	25	16	31	56	-	12	B
SC25T20B	25	20	31	56	-	12	B
SC40T6A*	40	6	46	58	M6	-	A
SC40T8A*	40	8	46	58	M6	-	A
SC40T10A*	40	10	46	58	M8	-	A
SC40T12A*	40	12	46	58	M8	-	A
SC40T16B	40	16	46	58	-	15	B
SC40T20B	40	20	46	58	-	15	B
SC40T25B	40	25	46	58	-	15	B
SC40T32B	40	32	46	58	-	15	B

*: For machining on standard CNC lathes, always use CxADI holder.
Do not use with CxABB holder due to tool orientation reason.

C-ADI

Adapter for boring bars

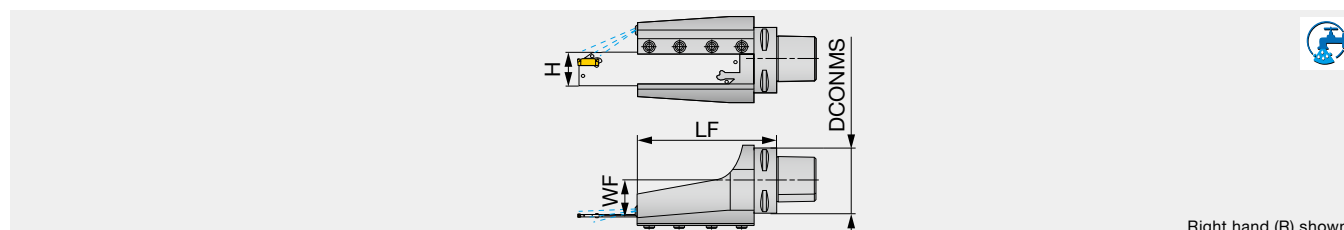


Designation	DCONMS	LF	LSC	DCONWS	BD	THID
C3ADI10	32	50	20	10	36	M6
C3ADI12	32	50	21.5	12	36	M8
C3ADI16	32	50	29.5	16	36	M8
C4ADI10	40	50	20	10	36	M6
C4ADI12	40	50	24	12	36	M8
C4ADI16	40	50	32	16	36	M8
C4ADI20	40	60	35	20	36	M10
C4ADI25	40	70	45	25	54	M12
C5ADI10	50	60	26	10	36	M6
C5ADI12	50	60	26	12	36	M8
C5ADI16	50	60	32	16	36	M8
C5ADI20	50	60	40	20	36	M10
C5ADI25	50	70	50	25	54	M12
C5ADI32	50	100	76	32	68	M12
C6ADI12	63	65	36	12	36	M8
C6ADI16	63	65	36	16	36	M8
C6ADI20	63	65	40	20	36	M10
C6ADI25	63	76	51	25	54	M12
C6ADI32	63	100	76	32	68	M12
C6ADI40	63	100	76	40	98	M12
C6ADI50	63	115	86	50	98	M12
C8ADI12	80	70	36	12	36	M8
C8ADI16	80	70	36	16	36	M8
C8ADI20	80	70	40	20	36	M10
C8ADI25	80	80	51	25	54	M12
C8ADI32	80	110	86	32	68	M12
C8ADI40	80	115	86	40	98	M12
C8ADI50	80	115	86	50	98	M12

Applicable for 7 MPa coolant

C-TBK-R/L

Adapter for parting blades



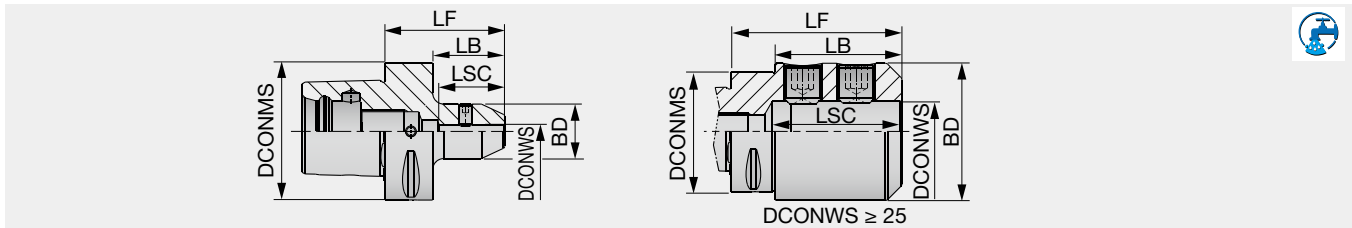
Right hand (R) shown.

Designation	DCONMS	WF	LF	H
C6TBK-32R/L	63	32	138	32

Applicable for 3 MPa coolant

C-EM

Side-lock holder for weldon endmills (DIN1835 Form B)

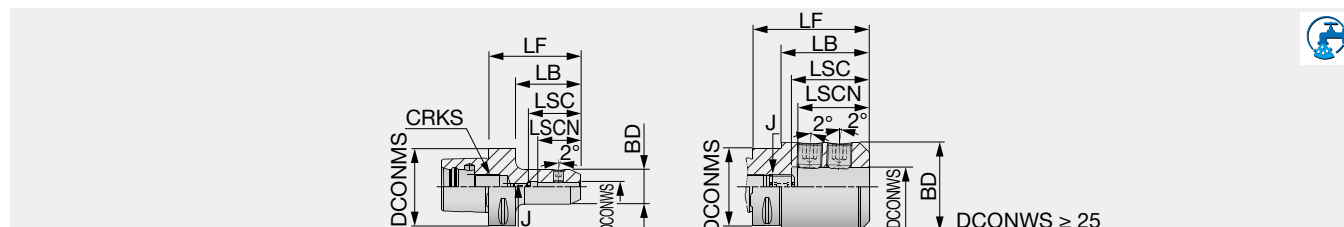


Designation	DCONMS	DCONWS	BD	LF	LB	LSC	Designation	DCONMS	DCONWS	BD	LF	LB	LSC
C3EM6X45	32	6	25	45	30	29	C6EM10X60	63	10	35	60	38	39
C3EM8X45	32	8	28	45	25	35	C6EM12X60	63	12	42	60	38	43
C3EM10X50	32	10	35	50	30	39	C6EM14X60	63	14	44	60	38	43
C3EM12X55	32	12	42	55	35	43	C6EM16X65	63	16	48	65	43	47
C4EM06X50	40	6	25	50	30	29	C6EM18X65	63	18	50	65	43	47
C4EM08X50	40	8	28	50	30	35	C6EM20X65	63	20	52	65	43	49
C4EM10X50	40	10	35	50	30	39	C6EM25X80	63	25	65	80	58	68
C4EM12X55	40	12	42	55	35	43	C6EM32X90	63	32	72	90	68	68
C4EM14X55	40	14	44	55	35	43	C6EM40X100	63	40	90	100	78	78
C4EM16X60	40	16	48	60	40	47	C8EM06X70	80	6	25	70	40	30
C5EM06X50	50	6	25	50	30	29	C8EM08X70	80	8	28	70	40	35
C5EM08X50	50	8	28	50	30	35	C8EM10X70	80	10	35	70	40	39
C5EM10X55	50	10	35	55	35	39	C8EM12X70	80	12	42	70	40	43
C5EM12X60	50	12	42	60	40	43	C8EM14X70	80	14	44	70	40	43
C5EM14X60	50	14	44	60	40	43	C8EM16X70	80	16	48	70	40	47
C5EM16X60	50	16	48	60	40	47	C8EM18X70	80	18	50	70	40	47
C5EM18X60	50	18	50	60	40	47	C8EM20X70	80	20	52	70	40	49
C5EM20X60	50	20	52	60	40	49	C8EM25X90	80	25	65	90	60	68
C5EM25X85	50	25	65	85	65	64	C8EM32X95	80	32	72	95	65	68
C6EM6X55	63	6	25	55	33	29	C8EM40X110	80	40	90	110	80	68
C6EM8X55	63	8	28	55	33	35	C8EM50X120	80	50	98	120	90	90

Applicable for 7 MPa coolant

C-EM-E

Side-lock holder for drills (DIN1835 Form E whistle notch)

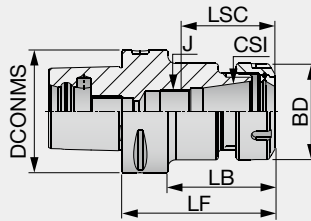


Designation	DCONMS	DCONWS	BD	LF	LSCN	LSC	LB	J	CRKS
C3EM06X70E	32	6	25	70	30	35	50	5	M14
C3EM12X75E	32	12	42	75	44	49	55	10	M14
C4EM06X70E	40	6	25	70	30	35	50	M5	M14
C4EM08X70E	40	8	28	70	35	43	50	M6	M14
C4EM10X70E	40	10	35	70	39	45	50	M8	M14
C4EM12X75E	40	12	42	75	44	49	55	M10	M14
C4EM14X75E	40	14	44	75	44	49	55	M10	M14
C5EM10X70E	50	10	35	70	39	45	50	M8	M16
C5EM12X75E	50	12	42	75	44	49	55	M10	M16
C5EM14X75E	50	14	44	75	44	49	55	M10	M16
C5EM16X80E	50	16	48	80	47	52	60	M12	M16
C5EM18X80E	50	18	50	80	47	52	60	M12	M16
C5EM20X85E	50	20	52	85	49	55	65	M16	M16
C6EM06X75E	63	6	25	75	30	36	53	M5	M20
C6EM08X75E	63	8	28	75	35	43	53	M6	M20
C6EM10X75E	63	10	35	75	39	46	53	M8	M20
C6EM12X80E	63	12	42	80	44	49	58	M10	M20
C6EM14X80E	63	14	44	80	44	49	58	M10	M20
C6EM16X85E	63	16	48	85	47	52	63	M12	M20
C6EM18X85E	63	18	50	85	47	52	63	M12	M20
C6EM20X85E	63	20	52	85	49	55	63	M16	M20
C6EM25X90E	63	25	65	90	54	60	68	M20	M20
C6EM32X95E	63	32	72	95	58	63	73	M20	M20
C8EM08X65E	80	8	28	65	35	43	35	M6	M20
C8EM10X65E	80	10	35	65	39	46	35	M8	M20
C8EM12X70E	80	12	42	70	44	49	40	M10	M20
C8EM14X70E	80	14	44	70	44	49	40	M10	M20
C8EM16X75E	80	16	48	75	47	52	45	M12	M20
C8EM18X75E	80	18	50	75	47	52	45	M12	M20
C8EM20X80E	80	20	52	80	49	57	50	M16	M20
C8EM25X90E	80	25	65	90	54	60	60	M20	M20
C8EM32X95E	80	32	72	95	58	64	65	M20	M20

Applicable for 7 MPa coolant

C-ER

ER collet chuck holder (DIN6499)



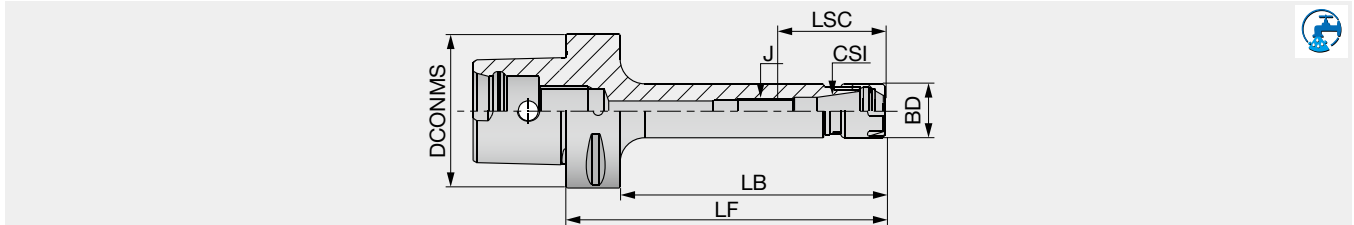
Designation	Range min	Range Max.	DCONMS	CSI	BD	LF	LB	J	LSC	Designation	Range min	Range Max.	DCONMS	CSI	BD	LF	LB	J	LSC
C3ER16X45	1	10	32	ER16	28	45	25	-	39	C6ER20X100	1	13	63	ER20	34	100	78	M12	52.5
C3ER20X45	1	13	32	ER20	34	45	30	-	39.8	C6ER20X130	1	13	63	ER20	34	130	108	M12	52.5
C4ER16X70	1	10	40	ER16	28	70	50	M10	41.6	C6ER20X160	1	13	63	ER20	34	160	138	M12	52.5
C4ER20X35*	1	13	40	ER20	34	35	27	-	39.8	C6ER25X060	1	16	63	ER25	42	60	38	-	40.4
C4ER20X52	1	13	40	ER20	34	52	32	-	39.1	C6ER25X100	1	16	63	ER25	42	100	78	M16	65
C4ER25X38*	1	16	40	ER25	42	38	30	-	43.3	C6ER25X130	1	16	63	ER25	42	130	108	M16	73
C4ER25X52	1	16	40	ER25	42	52	32	-	40.8	C6ER25X160	1	16	63	ER25	42	160	138	M16	73
C4ER32X54	2	20	40	ER32	50	54	34	-	46.7	C6ER32X060	2	20	63	ER32	50	60	36	-	47.8
C5ER16X100	1	10	50	ER16	28	100	80	M10	61.6	C6ER32X100	2	20	63	ER32	50	100	78	M22X1.5	59.4
C5ER16X130	1	10	50	ER16	28	130	110	M10	71.6	C6ER32X130	2	20	63	ER32	50	130	108	M22X1.5	69.4
C5ER20X055	1	13	50	ER20	34	55	35	-	39.3	C6ER32X160	2	20	63	ER32	50	160	138	M22X1.5	69.4
C5ER20X100	1	13	50	ER20	34	100	80	M12	52.5	C6ER40X065	3	26	63	ER40	63	65	37	-	55
C5ER20X130	1	13	50	ER20	34	130	110	M12	52.5	C6ER40X100	3	26	63	ER40	63	100	78	M28X1.5	60
C5ER25X055	1	16	50	ER25	42	55	35	-	40.5	C6ER40X130	3	26	63	ER40	63	130	108	M28X1.5	70
C5ER25X100	1	16	50	ER25	42	100	80	M16	65	C8ER32X70	2	20	80	ER32	50	70	40	-	47.8
C5ER32X057	2	20	50	ER32	50	57	36	-	47.2	C8ER32X100	2	20	80	ER32	50	100	70	M22x1.5	60.4
C5ER32X100	2	20	50	ER32	50	100	36	M22X1.5	59.4	C8ER32X160	2	20	80	ER32	50	160	130	M22x1.5	65.4
C6ER16X100	1	10	63	ER16	28	100	78	M10	61.6	C8ER40X70	3	26	80	ER40	63	70	40	-	54.8
C6ER16X130	1	10	63	ER16	28	130	108	M10	71.6	C8ER40X100	3	26	80	ER40	63	100	70	M28x1.5	60
C6ER16X160	1	10	63	ER16	28	160	138	M10	71.6	C8ER40X160	3	26	80	ER40	63	160	130	M28x1.5	71
C6ER20X060	1	13	63	ER20	34	60	38	-	39.5										

