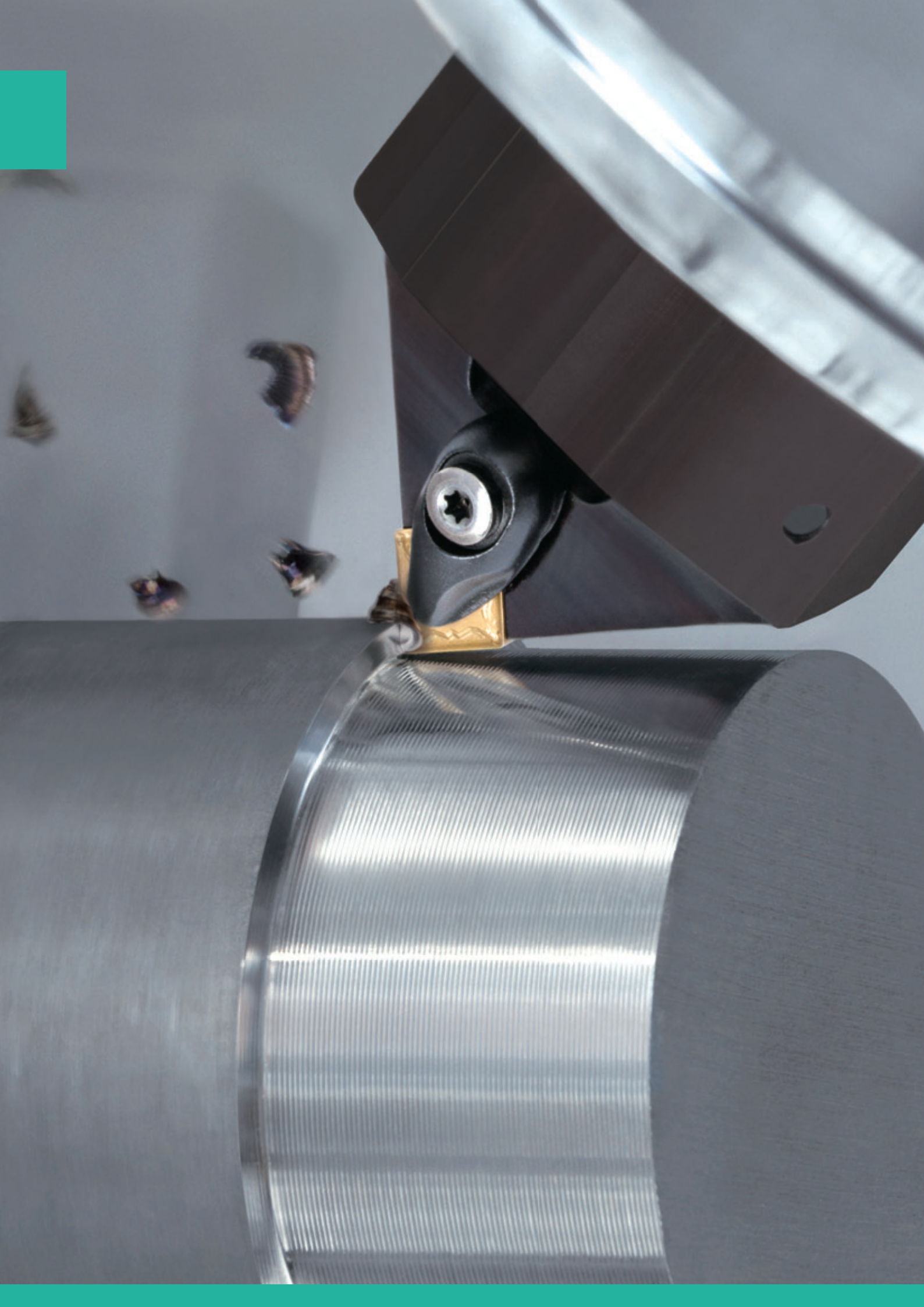


www.tungaloy.com



**Quick change system** with  
polygon coupling tooling





**TUNGCAP**  
TUNGALOY

**Accelerated operation** on CNC  
lathes and multi-task machines!

## TUNGCAP

TUNGALOY

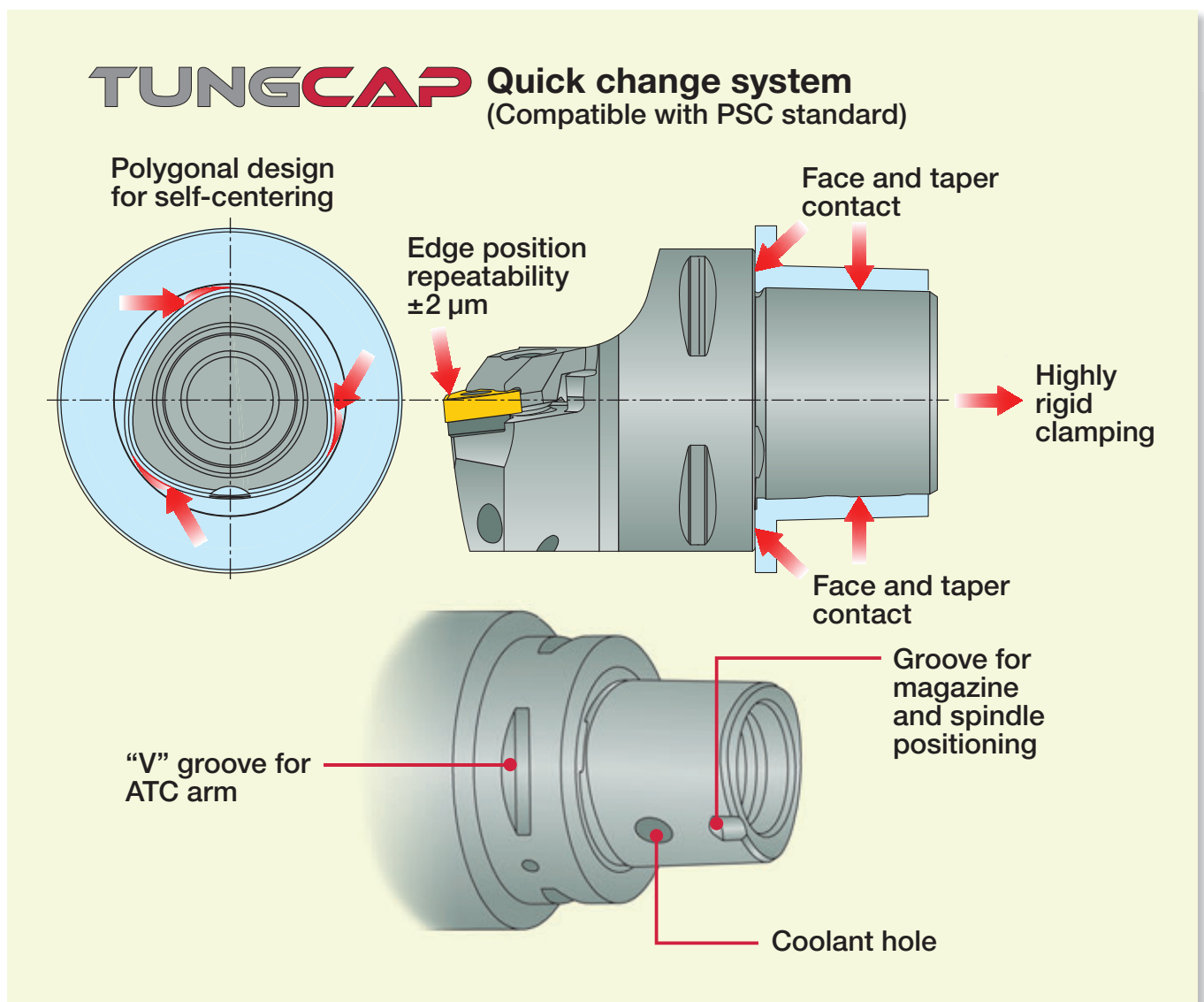
### High productive machining and drastic reduction of downtime!

#### ● High rigidity

The clamping is extremely rigid and strong against bending force due to dual contact of polygonal taper and flange face.

#### ● Excellent accuracy

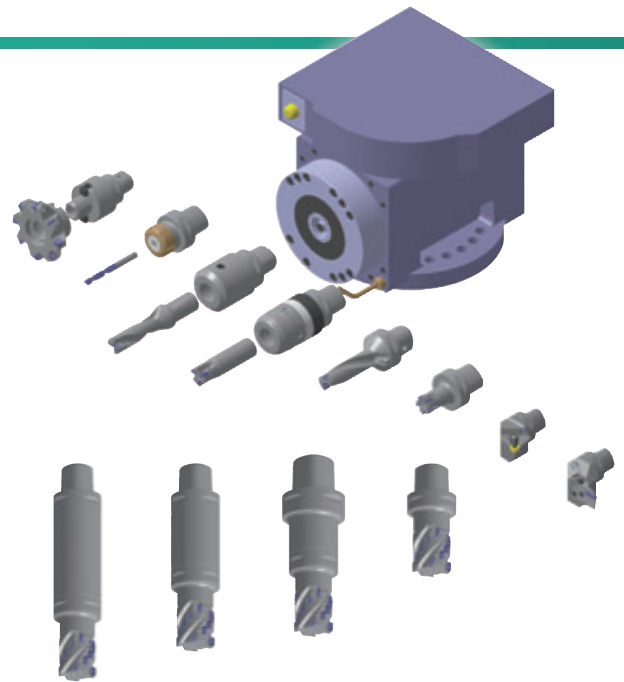
- High repeatability of the edge position in tool change:  $\pm 2 \mu\text{m}$
- The polygonal clamping design divides cutting torque evenly, increasing self-centering effect



## ● Easy tool management

Suitable for a wide range of applications

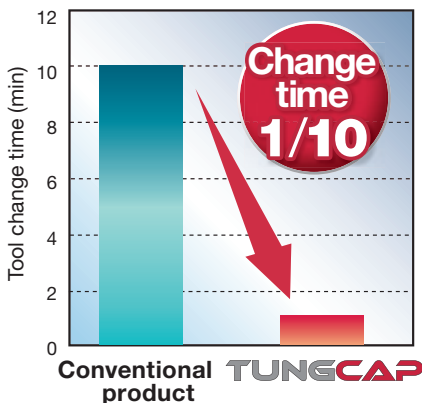
- TungCap used as modular tools allows various machining
- Adapters for HSK or BT shank with dual contact are available



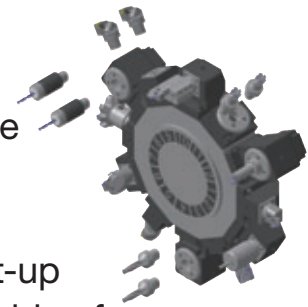
### Ideal tooling

- Appropriate overhang length can be set with extension or reduction holders

## ● Short tool-change time



- No need to change inserts on the machine
- Repeatability:  $\pm 2 \mu\text{m}$
- No test cutting is required as set-up and measuring can be done outside of the machine



**Drastically reduces machine downtime**



## ● Works with TungJet toolholders

TungJet toolholder supplies high pressure coolant.

- Forms short chips in machining of Inconel, titanium, and other heat-resistant alloys

**TUNGJET 7 MPa**



Normal pressure coolant  
(External supply)



**TURNLINE** Toolholders for turning

**Interface of machine**

**PSC**

**BT**

**HSK-T**

Adapters for BT shank with dual contact



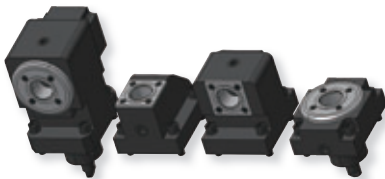
**BT-FC-T**  
P. 32

Adapters for HSK shank



**HSK-A-C-T**  
P. 33

Special clamping units for CNC lathes



P. 36

Extension



**C-EX**  
P. 34

Reduction



**C-RE**  
P. 34

**External turning tools**

**TURNING**



**C-ACLNR/L**  
P. 8



**C-ADJNR/L**  
P. 9



**C-ACLNN**  
P. 9



**C-ADNNN**  
P. 10



**C-PCLNR/L**  
P. 8



**C-PDJNR/L**  
P. 9



**C-SVVCN**  
P. 11



**C-SVJCR/L**  
P. 11

**Internal turning tools**



**C-PCLNR/L**  
P. 14



**C-PDUNR/L**  
P. 14



**C-ADUNR/L**  
P. 14

**Grooving tools**

**TUNGCUT**



**C-CHFVR/L**  
P. 16



**C-CHSR/L**  
P. 16



**C-TBK**  
P. 22

**Adapters for external turning**



**C-ASHA**  
**C-ADER/L**  
P. 19



**C-ASHR**  
P. 19



**C-ADES**  
P. 20

**Adapters for boring bars**



**C-ADI**  
P. 21



**C-ABB**  
P. 20

**Threading tool**

**TUNGTHREAD**



**C-CER**  
P. 13

## Interface of machine

PSC

BT

HSK-A

Holders for BT shank with dual contact



BT-FC  
P. 32

Holders for HSK shank



HSK-A-C/T  
P. 33

TUNGREC ROUGHINGMILL DOFEEDMINI TUNGDRILLTWISTED



C-EPS

Special tools



C-ELS

Special tools



C-EXN

Special tools



C-TDX

Special tools

Extension



C-EX

P. 34

Reduction



C-RE

P. 34

Power chuck holders



TUNGMAX  
C-MAXIN

P. 28

+



Side lock holders for endmill



C-EM

P. 22

+



Side lock holders for drill



C-EM-E

P. 23

+



ER collet chuck holders



C-ER

P. 24

+



Center alignment holders



TUNGFINE  
ADJ-C

P. 25

+



Thermal shrinking holders



TUNGSHRINK  
C-SRINK

P. 31

+



Shell mill holders



C-SEM

P. 27

+



Slot milling holders



C-SCA

P. 32

+



Indexable modular system



TUNGFIX  
C-ODP

P. 28

+



High speed holder with coolant pressure



SPINJET  
TJS-C

P. 35

+



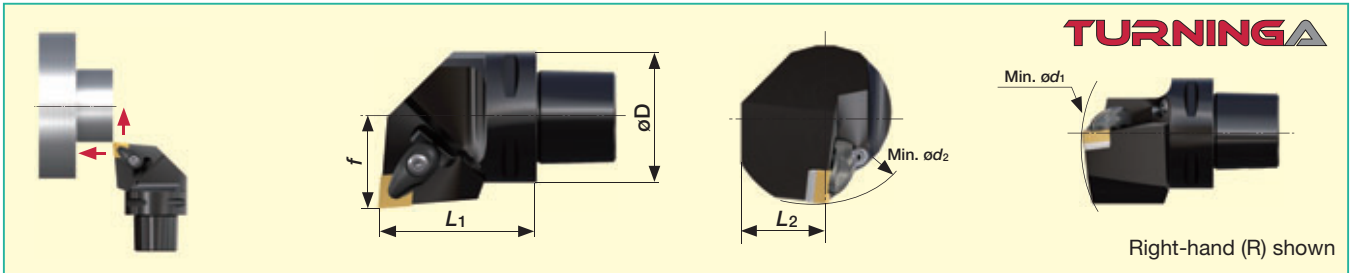
Tool clamp fixture



P. 35

## ● Toolholders for external turning

### **C-ACLNR/L** External turning and facing A type (Negative rake, Double-clamping system)

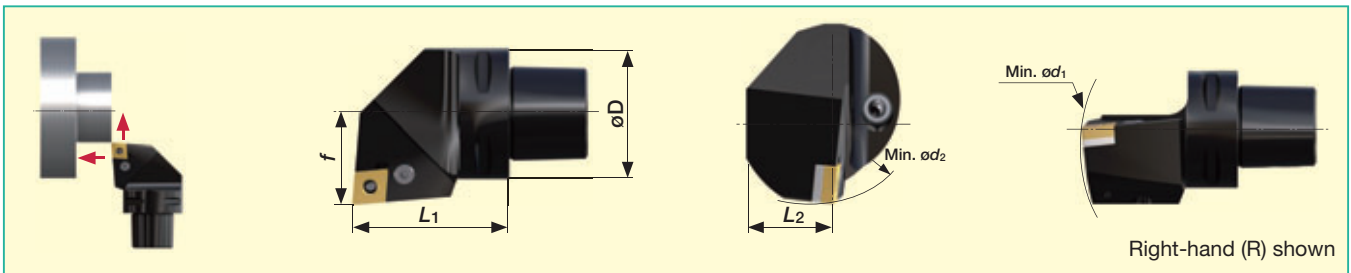


Right-hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_\epsilon$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C4ACLNR/L27050-12N	●	●	40	50	25	27	140	110	0.8	CN**1204**
C5ACLNR/L35060-12N	●	●	50	60	32	35	165	110	0.8	CN**1204**
C6ACLNR/L45065-12N	●	●	63	65	41	45	190	125	0.8	CN**1204**
C6ACLNR/L45135-12N			63	135	41	45	190	125	0.8	CN**1204**
C6ACLNR/L45065-16N			63	65	41	45	190	125	0.8	CN**1604**

