

ToolLine

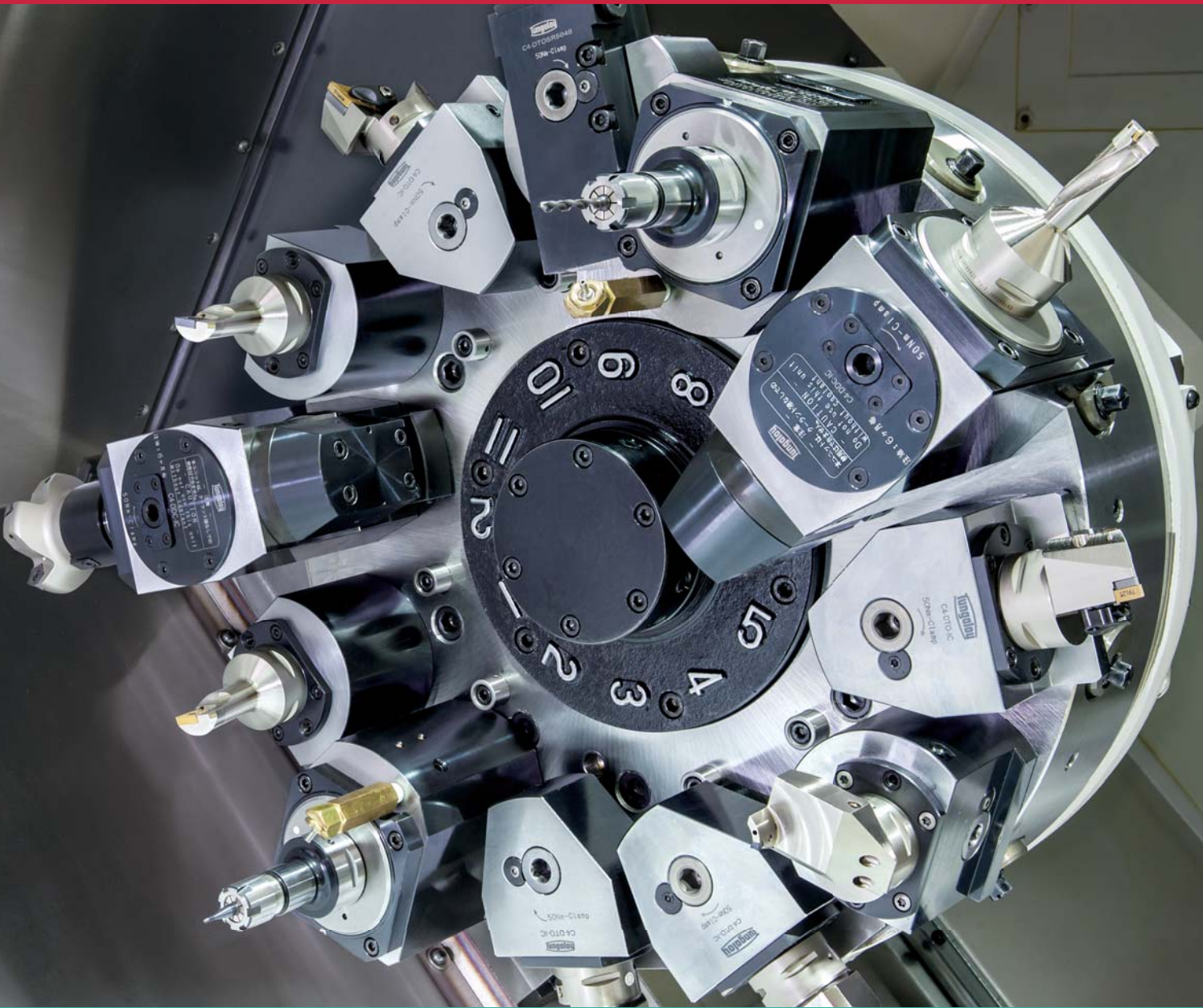
TUNGCAP

www.tungaloy.com

Tungaloy Report No. 410-G

TUNG
CAP

Quick change system with polygon coupling tooling



Member IMC Group
Tungaloy



ACCELERATED MACHINING



ToolLine

TUNGCAP
TUNGALOY



Boosts productivity in your machine!

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Increase your productivity by reducing downtime!