* Without V grooves, for manual use only.
Applicable for 7 MPa coolant

Option: Wrench for ER collet

C-ER-M

ER Mini collet chuck holder (DIN6499)



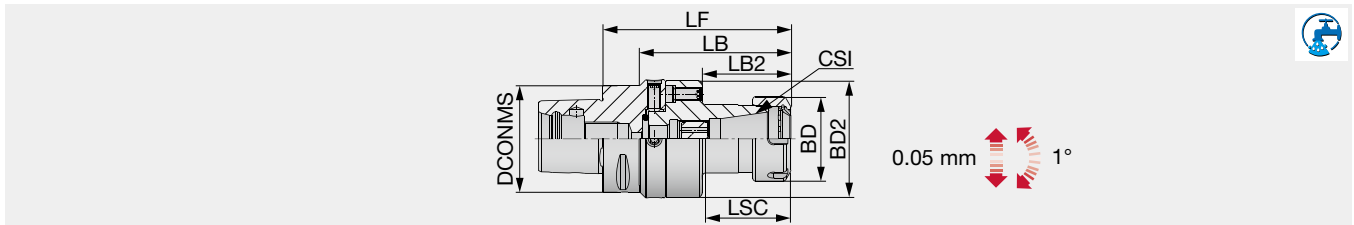
Designation	Range min	Range max	DCONMS	CSI	BD	LF	LB	J	LSC
C4ER16X70M	0.5	10	40	ER16	22	70	50	M10	41
C5ER16X100M	0.5	10	50	ER16	22	100	80	M10	46
C5ER16X130M	0.5	10	50	ER16	22	130	110	M10	46
C6ER16X100M	0.5	10	63	ER16	22	100	78	M10	46
C6ER16X130M	0.5	10	63	ER16	22	130	108	M10	46
C6ER16X160M	0.5	10	63	ER16	22	160	138	M10	46

Applicable for 7 MPa coolant

Option: Wrench for ER collet

ADJ C-ER

ER collet chuck with center alignment

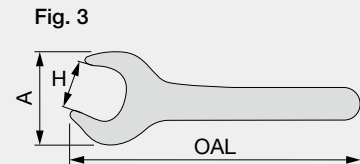
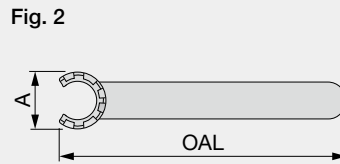
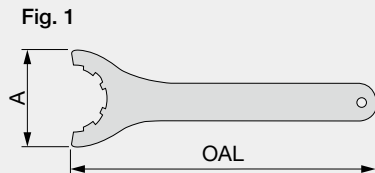


Designation	DCONMS	CSI	Range min	Range max	BD2	BD	LF	LB	LB2	LSC
ADJC5ER32	50	ER32	2	20	70	50	115	95	52.5	57
ADJC6ER32	63	ER32	2	20	70	50	111.5	89.5	52.5	57

Applicable for 7 MPa coolant

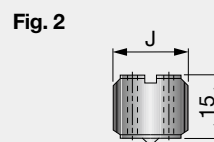
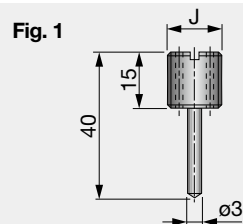
Option: Wrench for ER collet

WRENCH-ER / ER DIN 6499



Designation	A	H	OAL	Fig.
WRENCHER11MINI	16.8	-	95	2
WRENCHER11	32	17	95	3
WRENCHER16MINI	22.5	-	117	2
WRENCHER16	42.8	25	143	3
WRENCHER20MINI	28	-	128	2
WRENCHER20	53.5	30	172	3
WRENCHER25MINI	29	-	120	2
WRENCHER25	70	-	207	1
WRENCHER32	78	-	255	1
WRENCHER40	95	-	285	1
WRENCHER50	110	-	350	1
WRENCHER20SHORTRING22	48	22	260	3
WRENCHER32SHORT	75	36	303	3
WRENCHER40SHORT	94	46	378	3

PRESET ER-JET (Preset screw)



Designation	J	Fig.
PRESETER-JET8X1	M8X1.0	2
PRESETER-JET8X1.25	M8X1.25	2
PRESETER-JET10X1.5	M10X1.5	2
PRESETER-JET12X1	M12X1.0	2
PRESETER-JET12X1.75L	M12X1.75	1
PRESETER-JET12X1.75	M12X1.75	2
PRESETER-JET14X1	M14X1.0	2
PRESETER-JET16X2	M16X2	2
PRESETER-JET16X2L	M16X2	1
PRESETER-JET18X1	M18X1.0	2
PRESETER-JET18X1.5	M18X1.5	2
PRESETER-JET18X1.5L	M18X1.5	1
PRESETER-JET22X1.5	M22X1.5	2
PRESETER-JET22X1.5L	M22X1.5	1
PRESETER-JET28X1.5	M28X1.5	2

ER collet

ER 11		SPR		0.5 - 1		AA	
① Collet size		② Collet type		③ Diameter range (mm)		④ Additional feature	
ER11	11	SPR	Standard	0.5-1	0.5 - 1	AA	Ultra precision
ER16	16			1-2	1 - 2		
ER20	20	SEAL	Sealed type	⋮	⋮	JET2	External coolant
ER25	25						
ER32	32						
ER40	40						

ER□□SPR□-□AA

Range (mm)	Super precision class					
	ER11	ER16	ER20	ER25	ER32	ER40
0.5-1						
1-2	※					
2-3	※					
3-4	※					
4-5	※					
5-6	※					
6-7	※					
7-8						
8-9						
9-10						
10-11						
11-12						
12-13						
13-14						
14-15						
15-16						
16-17						
17-18						
18-19						
19-20						
20-21						
21-22						
22-23						
23-24						
24-25						
25-26						



ULTRA PRECISION AA

ER□□SPR□-□

Range (mm)	Super precision class					
	ER11	ER16	ER20	ER25	ER32	ER40
0.5-1						
1-2	※					
2-3	※					
3-4	※					
4-5	※					
5-6	※					
6-7	※					
7-8						
8-9						
9-10						
10-11						
11-12						
12-13						
13-14						
14-15						
15-16						
16-17						
17-18						
18-19						
19-20						
20-21						
21-22						
22-23						
23-24						
24-25						
25-26						



0.01

ER□□SEAL□-□ (10MPa)

Range (mm)	Sealed type for internal coolant supply				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4					
4-5					
5-6					
6-7					
7-8					
8-9					
9-10					
10-11					
11-12					
12-13					
13-14					
14-15					
15-16					
16-17					
17-18					
18-19					
19-20					
20-21					
21-22					
22-23					
23-24					
24-25					
25-26					



0.01

ER□□SEAL□-□JET2 (10MPa)

Range (mm)	Sealed type JET2 for external coolant supply				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4					
4-5					
5-6					
6-7					
7-8					
8-9					
9-10					
10-11					
11-12					
12-13					
13-14					
14-15					
15-16					
16-17					
17-18					
18-19					
19-20					
20-21					
21-22					
22-23					
23-24					
24-25					
25-26					



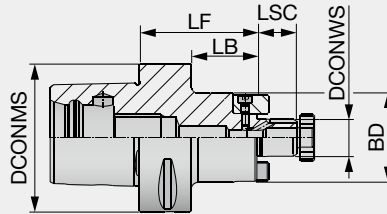
0.01

※ Collets with 0.5 mm clamping range

: Not available

C-SEM

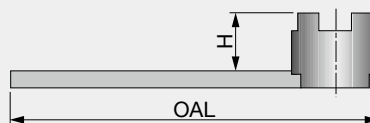
Shell mill holder with coolant nozzle



Designation	DCONMS	DCONWS	BD	LF	LSC	LB	Width of key	Height of key	Designation	DCONMS	DCONWS	BD	LF	LSC	LB	Width of key	Height of key
C4SEM16X32C	40	16	38	32	17	12	8	5	C6SEM27X100C	63	27	58	100	21	78	12	6.3
C4SEM16X55C	40	16	38	55	17	35	8	5	C6SEM31.75X60C	63	31.75	64	60	30	-	12.7	6
C4SEM22X40C	40	22	47	40	19	20	10	5.4	C6SEM32X60C	63	32	66	60	24	38	14	7
C4SEM22X55C	40	22	47	55	19	35	10	5.4	C6SEM38.1X60C	63	38.1	78	60	34	-	15.875	8
C5SEM16X35C	50	16	38	35	17	15	8	5	C6SEM40X60C	63	40	82	60	27	38	16	8
C5SEM16X70C	50	16	38	70	17	50	8	5	C8SEM16X50C	80	16	38	50	17	20	8	5
C5SEM22X35C	50	22	47	35	19	15	10	5.4	C8SEM16X100C	80	16	38	100	17	70	8	5
C5SEM22X70C	50	22	47	70	19	50	10	5.4	C8SEM22X50C	80	22	47	50	20	19	10	5.4
C5SEM25.4X37C	50	25.4	55	37	22	-	9.525	4.6	C8SEM22X100C	80	22	47	100	19	70	10	5.4
C5SEM27X40C	50	27	58	40	21	20	12	6.3	C8SEM25.4X50C	80	25.4	50	50	22	20	9.525	4.6
C5SEM31.75X60C	50	31.75	64	60	30	-	12.7	6	C8SEM27X50C	80	27	58	50	21	20	12	6.3
C5SEM32X40C	50	32	63	40	24	20	14	7	C8SEM27X100C	80	27	58	100	21	70	12	6.3
C6SEM16X50C	63	16	38	50	17	28	8	5	C8SEM31.75X50C	80	31.75	60	50	30	20	12.7	7
C6SEM16X100C	63	16	38	100	17	78	8	5	C8SEM32X50C	80	32	66	50	24	20	14	7
C6SEM22X50C	63	22	47	50	19	28	10	5.4	C8SEM32X100C	80	32	66	100	24	70	14	7
C6SEM22X100C	63	22	47	100	19	78	10	5.4	C8SEM38.1X50C	80	38.1	80	50	34	-	15.875	8
C6SEM25.4X37C	63	25.4	55	37	22	15	9.525	4.6	C8SEM40X60C	80	40	82	60	27	30	16	8
C6SEM27X60C	63	27	58	60	21	38	12	6.3									

Applicable for 7 MPa coolant

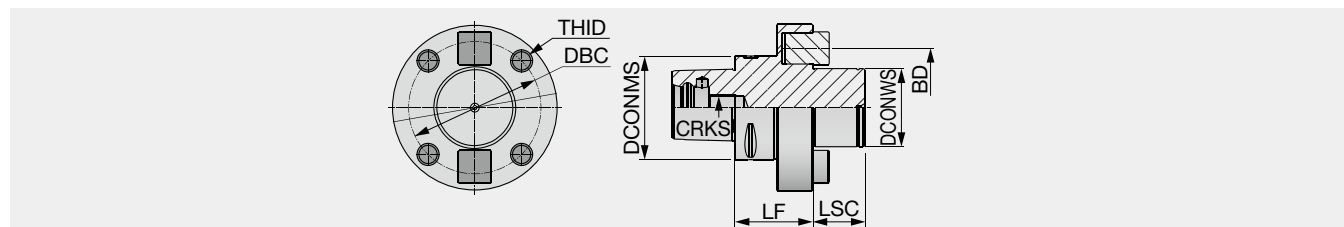
Option: Wrench for lock screw

WRENCH SEMC / DIN6368

Designation	Inner diameter of cutter body	Screw size	H	OAL
WRENCHM8SEMC16	16	M8	20	180
WRENCHM10SEMC22	22	M10	25	200
WRENCHM12SEMC27	25.4 / 27	M12	32	225
WRENCHM16SEMC32	31.75 / 32	M16	36	250
WRENCHM20SEMC40	38.1 / 40	M20	40	280
WRENCHM24SEMC50	50	M24	50	315

C-FM

Arbor for face mill

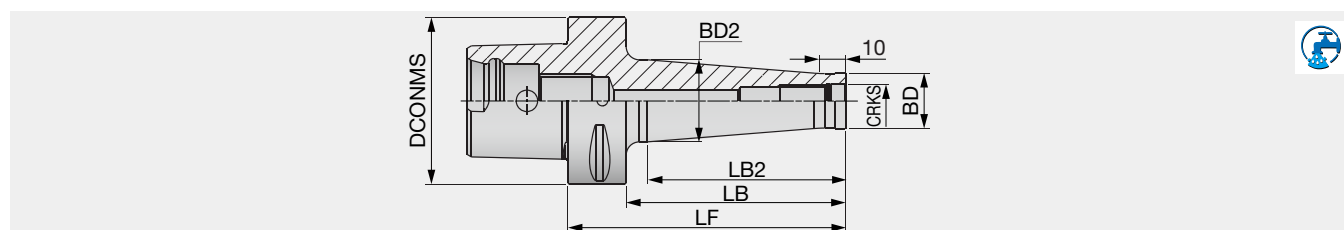


Designation	DCONMS	DCONWS	LSC	LF	BD	DBC	THID	CRKS	Width of key	Height of key
C8FM60X60	80	60	40	60	128	101.6	M16	M20	25.4	12.4

C-ODP

Screw-clamp holder for modular heads

TUNGFLEX

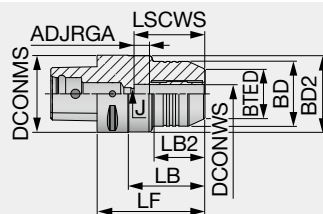


Designation	CRKS	DCONMS	BD	BD2	LF	LB	LB2
C4ODP10X53	M10	40	18	23	53	33	23
C4ODP12X53	M12	40	21	26	53	33	23
C4ODP16X53	M16	40	29	34	53	33	23
C5ODP10X53	M10	50	18	19.5	53	33	25
C5ODP10X103	M10	50	18	28	103	83	75
C5ODP12X53	M12	50	21	23.5	53	33	25
C5ODP12X103	M12	50	21	31	103	83	75
C5ODP16X53	M16	50	29	34	53	33	25
C5ODP16X103	M16	50	29	36	103	83	75
C6ODP10X55	M10	63	18	19.5	55	33	25
C6ODP10X105	M10	63	18	28	105	83	75
C6ODP10X130	M10	63	18	32	130	108	100
C6ODP12X55	M12	63	21	23.5	55	33	25
C6ODP12X105	M12	63	21	31	105	83	75
C6ODP12X130	M12	63	21	36	130	108	100
C6ODP16X55	M16	63	29	34	55	33	25
C6ODP16X105	M16	63	29	34	105	83	75
C6ODP16X130	M16	63	29	41	130	108	100