Applicable for 7 MPa pressure coolant

### **C-PCLNR/L** External turning and facing P type (Negative rake, Lever-lock system)

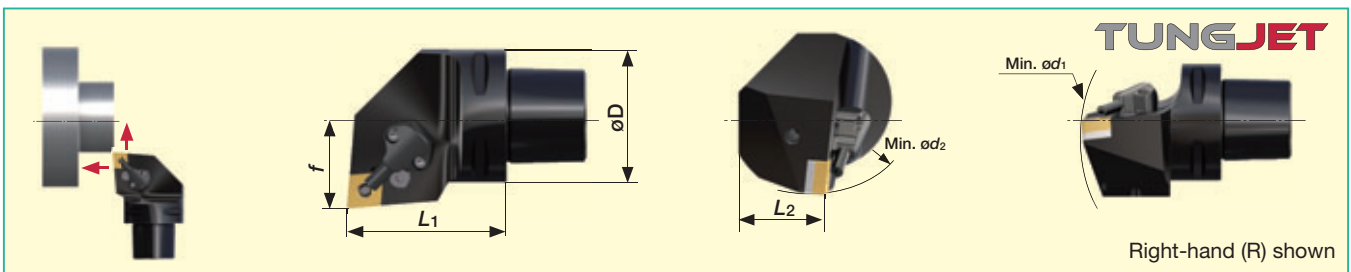


Right-hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_\epsilon$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5PCLNR/L35060-12 <sup>(1)</sup>	●	●	50	60	32	35	-	-	0.8	CN**1204**
C5PCLNR/L35060-12N <sup>(2)</sup>	●	●	50	60	32	35	165	110	0.8	CN**1204**
C6PCLNR/L45065-12 <sup>(1)</sup>		●	63	65	41	45	-	-	0.8	CN**1204**
C6PCLNR/L45065-12N <sup>(2)</sup>	●	●	63	65	41	45	190	125	0.8	CN**1204**

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

### **C-PCLNR/L-CHP** External turning and facing P type (Negative rake, Lever-lock system)



Right-hand (R) shown

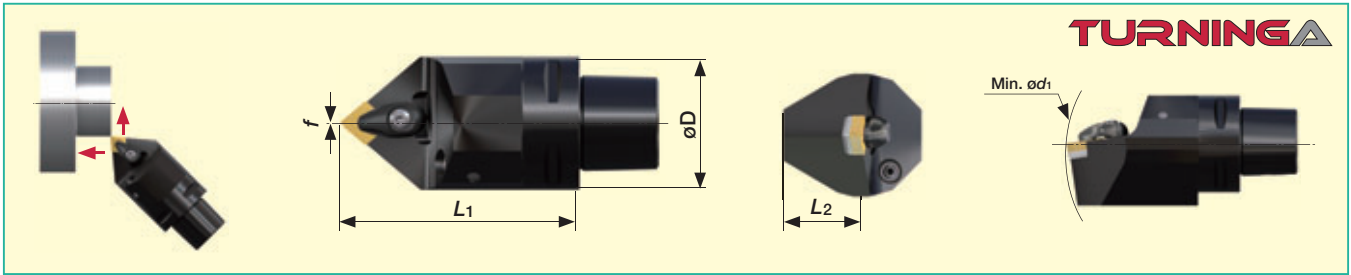
Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_\epsilon$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5PCLNR/L35060-12-CHP			50	60	32	35	165	110	0.8	CN**1204**
C6PCLNR/L45065-12-CHP			63	65	41	45	190	125	0.8	CN**1204**

Applicable for 14 MPa pressure coolant

● : Stocked items



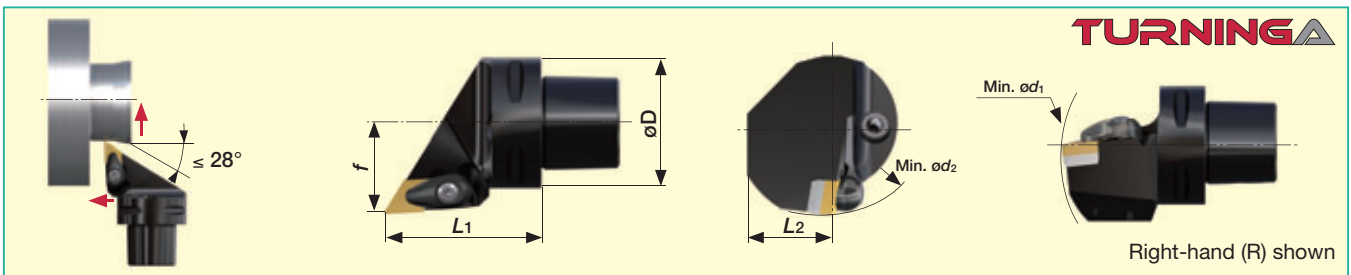
## C-ACLNN External turning and facing A type (Negative rake, Double-clamping system)



Cat. No.	Stock	Dimensions (mm)						Std. Corner radius $r_{\epsilon}$	Applicable inserts
		$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5ACLNN00090-12 <sup>(1)</sup>	●	50	90	32	0	-	-	0.8	CN**1204**
C5ACLNN00090-12N <sup>(2)</sup>	●	50	90	32	0	165	-	0.8	CN**1204**
C5ACLNN00125-12 <sup>(1)</sup>	●	50	125	32	0	-	-	0.8	CN**1204**
C5ACLNN00125-12N <sup>(2)</sup>	●	50	125	32	0	165	-	0.8	CN**1204**
C6ACLNN00100-12N <sup>(2)</sup>	●	63	100	37.5	0	190	-	0.8	CN**1204**
C6ACLNN00140-12N <sup>(2)</sup>	●	63	140	37.5	0	190	-	0.8	CN**1204**

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

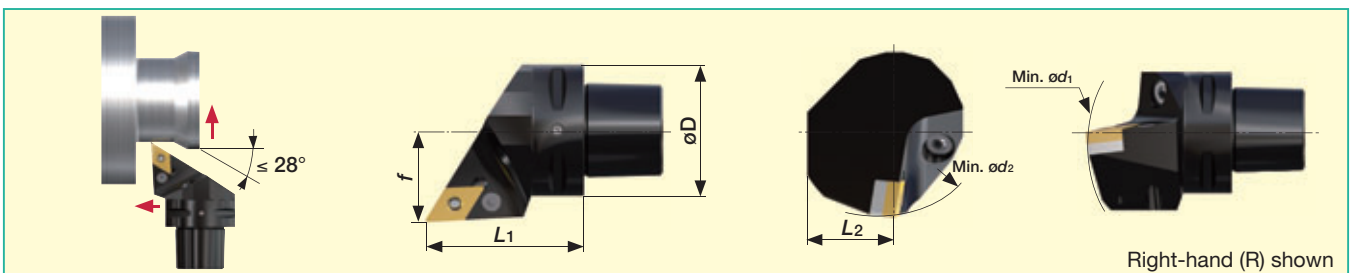
## C-ADJNR/L External turning and profiling A type (Negative rake, Double-clamping system)



Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_{\epsilon}$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C4ADJNR/L27050-15N <sup>(2)</sup>	●	●	40	50	25	27	145	110	0.8	DN**1504** (DN**1506**)
C5ADJNR/L35060-15 <sup>(1)</sup>		●	50	60	32	35	-	-	0.8	DN**1504** (DN**1506**)
C5ADJNR/L35060-15N <sup>(2)</sup>	●	●	50	60	32	35	165	110	0.8	DN**1504** (DN**1506**)
C6ADJNR/L45065-15 <sup>(1)</sup>		●	63	65	41	45	-	-	0.8	DN**1504** (DN**1506**)
C6ADJNR/L45065-15N <sup>(2)</sup>	●	●	63	65	41	45	190	110	0.8	DN**1504** (DN**1506**)
C6ADJNR/L45135-15N <sup>(2)</sup>			63	135	41	45	190	110	0.8	DN**1504** (DN**1506**)

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

## C-PDJNR/L External turning and profiling A type (Negative rake, Double-clamping system)

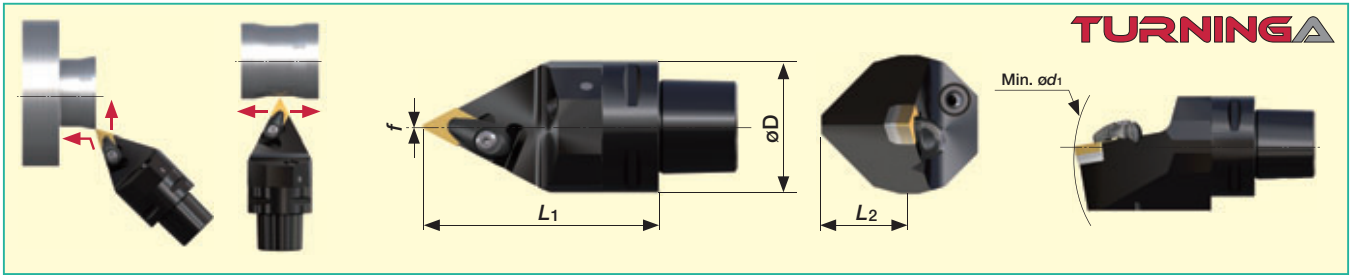


Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_{\epsilon}$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5PDJNR/L35060-15N			50	60	32	35	165	110	0.8	DN**1504** (DN**1506**)
C6PDJNR/L45065-15N			63	65	41	45	195	95	0.8	DN**1504** (DN**1506**)

Applicable for 7 MPa pressure coolant

● : Stocked items

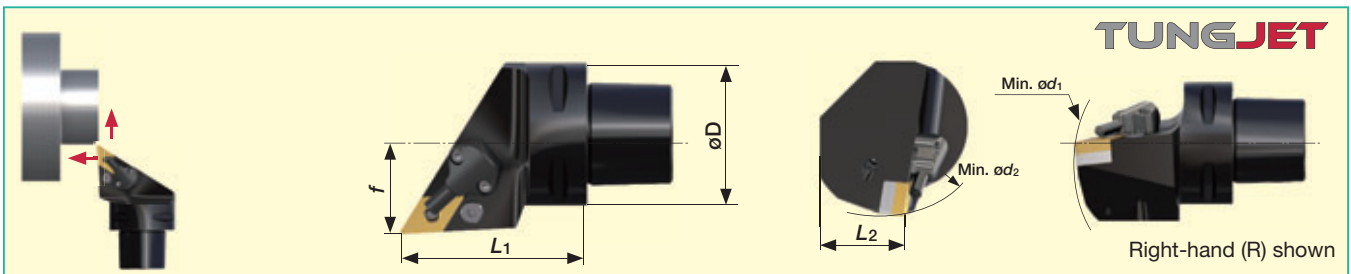
## C-ADNNN External turning and profiling A type (Negative rake, Double-clamping system)



Cat. No.	Stock	Dimensions (mm)						Std. Corner radius $r_{\epsilon}$	Applicable inserts
		$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5ADNNN00090-15 <sup>(1)</sup>	●	50	90	32	0	-	-	0.8	DN**1504** (DN**1506**)
C5ADNNN00090-15N <sup>(2)</sup>	●	50	90	32	0	165	-	0.8	DN**1504** (DN**1506**)
C5ADNNN00125-15 <sup>(1)</sup>	●	50	125	32	0	-	-	0.8	DN**1504** (DN**1506**)
C5ADNNN00125-15N <sup>(2)</sup>	●	50	125	32	0	165	-	0.8	DN**1504** (DN**1506**)
C6ADNNN00100-15 <sup>(1)</sup>	●	63	100	37.5	0	-	-	0.8	DN**1504** (DN**1506**)
C6ADNNN00100-15N <sup>(2)</sup>	●	63	100	37.5	0	190	-	0.8	DN**1504** (DN**1506**)
C6ADNNN00140-15 <sup>(1)</sup>	●	63	140	37.5	0	-	-	0.8	DN**1504** (DN**1506**)
C6ADNNN00140-15N <sup>(2)</sup>	●	63	140	37.5	0	190	-	0.8	DN**1504** (DN**1506**)

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

## C-PDJNR/L-CHP External turning and facing P type (Negative rake, Lever-lock system)

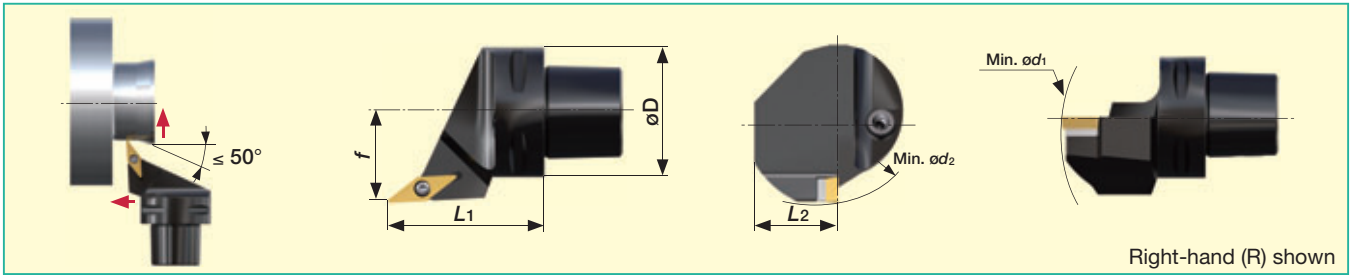


Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_{\epsilon}$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C5PDJNR/L35065-15-CHP			50	65	32	35	165	110	0.8	DN**1504**
C6PDJNR/L45065-15-CHP			63	65	41	45	190	125	0.8	DN**1504**

Applicable for 14 MPa pressure coolant

● : Stocked items

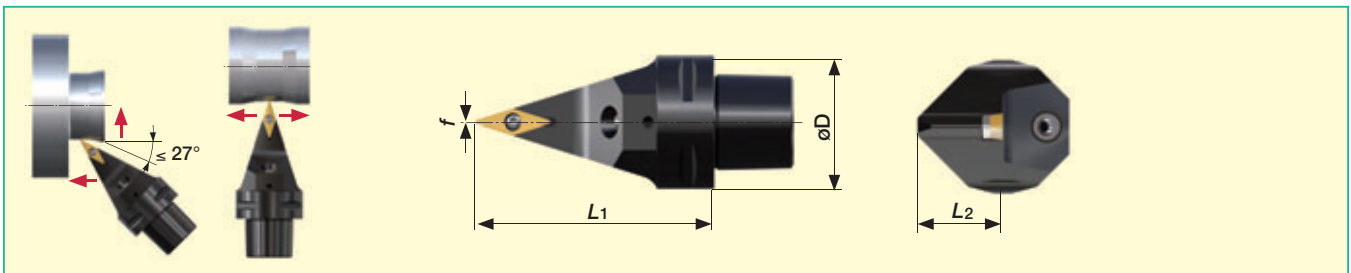
### C-SVJCR/L External turning and profiling S type (Positive rake, Screw on clamping system)



Cat. No.	Stock		Dimensions (mm)						Std. Corner radius $r_\epsilon$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$	$\phi d_1$	$\phi d_2$		
C4SVJCR/L27050-16N <sup>(2)</sup>			40	50	25	27	140	155	0.8	VC**1604**
C5SVJCR/L35060-16 <sup>(1)</sup>	●	●	50	60	32	35	-	-	0.8	VC**1604**
C5SVJCR/L35060-16N <sup>(2)</sup>	●	●	50	60	32	35	170	160	0.8	VC**1604**
C6SVJCR/L45065-16 <sup>(1)</sup>	●	●	63	65	41	45	-	-	0.8	VC**1604**
C6SVJCR/L45065-16N <sup>(2)</sup>	●	●	63	65	41	45	170	190	0.8	VC**1604**