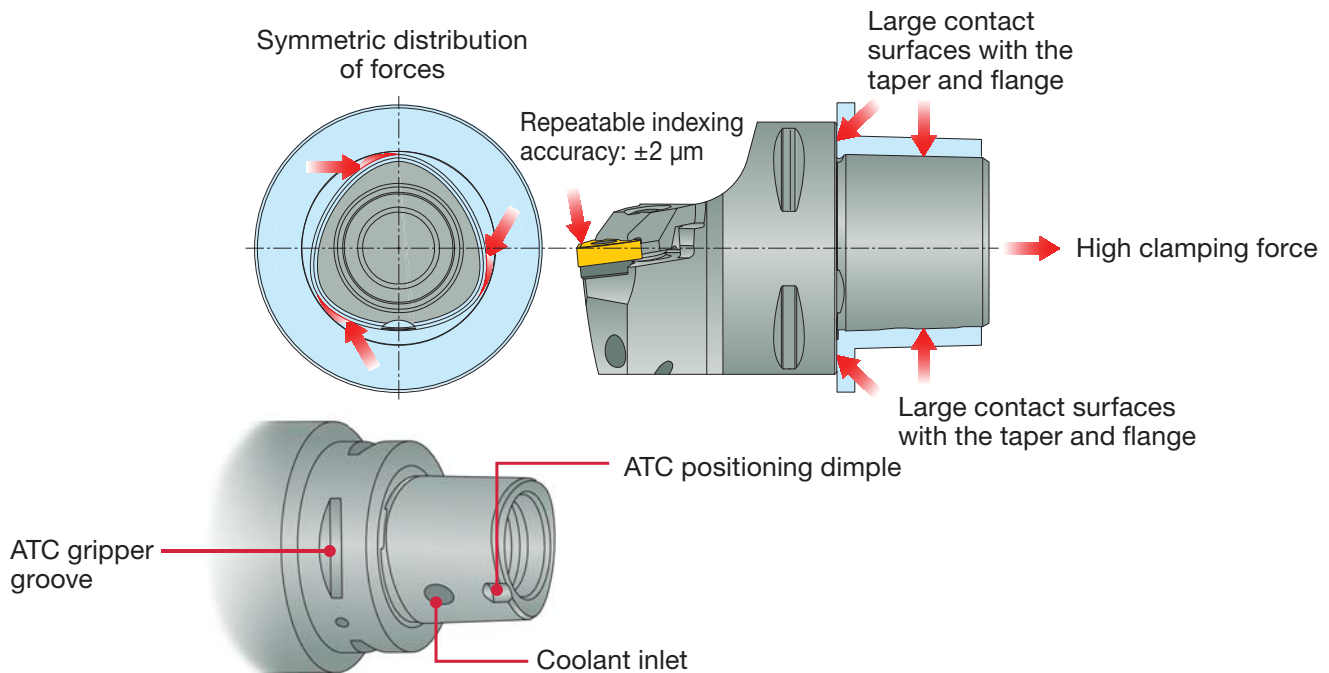
High rigidity

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

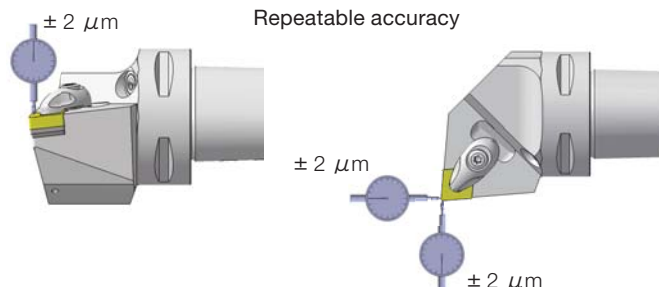
Excellent accuracy

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

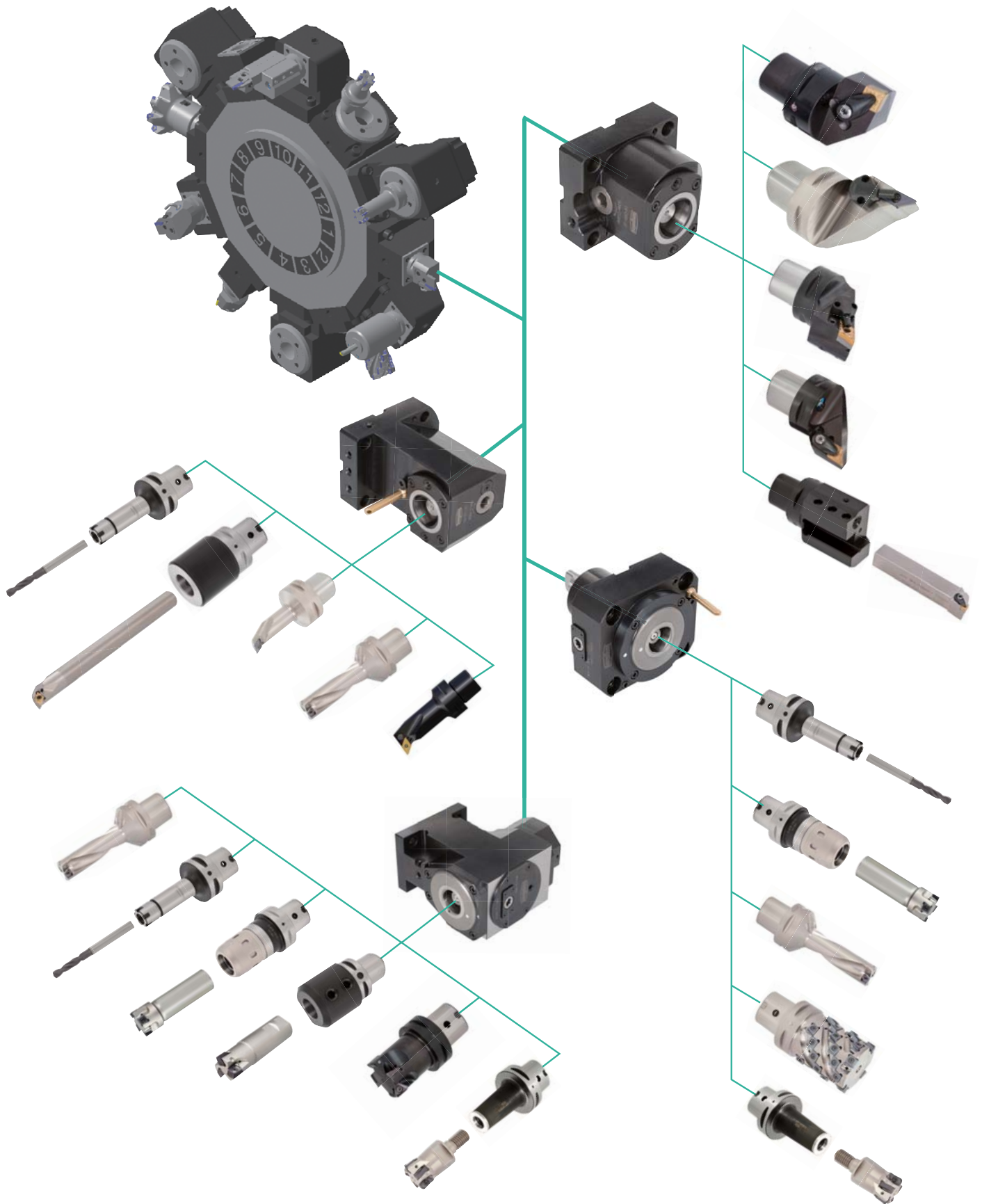
TUNG**CAP** Quick change system (Compatible with PSC standard)