Applicable for 7 MPa coolant

C-HYDRO HD

Hydraulic chuck holder

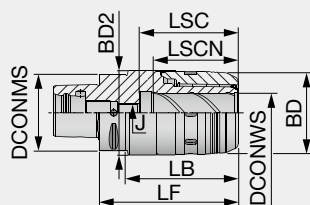


Designation	DCONMS	DCONWS	BTED	BD	BD2	LF	LB	LB2	ADJGA	LSCWS	J
C4HYDRO12X65HD	40	12	32	-	39.5	65	44	-	10	46	M8X1
C4HYDRO20X83HD	40	20	38	-	45.5	83	62.4	-	10	51	M8X1
C5HYDRO12X70HD	50	12	32	42	49.5	70	50	33	10	46	M8X1
C5HYDRO20X75HD	50	20	38	-	49.5	75	54	-	10	51	M8X1
C6HYDRO12X75HD	63	12	32	42	62.5	75	53	33	10	51	M8X1
C6HYDRO20X80HD	63	20	38	53	62.5	80	57.4	41	10	51	M8X1
C6HYDRO20X120HD	63	20	38	52.5	62.5	120	97.4	41	10	51	M8X1
C6HYDRO32X90HD	63	32	58.5	-	62.5	90	67	-	10	61	M8X1

C-TUNGMAX

Power chuck holder

TUNGMAX



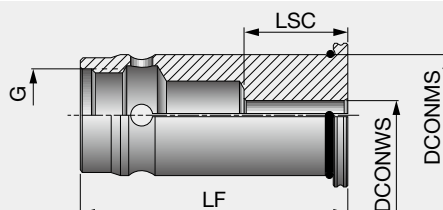
Designation	DCONMS	Range	DCONWS	BD	BD2	LF	LB	LSCN	LSC	J
C5MAXIN20X100	50	6-20	20	51	53	95.5	75	55	67	M16
C6MAXIN20X95	63	6-20	20	51	53	95	73	55	67	M16
C6MAXIN32X115	63	6-32	32	69	70	115	93	70	82	M16
C8MAXIN20X95	80	6-20	20	51	53	95	65	55	67	M16
C8MAXIN32X115	80	6-32	32	69	70	115	85	70	82	M16

Applicable for 7 MPa coolant

Option : Wrench for TungMax collet

SC-SEAL

SC sealed straight collet

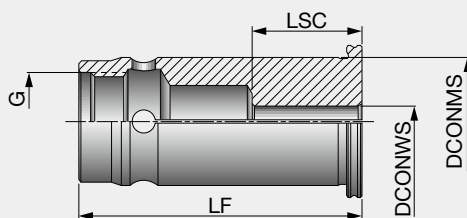


Designation	DCONWS	DCONMS	LF	LSC	G
SC20SEAL6	6	20	60	28	M16
SC20SEAL8	8	20	60	28	M16
SC20SEAL10	10	20	60	35	M16
SC20SEAL12	12	20	60	40	M16
SC20SEAL14	14	20	60	40	M16
SC20SEAL15	15	20	60	40	M16
SC20SEAL16	16	20	60	39	M16
SC32SEAL6	6	32	72	28	M24x1.5
SC32SEAL8	8	32	72	28	M24x1.5
SC32SEAL10	10	32	72	35	M24x1.5
SC32SEAL12	12	32	72	40	M24x1.5
SC32SEAL14	14	32	72	40	M24x1.5
SC32SEAL15	15	32	72	40	M24x1.5
SC32SEAL16	16	32	72	44	M24x1.5
SC32SEAL18	18	32	72	44	M24x1.5
SC32SEAL19	19	32	72	44	M24x1.5
SC32SEAL20	20	32	72	46	M24x1.5
SC32SEAL24	24	32	72	46	M24x1.5
SC32SEAL25	25	32	72	51	M24x1.5

Applicable for 7 MPa coolant

SC-SPR

SC straight collet



Designation	DCONWS	DCONMS	LF	LSC	G
SC20SPR6	6	20	60	28	M16
SC20SPR8	8	20	60	28	M16
SC20SPR10	10	20	60	35	M16
SC20SPR12	12	20	60	40	M16
SC20SPR14	14	20	60	40	M16
SC20SPR15	15	20	60	40	M16
SC20SPR16	16	20	60	39	M16
SC32SPR6	6	32	72	28	M24x1.5
SC32SPR8	8	32	72	28	M24x1.5
SC32SPR10	10	32	72	35	M24x1.5
SC32SPR12	12	32	72	40	M24x1.5
SC32SPR14	14	32	72	40	M24x1.5
SC32SPR15	15	32	72	40	M24x1.5
SC32SPR16	16	32	72	44	M24x1.5
SC32SPR18	18	32	72	44	M24x1.5
SC32SPR19	19	32	72	44	M24x1.5
SC32SPR20	20	32	72	46	M24x1.5
SC32SPR24	84	32	72	45	M24x1.5
SC32SPR25	25	32	72	51	M24x1.5

PRESET SC CAP

Preset screw for SC collets

Fig. 1

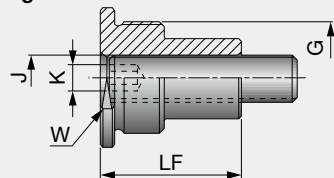
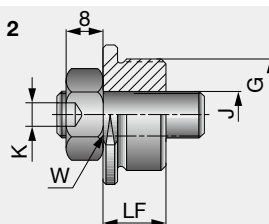
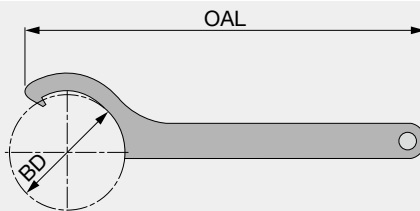


Fig. 2



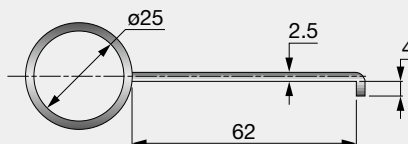
Designation	LF	W	J	G	Range	Key	Collet size	Fig.
PRESETSCCAP8X1.25L	28	16	M8x25	M16	6-8	4	SC20	1
PRESETSCCAP8X1.25	15	16	M8x25	M16	10-16	4	SC20	2
PRESETSCCAP10X1.5L	30	27	M10x30	M24x1.5	6-14	5	SC32	1
PRESETSCCAP10X1.5	13.5	27	M10x30	M24x1.5	16-25	5	SC32	2

Wrench



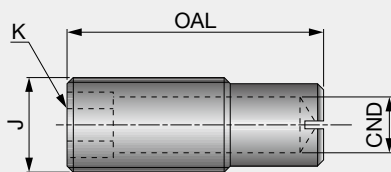
Designation	BD	OAL
WRENCHMAXIN20HOOK	26	205
WRENCHMAXIN32HOOK	68	240

SC collet extracting hook



Designation
EXTRACTORSCCOLLETS

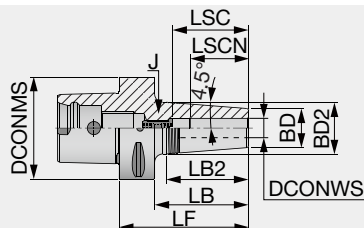
Preset screw



Designation	J	OAL	CND	K
PRESETMAXIN16X30	M16	30	8	8
PRESETMAXIN16X44	M16	44	8	8
PRESETMAXIN20X55	M20	55	12	12

C-SRKIN

Shrink holder

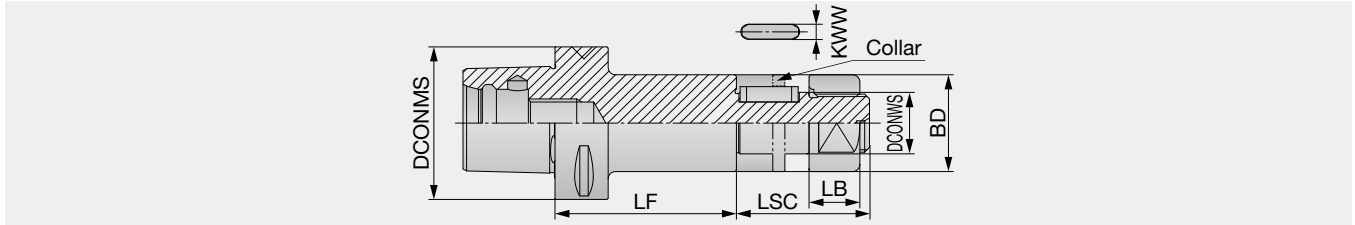


Designation	DCONMS	DCONWS	BD	BD2	LF	LB	LB2	LSCN	LSC	J
C4SRKIN6X75	40	6	21	27	75	55	38.1	25	36	M5
C4SRKIN8X75	40	8	21	27	75	55	38.1	25	36	M6
C4SRKIN10X75	40	10	24	32	75	55	50.8	31	42	M8
C4SRKIN12X75	40	12	24	32	75	55	50.8	36	47	M10
C4SRKIN14X80	40	14	27	34	80	60	44.5	36	47	M10
C4SRKIN16X80	40	16	27	34	80	60	44.5	39	50	M12
C4SRKIN18X80	40	18	33	42	80	60	57.2	39	50	M12
C4SRKIN20X85	40	20	33	42	85	65	57.2	41	52	M16
C5SRKIN6X75	50	6	21	27	75	55	38.1	25	36	M5
C5SRKIN8X75	50	8	21	27	75	55	38.1	25	36	M6
C5SRKIN10X75	50	10	24	32	75	55	51.3	31	42	M8
C5SRKIN12X75	50	12	24	32	75	55	51.3	36	47	M10
C5SRKIN14X80	50	14	27	34	80	60	44.5	36	47	M10
C5SRKIN16X80	50	16	27	34	80	60	44.5	39	50	M12
C5SRKIN18X80	50	18	33	42	80	60	57.2	39	50	M12
C5SRKIN20X85	50	20	33	42	85	65	57.2	41	52	M16
C5SRKIN25X90	50	25	44	53	90	70	57.2	47	58	M16
C6SRKIN6X80	63	6	21	27	80	58	38.1	25	36	M5
C6SRKIN8X80	63	8	21	27	80	58	38.1	25	36	M6
C6SRKIN10X80	63	10	24	32	80	58	50.8	31	42	M8
C6SRKIN12X80	63	12	24	32	80	58	50.8	36	47	M10
C6SRKIN14X85	63	14	27	34	85	63	44.5	36	47	M10
C6SRKIN16X85	63	16	27	34	85	63	44.5	39	50	M12
C6SRKIN18X85	63	18	33	42	85	63	57.2	39	50	M12
C6SRKIN20X85	63	20	33	42	85	63	57.2	41	52	M16
C6SRKIN25X90	63	25	44	53	90	68	57.2	47	58	M16
C6SRKIN32X95	63	32	44	53	95	73	57.2	47	58	M16

Applicable for 7 MPa coolant

C-SCA

Slot milling holder

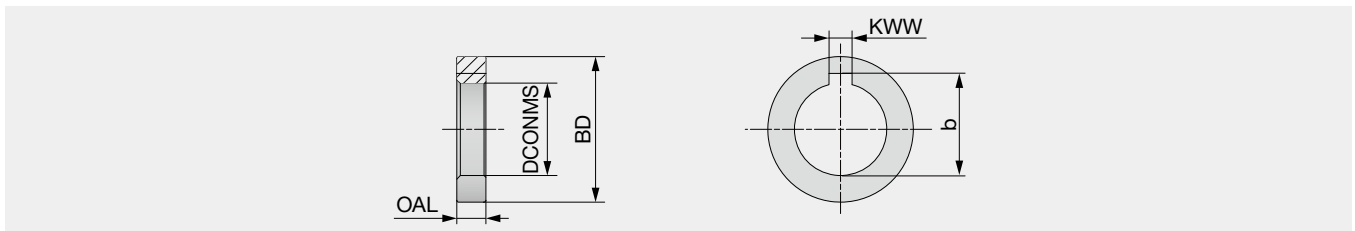


Designation	DCONMS	DCONWS	LF	BD	LSC	LB	Width of key KWW	Height of key
C6SCA25.4-075	63	25.4	75	40	55	21	6.35	2.38
C6SCA31.75-075	63	31.75	75	46	60	26	7.92	3.17
C8SCA25.4-090	80	25.4	90	40	55	21	6.35	2.38
C8SCA31.75-090	80	31.75	90	46	60	26	7.92	3.17

Collars for slot mills are not included

SCA

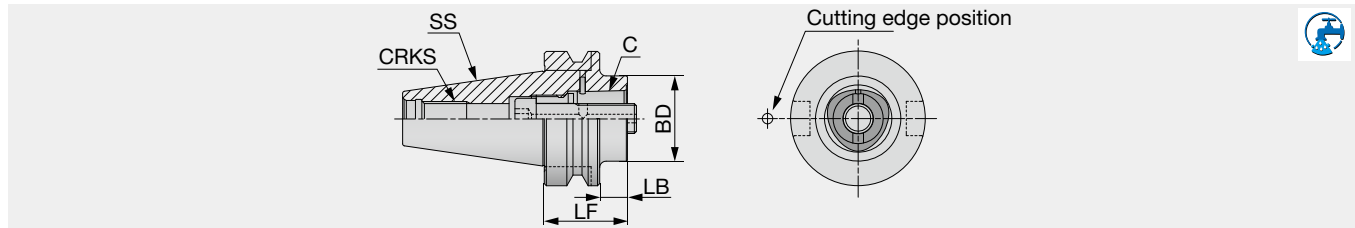
Collar for slot milling holders



Designation	BD	DCONMS	b	KWW	OAL
SCA25.4-02	40	25.4	28.1	6.35	3, 5, 7, 8, 10, 12, 14
SCA31.75-02	46	31.75	35.2	7.92	3, 5, 7, 8, 10, 12, 14

BT-FC

Basic holder for BT shank with dual contact



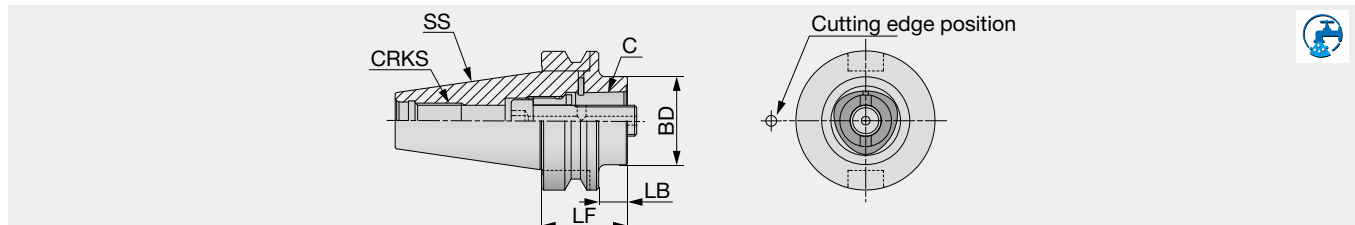
Designation	C	SS	BD	LF	LB	CRKS	Nm ⁽¹⁾	Wrench size
BT40FC-C4-040	C4	40	40	40	13	M16	55	8
BT40FC-C5-050	C5	40	50	50	23	M16	95	10
BT40FC-C6-075	C6	40	63	75	48	M16	170	10
BT50FC-C4-040	C4	50	40	40	2	M24	55	8
BT50FC-C4-070	C4	50	40	70	32	M24	55	8
BT50FC-C5-040	C5	50	50	40	2	M24	95	10
BT50FC-C5-080	C5	50	50	80	42	M24	95	10
BT50FC-C6-050	C6	50	63	50	12	M24	170	14
BT50FC-C6-100	C6	50	63	100	62	M24	170	14
BT50FC-C8-070	C8	50	80	70	32	M24	170	14
BT50FC-C8-120	C8	50	80	120	82	M24	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