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

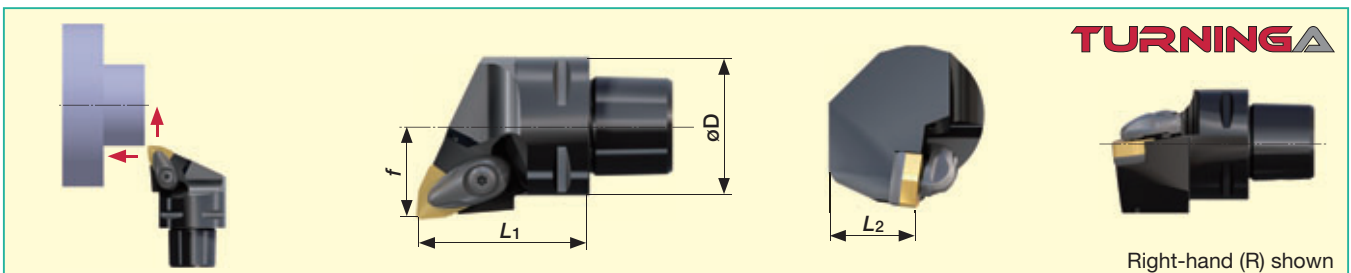
### C-SVVCN External turning and profiling S type (Positive rake, Screw on clamping system)



Cat. No.	Stock	Dimensions (mm)				Std. Corner radius $r_\epsilon$	Applicable inserts
		$\phi D$	$L_1$	$L_2$	$f$		
C5SVVCN00090-16 <sup>(1)</sup>	●	50	90	32	0	0.8	VC**1604**
C5SVVCN00090-16N <sup>(2)</sup>	●	50	90	32	0	0.8	VC**1604**
C5SVVCN00125-16 <sup>(1)</sup>	●	50	125	32	0	0.8	VC**1604**
C5SVVCN00125-16N <sup>(2)</sup>	●	50	125	32	0	0.8	VC**1604**
C6SVVCN00100-16 <sup>(1)</sup>	●	63	100	37.5	0	0.8	VC**1604**
C6SVVCN00100-16N <sup>(2)</sup>	●	63	100	37.5	0	0.8	VC**1604**
C6SVVCN00140-16 <sup>(1)</sup>	●	63	140	37.5	0	0.8	VC**1604**
C6SVVCN00140-16N <sup>(2)</sup>	●	63	140	37.5	0	0.8	VC**1604**

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

### C-AWLNR/L External turning and facing A type (Negative rake, Double-clamping system)











Cat. No.	Stock		Dimensions (mm)				Std. Corner radius $r_\epsilon$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$		
C4AWLNR/L27050-08N	●	●	40	50	25	27	0.8	WN**0804**







Applicable for 7 MPa pressure coolant

● : Stocked items







## ■ Parts for A type

Cat. No.	Shim	Shim screw	Clamp	Clamping screw	Spring	Spring pin	Wrench	Coolant nozzle
								
C*ACLNR/L...	ASC422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-M5
C*ACLNN...	ASC422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	(1) EZ83 (2) SATZ-M8X1-M3
C*ADJNR/L...	ASD423(04) (ASD432(06))	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	(1) EZ104 (2) SATZ-M10X1-M5
C*ADNNN..	ASD423(06) (ASD432(04))	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	(1) EZ104 (2) SATZ-M10X1-M5
C4AWLNR/L...	ASW422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	-








## ■ Parts for P type

Cat. No.	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant nozzle
						
C*PCLNR/L...	LSC42	LSP4	LCL4	LCS4	P-3	(1) EZ104 (2) SATZ-M8X1-M3
C*PDJNR/L...	ASD423(04) (ASD432(06))	LSP4(04) (LSP4S(06))	LCL4	LCS4	P-3	SATZ-M10X1-M5





## ■ Parts for S type

Shim	Shim screw	Clamping screw	Wrench	Wrench	Coolant nozzle
					
SSV32	DTS5-3.5	CSTB-3.5L	T-15F	P-3.5	(1) EZ104 (2) SATZ-M10X1-M5

## ■ Parts for CHP type

Toolholder Cat. No	Applicable inserts	Shim	Clamping screw	Wrench for clamping screw	Spring pin	Lever	Coolant screw	Wrench for coolant screw
								
C*PCLNR/L....-12-CHP	CN□□1204□□	LSC42	LCS4	P-3	LSP4	LCL4	SRM4X4 TL360	P-2
C*PDJNR/L....-15-CHP	DN□□1504□□	LSD43A	LCS4	P-3	LSP4	LCL4	SRM4X4 TL360	P-2

## Coolant set

Toolholder Cat. No	Applicable inserts	Coolant unit	Mounting screw	Wrench for mounting screw	O-ring
					
C*PCLNR/L....-12-CHP	CN□□1204□□	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N
C*PDJNR/L....-15-CHP	DN□□1504□□	CU-D-CHP	SRM3	T-8F	OR6.4X0.9N

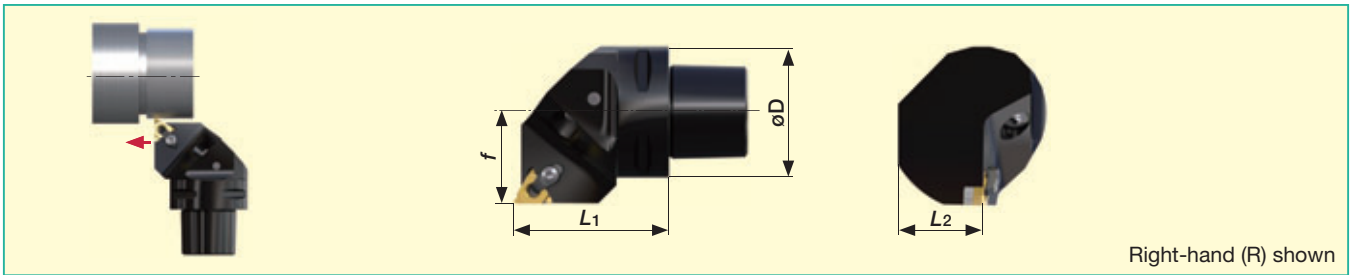
● : Stocked items

## ● Toolholders for threading

**C-CER/L**

External threading

Dual method clamp type (Screw-on / Clamp-on)










Right-hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner radius $r_{\epsilon}$	Applicable inserts
	R	L	$\phi D$	$L_1$	$L_2$	$f$		
<b>C4CER/L27050-16ERN</b> <sup>(2)</sup>			40	50	25	27	0.8	16ER/L
<b>C5CER/L35060-16ER</b> <sup>(1)</sup>	●	●	50	60	32	35	0.8	16ER/L
<b>C5CER/L35060-16ERN</b> <sup>(2)</sup>	●	●	50	60	32	35	0.8	16ER/L
<b>C6CER/L45065-16ER</b> <sup>(1)</sup>	●	●	63	65	41	45	0.8	16ER/L
<b>C6CER/L45065-16ERN</b> <sup>(2)</sup>	●	●	63	65	41	45	0.8	16ER/L

(1) Applicable for normal pressure coolant (2) Applicable for 7 MPa pressure coolant

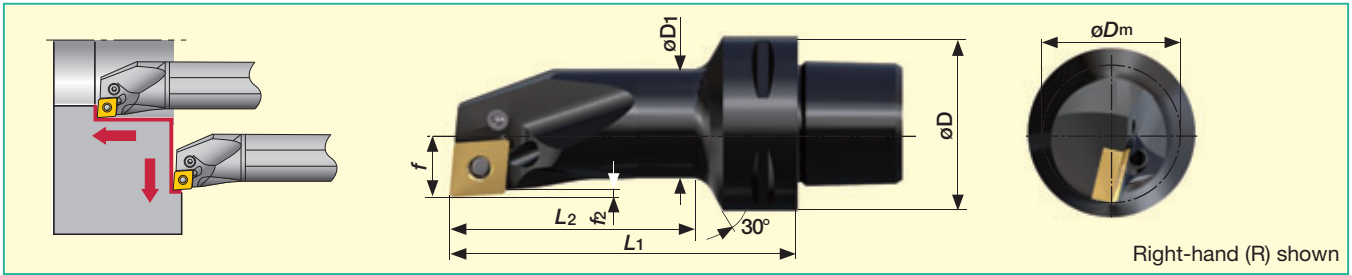
### ■ Parts

Shim	Shim screw	Clamping screw	Clamping set	Wrench	Wrench	Coolant nozzle
						
A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	(1) EZ104 (2) SATZ-M10X1-M5

● : Stocked items

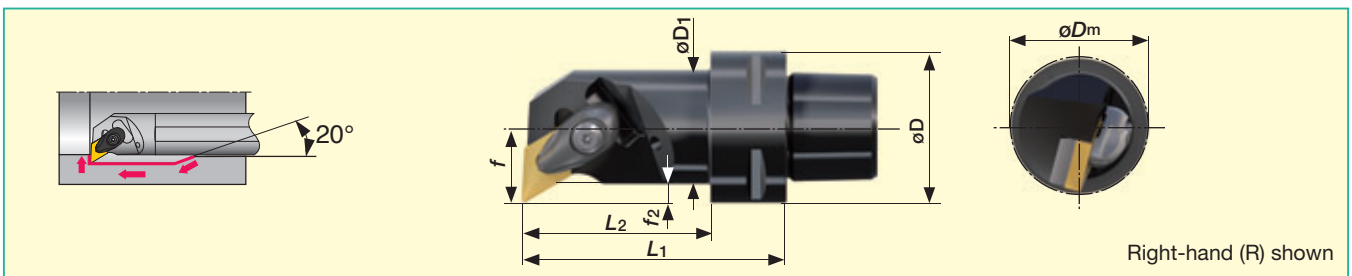
## ● Toolholders for internal turning

### **C-PCLNR/L** Internal turning and facing P type (Negative rake, Lever-lock system)



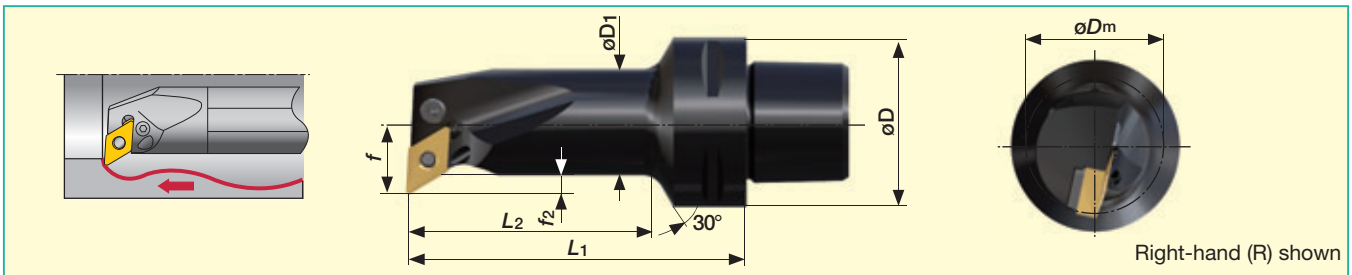
Cat. No.	Stock		Min. dia. øDm (mm)	Dimensions (mm)						Std. Corner radius r <sub>ε</sub>	Applicable inserts
	R	L		øD	øD1	L1	L2	f	f2		
<b>C4PCLNR/L17080-12</b>	●	●	32	40	25	80	58.5	17	1.6	0.8	CN**1204**

### **C-ADUNR/L** Internal turning and profiling A type (Negative rake, Double-clamping system)



Cat. No.	Stock		Min. dia. øDm (mm)	Dimensions (mm)						Std. Corner radius r <sub>ε</sub>	Applicable inserts
	R	L		øD	øD1	L1	L2	f	f2		
<b>C4ADUNR20070-15</b>	●		38	40	30	70	50	20	5	0.8	DN**1504**
<b>C4ADUNR27090-15</b>	●		50	40	40	90	-	27	7	0.8	DN**1504**








### **C-PDUNR/L** Internal turning and profiling P type (Negative rake, Lever-lock system)








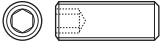
Cat. No.	Stock		Min. dia. øDm (mm)	Dimensions (mm)						Std. Corner radius r <sub>ε</sub>	Applicable inserts
	R	L		øD	øD1	L1	L2	f	f2		
<b>C4PDUNR/L17080-11</b>	●	●	32	40	25	80	58.5	17	4.4	0.4	DN**1104**

● : Stocked items

### ■ Parts for A type

Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench
						
ASD423(04)	SP-2.5	CSTB-3.5	ACP4S	ACS-5W	BP-7	T-15F

### ■ Parts for P type

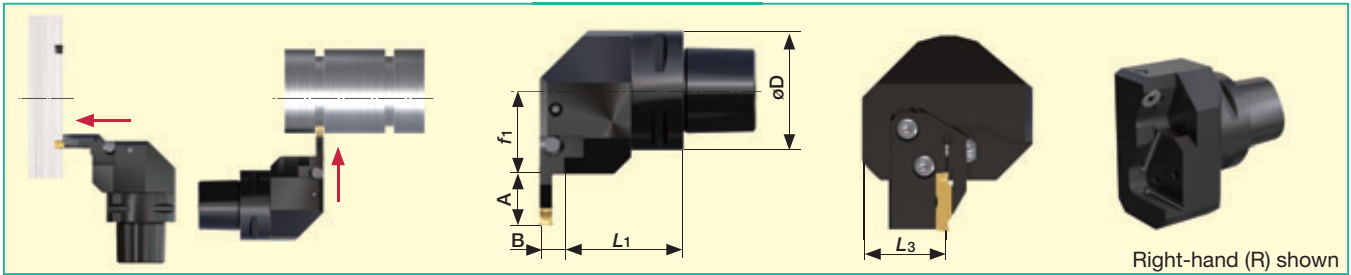
Cat. No.	Shim	Spring pin	Lever	Clamping screw	Wrench	Srcrow for coolant hole
						
<b>C*PCLNR/L...</b>	ELSD317B	LSP-3	LCL33L	LCS3	P-2.5	-
<b>C*PDUNR/L...</b>	-	-	LCL43N	LCS43	P-2.5	SSHM5-6

● : Stocked items

## ● Toolholders for grooving

### C-CHFVR/L Grooving

Horizontal type



Cat. No.	Stock		Dimensions (mm)					
	R	L	øD	L <sub>1</sub>	A	L <sub>3</sub>	f <sub>1</sub>	B
C4CHFVR/L27050N <sup>(2)</sup>			40	42.5	Table*	36	27	Table*
C5CHFVR/L35060 <sup>(1)</sup>		●	50	49.5	Table*	36	35	Table*
C5CHFVR/L35060N <sup>(2)</sup>	●	●	50	49.5	Table*	36	35	Table*
C6CHFVR/L45065 <sup>(1)</sup>			63	54.5	Table*	41	45	Table*
C6CHFVR/L45065N <sup>(2)</sup>	●	●	63	54.5	Table*	41	45	Table*

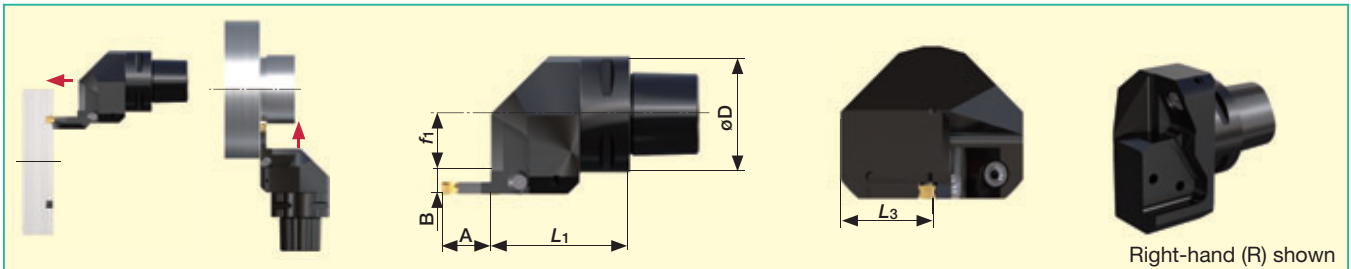
\*See the below table for offset dimensions