Precision Indexing via polygon taper coupling



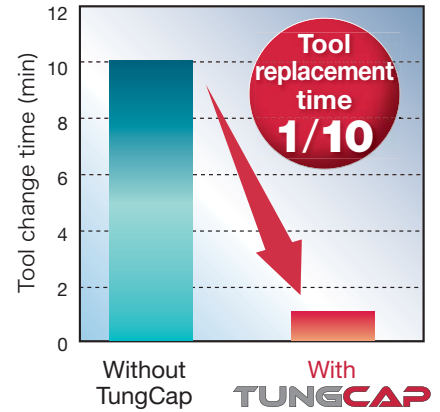
Quick change tooling system for CNC turret lathes / turning centers



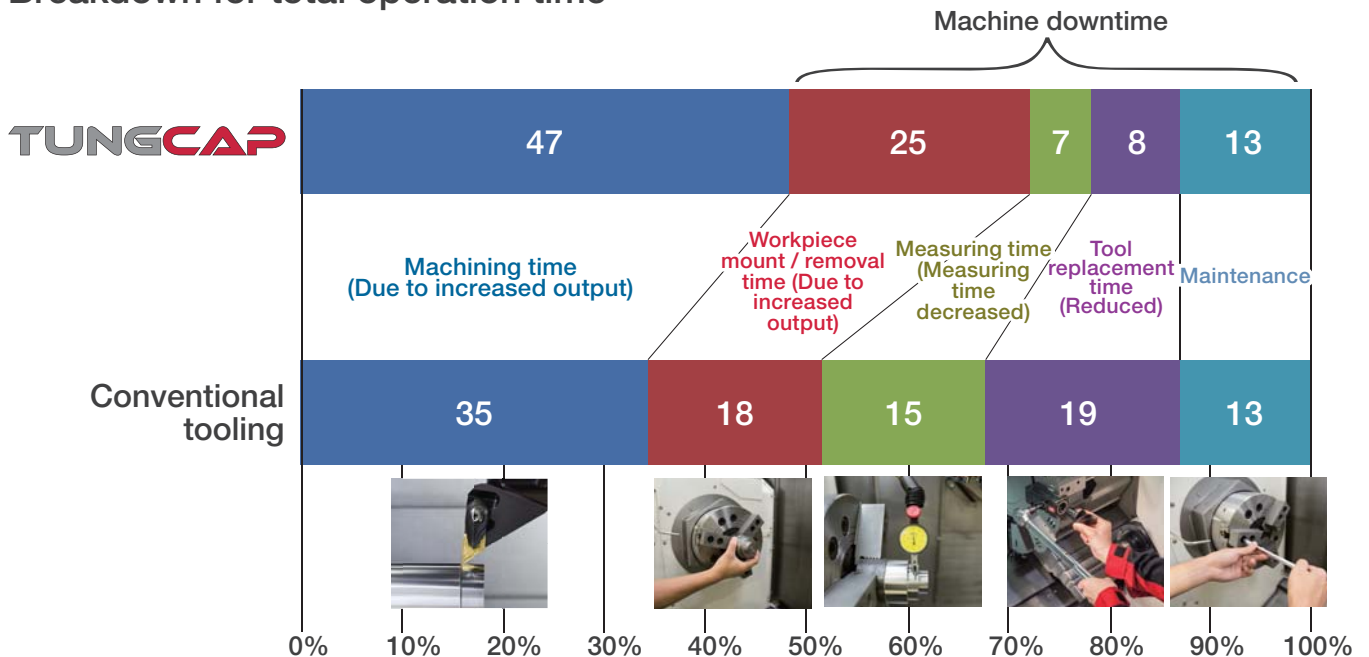
Productivity jumps when used on CNC turret lathes / turning centers

Reduce downtime in your machine

- Short setup time - no tool adjustment required on the machine
- Once adjusted outside the machine, high precision tooling is ready for you with no need for re-adjustment of the tools
- Scraps are minimized thanks to high accuracy in measurement / offsets

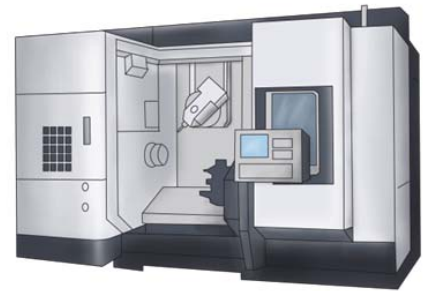


Breakdown for total operation time



Toolings for multi-tasking machine

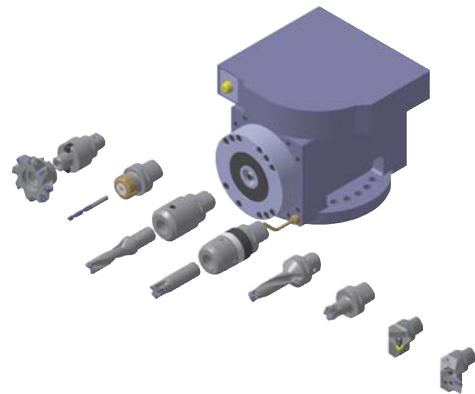
A multi-tasking machine is a combination of a turning center and a machining center, which allows a workpiece to be completed in a single machine setup. TungCap offers a complete range of efficient tooling solutions in such a highly advanced machine-tool.



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



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





High pressure coolant provides excellent chip control for difficult-to-cut materials

Improves chip control in machining difficult materials such as Inconel or titanium alloys.