BT-FC-T

Basic holder for BT shank with dual contact (for turning on multi task machines)



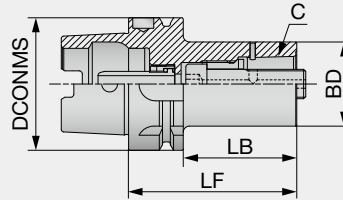
Designation	C	SS	BD	LF	LB	CRKS	Nm ⁽¹⁾	Wrench size
BT40FC-C4-040T	C4	40	40	40	13	M16	55	8
BT40FC-C5-050T	C5	40	50	50	23	M16	95	10
BT50FC-C6-050T	C6	50	63	50	12	M24	170	14
BT50FC-C8-070T	C8	50	80	70	32	M24	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

HSK-A-C/-T

Basic holder for HSK shank



Designation	DCONMS	C	BD	LF	LB	Nm ⁽¹⁾	Wrench size
HSK63A-C4-080T*	63	C4	40	80	54	55	8
HSK63A-C5-090T*	63	C5	50	90	64	95	10
C5ADHSKA100WHX100*	100	C5	50	100	71	95	10
HSK63A-C6-110T*	63	C6	63	110	74	170	14
C6ADHSKA100WHX110*	100	C6	63	110	81	170	14
HSK100A-C6-110	100	C6	63	110	81	170	14
C8ADHSKA100WHX120*	100	C8	80	120	91	170	14
HSK100A-C8-120	100	C8	80	120	91	170	14

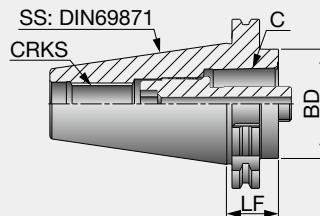
* HSK Standards ICTM with ISO 12164-3

Applicable for 7 MPa coolant. To enable clamping the part to be attached, first remove the cooling tube. Option: Cooling tube wrench

(1) Recommended clamping torque (N·m)

C-ADSKA

Basic holder for DIN69871 Form AD/ADB tapered shank



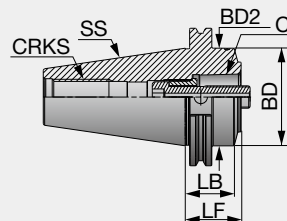
Designation	C	SS	BD	LF	CRKS	Nm ⁽¹⁾	Wrench size
C4ADSKA40X30	C4	40	40	30	M16	55	8
C5ADSKA40X30	C5	40	50	30	M16	95	10
C5ADSKA50X30ADB	C5	50	50	30	M24	95	10
C6ADSKA50X30	C6	50	63	30	M24	170	14
C8ADSKA50X70ADB	C8	50	80	70	M24	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

C-ADCAT

Basic holder for caterpillar AD/ADB tapered shank



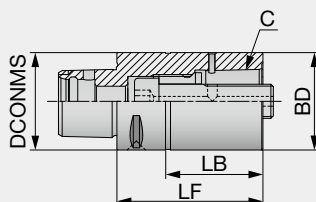
Designation	C	SS	BD	BD2	LF	LB	CRKS	Nm ⁽¹⁾	Wrench size
C4ADCATI40X40ADB	C4	40	40	44.5	40	35	5/8-11	55	8
C5ADCATI40X90ADB	C5	40	50	45.2	90	35	5/8-11	95	10
C5ADCATI50X40ADB	C5	50	50	69.9	40	35	1-8	95	10
C6ADCATI50X50	C6	50	63	69.85	50	37	1-8	170	14
C8ADCATI50X100ADB	C8	50	80	70.1	100	35	1-8	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

C-EX

Extension adapter



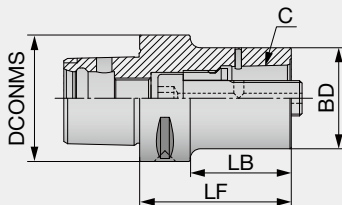
Designation	C	DCONMS	BD	LF	LB	Nm ⁽¹⁾	Wrench size
C3EXC3X060	C3	32	32	60	-	45	7
C3EXC3X080	C3	32	32	80	-	45	7
C4EX-060	C4	40	40	60	80	65	8
C4EX-080	C4	40	40	80	60	65	8
C5EX-080	C5	50	50	80	60	95	10
C5EX-100	C5	50	50	100	80	95	10
C6EX-100	C6	63	63	100	78	170	14
C6EX-140	C6	63	63	140	118	170	14
C8EX-100	C8	80	80	100	70	170	14
C8EX-160	C8	80	80	160	130	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

C-RE

Reduction adapter



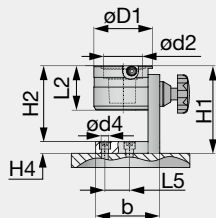
Designation	C	DCONMS	BD	LF	LB	Nm ⁽¹⁾	Wrench size
C5-C4RE-060	C4	50	40	60	40	55	8
C5-C4RE-080	C4	50	40	80	60	55	8
C6-C4RE-080	C4	63	40	80	58	55	8
C6-C5RE-080	C5	63	50	80	58	95	10
C6-C5RE-120	C5	63	50	120	98	95	10
C8-C4RE-070	C4	80	40	70	40	55	8
C8-C5RE-080	C5	80	50	80	50	95	10
C8-C6RE-080	C6	80	63	80	50	170	14
C8-C6RE-120	C6	80	63	120	90	170	14

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N·m)

MULTI CLAMP (TungCap)

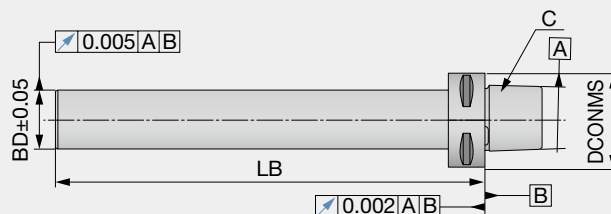
Multi-clamp fixture for TungCap



Designation	CSI	$\phi d2$	$\phi D1$	$L2$	$H1$	$H2$	$H4$	b	$L5$	$\phi d4$
MULTICLAMPC3	C3	32	70	64	128	109	19	104	40	12.5
MULTICLAMPC4	C4	40	78	67	137	118	19	104	40	12.5
MULTICLAMPC5	C5	50	85	72	142	123	19	104	40	12.5
MULTICLAMPC6	C6	63	95	72	142	123	19	104	40	12.5
MULTICLAMPC8	C8	80	130	90	178	159	19	144	85	12.5

TungCap Test bar

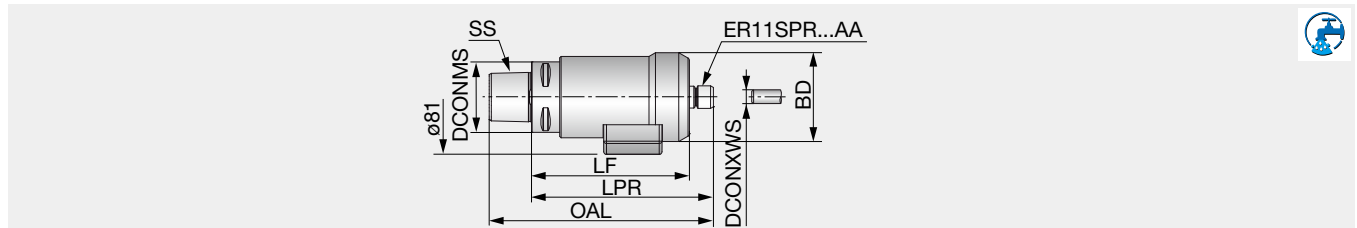
Test bar



Designation	C	DCONMS	BD	LB
C3-TB-160	C3	32	25	160
C4-TB-160	C4	40	25	160
C5-TB-160	C5	50	30	180
C6-TB-220	C6	63	35	220
C8-TB-250	C8	80	40	250

For more
information**SPINJET****TJS-C**

Coolant driven high speed compact spindles with TungCap PSC ISO 26623-1 shanks



Designation	SS	DCONMS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSGJETC5	C5	50	112	129	159	63	7	1.5
TJSGJETC6	C6	63	102	119	157	63	7	1.6

Coolant pressure through machine spindle: Min. 2 MPa / Max. 4 MPa

Min. flow rate: 12 l/min

(1) Max. tool shank diameter: ø7 mm

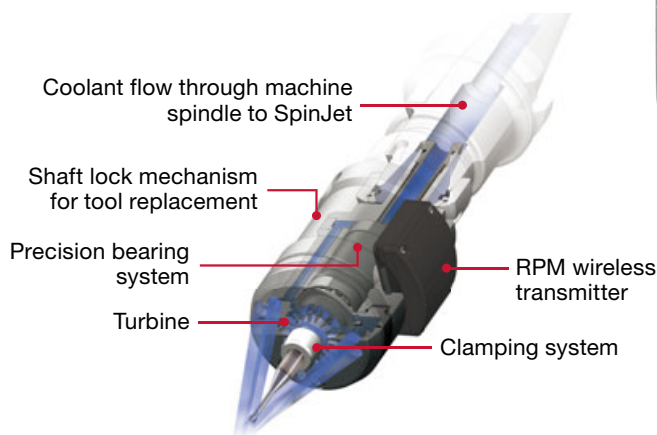
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Option)
TJSGJETHSKA63	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

High speed compact spindle

Convert your existing machine into a high speed machine!

- This innovative system utilizes the machine tool's existing coolant supply, driven by a high pressure pump (minimum 20 bars) as an energy source to rotate a turbine up to 40,000 RPM
- The turbine rotation is also monitored

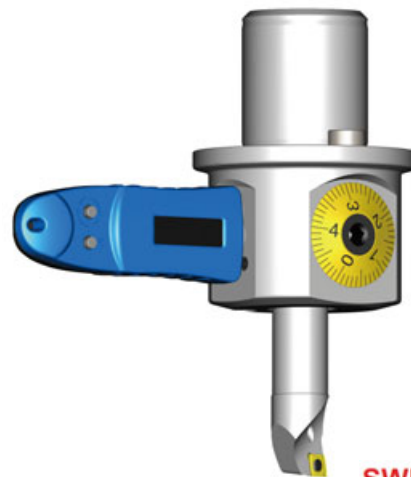




Digital fine boring



Fine boring heads with digital display

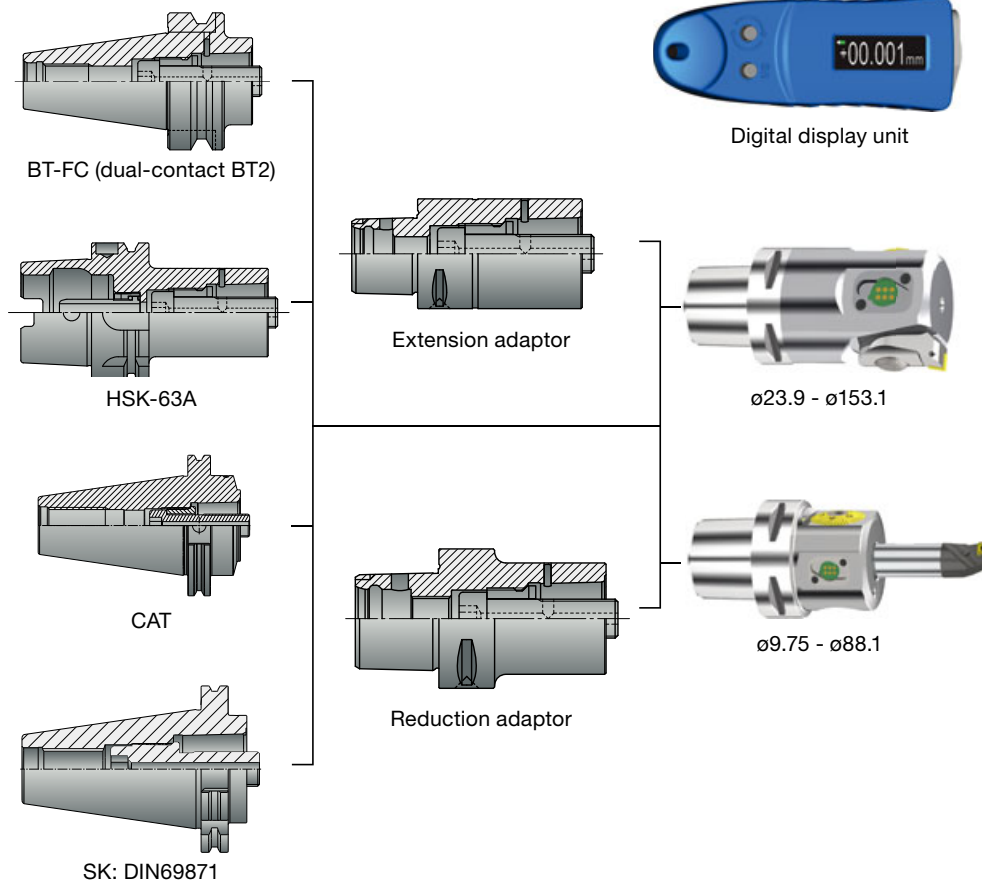


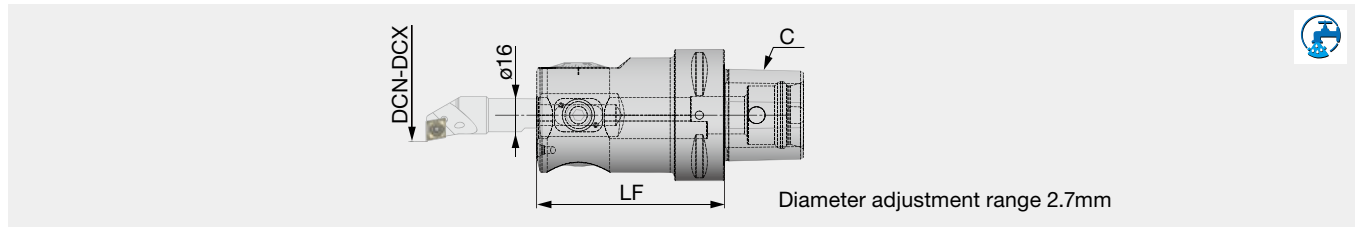
SWISS TOOLS

Fine boring head system makes **micron adjustment easy and accurate on the machine**

Main features:

- Digital display with easy and accurate micron adjustment $\pm 1 \mu\text{m}$ resolution
- One digital unit suitable for all fine boring heads
- Internal coolant for easy chip control
- Adaptable to any TungCap connection on multi-tasking machines



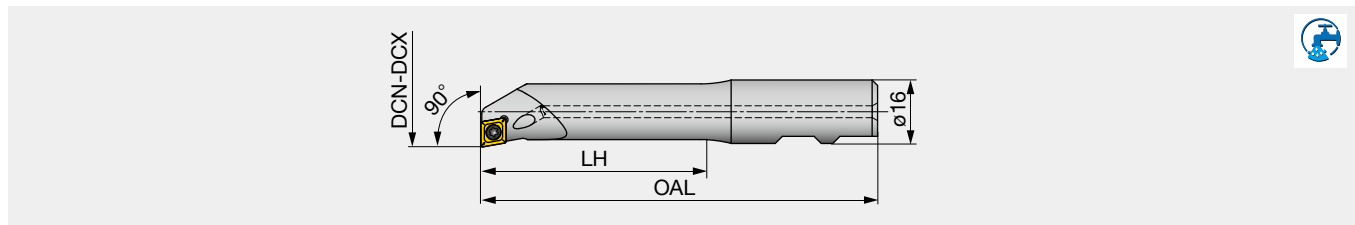
TungCap FBHO-DE**SWISSBORE**Fine boring head for digital display $\varnothing 9.75$ mm - $\varnothing 88.1$ mm

Designation	C	DCN	DCX	LF	Boring bar
BT4-FBHO-DE-1690	BT40	9.75	88.1	90	254.0**.006... / 256...
HA6-FBHO-DE-1695	HSK-A63	9.75	88.1	95	254.0**.006... / 256...
PSC63-FBHO-DE-1690	C6	9.75	88.1	90	254.0**.006... / 256...
PSC50-FBHO-DE-1670	C5	9.75	88.1	70	254.0**.006... / 256...
PSC40-FBHO-DE-1665	C4	9.75	88.1	65	254.0**.006... / 256...