### ■ Combination of blade and toolholder

Toolholders	Blades			
	CAER□□□	CAEL□□□	CAFR□□□	CAFL□□□
CHFVR***		●	●	
CHFVL***	●			●

### C-CHSR/L Grooving

Vertical type



Cat. No.	Stock		Dimensions (mm)					
	R	L	øD	L <sub>1</sub>	A	L <sub>3</sub>	f <sub>1</sub>	B
C4CHSR/L27050N <sup>(2)</sup>	●	●	40	50	Table*	36	16.5	Table*
C5CHSR/L35060 <sup>(1)</sup>	●	●	50	60	Table*	36	24.5	Table*
C5CHSR/L35060N <sup>(2)</sup>	●	●	50	60	Table*	36	24.5	Table*
C6CHSR/L45065 <sup>(1)</sup>			63	65	Table*	41	34.5	Table*
C6CHSR/L45065N <sup>(2)</sup>	●	●	63	65	Table*	41	34.5	Table*

\*See the below table for offset dimensions

### ■ Parts

Clamping screw	Wrench	Coolant nozzle	Coolant pipe
CSHB-6-A	P-4	(1) CNZ125 (2) SATZ-M10X1-M5	(1) PNZ5 (2) -

### ■ Combination of blade and toolholder

Toolholders	Blades			
	CAER□□□	CAEL□□□	CAFR□□□	CAFL□□□
CHSR***	●			●
CHSL***		●	●	

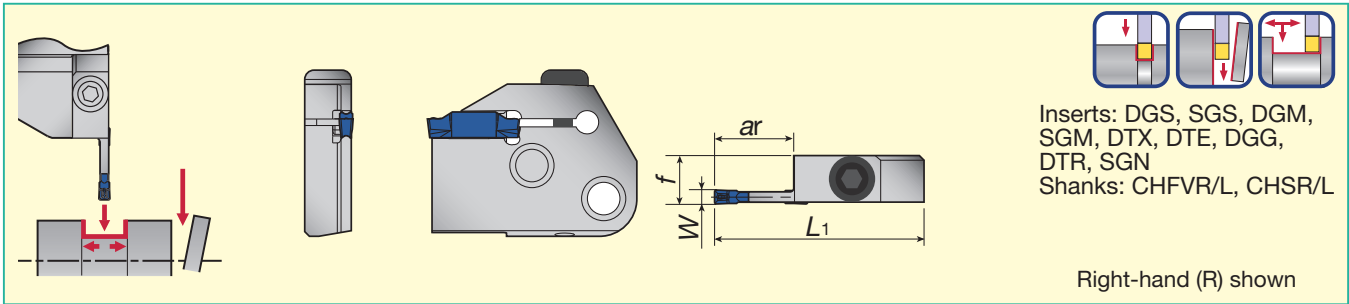
### ■ Table: Offset dimensions for blade

Application	Blades	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

● : Stocked items

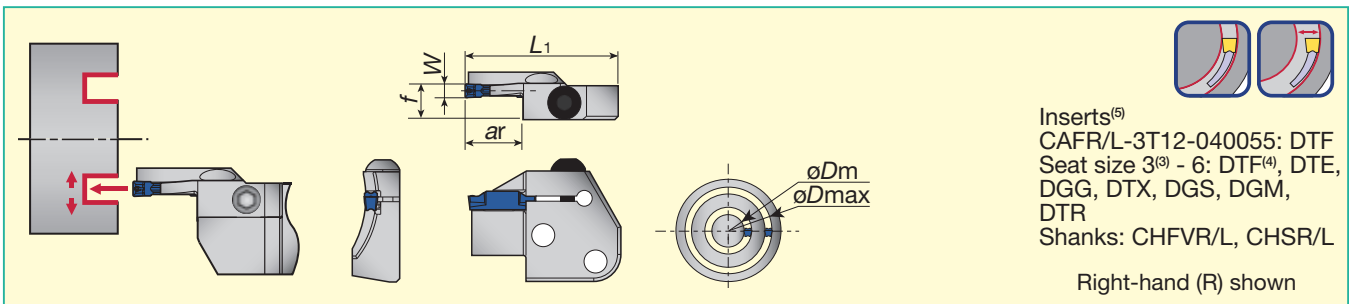


## CAE R/L Blades for external grooving and turning



Insert seat size	Cat. No.	Stock		*Max. groove depth ar (mm)	Dimensions (mm)			Parts	
		R	L		L <sub>1</sub>	f	W	Clamping screw	Wrench
3	CAER/L-3T16	●	●	16	45	10.4	3	BHM6-20-A	P-4
4	CAER/L-4T16	●	●	16	45	10.5	4	BHM6-20-A	P-4
5	CAER/L-5T20	●	●	20	49	10.5	5	BHM6-20-A	P-4
6	CAER/L-6T20	●	●	20	49	10.5	6	BHM6-20-A	P-4

## CAF R/L Blades for face grooving and turning



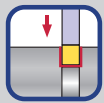
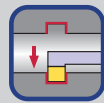

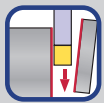

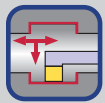

Insert seat size	Cat. No.	Stock		Min. dia. øDm (mm)	Max. dia. øDm (mm)	Max. groove depth ar (mm)	Dimensions (mm)			Parts	
		R	L				L <sub>1</sub>	f <sup>(2)</sup>	W	Clamping screw	Wrench
3	CAFR/L-3T12-040055	●	●	40	55	12	45	10.4	3	BHM6-20-A	P-4
3	CAFR/L-3T12-055075	●	●	55	75	12	45	10.4	3	BHM6-20-A	P-4
3	CAFR/L-3T12-075100	●	●	75	100	12	45	10.4	3	BHM6-20-A	P-4
3	CAFR/L-3T12-100140	●	●	100	140	12	45	10.4	3	BHM6-20-A	P-4
3	CAFR/L-3T12-140200	●	●	140	200	12	45	10.4	3	BHM6-20-A	P-4
4	CAFR/L-4T16-050070	●	●	50	70	16	45	10.5	4	BHM6-20-A	P-4
4	CAFR/L-4T16-070100	●	●	70	100	16	45	10.5	4	BHM6-20-A	P-4
4	CAFR/L-4T16-100150	●	●	100	150	16	45	10.5	4	BHM6-20-A	P-4
4	CAFR/L-4T16-150250	●	●	150	250	16	45	10.5	4	BHM6-20-A	P-4
5	CAFR/L-5T20-055080	●	●	55	80	20	49	10.5	5	BHM6-20-A	P-4
5	CAFR/L-5T20-080120	●	●	80	120	20	49	10.5	5	BHM6-20-A	P-4
5	CAFR/L-5T20-120180	●	●	120	180	20	49	10.5	5	BHM6-20-A	P-4
5	CAFR/L-5T20-180300	●	●	180	300	20	49	10.5	5	BHM6-20-A	P-4
5	CAFR/L-5T20-300000	●	●	300	∞	20	49	10.5	5	BHM6-20-A	P-4
6	CAFR/L-6T25-060090	●	●	60	90	25 <sup>(1)</sup>	55	10.5	6	BHM6-20-A	P-4
6	CAFR/L-6T25-090150	●	●	90	150	25 <sup>(1)</sup>	55	10.5	6	BHM6-20-A	P-4
6	CAFR/L-6T25-150250	●	●	150	250	25 <sup>(1)</sup>	55	10.5	6	BHM6-20-A	P-4
6	CAFR/L-6T25-250400	●	●	250	400	25 <sup>(1)</sup>	55	10.5	6	BHM6-20-A	P-4

- (1) When groove depth is beyond the value of insert full length -1.5 mm, 1-conered insert is recommended.
- (2) The value "f" is the dimension when the insert with groove width (W) in the above table is attached.
- (3) Not applicable for CAFR/L-3T12-040055
- (4) Seat sizes of DTF are only 3 and 4.

(5) Min. diameter øDm of DTE, DGS and DGM insert

Inserts	øDm (mm)	Note
DTE 3 / DGS 3 / DGM 3	ø44	When diameter is smaller than øDm, DTF or DTX type insert is recommended.
DTE 4 / DGS 4 / DGM 4	ø42	
DTE 5 / DGS 5 / DGM 5	ø50	
DTE 6 / DGS 6 / DGM 6	ø48	

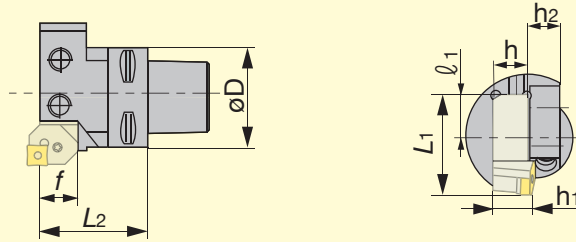
■ Insert application

Insert	Application						
	Grooving			Parting	Turning		
	External	Internal	Face		External	Internal	Face
							
DGM / SGM	●		●	●			
DGS / SGS	●		●	●			
DTE	●		●		●		●
DGG	●		●				
DGE	●						
DTX	●	●	●	●	●	●	●
DTI		●				●	
DGIM / DGIS		●					
DTF			●				●
DTR	●		●		●		●
DTIU	● Undercutting	● Undercutting					
DTA					● AI wheel machining	● AI wheel machining	
SGN	●						

● : Stocked items

# Adapters

## C-ADER/L Adapters for square shank toolholders

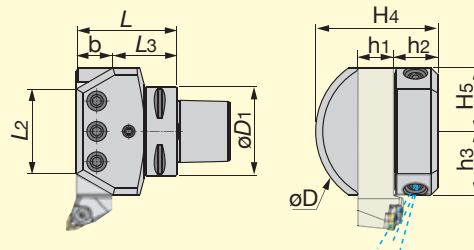


Left-hand (L) shown

Cat. No.	Stock		Dimensions (mm)								Clamp screw
	R	L	øD	L <sub>2</sub>	f	h	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	ø <sub>1</sub>	
C3ADE-16R/L			32	45	16	16	16	20	45	20	SRM10X20DIN91545H
C4ADE-20R/L	●	●	40	49.2	20	20	20	26	57	32	SRM10X20DIN912
C5ADE-20R/L	●	●	50	55.2	20	20	20	26	57	32	SRM10X16

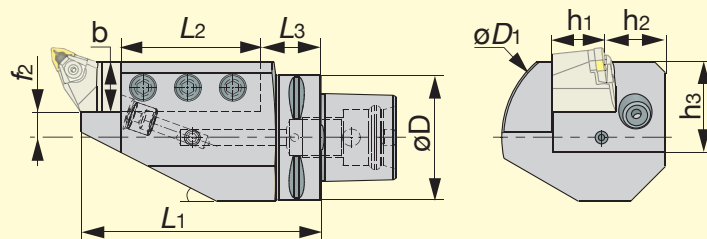
Shank length of toolholder must be shorter than 67 mm

## C-ASHA Adapters for square shank toolholders



Cat. No.	Stock	Dimensions (mm)										
		øD <sub>1</sub>	h <sub>1</sub>	b	L	L <sub>2</sub>	L <sub>3</sub>	h <sub>3</sub>	H <sub>5</sub>	h <sub>2</sub>	H <sub>4</sub>	øD
C5ASHA20		50	20	20	58	46	38	38	38	31.5	76.5	90
C6ASHA20		63	20	20	60	46	40	38	38	31.5	76.5	90
C6ASHA25		63	25	25	71	61	46	45	45	31.6	86.6	110

## C-ASHR/L Adapters for square shank toolholders



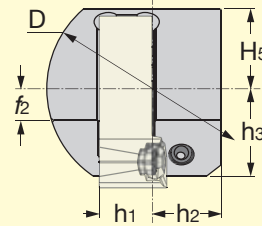
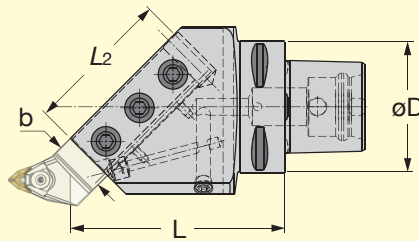
Left-hand (L) shown

Cat. No.	Stock		Dimensions (mm)										Clamp screw
	R	L	øD	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	f <sub>2</sub>	h <sub>1</sub>	b	h <sub>2</sub>	h <sub>3</sub>	øD <sub>1</sub>	
C5ASHR/L201	●	●	50	98	63.5	24.5	10	20	20	33	30	90	SRM10X25DIN91545H
C6ASHR/L251	●	●	63	120	70	30	13	25	25	32	38	100	SRM12X30DIN91545H
C8ASHR/L32-1			80	140	95	35	8	32	32	32	40	110	SRM12X30DIN91545H

Please check the shank length of the tool holder as the length may need to be shortened.

● : Stocked items

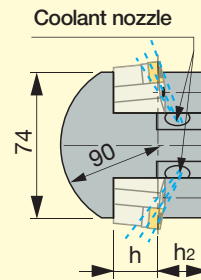
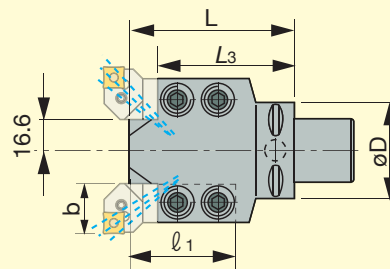
## C-ASHR/L-45 Adapters for square shank toolholder with 45° slanted



A left-hand tool in a right-hand adapter is shown

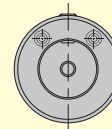
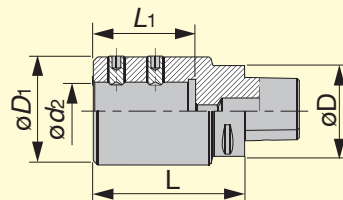
Cat. No.	Stock		Dimensions (mm)									
	R	L	øD	h1	b	L2	L	h2	h3	H5	f2	D
C5ASHR/L20-45			50	20	20	-	127	26	36	31.5	15	72
C6ASHR/L20-45			63	20	20	70	102	33	41.6	38	15	72
C6ASHR/L25-45			63	25	25	70	102	33	41.6	38	15	100

## C-ADES Adapters for square shank toolholders



Cat. No.	Stock	Dimensions (mm)						
		øD	L	L3	h	h2	b	l1
C4ADES-20		40	85	71	20	26	20	54
C5ADES-20		50	85	71	20	26	20	54

## C-ABB Adapters for boring bars with sleeves



Cat. No.	Stock	Dimensions (mm)					Clamp screw	
		øD	ød2	øD1	L	L1	Used on A-type sleeves	Used on B-type sleeves
C5ABB-25-60	●	50	25	63	100	60	SRM10X20DIN915	SRM10X12DIN1835-B
C6ABB-25-60	●	63	25	63	100	60	SRM10X20DIN915	SRM10X12DIN1835-B
C6ABB-40-70	●	63	40	75	105	71	SRM12X20DIN915	SRM12X16DIN1835-B
C8ABB25-60		80	25	63	100	60	SRM10X20DIN915	SRM10X12DIN1835-B
C8ABB40-72		80	40	75	105	71	SRM12X20DIN915	SRM12X16DIN1835-B

● : Stocked items

# SC

## Sleeves for C-ABB adapters

Fig. A

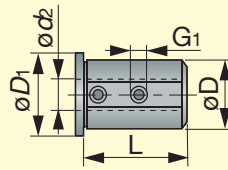
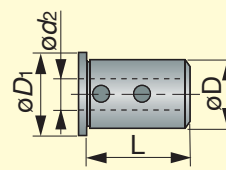


Fig. B

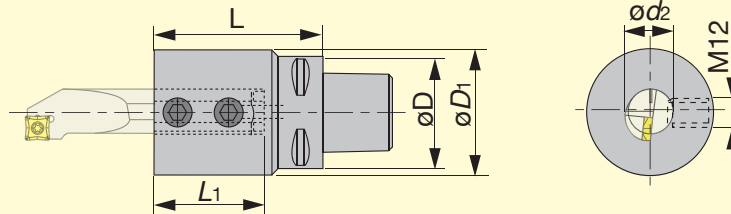


Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	G <sub>1</sub>	Fig.
SC25T6A	●	25	6	31	56	M6	A
SC25T8A	●	25	8	31	56	M8	A
SC25T10A	●	25	10	31	56	M8	A
SC25T12A	●	25	12	31	56	M8	A
SC25T16B	●	25	16	31	56	-	B
SC25T20B	●	25	20	31	56	-	B
SC40T6A	●	40	6	46	58	M6	A

Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	G <sub>1</sub>	Fig.
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	-	B
SC40T20B	●	40	20	46	58	-	B
SC40T25B	●	40	25	46	58	-	B
SC40T32B	●	40	32	46	58	-	B

# C-ADI

## Adapters for boring bars

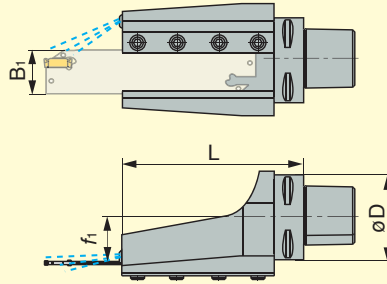


Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	L	L <sub>1</sub>	$\varnothing d_2$	$\varnothing D_1$	G <sub>1</sub>
C4ADI10	●	40	50	20	10	36	M6
C4ADI12	●	40	50	24	12	36	M8
C4ADI16	●	40	50	32	16	36	M8
C4ADI20	●	40	60	35	20	36	M10
C4ADI25	●	40	70	45	25	54	M12
C5ADI10		50	60	26	10	36	M6
C5ADI12		50	60	26	12	36	M8
C5ADI16		50	60	32	16	36	M8
C5ADI20	●	50	75	49	20	55	M12
C5ADI25	●	50	85	60	25	60	M12
C5ADI32		50	100	76	32	68	M12
C6ADI12		60	65	36	12	36	M8
C6ADI16		60	65	36	16	36	M8

Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	L	L <sub>1</sub>	$\varnothing d_2$	$\varnothing D_1$	G <sub>1</sub>
C6ADI20		60	65	40	20	36	M10
C6ADI25		60	76	51	25	54	M12
C6ADI32		60	100	76	32	68	M12
C6ADI40		60	100	76	40	98	M12
C6ADI50		60	115	76	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

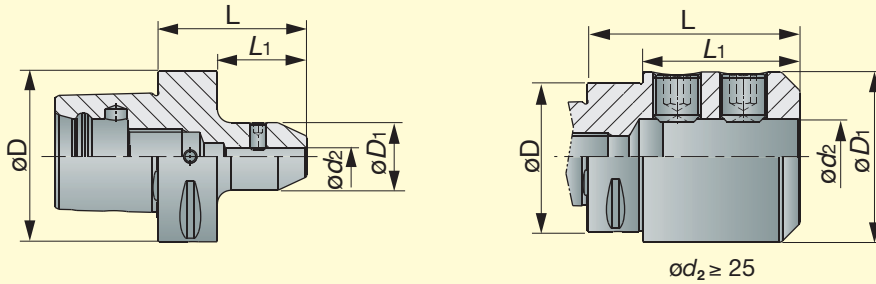
● : Stocked items

## C-TBK-R/L Adapters for parting-off blades



Cat. No.	Stock	Dimensions (mm)			
		øD	f <sub>1</sub>	L	B <sub>1</sub>
C6TBK-32L		63	32.0	138	32
C6TBK-32R		63	32.0	138	32

## C-EM Side-lock holders for weldon endmills (DIN1835 Form B)



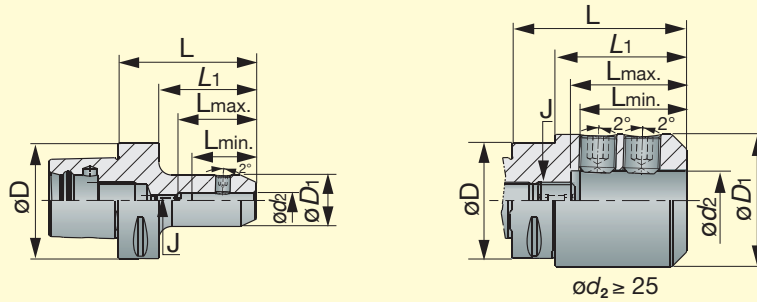
Cat. No.	Stock	Dimensions (mm)				
		øD	ød <sub>2</sub>	øD <sub>1</sub>	L	L <sub>1</sub>
C3EM6X45		32	6	25	45	25
C3EM8X45		32	8	28	45	25
C3EM10X50		32	10	35	50	30
C3EM12X55		32	12	42	55	35
C4EM06X50		40	6	25	50	30
C4EM08X50		40	8	28	50	30
C4EM10X50		40	10	35	50	30
C4EM12X55	●	40	12	42	55	35
C4EM14X55		40	14	44	55	35
C4EM16X60	●	40	16	48	60	40
C5EM06X50		50	6	25	50	30
C5EM08X50		50	8	28	50	30
C5EM10X55		50	10	35	55	35
C5EM12X60	●	50	12	42	60	40
C5EM14X60		50	14	44	60	40
C5EM16X60	●	50	16	48	60	40
C5EM18X60	●	50	18	50	60	40
C5EM20X60	●	50	20	52	60	40
C5EM25X85	●	50	25	65	85	65
C6EM6X55		63	6	25	55	33
C6EM8X55		63	8	28	55	33

Cat. No.	Stock	Dimensions (mm)				
		øD	ød <sub>2</sub>	øD <sub>1</sub>	L	L <sub>1</sub>
C6EM10X60		63	10	35	60	38
C6EM12X60	●	63	12	42	60	38
C6EM14X60		63	14	44	60	38
C6EM16X65	●	63	16	48	65	43
C6EM18X65	●	63	18	50	65	43
C6EM20X65	●	63	20	52	65	43
C6EM25X80	●	63	25	65	80	58
C6EM32X90	●	63	32	72	90	68
C6EM40X100		63	40	90	100	78
C8EM06X70		80	6	25	70	40
C8EM08X70		80	8	28	70	40
C8EM10X70		80	10	35	70	40
C8EM12X70		80	12	42	70	40
C8EM14X70		80	14	44	70	40
C8EM16X70		80	16	48	70	40
C8EM18X70		80	18	50	70	40
C8EM20X70		80	20	52	70	40
C8EM25X90		80	25	65	90	60
C8EM32X95		80	32	72	95	65
C8EM40X110		80	40	90	110	80
C8EM50X120		80	50	98	120	90

● : Stocked items

# C-EM-E

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



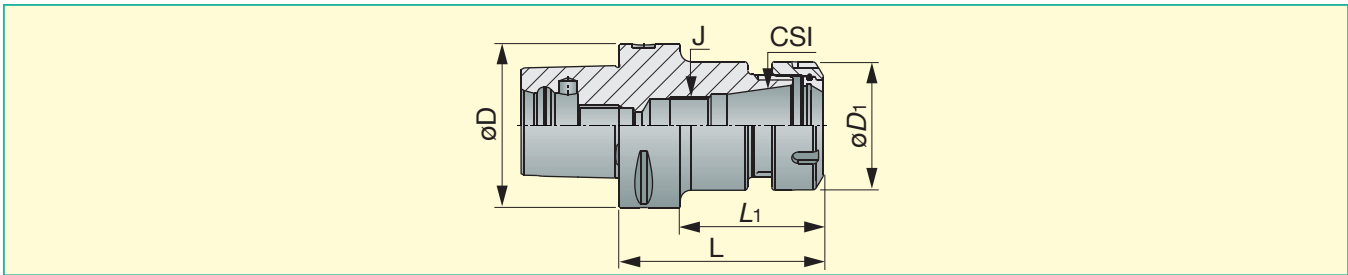
Cat. No.	Stock	Dimensions (mm)							
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	$\frac{L}{\text{Min. Max.}}$	$L_1$	J	
C4EM06X70E		40	6	25	70	30	35	50	M5
C4EM08X70E		40	8	28	70	35	43	50	M6
C4EM10X70E		40	10	35	70	39	45	50	M8
C4EM12X75E		40	12	42	75	44	49	55	M10
C4EM14X75E		40	14	44	75	44	49	55	M10
C5EM06X70E		50	6	25	70	30	35	50	M5
C5EM08X70E		50	8	28	70	35	43	50	M6
C5EM10X70E		50	10	35	70	39	45	50	M8
C5EM12X75E	●	50	12	42	75	44	49	55	M10
C5EM14X75E		50	14	44	75	44	49	55	M10
C5EM16X80E	●	50	16	48	80	47	52	60	M12
C5EM18X80E		50	18	50	80	47	52	60	M12
C5EM20X85E	●	50	20	52	85	49	55	65	M16
C6EM6X75E		63	6	25	75	30	36	53	M5
C6EM8X75E		63	8	28	75	35	43	53	M6
C6EM10X75E		63	10	35	75	39	46	53	M8
C6EM12X80E	●	63	12	42	80	44	49	58	M10

Cat. No.	Stock	Dimensions (mm)							
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	$\frac{L}{\text{Min. Max.}}$	$L_1$	J	
C6EM14X80E		63	14	44	80	44	49	58	M10
C6EM16X85E	●	63	16	48	85	47	52	63	M12
C6EM18X85E		63	18	50	85	47	52	63	M12
C6EM20X85E	●	63	20	52	85	49	55	63	M16
C6EM25X90E	●	63	25	65	90	54	60	68	M20
C6EM32X95E	●	63	32	72	95	58	63	73	M20
C8EM06X65E		80	6	25	65	30	36	35	M5
C8EM08X65E		80	8	28	65	35	43	35	M6
C8EM10X65E		80	10	35	65	39	46	35	M8
C8EM12X70E		80	12	42	70	44	49	40	M10
C8EM14X70E		80	14	44	70	44	49	40	M10
C8EM16X75E		80	16	48	75	47	52	45	M12
C8EM18X75E		80	18	50	75	47	52	45	M12
C8EM20X80E		80	20	52	80	49	57	50	M16
C8EM25X90E		80	25	65	90	54	60	60	M20
C8EM32X95E		80	32	72	95	58	64	65	M20

● : Stocked items

# Collet chuck holders

## **C-ER** ER collet chuck holders (DIN6499)



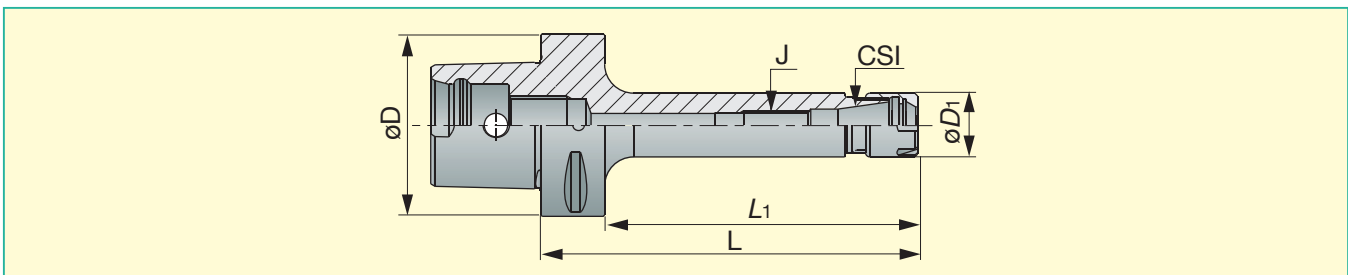
Cat. No.	Stock	Range		Dimensions (mm)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C3 ER16X45	●	1	10	32	ER16	28	45	25	M10
C3 ER20X45	●	1	13	32	ER20	34	45	25	-
C4ER16X70	●	1	10	40	ER16	28	70	50	M10
C4ER20X35*	●	1	13	40	ER20	34	35	27	-
C4ER20X52	●	1	13	40	ER20	34	52	32	-
C4ER25X38*	●	1	16	40	ER25	42	38	30	-
C4ER25X52	●	1	16	40	ER25	42	52	32	-
C4ER32X54	●	2	20	40	ER32	50	54	34	-
C5ER16X100	●	1	10	50	ER16	28	100	80	M10
C5ER16X130	●	1	10	50	ER16	28	130	120	M10
C5ER20X055	●	1	13	50	ER20	34	55	35	-
C5ER20X100	●	1	13	50	ER20	34	100	80	M12
C5ER20X130	●	1	13	50	ER20	34	130	120	M12
C5ER25X055	●	1	16	50	ER25	42	55	35	-
C5ER25X100	●	1	16	50	ER25	42	100	80	M16
C5ER32X057	●	2	20	50	ER32	50	57	36	-
C5ER32X100	●	2	20	50	ER32	50	100	80	M22X1.5
C6ER16X100	●	1	10	63	ER16	28	100	78	M10
C6ER16X130	●	1	10	63	ER16	28	130	108	M10
C6ER16X160	●	1	10	63	ER16	28	160	138	M10
C6ER20X060	●	1	13	63	ER20	34	60	38	-

Cat. No.	Stock	Range		Dimensions (mm)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C6ER20X100	●	1	13	63	ER20	34	100	78	M12
C6ER20X130	●	1	13	63	ER20	34	130	108	M12
C6ER20X160	●	1	13	63	ER20	34	160	138	M12
C6ER25X060	●	1	16	63	ER25	42	60	38	-
C6ER25X100	●	1	16	63	ER25	42	100	78	M16
C6ER25X130	●	1	16	63	ER25	42	130	108	M16
C6ER25X160	●	1	16	63	ER25	42	160	138	M16
C6ER32X060	●	2	20	63	ER32	50	60	36	-
C6ER32X100	●	2	20	63	ER32	50	100	78	M22X1.5
C6ER32X130	●	2	20	63	ER32	50	130	108	M22X1.5
C6ER32X160	●	2	20	63	ER32	50	160	138	M22X1.5
C6ER40X065	●	3	26	63	ER40	63	65	37	-
C6ER40X100	●	3	26	63	ER40	63	100	78	M28X1.5
C6ER40X130	●	3	26	63	ER40	63	130	108	M28X1.5
C8ER32X70	●	2	20	80	ER32	50	70	40	-
C8ER32X100	●	2	20	80	ER32	50	100	70	M22x1.5
C8ER32X160	●	2	20	80	ER32	50	160	130	M22x1.5
C8ER40X70	●	3	26	80	ER40	63	70	40	-
C8ER40X100	●	3	26	80	ER40	63	100	70	M28x1.5
C8ER40X160	●	3	26	80	ER40	63	160	130	M28x1.5

Wrench P. 25      ER Collet P. 26

Wrench is not included  
\*Without V grooves, for manual use only.