TUNGTURN 7 MPa

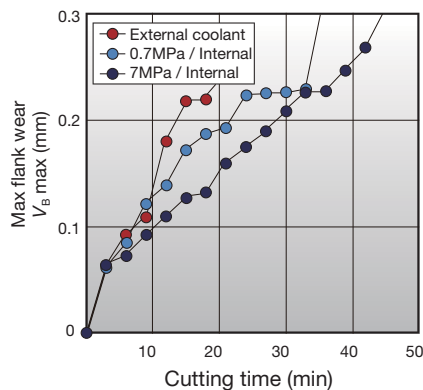


Normal pressure coolant (External supply)



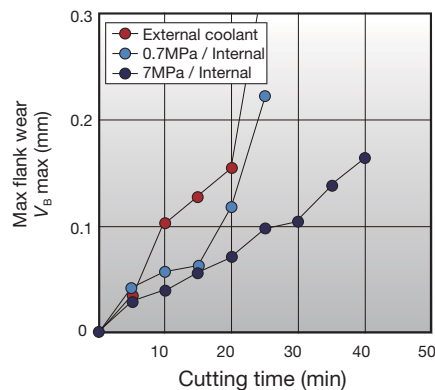
Dual coolant jets for a maximum productivity and insert life

- A 150 - 200 % higher cutting speed can be applied thanks to the TungTurn-Jet's cooling effect
- A 150 - 200 % increase in tool life is possible in machining stainless steel or alloy steels
- The nozzle delivers coolant directly to the optimized position on the cutting edge



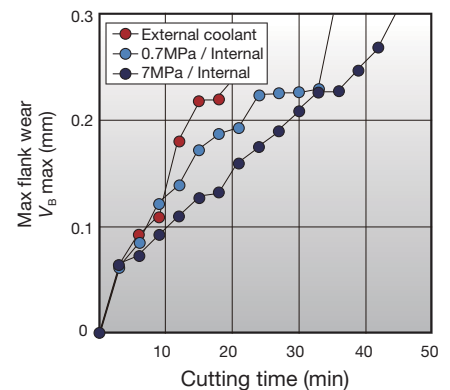
SCM440

$V_c = 250$ m/min
 $a_p = 2.0$ mm
 $f = 0.3$ mm/rev



SUS304

$V_c = 200$ m/min
 $a_p = 2.0$ mm
 $f = 0.3$ mm/rev



Inconel 718

$V_c = 50$ m/min
 $a_p = 2.0$ mm
 $f = 0.2$ mm/rev

Reduced heat and tool wear → Longer tool life



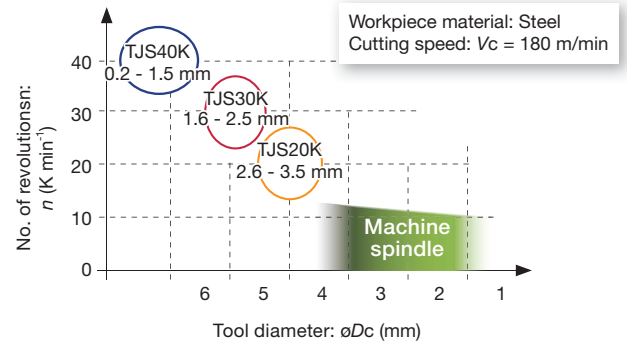
Convert your existing machine into a high speed machine!

- 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.



Extended and stable tool life for small diameter tools

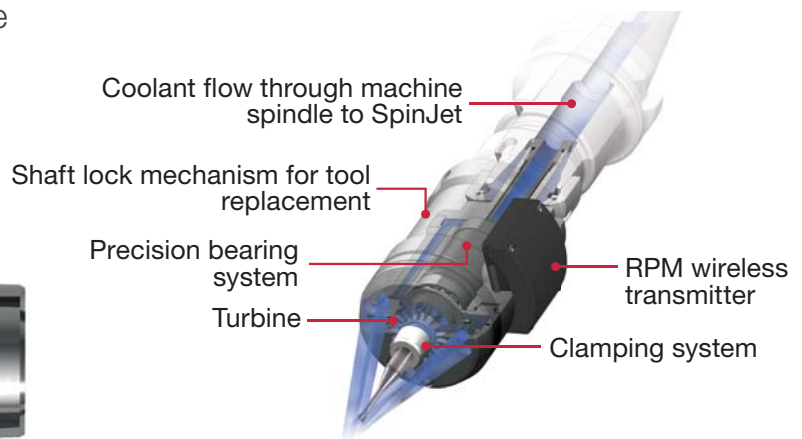
Extended tool life is achieved thanks to optimal cutting conditions and strong coolant jet flow.


























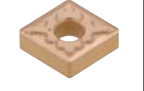
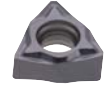

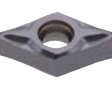



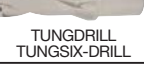


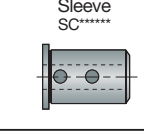
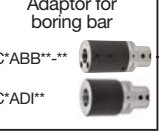








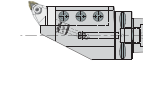
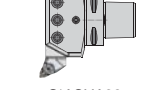
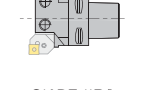
Operating speed range vs. tool diameter

Energy saving

Tools rotate only with coolant pressure, and the machine spindle is idle while SpinJet is in operation.