Applicable for 7 MPa coolant

TungCap 254.0.006.******SWISSBORE**

Boring bar



Designation	DCN	DCX	LH	OAL	Insert
254.010.006.075	9.75	15.1	30	75	CC**06 02...
254.015.006.090	14.75	20.1	51	90	CC**06 02...
254.020.006.105	19.75	25.1	72	105	CC**06 02...
254.025.006.115	24.75	30.1	82	115	CC**06 02...

Applicable for 7 MPa coolant

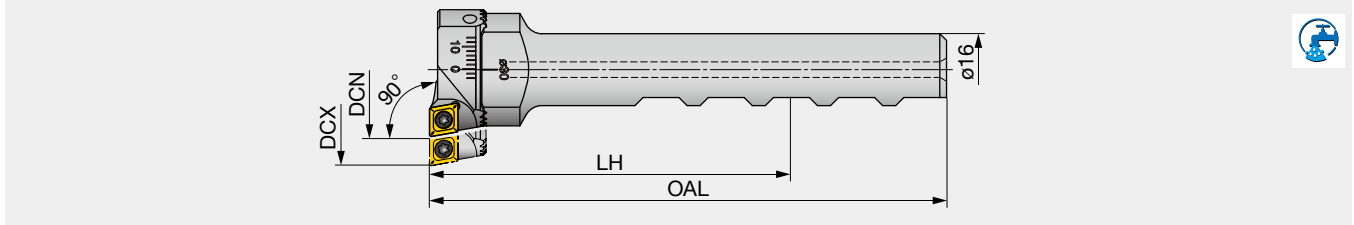
SPARE PARTS

Designation	Clamping screw	Wrench
254.0**.006.**	CSTB-2.5S	T-8F

TungCap 256.0**.0**.115

SWISSBORE

Boring bar



Designation (Shank)	Designation (Insert holder)	DCN	DCX	LH	OAL	Insert
256.030.048.115	256.030.006.012	29.75	48.1	85	115	CC**06 02...
256.048.088.115	256.048.006.014	47.75	88.1	85	115	CC**06 02...

Applicable for 7 MPa coolant

SPARE PARTS

Designation	Clamping screw	Wrench
256.0**.006.0**	CSTB-2.5S	T-8F

TungCap FBHS-DE

SWISSBORE

Fine boring head for digital display ø23.9 mm - ø153.1 mm



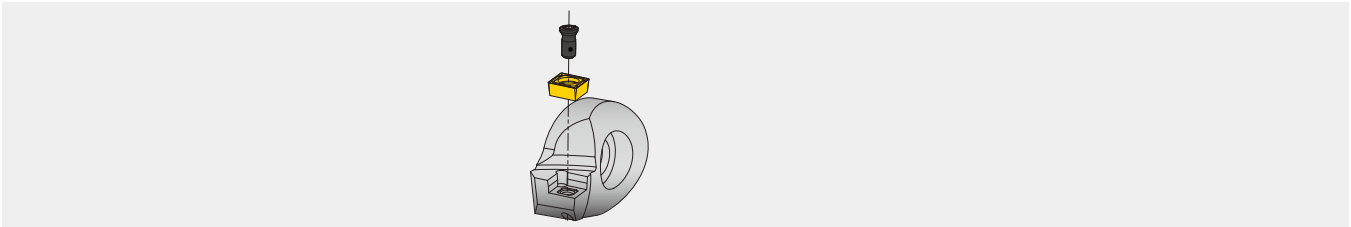
Designation	C	DCN	DCX	LF	LBX	BD	Fig.	Insert holder
PSC32-FBHS-DE-24	C3	23.9	31.1	80	65	20	1	314.011.024.006/007
PSC32-FBHS-DE-24	C3	29.9	37.1	80	65	20	1	314.011.030.006/007
PSC32-FBHS-DE-31	C3	30.9	40.1	90	75	25	1	314.013.031.006/007
PSC32-FBHS-DE-31	C3	37.5	47.1	90	75	25	1	314.013.038.006/007
PSC40-FBHS-DE-40	C4	39.9	51.1	90	70	32	1	314.017.040.006/007
PSC40-FBHS-DE-40	C4	47.5	59.1	90	70	32	1	314.017.048.006/007
PSC50-FBHS-DE-51	C5	50.9	67.1	90	-	-	2	314.022.051.006/007
PSC50-FBHS-DE-51	C5	64.9	81.1	90	-	-	2	314.022.065.006/007
PSC50-FBHS-DE-67	C5	66.9	87.1	100	-	-	2	314.030.067.009/011
PSC50-FBHS-DE-67	C5	84.9	105.1	100	-	-	2	314.030.085.009/011
PSC63-FBHS-DE-87	C6	86.9	116.1	120	-	-	2	314.030.067.009/011
PSC63-FBHS-DE-87	C6	104.9	134.1	120	-	-	2	314.030.085.009/011
PSC63-FBHS-DE-116	C6	115.9	153.1	150	-	-	2	314.030.067.009/011
PSC63-FBHS-DE-116	C6	133.9	171.1	150	-	-	2	314.030.085.009/011

Insert holders are sold separately.
Applicable for 7 MPa coolant

TungCap 314.0**.0**.0**

SWISSBORE

Insert holder of fine boring head for digital display $\varnothing 23.9$ mm - $\varnothing 153.1$ mm



Designation (Insert holder)	Insert
314.011.024.006	CC**0602...
314.013.031.006	CC**0602...
314.017.040.006	CC**0602...
314.022.051.006	CC**0602...
314.030.067.009	CC**08T3..

SPARE PARTS



Designation	Clamping screw	Wrench
314.0**.0**.0**	CSTB-2.5S	T-8F

TungCap GH1-DA

SWISSBORE

Digital display unit



Designation
GH1-DA2.BG0.077

Clamping units

Clamping units for non-rotating and rotating tools, designed for turret lathes

- Clamping units for standard square and round shanks
- Clamping units for PSC Bolt-on clamp interface
- Clamping units for Vertical Disc Interface (VDI DIN69880)



Standard interface



PBI



VDI (DIN69880)

Clamping units

	For external (Tool setting direction cross X)	For internal (Tool setting direction straight Z)
Turning clamping unit	C*-DTO-*C-***-R/L 	C*-DTI-*C-***-R/L 
	C*-DDC-*C-*** 	C*-DDS-*C-*** 

Nomenclature for clamping units

Nomenclature for static clamping unit

C4-DTI-IC-ABC401-R

1	2	3	4	5	6	7
PSC size	Device	Motion	Application	Coolant	Unit number	Hand
C3	D	T Static (turning tool)	O For external turning	IC Internal	Manufacturer's symbol	R Right
C4			I For internal turning	OC External		L Left
C5			S Others			
C6						
C8						

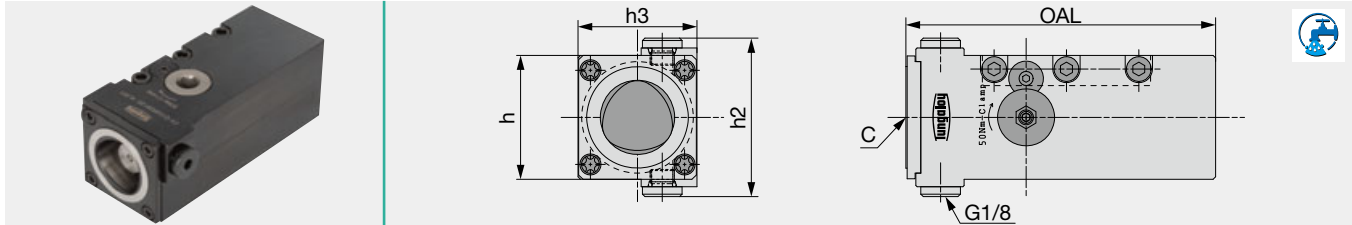
Nomenclature for driven clamping unit

C5-DDC-OC-ABC501

1	2	3	4	5	6
PSC size	Device	Motion	Application	Coolant	Unit number
C3	D	D Driven (rotating tool)	S Straight: Z	OC External	Manufacturer's symbol
C4			C Cross: X	WC Internal / External	
C5			X Others		
C6					
C8					

C-DTOSR/L

Manual clamping unit, square shank



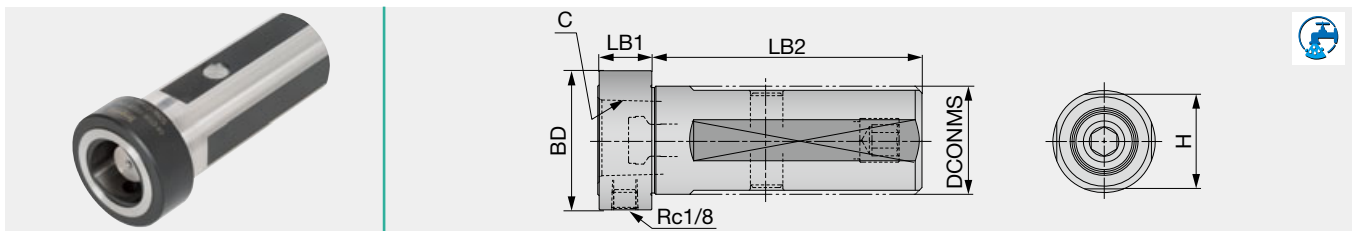
Designation	C	Turret size h	h3	h2	OAL	Torque ⁽¹⁾
C3-DTOS4038R/L	C3	40	38	62	95	35
C4-DTOS5048R/L	C4	50	48	64	125	50
C5-DTOS6464R/L	C5	64	64	68	145	70

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N-m)

C-DTIR

Manual clamping unit, round shank



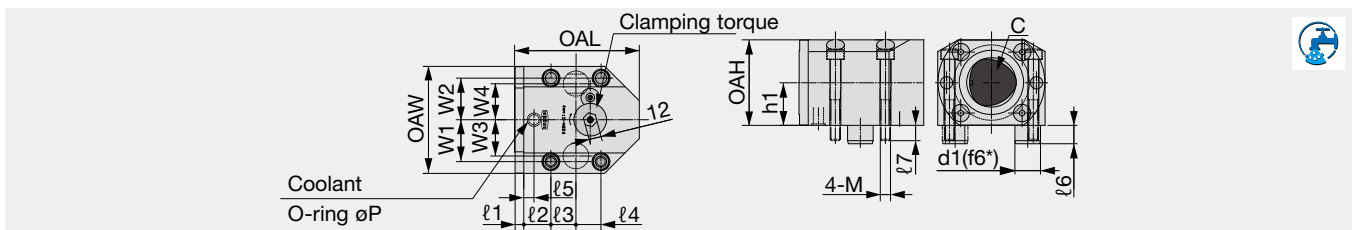
Designation	C	DCONMS	BD	H	LB2	LB1	Torque ⁽¹⁾
C3-DTIR-08018-D32	C3	32	45.5	30	80	18	35
C4-DTIR-10020-D40	C4	40	51.5	37	100	20	50
C4-DTIR-12020-D50	C4	50	51.5	47	120	20	50
C5-DTIR-12024-D50	C5	50	61.5	47	120	24	70

Applicable for 7 MPa coolant

(1) Recommended clamping torque (N-m)

C-DTOFR/L

Manual clamping unit, fixed type



Designation	C	OAH	h1	OAL	OAW	W1	W2	W3	W4	ℓ1	ℓ2	ℓ3	ℓ4	ℓ5	ℓ6	ℓ7	d1(f6*)	P	M	Torque ⁽¹⁾
C5-DTOFR/L32048	C5	64	32	100	92	35		31		8	19	21		7	11	15	20	P8	M10	70
C6-DTOFR/L42060	C6	84	42	122	105	41		35.5		9	26.5	24.5		10	18	15	25	P10	M10	90
C8-DTOFR/L50088	C8	100	50	146	133	55		46		12	33	43		13	19	20	32	P11	M12	130

Applicable for 7 MPa coolant

*f6 tolerance: d20 & 25 = -0.022 / -0.033, d32 = -0.025 / -0.041

(1) Recommended clamping torque (N-m)