## **C-ER-M** Mini ER collet chuck holders (DIN 6499)



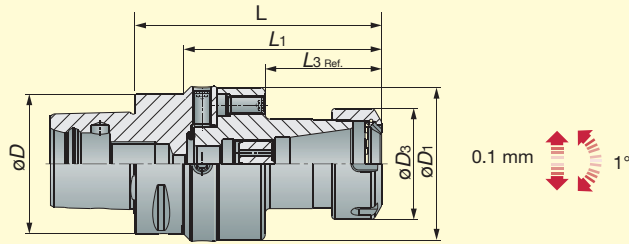
Cat. No.	Stock	Range		Dimensions (mm)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C4ER16X70M	●	0.5	10	40	ER16	22	70	50	M10
C5ER16X100M	●	0.5	10	50	ER16	22	100	80	M10
C5ER16X130M	●	0.5	10	50	ER16	22	130	120	M10
C6ER16X100M	●	0.5	10	63	ER16	22	100	78	M10
C6ER16X130M	●	0.5	10	63	ER16	22	130	108	M10
C6ER16X160M	●	0.5	10	63	ER16	22	160	138	M10

Wrench is not included      Wrench Preset Screw P. 25      ER Collet P. 26

● : Stocked items



## ADJ C-ER Center alignment collet chuck holders



Dimensions (mm)

Cat. No.	Stock	øD	CSI	Range		øD1	øD3	L	L1	L3
				Min.	Max.					
ADJC5ER32		50	ER32	2	20	70	50	115.0	95.0	52.5
ADJC6ER32		63	ER32	2	20	70	50	111.5	89.5	52.5

## WRENCH-ER / ER DIN 6499 (Wrench)

Fig. 1

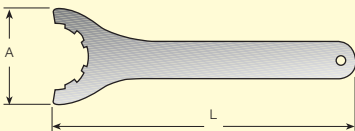


Fig. 2

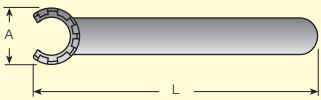
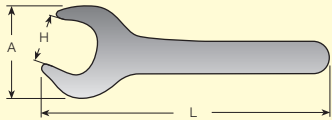


Fig. 3



Cat. No.	Stock	Dimensions (mm)			Fig.
		A	H	L	
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 screws)

Fig. 1

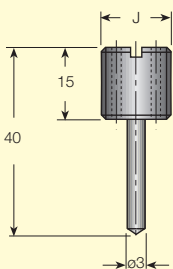
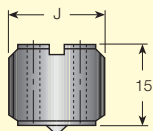


Fig. 2



Cat. No.	Stock	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

● : Stocked items

## ER collet

### ER11

1 Collet size	
ER11	11
ER16	16
ER20	20
ER25	25
ER32	32
ER40	40

### SPR

2 Collet type	
SPR	Standard type
SEAL	Sealed type


### 0.5-1

3 Diameter range (mm)	
0.5-1	0.5-1
1-2	1-2
⋮	⋮


### AA

4 Additional feature	
AA	Ultra precision
JET2	External coolant


#### 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	 <p>ULTRA PRECISION AA</p>					
21-22						
22-23						
23-24						
24-25						
25-26						


#### ER□□SPR□-□

Range (mm)	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						

#### ER□□SEAL□-□

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					

#### ER□□SEAL□-□JET2

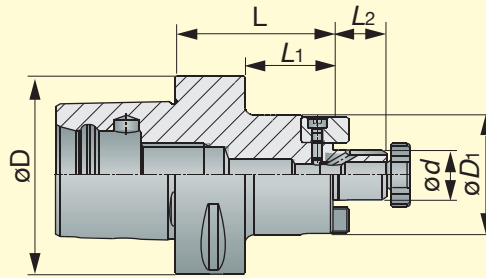
Range (mm)	Sealed type JET2 for external coolant supply				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4	●	●	●	●	
4-5	●	●	●	●	
5-6	●	●	●	●	
6-7	●	●	●	●	
7-8	●	●	●	●	
8-9	●	●	●	●	
9-10	●	●	●	●	
10-11		●	●	●	
11-12		●	●	●	
12-13			●	●	
13-14			●	●	
14-15			●	●	
15-16				●	
16-17				●	
17-18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

□ : Not available

● : Stocked items

# C-SEM

## Shell mill holders with coolant hole

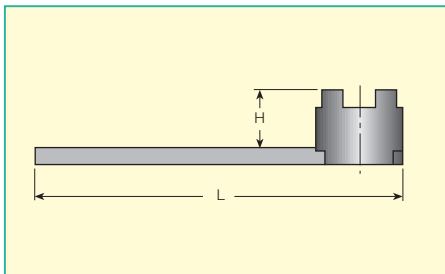


Cat. No.	Stock	Dimensions (mm)					
		øD	ød	øD1	L	L2	L1
C4SEM16X32C		40	16	38	32	12	17
C4SEM16X55C		40	16	38	55	35	17
C4SEM22X40C		40	22	47	40	20	19
C4SEM22X55C		40	22	47	55	35	19
C5SEM16X35C	●	50	16	38	35	17	15
C5SEM16X70C		50	16	38	70	17	50
C5SEM22X35C	●	50	22	47	35	19	15
C5SEM25.4X37C	●	63	25.4	50	37	22	-
C5SEM22X70C		50	22	47	70	19	50
C5SEM27X40C		50	27	58	40	21	20
C5SEM31.75X60C	●	63	31.75	64	60	30	-
C5SEM32X40C		50	32	63	40	24	20
C6SEM16X50C	●	63	16	38	50	17	28
C6SEM16X100C		63	16	38	100	17	78
C6SEM22X50C	●	63	22	47	50	19	28
C6SEM22X100C		63	22	47	100	19	78
C6SEM25.4X37C	●	63	25.4	50	37	22	-
C6SEM27X60C		63	27	58	60	21	38

Cat. No.	Stock	Dimensions (mm)					
		øD	ød	øD1	L	L2	L1
C6SEM27X100C		63	27	58	100	21	78
C6SEM31.75X60C	●	63	31.75	64	60	30	-
C6SEM32X60C		63	32	66	60	24	38
C6SEM38.1X60C	●	63	38.1	80	60	34	-
C6SEM40X60C		63	40	82	60	27	38
C8SEM16X50C		80	16	38	50	20	17
C8SEM16X100C		80	16	38	100	70	17
C8SEM22X50C		80	22	47	50	20	19
C8SEM22X100C		80	22	47	100	70	19
C8SEM25.4X50C	●	80	25.4	50	50	22	20
C8SEM27X50C		80	27	58	50	20	21
C8SEM27X100C		80	27	58	100	70	21
C8SEM31.75X50C	●	80	31.75	64	50	30	20
C8SEM32X50C		80	32	66	50	20	24
C8SEM32X100C		80	32	66	100	70	24
C8SEM38.1X50C	●	80	38.1	80	50	34	-
C8SEM40X60C		80	40	82	60	30	27

Wrench is not included

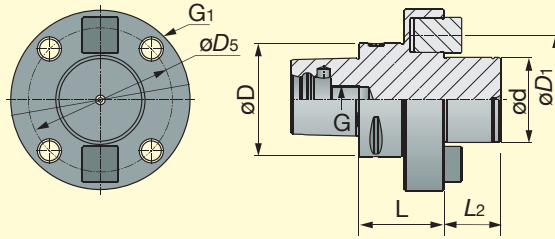
### WRENCH SEMC / DIN 6368 (Option)



Cat. No.	Stock	Dimensions (mm)			
		Inner diameter of cutter body ø	Screw size	H	L
WRENCHM8SEMC16	●	16	M8	20	180
WRENCHM10SEMC22	●	22	M10	25	200
WRENCHM12SEMC27	●	27	M12	32	225
WRENCHM16SEMC32	●	32	M16	36	250
WRENCHM20SEMC40	●	40	M20	40	280
WRENCHM24SEMC50	●	50	M24	50	315

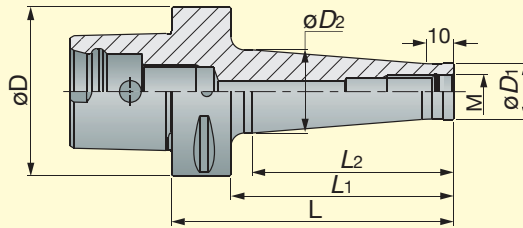
● : Stocked items

## C-FM Shell mill holders



Cat. No.	Stock	Dimensions (mm)							
		øD	ød	L <sub>2</sub>	L	øD <sub>1</sub>	øD <sub>5</sub>	G <sub>1</sub>	G
<b>C8FM60X60</b>		80	60	20	40	128	101.6	M16	M20

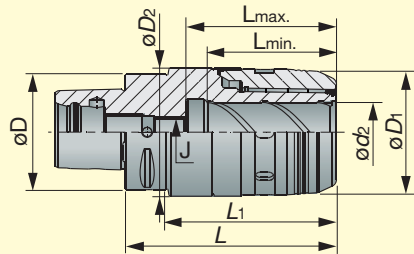
## C-ODP Indexable modular holders with threaded connection



Cat. No.	Stock	Dimensions (mm)						
		M	øD	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	L <sub>2</sub>
<b>C4ODP10X53</b>		M10	40	18	23	53	33	23
<b>C4ODP12X53</b>		M12	40	21	26	53	33	23
<b>C4ODP16X53</b>		M16	40	29	34	53	33	23
<b>C5ODP10X53</b>		M10	50	18	19.5	53	33	25
<b>C5ODP10X103</b>		M10	50	18	28	103	83	75
<b>C5ODP12X53</b>		M12	50	21	23.5	53	33	25
<b>C5ODP12X103</b>		M12	50	21	31	103	83	75
<b>C5ODP16X53</b>		M16	50	29	34	53	33	25
<b>C5ODP16X103</b>		M16	50	29	36	103	83	75

Cat. No.	Stock	Dimensions (mm)						
		M	øD	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	L <sub>2</sub>
<b>C6ODP10X55</b>		M10	63	18	19.5	55	33	25
<b>C6ODP10X105</b>		M10	63	18	28	105	83	75
<b>C6ODP10X130</b>		M10	63	18	32	130	108	100
<b>C6ODP12X55</b>		M12	63	21	23.5	55	33	25
<b>C6ODP12X105</b>		M12	63	21	31	105	83	75
<b>C6ODP12X130</b>		M12	63	21	36	130	108	100
<b>C6ODP16X55</b>		M16	63	29	34	55	33	25
<b>C6ODP16X105</b>		M16	63	29	34	105	83	75
<b>C6ODP16X130</b>		M16	63	29	41	130	108	100

## C-MAXIN Power chuck holders



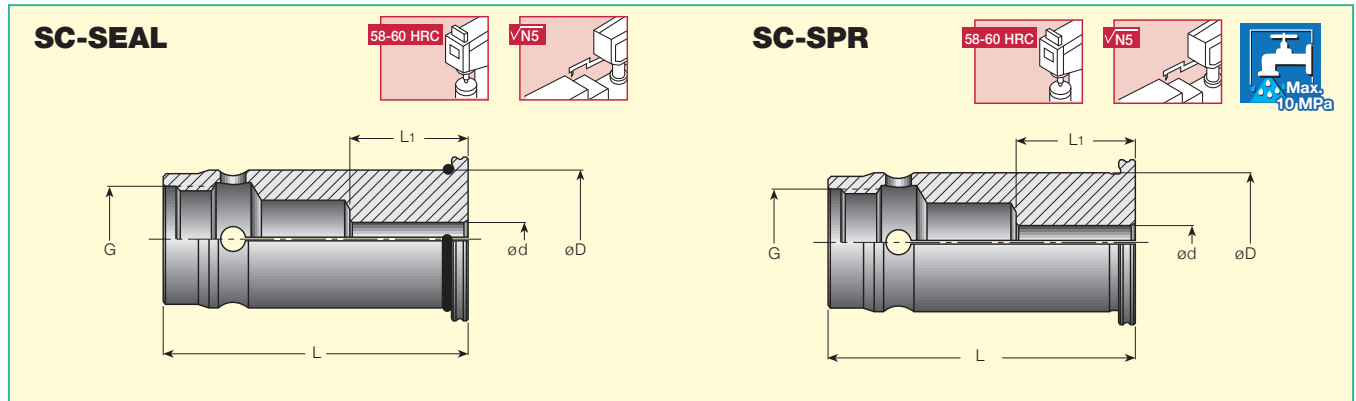
Cat. No.	Stock	Dimensions (mm)										
		øD	Range		ød <sub>2</sub>	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	L		J
			Min.	Max.						Min.	Max.	
<b>C5MAXIN20X100</b>	●	50	6	20	20	51	53	100	75	55	67	M16
<b>C6MAXIN20X95</b>	●	63	6	20	20	51	53	95	73	55	67	M16
<b>C6MAXIN32X115</b>	●	63	6	32	32	69	70	115	93	70	82	M16
<b>C8MAXIN20X95</b>		80	6	20	20	51	53	95	65	55	67	M16
<b>C8MAXIN32X115</b>		80	6	32	32	69	70	115	85	70	82	M16

Wrench is not included

Wrench Preset Screw P. 30

● : Stocked items

## Collets for power chuck



### SC-SEAL SC sealed straight collets - metric

Cat. No.	Stock	Dimensions (mm)					
		ød	øD	L	L <sub>1</sub>	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	

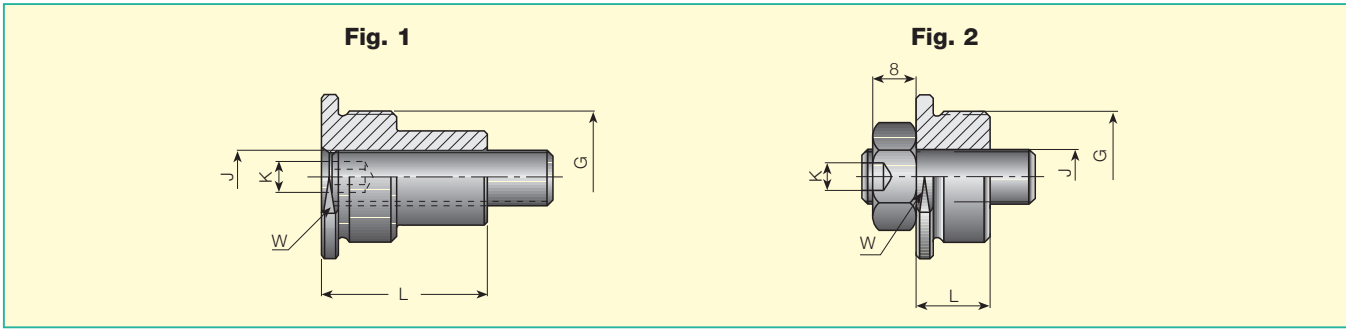
### SC-SPR SC straight collets - metric

Cat. No.	Stock	Dimensions (mm)					
		ød	øD	L	L <sub>1</sub>	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	

● : Stocked items

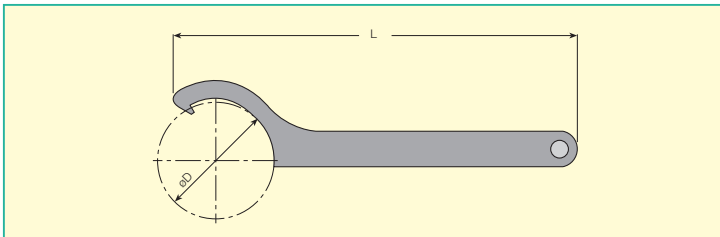
■ **Preset screw for power chuck**

**PRESET SC CAP** Preset screw for SC Collets



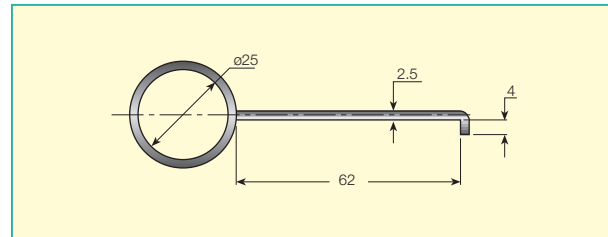
Cat. No.	Stock	Dimensions (mm)				Fig.	Collet Range	Wrench K	Collet size
		L	W	J	G				
<b>PRESETSCCAP8x1.25L</b>	●	28	16	M8x25	M16	1	6-8	4	SC20
<b>PRESETSCCAP8x1.25</b>	●	15	16	M8x25	M16	2	10-16	4	SC20
<b>PRESETSCCAP10x1.5L</b>	●	30.0	27	M10x30	M24x1.5	1	6-14	5	SC20
<b>PRESETSCCAP10x1.5</b>	●	13.5	27	M10x30	M24x1.5	2	16-25	5	SC20

■ **Wrench**



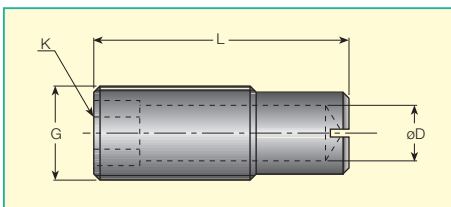
Cat. No.	Stock	Dimensions (mm)	
		øD	L
<b>WRENCHMAXIN20HOOK</b>	●	26	205
<b>WRENCHMAXIN32HOOK</b>	●	68	240

■ **SC Collet extracting hook**



Cat. No.	Stock
<b>EXTRACTORSCCOLLETS</b>	●

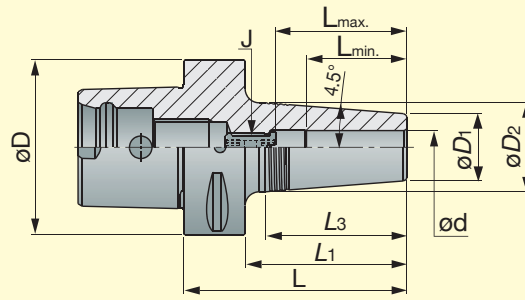
■ **Preset screws**



Cat. No.	Stock	Dimensions (mm)			
		G	L	øD	K
<b>PRESETMAXIN16X30</b>	●	M16	30	8	8
<b>PRESETMAXIN16X44</b>	●	M16	44	8	8
<b>PRESETMAXIN20X55</b>	●	M20	55	12	12