Turning tool

<p>CN**1204 CN**0904</p> 	 <p>C*PCLNR/L****-**-CHP</p>	 <p>C*PCLNR/L****-12N</p>	 <p>C*ACLNR/L****-**N</p>	 <p>C6PCMNN**-CHP</p>	 <p>C*ACLNN00****-**N C*ACLNN00****-V-**N</p>	<p>Cutting head for external turning & facing</p>
<p>DN**1504** (DN**1506**)</p> 	 <p>C*PDJNR/L****-**-CHP</p>	 <p>C*PDJNR/L****-15N</p>	 <p>C*ADJNR/L****-**N</p>	 <p>C6PDMNL**-CHP</p>	 <p>C*ADNNN00****-15N</p>	
<p>WN**0804 WN**0604</p> 	 <p>C*PWLNR/L****-**-CHP</p>	 <p>C*AWLNR/L****-**N</p>	<p>VN**1604**</p> 	 <p>C*PVJNR/L****-16-CHP</p>	 <p>C*AVJNR/L****-16N</p>	
<p>TN**1604 TN**1104</p> 	 <p>C4PTJNR/L 27050-1104N</p>	 <p>C4ATJNR/L 27050-16N</p>	<p>VC**1604**</p> 	 <p>C*SVJCR/L****-16N</p>	 <p>C*SVVCN00****-16N</p>	
<p>DN**1104</p> 	 <p>C4PDUNR/L-11</p>	<p>DN**1504</p> 	 <p>C*ADUNR/L****-15</p>	<p>CN**1204 CN**0904</p> 	 <p>C4PCLNR/L****-**</p>	<p>Cutting head for internal turning</p>
<p>WX**0403**L-**</p> 	 <p>C4SWLXR11070-04</p>	<p>DX**0703**L-**</p> 	 <p>C4SDXXR****-07</p>	<p>VB**1103** VB**1604**</p> 	 <p>C4SVQBR****-**</p>	
 <p>DRILLMEISTER</p>  <p>TUNGDRILL TUNGSIX-DRILL</p>	<p>Side-lock holder (For weldon-shank) C*EM**X**</p>		<p>Boring bar</p> 	<p>Sleeve SC****</p> 	<p>Adaptor for boring bar</p>  <p>C*ABB**-** C*ADI**</p>	
<p>16ER/L***</p> 	 <p>C*CER/L****-16ERN</p>	<p>TungDrill Twisted</p>  <p>C*TDX***L***-3</p>	<p>Cutting head for threading</p>			
<p>DGS, SGS, DGM, SGM, DTX, DTE, DGG, DTR, SGN</p> 	<p>Blade</p> 	<p>Adaptor for parting-off blade</p> 		 <p>C*CHSR/L****N</p>	 <p>C*CHFVR/L****N</p>	<p>Cutting head for grooving</p>
<p>Toolholder for external turning</p> 	 <p>C*ADES-20</p>	 <p>C*ASHR/L**-45</p>	 <p>C*ASHR/L***</p>	 <p>C*ASHA20</p>	 <p>C*ADE-**R/L</p>	<p>Adaptor for toolholder with square shank</p>

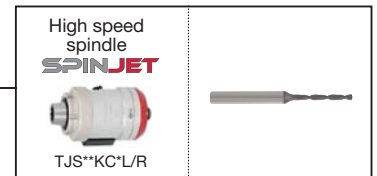
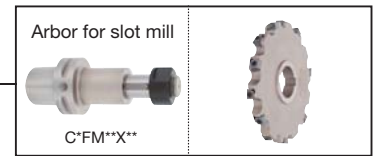
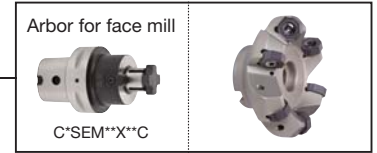
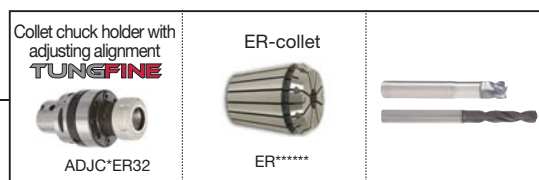
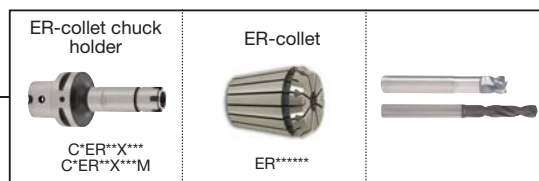
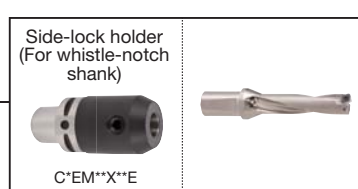
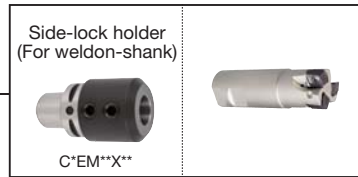
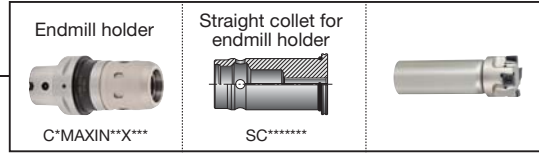
System for Multi-Tasking Machine