Clamping units & tools for CNC lathes

■ Selection for External turning

Fig. 1

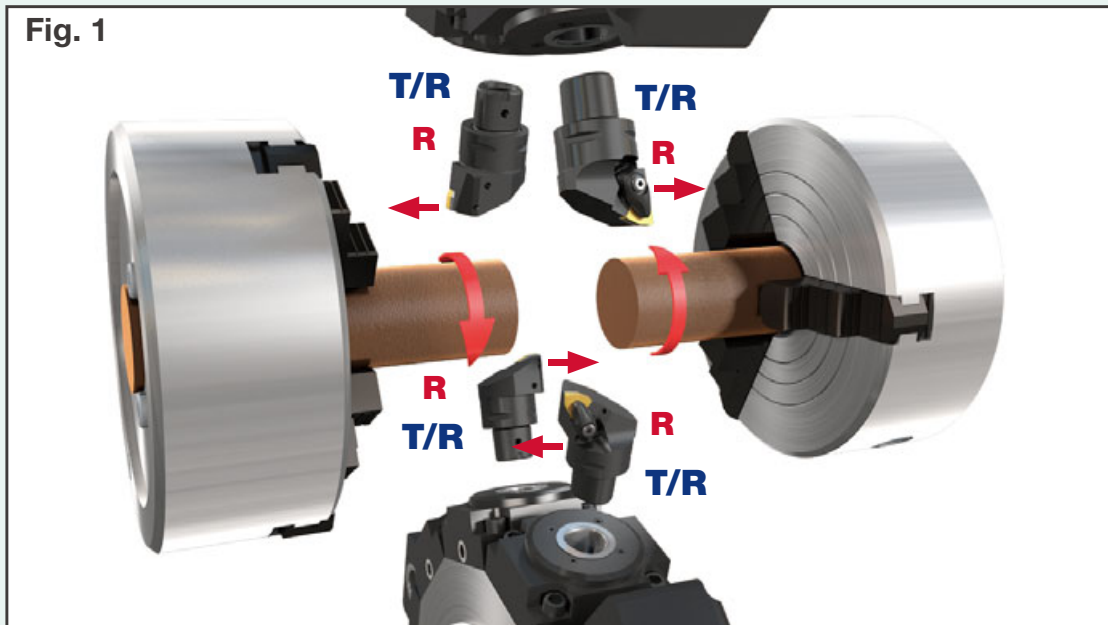
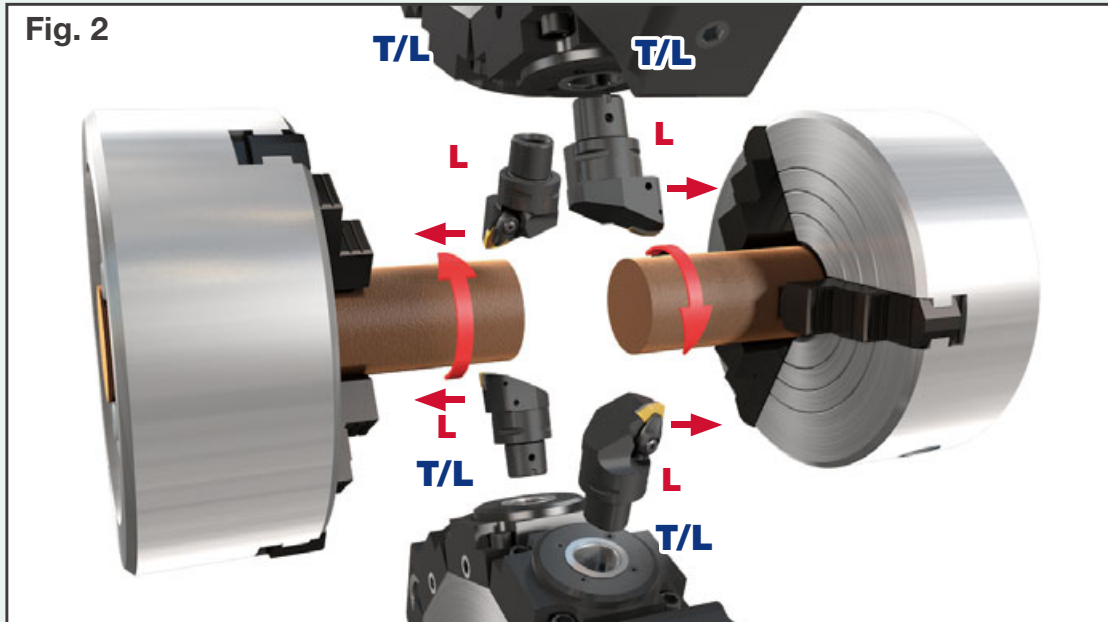


Fig. 2



R - Right hand cutting tool : counter clockwise spindle rotation (M03)

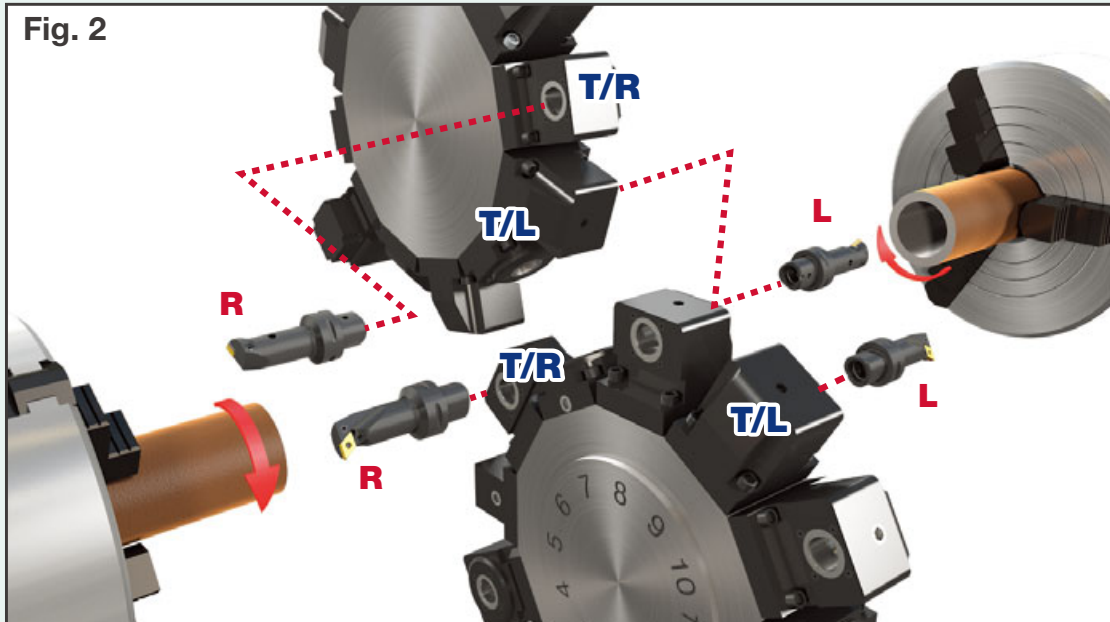
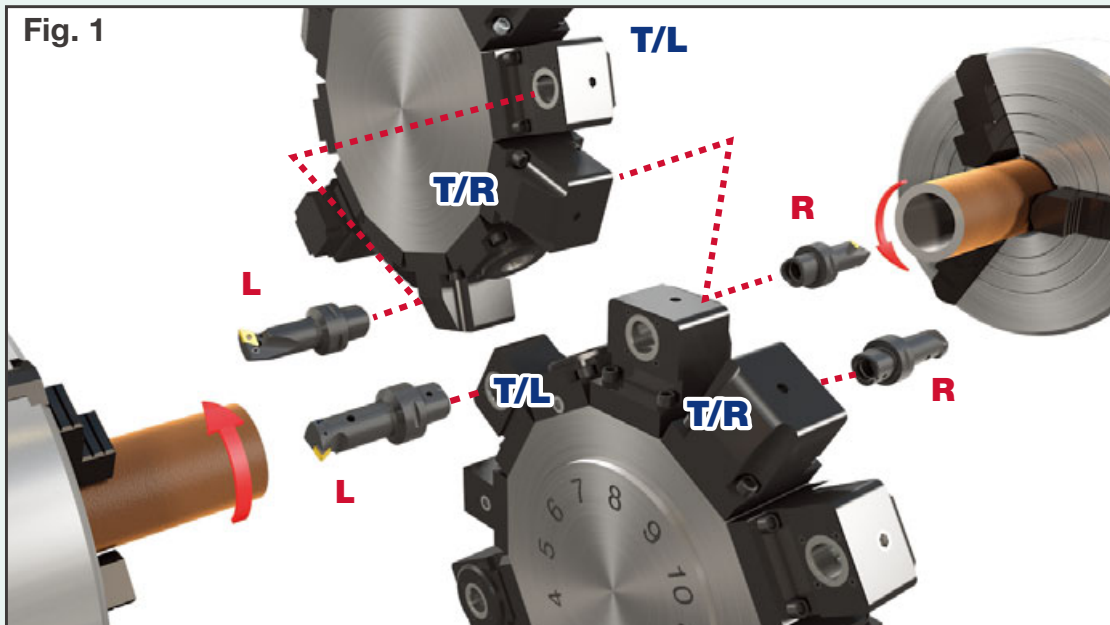
L - Left hand cutting tool : clockwise spindle rotation (M04)

T/R - Right hand clamping unit

T/L - Left hand clamping unit

Clamping units & tools for CNC lathes

Selection for Internal turning



R - Right hand cutting tool :  counter clockwise spindle rotation (M03)

L - Left hand cutting tool :  clockwise spindle rotation (M04)

T/R - Right hand clamping unit

T/L - Left hand clamping unit

Clamping torque

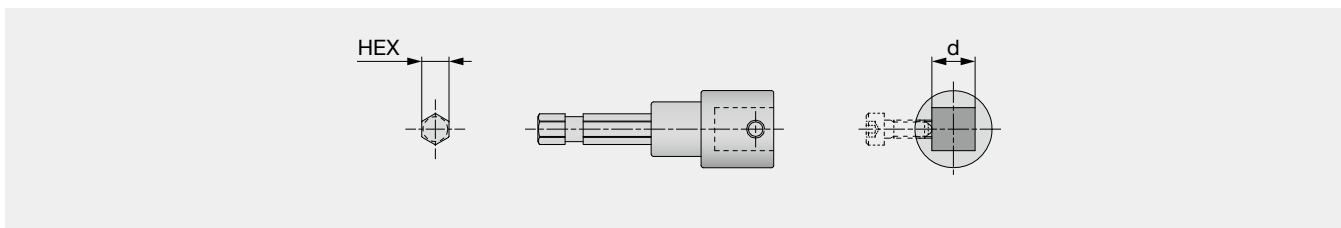


PSC size	Tightening torque recommendation (N·m)	Clamping force (KN)	Torque wrench size	
			Static tool unit	Driven tool unit
C3	35	15	8	6
C4	50	20	10	8
C5	70 (75*)	25	12	10
C6	90 (110*)	30	12	12
C8	130	40	12	12

* Torque value for driven tool unit

TC-HEX

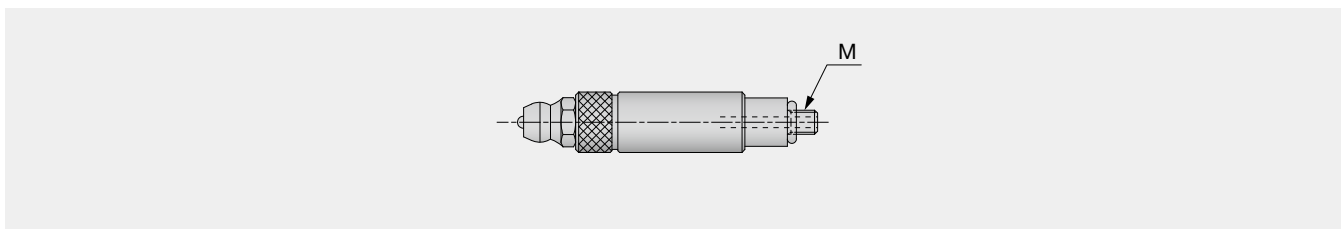
Hex key bit for driven tool units



Designation	C	HEX	d
TC3HEX6-9.5	C3	6	9.5
TC4HEX8-9.5	C4	8	9.5
TC4HEX8-12.7	C4	8	12.7
TC5HEX10-12.7	C5	10	12.7
TC6HEX12-12.7	C6	12	12.7

TUNGCAP-GN

Grease nipple

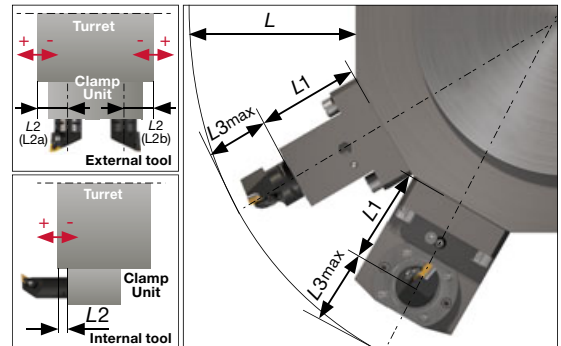


Designation	M
TUNGCAP-GN-M4 (for driven tool unit)	M4
TUNGCAP-GN-M6 (for static tool unit)	M6

DMG MORI Co., Ltd.

DMG MORI**NL/NLX1500/2000/2500 MC/Y/SMC/SY 10/12/20-station turret**

Photo: NLX2000

**NL/NLX1500,2000 MC/Y/SMC/SY 12-station turret****NL/NLX2500 MC/Y/SMC/SY 10/12-station turret**

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS443-R/L	156	75	-24	81
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS402-R/L	156	90	0	66
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-DMS444	156	59	-65	97
		External & Internal	C4		C4-DDC-WC-DMS445	156	85	-65	71
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-DMS446	156	90	-4	66

NL/NLX2000 MC/Y/SMC/SY 20-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS458-R/L	125	75	-24	50
		Internal	C4		C4-DTO-IC-DMS408-R/L (For only L hand spindle)	125	40	25	85
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS409-R/L	125	100	-33	25
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-DMS454	125	58	-65	67
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-DMS441	125	80	-4	45

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

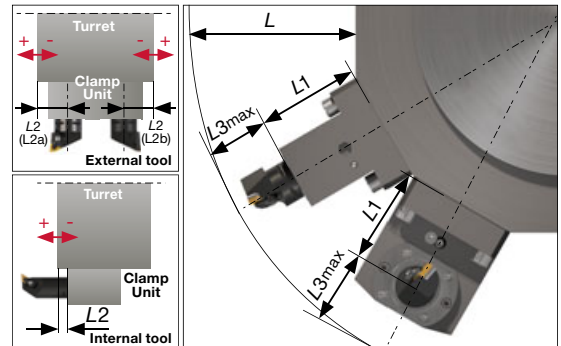
DMG MORI Co., Ltd.

DMG MORI

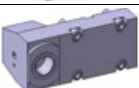
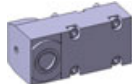
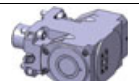
NZX1500/2000 S/SY/SY2, NZX1500/2000 ST/STY2/STY3/SDL 16-station turret



Photo: NZX2000



NZX1500,2000 S/SY/SY2 16-station turret (2 turret machine)

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS458-R/L	125	75	-24	50
		Internal	C4		C4-DTO-IC-DMS408-R/L (For only L hand spindle)	125	40	25	85
		Internal	C4		C4-DTO-IC-DMS461-R/L (For only R hand spindle)	125	59	25	66
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS409-R/L	125	100	-33	25
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-DMS454	125	58	-65	67
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-DMS441	125	80	-4	45

NZX1500,2000 ST/STY2/STY3/SDL 16-station turret (3 turret machine)

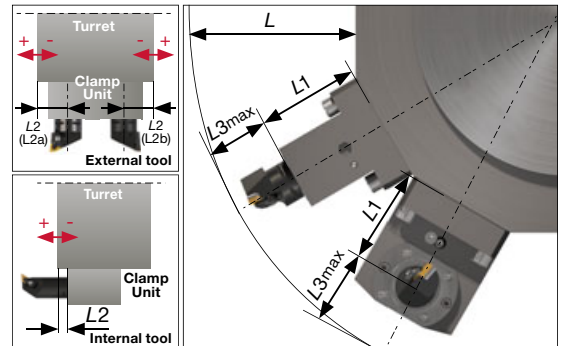
Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS458-R/L	125	75	-19	50
		Internal	C4		C4-DTO-IC-DMS461-R/L (For only L hand spindle)	125	59	25	66
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS409-R/L	125	100	-28	25
Driven tool clamping units	X axis (radial drilling/ milling)	External	C4		C4-DDC-OC-DMS454	125	58	-60	67
	Z axis (axial drilling/ milling)	External & Internal	C4		C4-DDS-WC-DMS441	125	80	1	45

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

DMG MORI Co., Ltd.