● : Stocked items

## C-SRKIN Thermal shrinking holders



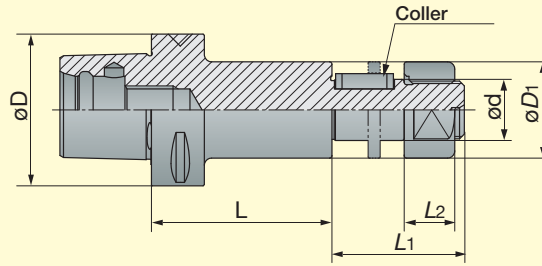
Dimensions (mm)

Cat. No.	Stock	$\varnothing D$	$\varnothing d$	$\varnothing D_1$	$\varnothing D_2$	$L$	$L_1$	$L_3$	$L$		$J$
									Min.	Max.	
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



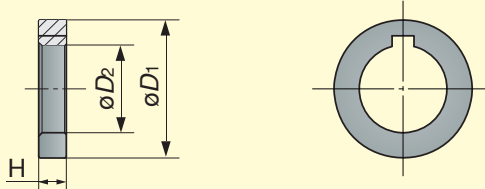
● : Stocked items

## C-SCA Slot milling holders



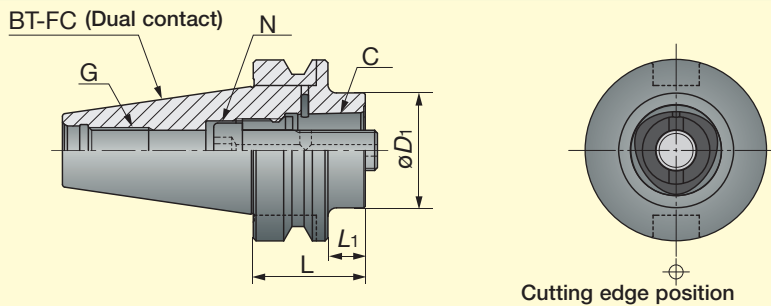
Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d$	$L$	$\varnothing D_1$	$L_1$	$L_2$
C6SCA25.4-075	●	63	25.4	75	40	55	21
C6SCA31.75-075	●	63	31.75	75	46	60	26
C8SCA25.4-090	●	80	25.4	90	40	55	21
C8SCA31.75-090	●	80	31.75	90	46	60	26

## SCA Coller for slot milling holder (Option)



Cat. No.	Stock	Dimensions (mm)		
		$\varnothing D_1$	$\varnothing D_2$	H
SCA25.4-02	●	40	25.4	3, 5, 7, 8, 10, 12, 14
SCA31.75-02	●	46	31.75	3, 5, 7, 8, 10, 12, 14

## BT-FC Holders BT shank with dual contact



Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	BT-FC	$\varnothing D_1$	L	L1	G	
BT40FC-C4-040	●	C4	40	40	40	13	M16	55
BT40FC-C5-050	●	C5	40	50	50	23	M16	95
BT40FC-C6-075	●	C6	40	63	75	48	M16	170
BT50FC-C4-040	●	C4	50	40	40	2	M24	55
BT50FC-C4-070	●	C4	50	40	70	32	M24	55
BT50FC-C5-040	●	C5	50	50	40	2	M24	95

Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	BT-FC	$\varnothing D_1$	L	L1	G	
BT50FC-C5-080	●	C5	50	50	80	42	M24	95
BT50FC-C6-050	●	C6	50	63	50	12	M24	170
BT50FC-C6-100	●	C6	50	63	100	62	M24	170
BT50FC-C8-070	●	C8	50	80	70	32	M24	170
BT50FC-C8-120	●	C8	50	80	120	82	M24	170

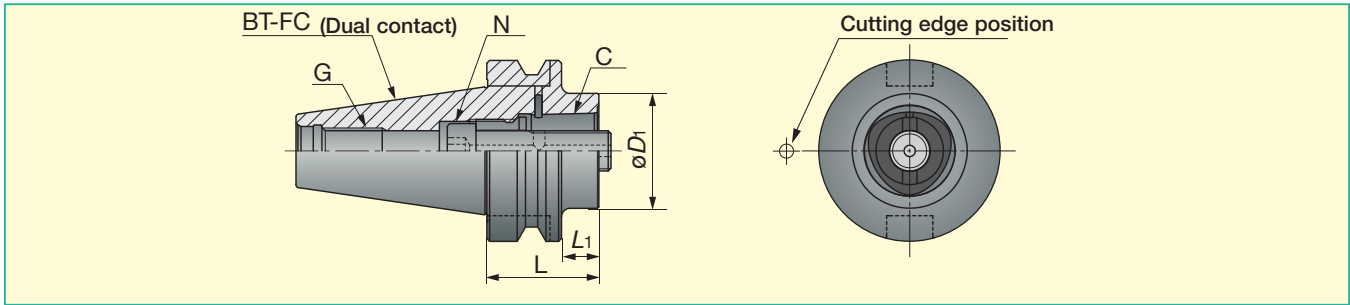
\* Recommended clamping torque

● : Stocked items



## BT-FC-T

Holders BT shank with dual contact (For turning on multi task machine)

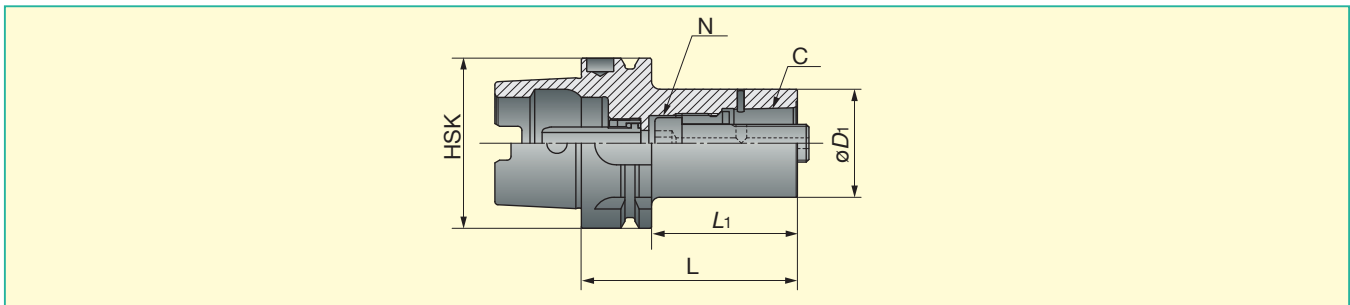


Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	BT-FC	øD1	L	L1	G	
BT40FC-C4-040T	●	C4	40	40	40	13	M16	55
BT40FC-C5-050T	●	C5	40	50	50	23	M16	95
BT50FC-C6-050T	●	C6	50	63	50	12	M24	170
BT50FC-C8-070T	●	C8	50	80	70	32	M24	170

\* Recommended clamping torque

## HSK-A-C/-T

Holders for HSK shank



■ for HSK-T shank

Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	HSK	øD1	L	L1	
HSK63A-C4-080T	●	C4	63	40	80	54	55
HSK63A-C5-090T	●	C5	63	50	90	64	95
HSK63A-C6-110T	●	C6	63	63	110	74	170

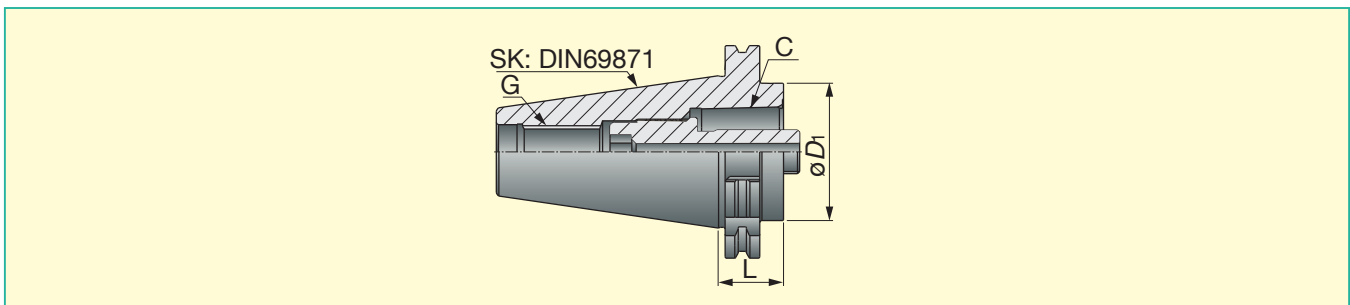
■ for HSK-A shank

Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	HSK	øD1	L	L1	
HSK100A-C6-110	●	C6	100	63	110	81	170
HSK100A-C8-120	●	C8	100	80	120	91	170

\* Recommended clamping torque

## C-ADSKA

Holders for DIN 69871 form AD / ADB tapered shanks

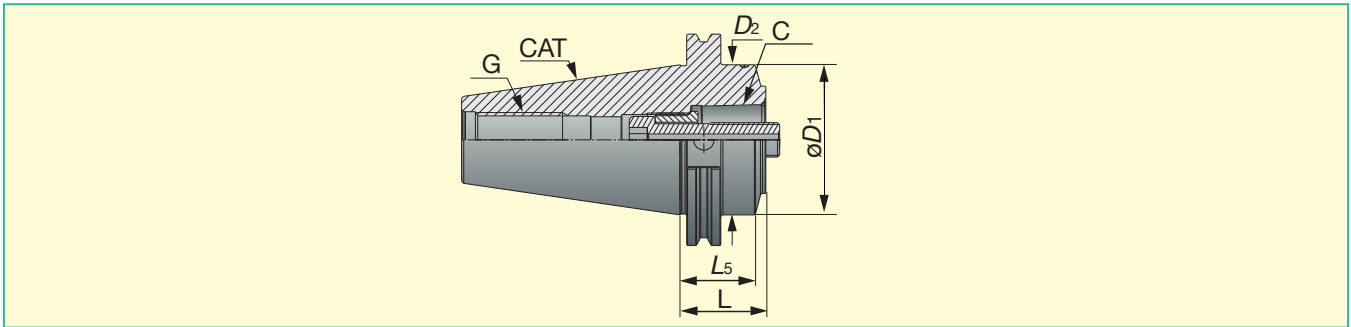


Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	SK	øD1	L	G	
C4ADSKA40X30		C4	40	40	30	M16	55
C5ADSKA40X30		C5	40	50	30	M16	95
C5ADSKA50X30ADB		C5	50	50	30	M24	95
C6ADSKA50X30		C6	50	63	30	M24	170
C8ADSKA50X70ADB		C8	50	80	70	M24	170

\* Recommended clamping torque

● : Stocked items

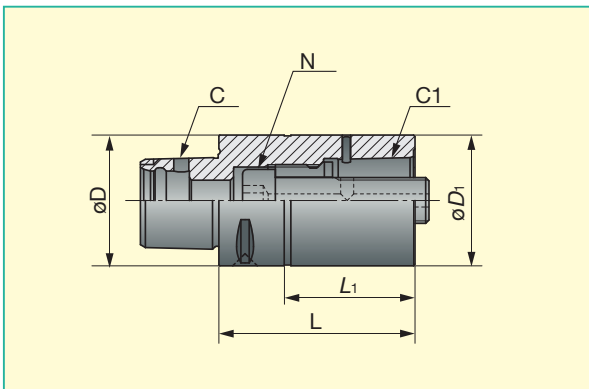
## C-ADCAT Holders for caterpillar AD / ADB tapered shanks



Cat. No.	Stock	Dimensions (mm)							N* (N·m)
		C	CAT	øD1	D2	L	L5	G	
C4ADCATI40X40ADB		C4	40	40	44.5	40	35	5/8X11	55
C5ADCATI40X90ADB		C5	40	50	45.2	90	35	5/8X11	95
C5ADCATI50X40ADB		C5	50	50	69.9	40	35	1-8	95
C6ADCATI50X50		C6	50	63	69.85	50	37	1-8	170
C8ADCATI50X100ADB		C8	50	80	70.1	100	35	1-8	170

\* Recommended clamping torque

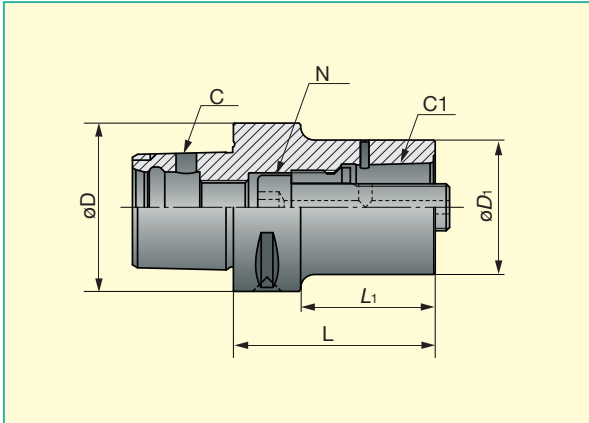
## C-EX Extension holders



Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	C1	øD	øD1	L	L1	
C4EX-060	●	C4	C4	40	40	60	80	65
C4EX-080	●	C4	C4	40	40	80	60	65
C5EX-080	●	C5	C5	50	50	80	60	95
C5EX-100	●	C5	C5	50	50	100	80	95
C6EX-100	●	C6	C6	63	63	100	78	170
C6EX-140	●	C6	C6	63	63	140	118	170
C8EX-100	●	C8	C8	80	80	100	70	170
C8EX-160	●	C8	C8	80	80	160	130	170

\* Recommended clamping torque

## C-RE Reduction holders



Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	C1	øD	øD1	L	L1	
C5-C4RE-060	●	C5	C4	50	40	60	40	55
C5-C4RE-080	●	C5	C4	50	40	80	60	55
C6-C4RE-080	●	C6	C4	63	40	80	58	55
C6-C5RE-080	●	C6	C5	63	50	80	58	95
C6-C5RE-120	●	C6	C5	63	50	120	98	95
C8-C4RE-070	●	C8	C4	80	40	70	40	55
C8-C5RE-080	●	C8	C5	80	50	80	50	95
C8-C6RE-080	●	C8	C6	80	63	80	50	170
C8-C6RE-120	●	C8	C6	80	63	120	90	170

\* Recommended clamping torque

● : Stocked items

# SPINJET

Productivity quadruples due to spindles that rotate at high speed with coolant pressure.



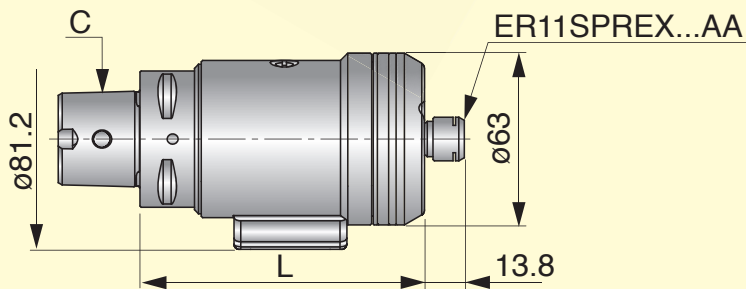
## Speed vs. pressure

Jet spindle type / n (min <sup>-1</sup> )	Coolant pressure		
	2 MPa	3 MPa	4 MPa
TJS20K...	20000	30000	40000
TJS30K...	30000	40000	50000
TJS40K...	40000	50000	60000

These are approximate min<sup>-1</sup> values, and they depend on coolant pressure, flow rate, and type.