TOOLING SYSTEM

Tool spindle



Rotating tool

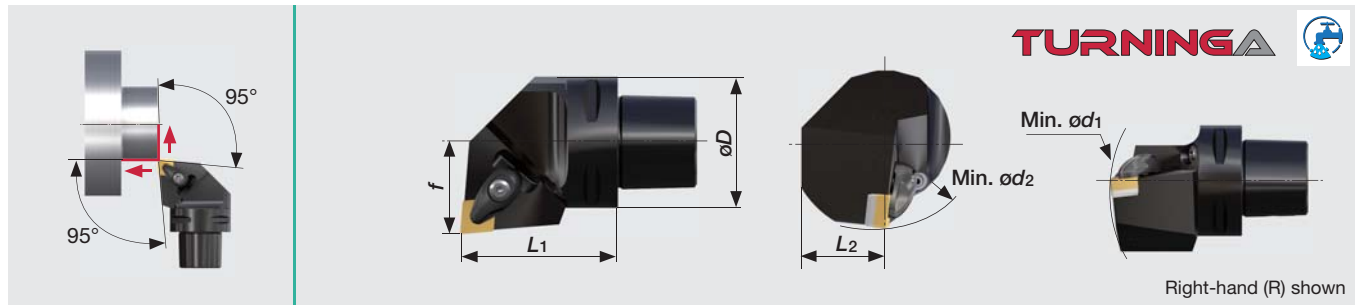


MULTICLAMPC*

Toolholders for external turning

External turning and facing - A type, Double-clamping system

TungCap C-ACLNR/L

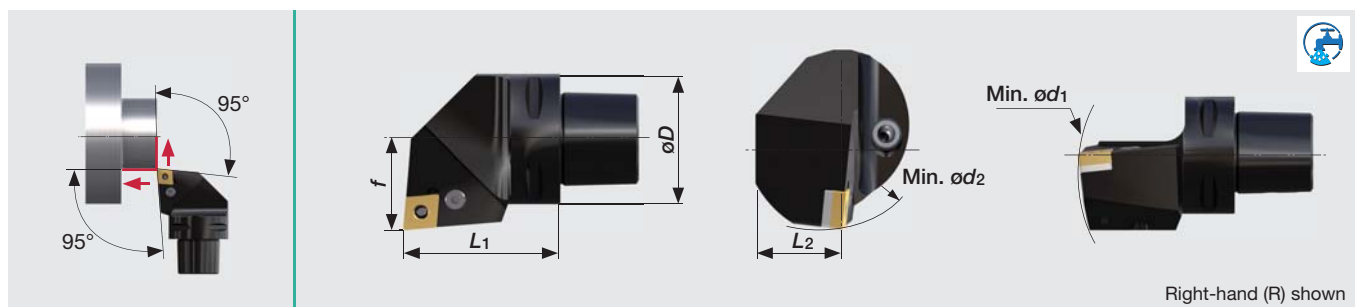


Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_c	Insert
C3ACLNR/L22040-0904N	32	40	20	22	110	121	0.8	CN**0904**E
C4ACLNR/L27050-0904N	40	50	25	27	140	110	0.8	CN**0904**E
C4ACLNR/L27050-12N	40	50	25	27	140	110	0.8	CN**1204...
C5ACLNR/L35060-12N	50	60	32	35	165	110	0.8	CN**1204...
C6ACLNR/L45065-12N	63	65	41	45	190	125	0.8	CN**1204...
C6ACLNR/L45065-0904N	63	65	35	45	190	110	0.8	CN**0904**E

Applicable for 7 MPa pressure coolant

External turning and facing - P type, Lever-lock system

TungCap C-PCLNR/L



Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_c	Insert
C5PCLNR/L35060-12 ⁽¹⁾	50	60	32	35	-	-	0.8	CN**1204...
C5PCLNR/L35060-12N ⁽²⁾	50	60	32	35	165	110	0.8	CN**1204...
C6PCLNR/L45065-12 ⁽¹⁾	63	65	41	45	-	-	0.8	CN**1204...
C6PCLNR/L45065-12N ⁽²⁾	63	65	41	45	190	125	0.8	CN**1204...

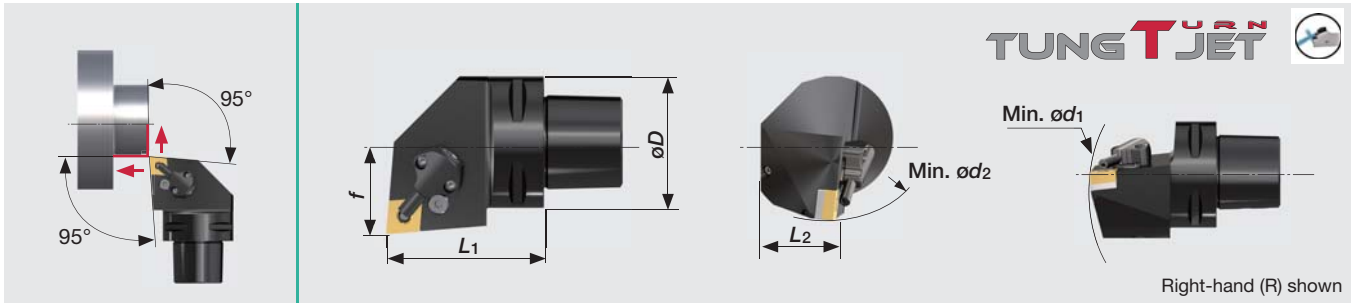
(1) Applicable for 3 MPa pressure coolant (2) Applicable for 7 MPa pressure coolant

"-" in Min $\varnothing d_1$ and $\varnothing d_2$: not suitable for internal boring

Spare parts
P23

External turning and facing - CHP type, Lever-lock system

TungCap C-PCLNR/L-CHP

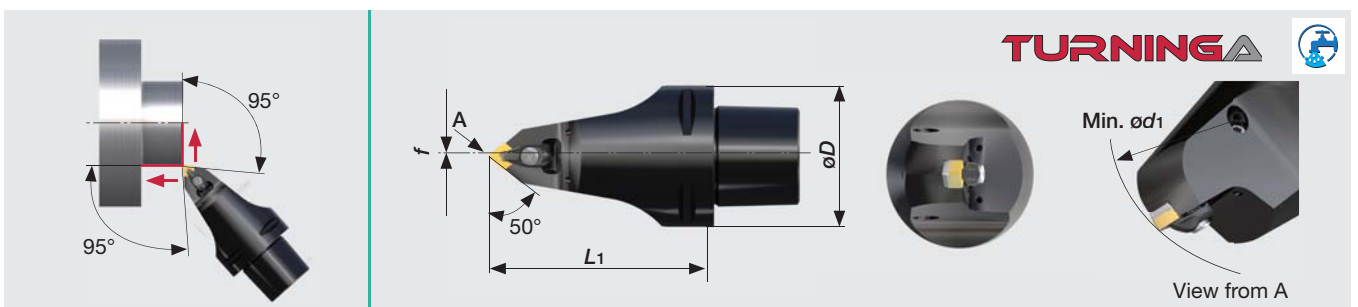


Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_c	Insert
C4PCLNR/L27050-0904-CHP	40	50	25	27	140	110	0.8	CN**0904**E
C4PCLNR/L27050-12-CHP	40	50	25	27	140	110	0.8	CN**1204...
C5PCLNR/L35060-12-CHP	50	60	30	35	165	110	0.8	CN**1204...
C6PCLNR/L45065-0904-CHP	63	65	35	45	190	110	0.8	CN**0904**E
C6PCLNR/L45065-12-CHP	63	65	35	45	190	110	0.8	CN**1204...