DMG MORI**NZX2500 L/MC/Y 12-station turret**

Photo: NZX2500

**NZX2500 L / MC / Y 12-station turret**

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	Internal	C4		C4-DTO-IC-DMS443-R/L (For upper turret)	155	75	-24	80
	Internal	C4		C4-DTO-IC-DMS458-R/L (For lower turret)	130 (*1) 135 (*2)	75	-24	55 (*1) 60 (*2)
	Internal	C4		C4-DTO-IC-DMS408-R/L (For lower turret)	130 (*1)	40	25	90 (*1)
	Internal	C4		C4-DTI-IC-DMS402-R/L (For upper turret)	155	90	0	65
	Internal	C4		C4-DTI-IC-DMS409-R/L (For lower turret)	130 (*1) 135 (*2)	100	-33	30 (*1) 35 (*2)
	External	C4		C4-DDC-OC-DMS444 (For upper turret)	155	59	-65	96
Driven tool clamping units	External	C4		C4-DDC-OC-DMS454 (For lower turret)	130	58	-65	72
	External & Internal	C4		C4-DDC-WC-DMS445 (For upper turret)	155	85	-65	70
	External & Internal	C4		C4-DDS-WC-DMS446 (For upper turret)	155	90	-4	65
	External & Internal	C4		C4-DDS-WC-DMS441 (For lower turret)	130	80	-4	50

(*1) Turret for driven tool clamping units

(*2) Turret for only turning

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

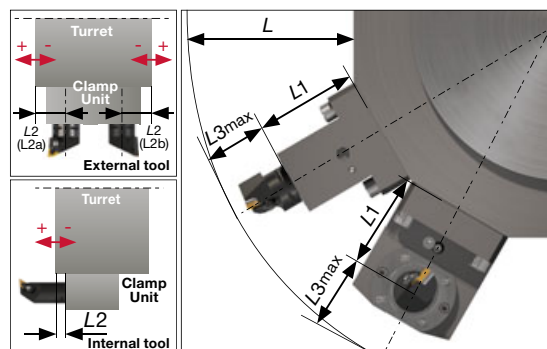
DMG MORI Co., Ltd.

DMG MORI

NZX2500 L/MC/Y 8/12-station turret



Photo: NZX2500



NZX2500 L / MC / Y 12-station upper turret, 8-station lower turret

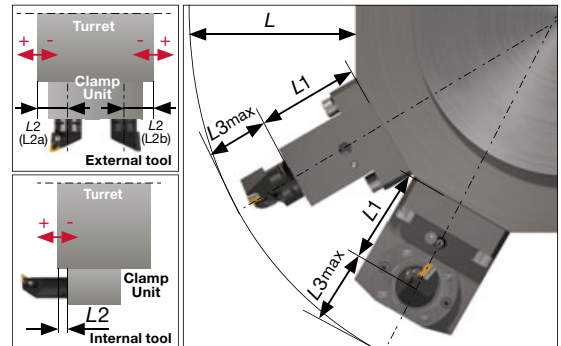
Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4	C4-DTO-IC-DMS443-R/L (For upper/lower turret)	155 (Up) 140 (Down)	75	0	80 (Up) 65 (Down)
	For internal and face turning	Internal	C4	C4-DTI-IC-DMS402-R/L (For upper/lower turret)	155 (Up) 140 (Down)	90	0	65 (Up) 50 (Down)
Driven tool clamping units	X axis (radial drilling/ milling)	External	C4	C4-DDC-OC-DMS444 (For upper/lower turret)	155	59	-65	96
		External & Internal	C4	C4-DDC-WC-DMS445 (For upper turret)	155	85	-65	70
	Z axis (axial drilling/ milling)	External & Internal	C4	C4-DDS-WC-DMS446 (For upper turret)	155	90	-4	65

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

DMG MORI Co., Ltd.

DMG MORI**NTX1000/2000/2500/3000 2nd Generation /T2,M2,Y2,S2 10,12-station turret**

Photo: NTX2000

**NTX1000 2nd Generation /T2,M2,S2,MC2 10-station turret****NTX2000/2500/3000 2nd Generation /T2,M2,Y2,S2 12-station turret**

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS458-R/L	125.5 (*1) 170 (*2)	75	0	50.5 (*1) 95 (*2)
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS409-R/L	125.5 (*1) 170 (*2)	100	-33	25.5 (*1) 70 (*2)
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-DMS454	125.5 (*1) 170 (*2)	58	-65	67.5 (*1) 112 (*2)
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-DMS441	125.5 (*1) 170 (*2)	80	-4	45.5 (*1) 90 (*2)

(*1) NTX1000

(*2) NTX2000/2500/3000

NTX2000/2500/3000 2nd Generation /T2,M2,Y2,S2 10-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-DMS443-R/L	155	75	0	80
	For internal and face turning	Internal	C4		C4-DTI-IC-DMS402-R/L	155	90	0	65
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-DMS444	155	59	-65	96
		External & Internal	C4		C4-DDC-WC-DMS445	155	85	-65	70
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-DMS446	155	90	-4	65

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

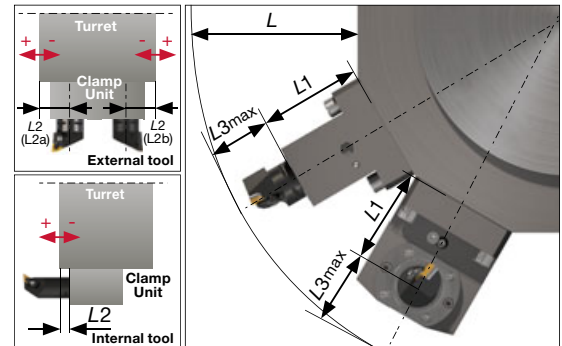
Murata Machinery, Ltd.



MW120/200 8/10/12-station turret



Photo: MW120



MW120 Turret 8 square

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT426-R/L	131	65	31	66
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT457-R/L	131	100	-40	31

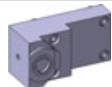
MW120 Turret 12 square

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT403-R/L	116	51	25	65
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT492-R/L	116	85	-40	31

MW200 10-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT481-R/L	165	85	19	80
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT450-R/L	165	130	-20	35

MW200 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT404-R/L	157	85	19	72
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT476-R/L	157	120	-35	37

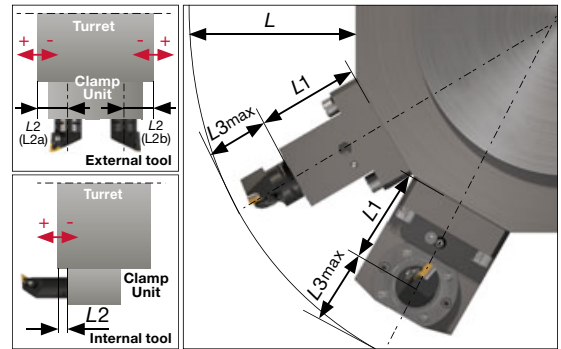
Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

Muratec Machinery, Ltd.

MD120/200 10-station turret



Photo: MD120



MD120 10-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT495-R/L	133	70	17	63
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT416-R/L	133	95	-21	38
Driven tool clamping units	X axis (radial drilling/ milling)	External	C3		C3-DDC-OC-MRT304	133	80	-37	53
	Z axis (axial drilling/ milling)	External & Internal	C4		C4-DDS-WC-MRT494	133	95	-64	38

MD200 10-station turret

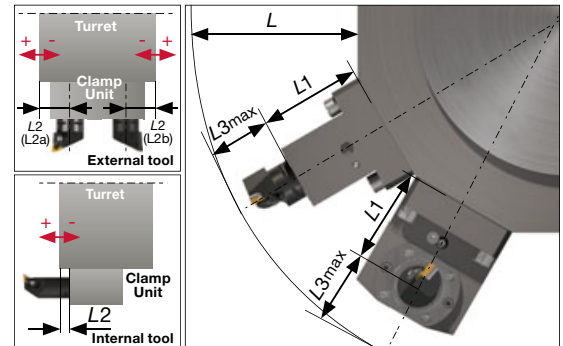
Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-MRT481-R/L	174	85	19	89
	For internal and face turning	Internal	C4		C4-DTI-IC-MRT450-R/L	174	130	-20	44
Driven tool clamping units	X axis (radial drilling/ milling)	External	C4		C4-DDC-OC-MRT412	174	88	30	86
	Z axis (axial drilling/ milling)	External & Internal	C4		C4-DDS-WC-MRT469	174	125	-9	49

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

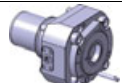
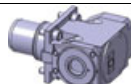
WT-300 12-station turret



Photo: WT-300

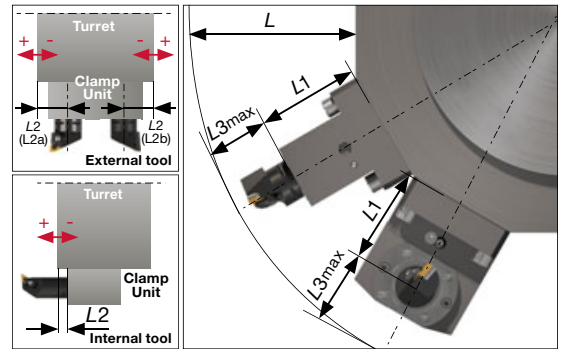


WT-300 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-NAT436-R/L	117.5	48	25	69.5
		Internal	C4		C4-DTO-IC-NAT431-R/L	117.5	48	L2a:25 L2b:25	69.5
	For internal and face turning	Internal	C4		C4-DTI-IC-NAT437-R/L	117.5	90	-24	27.5
Driven tool clamping units	X axis (radial drilling/ milling)	External	C4		C4-DDC-OC-NAT432	117.5	61	-50	56.5
	Z axis (axial drilling/ milling)	External & Internal	C4		C4-DDS-WC-NAT433	117.5	65	11	52.5

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

Nakamura-Tome Precision Industry Co., Ltd.

NTY³-150/250 WY-150/250/250L WT-150II/ 250II 12-station turretPhoto: NTY³-150NTY³-150/250 WY-150/250/250L WT-150II/ 250II 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	Internal	C4		C4-DTO-IC-NATS443-R/L (*3)	102.5 (*1) 115 (*2)	47.5	22	55 (*1) 67.5 (*2)
		C3		C3-DTO-IC-NAT327-R/L	102.5 (*1) 115 (*2)	55	15	47.5 (*1) 60 (*2)
		C4		C4-DTO-IC-NATS444-R/L (*3)	102.5 (*1) 115 (*2)	47.5	L2a:22 L2b:22	55 (*1) 67.5 (*2)
	Internal	C3		C3-DTO-IC-NAT328-R/L	102.5 (*1) 115 (*2)	55	L2a:15 L2b:15	47.5 (*1) 60 (*2)
		C4		C4-DTI-IC-NAT438-R/L	102.5 (*1) 115 (*2)	70	-20	32.5 (*1) 45 (*2)
		C3		C3-DTI-IC-NAT325-R/L	102.5 (*1) 115 (*2)	70	-20	32.5 (*1) 45 (*2)
	Internal	C4		C4-DTI-IC-NATS445-R/L (*3)	102.5 (*1) 115 (*2)	70	-20	32.5 (*1) 45 (*2)
		C3		C3-DDC-OC-NAT321	102.5 (*1) 115 (*2)	45.5	-40	57 (*1) 69.5 (*2)
	External	C3		C3-DDS-WC-NAT326	102.5 (*1) 115 (*2)	60	18	42.5 (*1) 55 (*2)

(*1) NTY³-150/250, WY-150/250/250L

(*2) WT-150 II /250 II

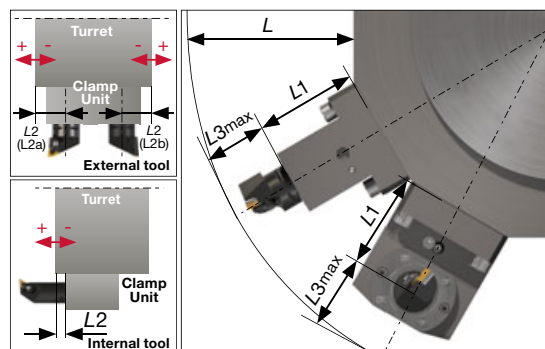
(*3) Special item. Available upon request.

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

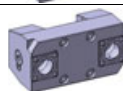
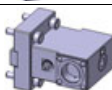
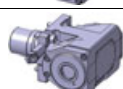
NTY³-100 12/15-station turret WY-100II WT-100 12-station turret



Photo: NTY³-100



NTY³-100 12/15-station turret WY-100II WT-100 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C3		C3-DTO-IC-NAT323-R/L	92.5	47.5	19	45
		Internal	C3		C3-DTO-IC-NAT317-R/L	92.5	47.5	L2a:19 L2b:19	45
	For internal and face turning	Internal	C3		C3-DTI-IC-NAT303-R/L	92.5	73	3	19.5
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-NAT320	92.5	45	-31	47.5
	Z axis (axial drilling/milling)	External & Internal	C3		C3-DDS-WC-NAT324	92.5	60	27	32.5
		External	C3		C3-DDS-OC-NAT329	92.5	60	27	32.5

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
 These units are designed for the use on the metric turret.

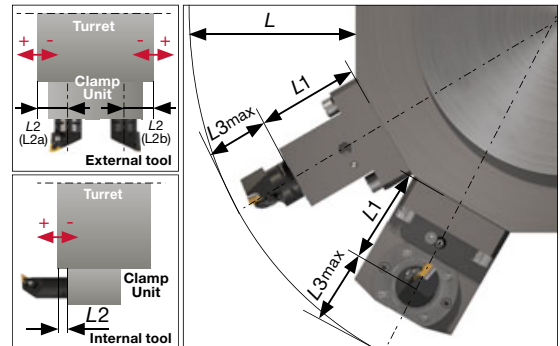
Nakamura-Tome Precision Industry Co., Ltd.



Super NTX 12-station turret



Photo: Super NTX



Super NTX 12-station turret

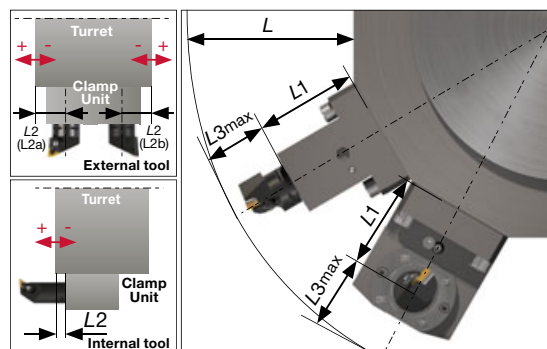
Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4	C4-DTO-IC-NAT436-R/L	120	48	25	72
		Internal	C4	C4-DTO-IC-NAT431-R/L	120	48	L2a:25 L2b:25	72
	For internal and face turning	Internal	C4	C4-DTI-IC-NAT437-R/L	120	90	-24	30
Driven tool clamping units	X axis (radial drilling/milling)	External	C4	C4-DDC-OC-NAT432	120	61	-50	59
	Z axis (axial drilling/milling)	External & Internal	C4	C4-DDS-WC-NAT433	120	65	11	55

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

Super NTJX 12-station turret



Photo: Super NTJX



Super NTJX 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4	C4-DTO-IC-NATS443-R/L (*1)	112.5	47.5	22	65
		Internal	C3	C3-DTO-IC-NAT313-R/L	112.5	60	15	52.5
		Internal	C4	C4-DTO-IC-NATS444-R/L (*1)	112.5	47.5	22	65
		Internal	C3	C3-DTO-IC-NAT318-R/L	112.5	60	L2a:15 L2b:15	52.5
	For internal and face turning	Internal	C4	C4-DTI-IC-NAT435-R/L	112.5	85	-20	27.5
		Internal	C3	C3-DTI-IC-NAT314-R/L	112.5	85	10	27.5
Driven tool clamping units	X axis (radial drilling/milling)	External	C3	C3-DDC-OC-NAT321	112.5	45.5	-40	67
	Z axis (axial drilling/milling)	External & Internal	C3	C3-DDS-WC-NAT322	112.5	70	18	42.5

(*1) Special item. Available upon request.