## TJS-C

### High speed holder with coolant pressure



G2.5  
40,000 min<sup>-1</sup>



#### Parts

Descriptions	Cat. No.
Display*	TJSTSDDISPLAY
Nut	NUTER11GHS
Wrench for nut	WRENCHER11SMS
Wrench for setting	WRENCHDIA3.2X45

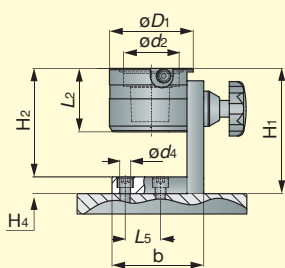
\*Optional

Cat. No.	Stock	C	Dimensions (mm)		Weight (kg)	Direction of tool rotation
			L	Max. tool dia. $\phi D_c$		
TJS20KC5L		C5	104.9	$\phi 3.5$	1.5	L
TJS20KC5R		C5	104.9	$\phi 3.5$	1.5	R
TJS30KC5L		C5	104.9	$\phi 2.5$	1.5	L
TJS30KC5R		C5	104.9	$\phi 2.5$	1.5	R
TJS40KC5L		C5	104.9	$\phi 1.5$	1.5	L
TJS40KC5R		C5	104.9	$\phi 1.5$	1.5	R
TJS20KC6L		C6	104.9	$\phi 3.5$	1.65	L
TJS20KC6R		C6	104.9	$\phi 3.5$	1.65	R
TJS30KC6L		C6	104.9	$\phi 2.5$	1.65	L
TJS30KC6R		C6	104.9	$\phi 2.5$	1.65	R
TJS40KC6L		C6	104.9	$\phi 1.5$	1.65	L
TJS40KC6R		C6	104.9	$\phi 1.5$	1.65	R

- Max. tool shank diameter:  $\phi 6.0$  mm
- Coolant pressure through machine spindle:  
Min. 2 MPa / Max. 4 MPa
- Min. flow rate: 12 l/min

## MULTICLAMP

### Clamp fixture







Cat. No.	Stock	Dimensions (mm)								
		$\phi d_2$	$\phi d_1$	L <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>4</sub>	b	L <sub>5</sub>	$\phi d_4$
MULTICLAMPC4		40.4	78	67	137.05	118.05	19	104	40	12.5
MULTICLAMPC5		50	85	72	142	123	19	104	40	12.5
MULTICLAMPC6		63	95	72	142	123	19	104	40	12.5
MULTICLAMPC8		80	130	90	178	159	19	144	85	12.5

● : Stocked items

● Clamping unit

# Designation for clamping units

■ Fixed-type clamping unit

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

■ Description of clamping unit for turning

**C3 - DTI - IC - SC150 - \*\*\*\*\* - R**

1 PSC size	2 Device	3 Turning	4 Application	5 Coolant	6 Machine description	7 Machine's number	8 Hand
C*	D	T	O External I Internal	IC Internal OC External WC Double	SC-150	*****	R Right L Left

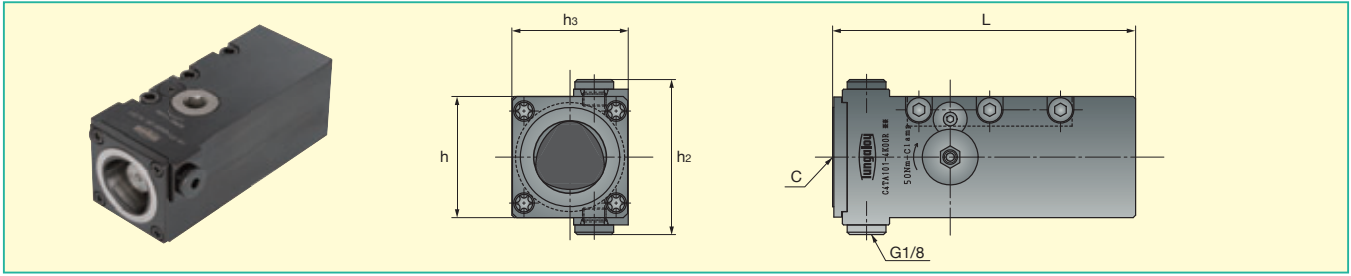
■ Description of clamping unit for driving

**C6 - DDC - OC - WT100 - \*\*\*\*\***

1 PSC size	2 Device	3 Drive	4 Tool setting direction	5 Coolant	6 Machine description	7 Machine's number
C*	D	D	S Straight: Z C Cross: X X Other	IC Internal OC External WC Double	WT-100	*****

● : Stocked items

## C-DTOSR/L Manual clamping unit; Square shank

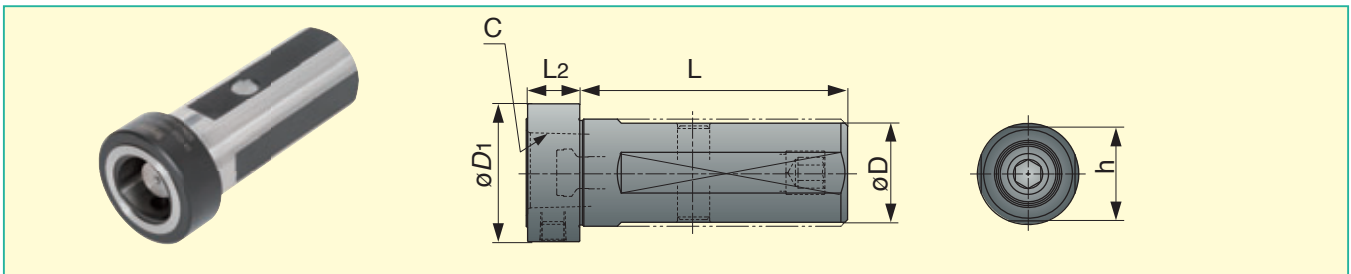


Cat. No.	Stock		Dimensions (mm)					N* (N·m)
	R	L	C	Turret size h	h3	h2	L	
C3-DTOS4038R/L			C3	40	38	62	95	35
C4-DTOS5048R/L			C4	50	48	64	125	50
C5-DTOS6464R/L			C5	64	64	68	145	70

Items for special order

\* Recommend clamping torque

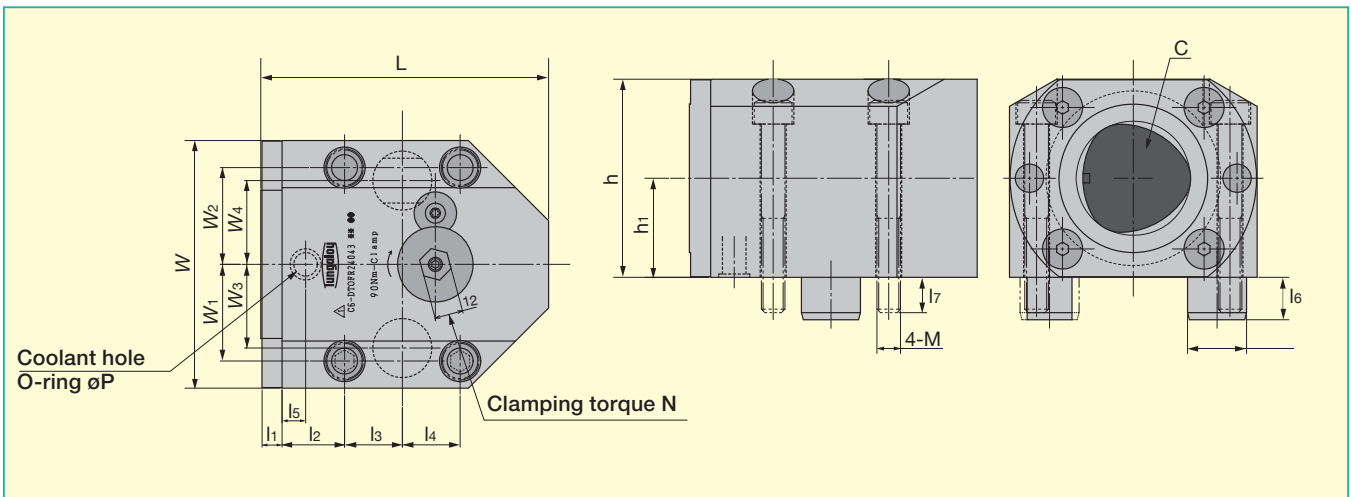
## C-DTIR Manual clamping unit; Round shank



Cat. No.	Stock	Dimensions (mm)						N* (N·m)
		C	øD	øD1	h	L	L2	
C3-DTIR-08018-D32		C3	32	46	30	80	18	35
C4-DTIR-10020-D40		C4	40	52	38	100	20	50
C4-DTIR-12020-D50		C4	50	52	48	120	20	50
C5-DTIR-12024-D50		C5	50	62	48	120	24	70

\* Recommend clamping torque

## C-DTOFR/L Manual clamping unit; Fixed type



Cat. No.	Stock			Dimensions (mm)												N** (N·m)			
	R	L	C	h	h1	L	W	W1 W2	W3 W4	l1	l2	l3 l4	l5	l6	l7		d1 (f6*)	P	M
C5-DTOFR/L32048			C5	64	32	199	92	35	31	8	19	21	7	11	15	20	P7	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

Items for special order

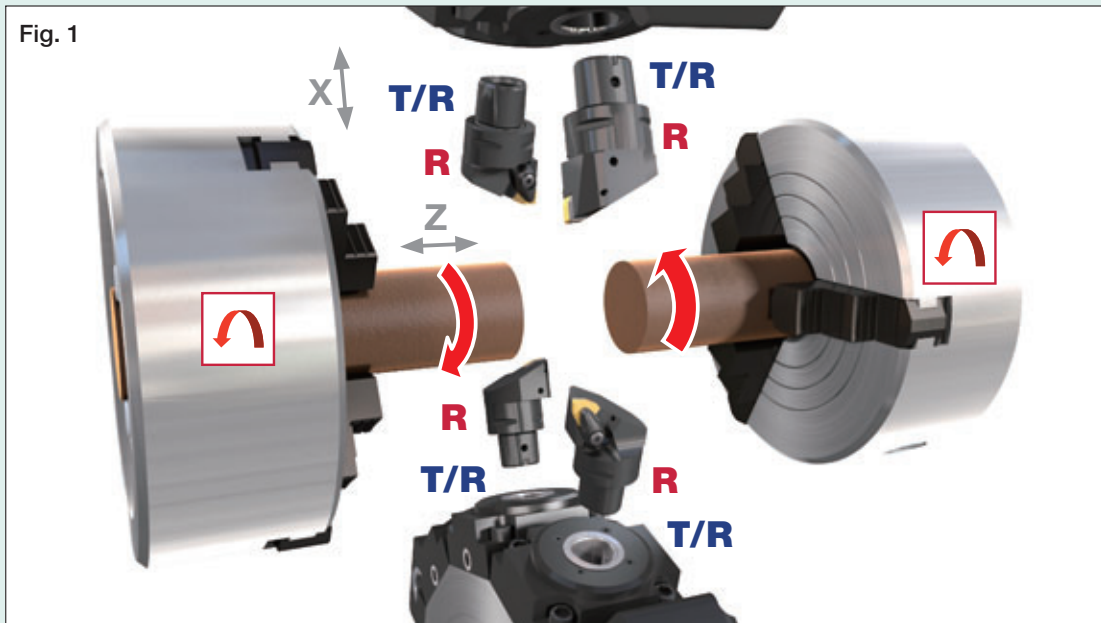
\* f6 tolerance: d20 & 25 = -0.022 / -0.033, d32 = 0.025 / -0.041

\*\* Recommend clamping torque

● : Stocked items

# Clamping units & tools for CNC lathes

■ Selection for External turning



**R:** Right hand cutting tool, **L:** Left hand cutting tool

**T/R:** Right hand clamping unit, **T/L:** Left hand clamping unit

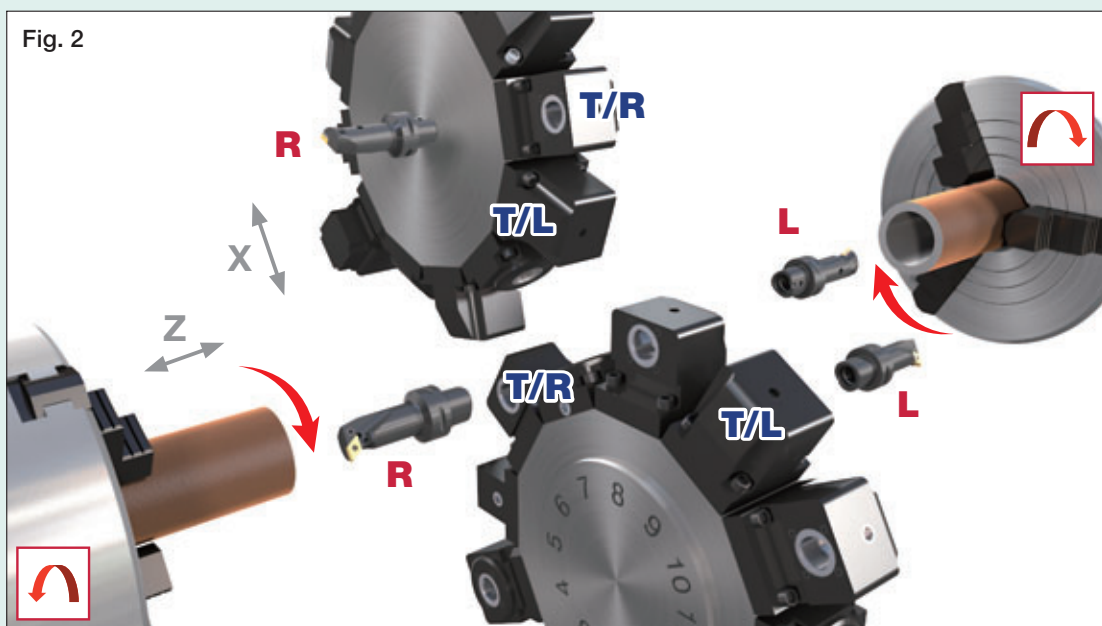
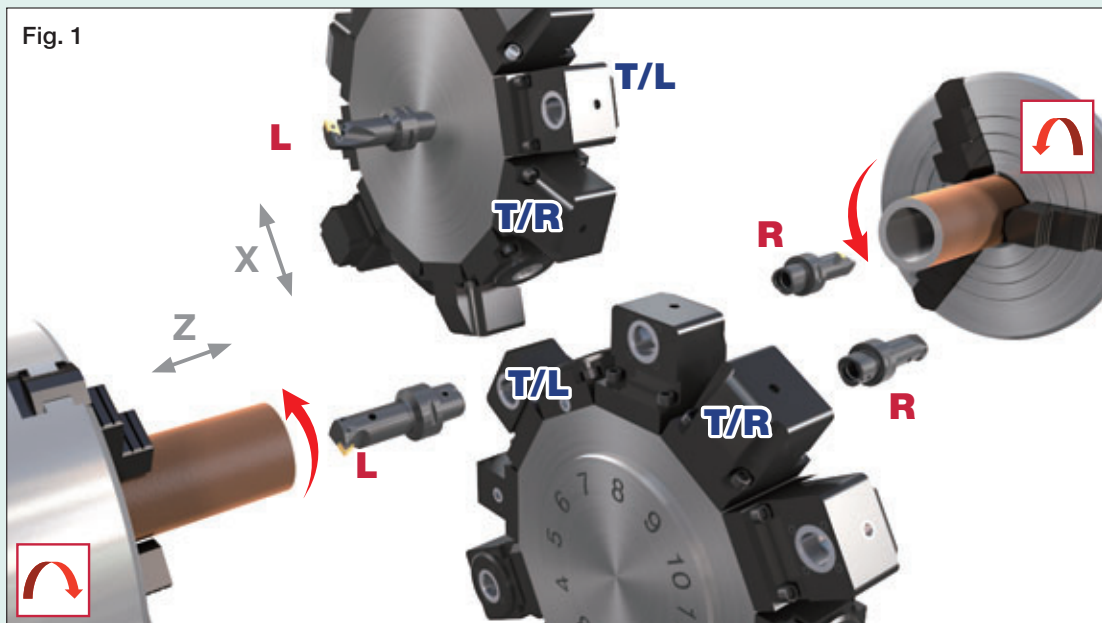
■ Spindle rotation

 : Clockwise

 : Counterclockwise

Spindle	Rotation	Hand		Fig.
		Clamping Unit	Cutting Head	
Left side	Counterclockwise	L	L	1
Right side	Counterclockwise	L	L	1
Left side	Clockwise	R	R	2
Right side	Clockwise	R	R	2

■ Selection for Internal turning



**R:** Right hand cutting tool, **L:** Left hand cutting tool

**T/R:** Right hand clamping unit, **T/L:** Left hand clamping unit

■ Spindle rotation

 : Clockwise

 : Counterclockwise

Spindle	Rotation	Hand		Fig.
		Clamping unit	Cutting head	
Left side	Clockwise	L	L	1
Right side	Counterclockwise	R	R	1
Left side	Counterclockwise	R	R	2
Right side	Clockwise	L	L	2

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