Applicable for 14 MPa pressure coolant

External turning and facing - A type, Double-clamping system

TungCap C-ACMNN

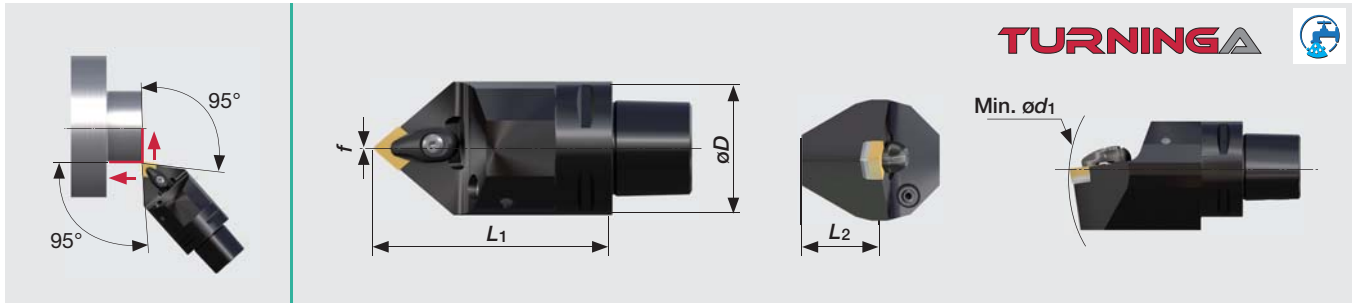


Designation	$\varnothing D$	L_1	f	$\varnothing d_1$	r_c	Insert
C6ACMNN00100-0904N	63	100	0	110	0.8	CN**0904**E
C6ACMNN00140-0904N	63	140	0	110	0.8	CN**0904**E
C6ACMNN00100-12N	63	100	0	110	0.8	CN**1204...
C6ACMNN00140-12N	63	140	0	110	0.8	CN**1204...

Applicable for 14 MPa pressure coolant

External turning and facing - A type, Double-clamping system

TungCap C-ACLNN



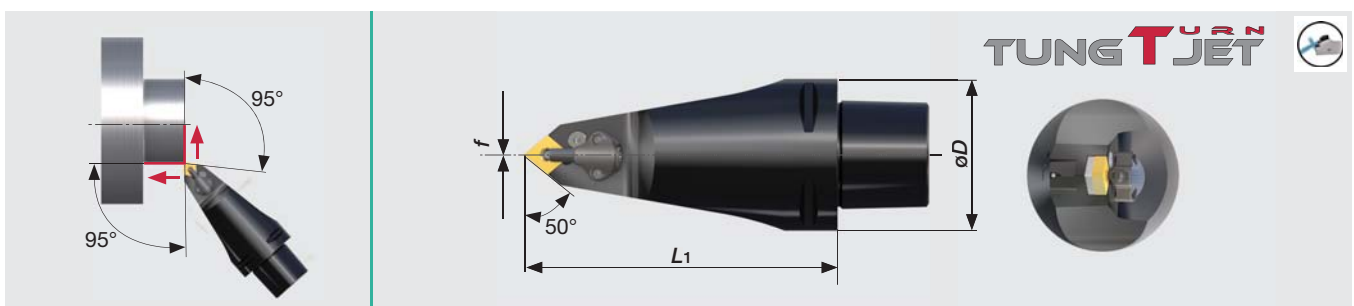
Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	r_e	Insert
C5ACLNN00090-12 ⁽¹⁾	50	90	32	0	-	0.8	CN**1204...
C5ACLNN00090-12N ⁽²⁾	50	90	32	0	165	0.8	CN**1204...
C5ACLNN00125-12 ⁽¹⁾	50	125	32	0	-	0.8	CN**1204...
C5ACLNN00125-12N ⁽²⁾	50	125	32	0	165	0.8	CN**1204...
C6ACLNN00100-12N ⁽²⁾	63	100	37.5	0	190	0.8	CN**1204...
C6ACLNN00140-12N ⁽²⁾	63	140	37.5	0	190	0.8	CN**1204...

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

"-" in Min $\varnothing d_1$: not suitable for internal boring

External turning and facing - P type, Lever-lock system

TungCap C-PCMNN-CHP



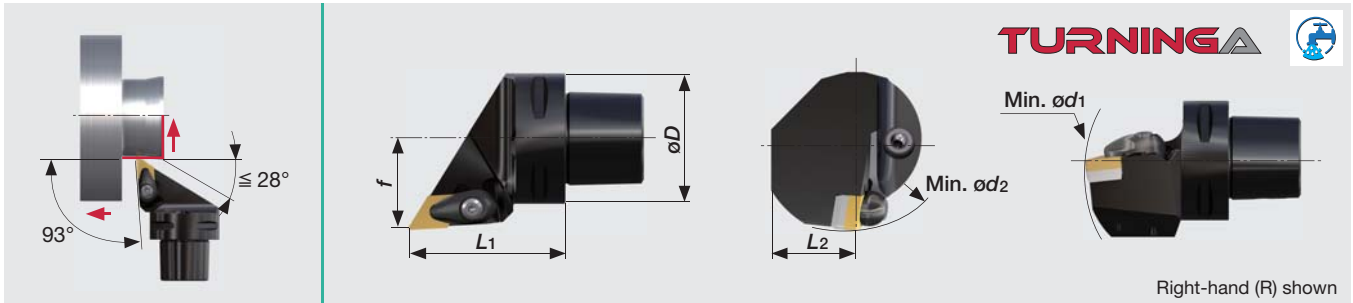
Designation	$\varnothing D$	L_1	f	r_e	Insert
C6PCMNN00130-12-CHP	63	130	0	0.8	CN**1204...