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

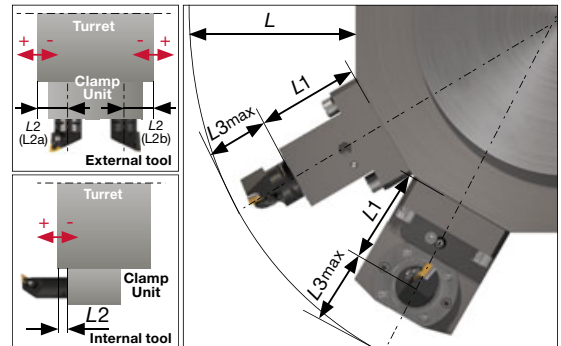
Nakamura-Tome Precision Industry Co., Ltd.



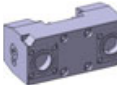
Super NTMX/NTMXL 12-station turret



Photo: Super NTMX



Super NTMX/NTMXL 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-NAT427-R/L	110	42.5	26	67.5
		Internal	C4		C4-DTO-IC-NAT428-R/L	110	42.5	L2a:26 L2b:26	67.5
	For internal and face turning	Internal	C4		C4-DTI-IC-NAT429-R/L	110	85	6	25
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-NAT320	110	45	-31	65
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-NAT319	110	77	27	33

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

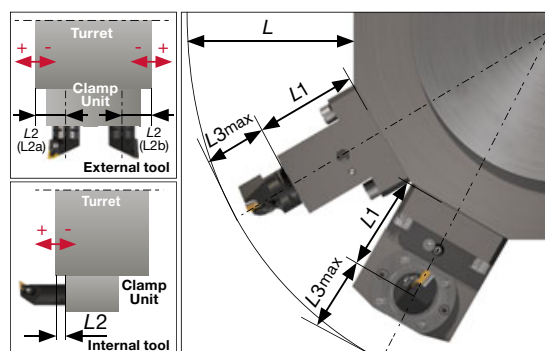
Okuma Corporation



LB2000/2500/3000 EXII 12-station turret



Photo: LB2000EXII



LB2000/2500/3000 EXII(M) 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-OKM405-R/L	147	70	6	77
	For internal and face turning	Internal	C4		C4-DTI-IC-OKM406-R/L	147	90	17.5	57
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-OKM466	147	53.5	-50	93.5
		External & Internal	C4		C4-DDC-WC-OKM456	147	66	-50	81
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-OKM457	147	70	37	77

LB2000/3000 EXII(MY) 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-OKM405-R/L	132	70	6	62
	For internal and face turning	Internal	C4		C4-DTI-IC-OKM406-R/L	132	90	17.5	42
Driven tool clamping units	X axis (radial drilling/milling)	External	C4		C4-DDC-OC-OKM466	132	53.5	-50	78.5
		External & Internal	C4		C4-DDC-WC-OKM456	132	66	-50	66
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-OKM457	132	70	37	62

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

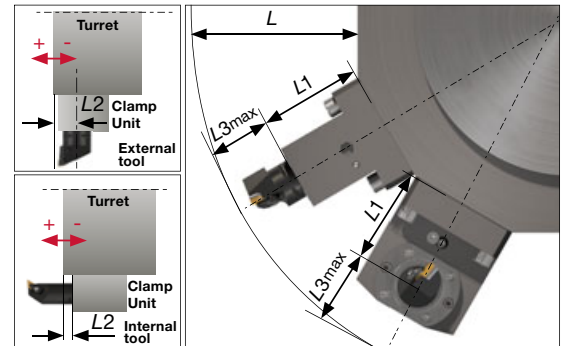
TAKAMAZ Machinery Co., Ltd.



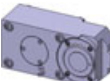
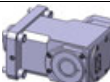
XW-130/130m/200, XWT-10 8/10-station turret



Photo: XW-130



XW-130/130m/200, XWT-10 8/10-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TAK420-R/L	145	70	6	75
	For internal and face turning	Internal	C4		C4-DTI-IC-TAK406-R/L	145	115	0	30
		Internal	C4		C4-DTI-IC-TAK421-R/L	145	115	-20	30
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-TAK325	145	72	12	73
	Z axis (axial drilling/milling)	External & Internal	C3		C3-DDS-WC-TAK326	145	106	-52	39

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

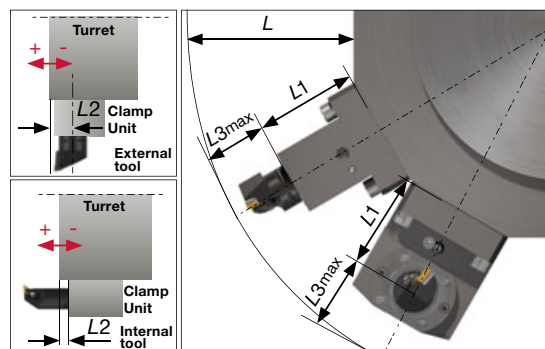
TAKAMAZ Machinery Co., Ltd.



XY-120plus 12-station turret



Photo: XY-120plus



XY-120plus 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C3		C3-DTO-IC-TAK327-R/L	125	60	8	65
	For internal and face turning	Internal	C3		C3-DTI-IC-TAK307-R/L	125	80	0	45
		Internal	C3		C3-DTI-IC-TAK318-R/L	125	80	-30	45
Driven tool clamping units	X axis (radial drilling/ milling)	External	C3		C3-DDC-OC-TAK321	125	60	-50	65
	Z axis (axial drilling/ milling)	External & Internal	C3		C3-DDS-WC-TAK322	125	75	8	50

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

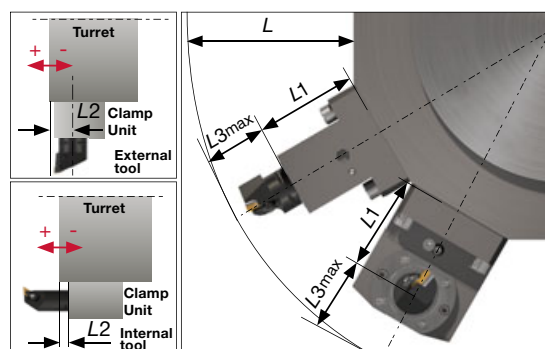
TAKAMAZ Machinery Co., Ltd.



XW-60/60M 8/10-station turret



Photo: XW-60M



XW-60/60M 8/10-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C3	 C3-DTO-IC-TAK327-R/L	105 (*1) 110 (*2)	60	8	45 (*1) 50 (*2)
	For internal and face turning	Internal	C3	 C3-DTI-IC-TAK307-R/L	105 (*1) 110 (*2)	80	0	25 (*1) 30 (*2)
		Internal	C3	 C3-DTI-IC-TAK318-R/L	105 (*1) 110 (*2)	80	-30	25 (*1) 30 (*2)
Driven tool clamping units	X axis (radial drilling/milling)	External	C3	 C3-DDC-OC-TAK321	105 (*1) 110 (*2)	60	-50	50 (*2)
	Z axis (axial drilling/milling)	External & Internal	C3	 C3-DDS-WC-TAK322	105 (*1) 110 (*2)	75	8	35 (*2)

(*1) XW-60

(*2) XW-60M

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

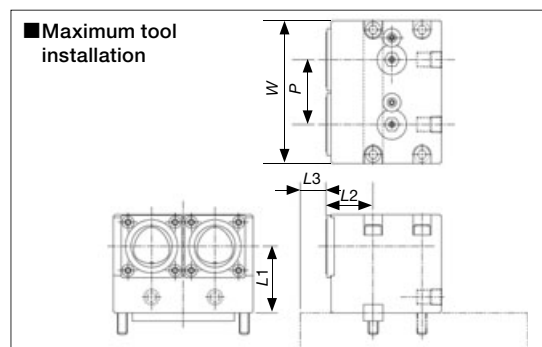
TAKAMAZ Machinery Co., Ltd.



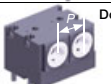
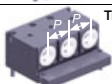
XW-30plus USL-480



Photo: XW-30plus



XW-30plus USL-480

Application	Coolant	Size	Fig.	Description	L1	L2	L3	P (Pitch)	W
Static clamping units For internal and face turning	Internal	C3		C3-DTS-IC-TAK308-R/L	40	29	16	-	47
	Internal	C3		C3-DTS-IC-TAK309-R/L	40	-6	51	-	47
	Internal	C3	 Double	C3-DTS-IC-TAK310-R/L	40	29	16	39	86
	Internal	C3	 Triple	C3-DTS-IC-TAK314-R/L	40	-6	51	P1:42 P2:42	126

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

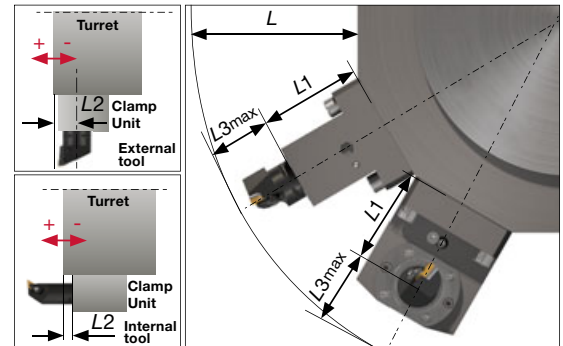
TAKAMAZ Machinery Co., Ltd.



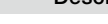
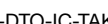
XC/XL-150 8/10/12-station turret



Photo: XC-150



XC-150, XL-150 8-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TAK416-R/L	86 (*1) 92.5 (*2)	25	0	61 (*1) 67 (*2)
	For internal and face turning	Internal	C4		C4-DTI-IC-TAK419-R/L	86 (*1) 92.5 (*2)	40	0	46 (*1) 52.5 (*2)

(*1) XC-150

(*2) XL-150

XL-150 10-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TAK416-R/L	85	30	0	55
	For internal and face turning	Internal	C4		C4-DTI-IC-TAK419-R/L	85	40	0	45

XL-150 for driven tools 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TAK417-R/L	105	25	25	80
	For internal and face turning	Internal	C4		C4-DTI-IC-TAK418-R/L	105	40	40	65
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-TAK328	105	30	20	75
	Z axis (axial drilling/milling)	External & Internal	C3		C3-DDS-WC-TAK329	105	62	72	43

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

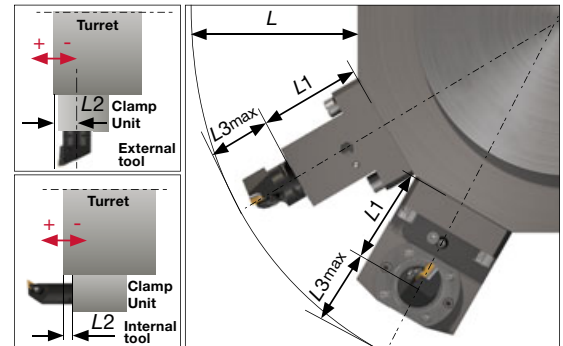
TAKAMAZ Machinery Co., Ltd.



XC-100 XT-6/6M 8/12-station turret



Photo: XC-100



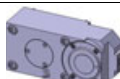
XC-100/XT-6 8-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C3		C3-DTO-IC-TAK323-R/L	70	15	0	55
	For internal and face turning	Internal	C3		C3-DTI-IC-TAK302-R/L	70	40	8	30

XT-6 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C3		C3-DTO-IC-TAK315-R/L	65	15	19	50
	For internal and face turning	Internal	C3		C3-DTI-IC-TAK316-R/L	65	45	8	20

XT-6M 12-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C3		C3-DTO-IC-TAK317-R/L	77.5	15	19	62.5
	For internal and face turning	Internal	C3		C3-DTI-IC-TAK316-R/L	77.5	45	3	32.5
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-TAK319 (*1)	77.5	35	40	42.5
	Z axis (axial drilling/milling)	External & Internal	C3		C3-DDS-WC-TAK320 (*1)	77.5	38	40	39.5

(*1) Maximum rotation: 2000 min⁻¹

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit. These units are designed for the use on the metric turret.

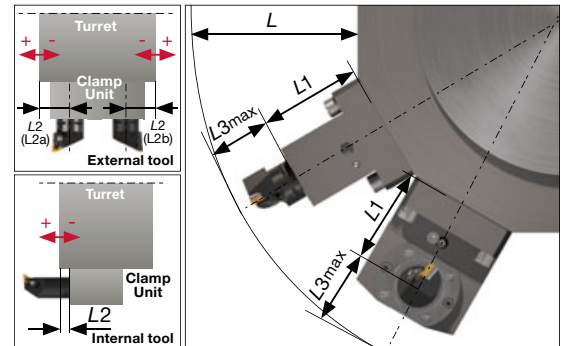
Takisawa Machine Tool Co., Ltd.



TT-2100/2600 G/CMG 10/12-station turret



Photo: TT-2100



TT-2100 G/CMG 10-station turret

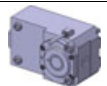
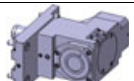
Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TKS403-R/L	135	75	16	60
	For internal and face turning	Internal	C4		C4-DTI-IC-TKS420-R/L	135	105	-35	30
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-TKS301 (*1)	135	86	-43	49
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-TKS409 (*1)	135	95	-58	40

(*1) Cannot be attached to TT-2100G

TT-2100 G 12-station turret

Application		Coolant	Size	Fig.	Description	L	L1	L2	L3max
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TKS405-R/L	135	75	16	60
	For internal and face turning	Internal	C4		C4-DTI-IC-TKS404-R/L	135	105	-35	30

TT-2600 G/CMG 10-station turret

Application	Coolant	Size	Fig.	Description	L	L1	L2	L3max	
Static clamping units	For external and face turning	Internal	C4		C4-DTO-IC-TKS406-R/L	145	85	10	60
	For internal and face turning	Internal	C4		C4-DTI-IC-TKS424-R/L	145	110	6	35
Driven tool clamping units	X axis (radial drilling/milling)	External	C3		C3-DDC-OC-TKS302	145	86	-40	59
	Z axis (axial drilling/milling)	External & Internal	C4		C4-DDS-WC-TKS410	145	105	-53	40

Always check the turret type, maximum tool rotation, and strokes prior to using the clamping unit.
These units are designed for the use on the metric turret.

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