Applicable for 14 MPa pressure coolant

Not suitable for internal boring

External turning and profiling - A type, Double-clamping system

TungCap C-ADJNR/L



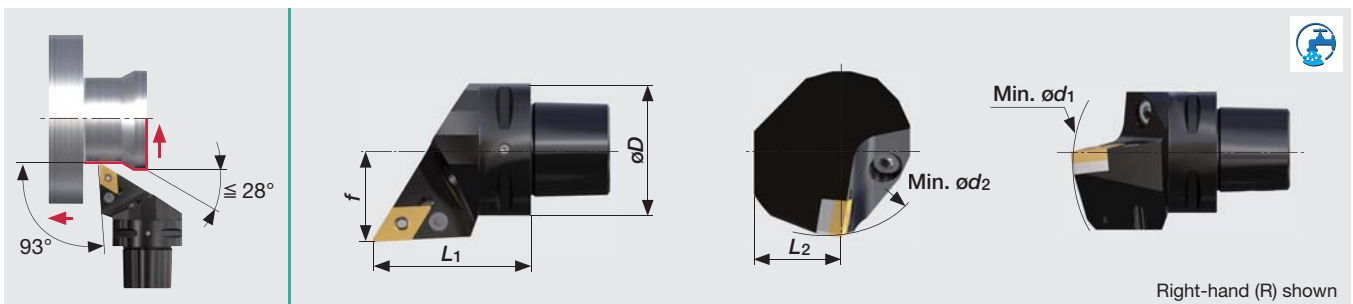
Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_ϵ	Insert
C3ADJNR/L22050-1104N	32	50	20	22	121	85	0.8	DN**1104...
C4ADJNR/L27050-1104N	40	50	25	27	145	110	0.8	DN**1104...
C4ADJNR/L27050-15N	40	50	25	27	145	110	0.8	DN**1504... (DN**1506...)
C5ADJNR/L35060-15N	50	60	32	35	165	110	0.8	DN**1504... (DN**1506...)
C6ADJNR/L45065-1104N	63	65	35	45	190	110	0.8	DN**1104...
C6ADJNR/L45065-15N	63	65	41	45	-	-	0.8	DN**1504... (DN**1506...)
C6ADJNR/L45135-15N	63	65	41	45	190	110	0.8	DN**1504... (DN**1506...)
C6ADJNR/L45135-15N	63	135	41	45	190	110	0.8	DN**1504... (DN**1506...)

Applicable for 7 MPa pressure coolant

"-" in Min. $\varnothing d_1$ and $\varnothing d_2$: not suitable for internal boring

External turning and profiling - P type, Lever-lock system

TungCap C-PDJNR/L



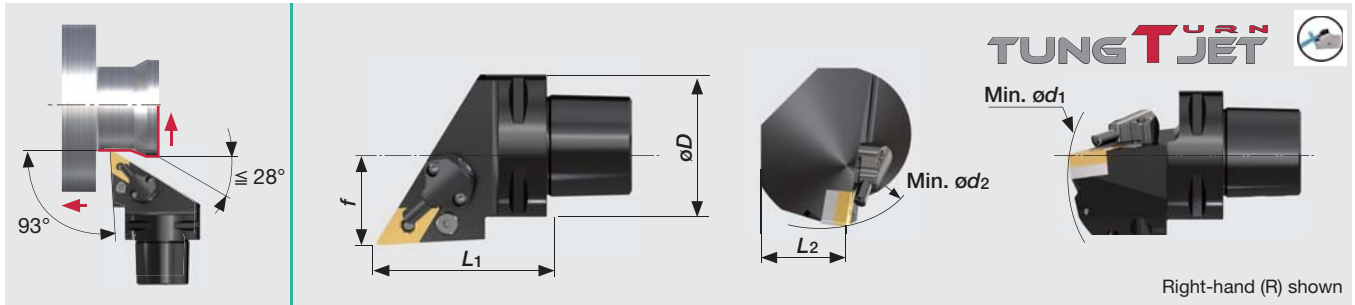
Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_ϵ	Insert
C5PDJNR/L35060-15N	50	60	32	35	165	110	0.8	DN**1504... (DN**1506...)
C6PDJNR/L45065-15N	63	65	41	45	195	95	0.8	DN**1504... (DN**1506...)

Applicable for 7 MPa pressure coolant

Spare parts
P23

External turning and profiling - P type, Lever-lock system

TungCap C-PDJNR/L-CHP

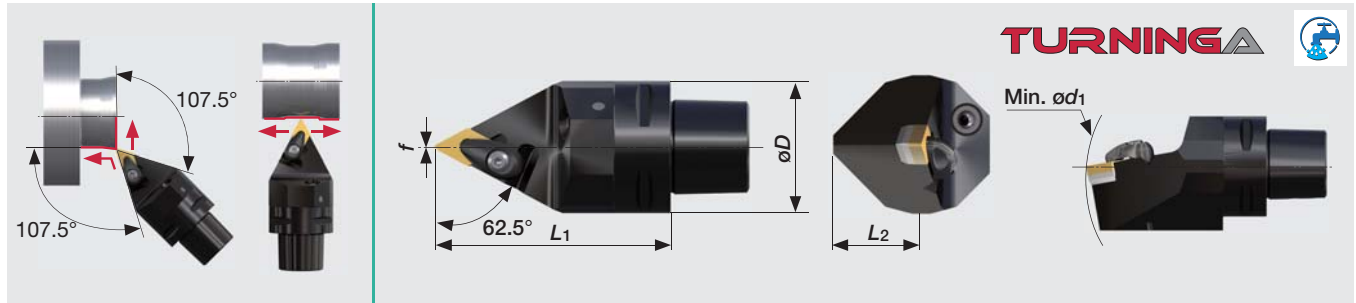


Designation	ϕD	L_1	L_2	f	ϕd_1	ϕd_2	r_e	Insert
C4PDJNR/L27055-1104-CHP	40	55	27	27	145	110	0.8	DN**1104...
C4PDJNR/L27055-15-CHP	40	55	27	27	145	110	0.8	DN**1504...
C5PDJNR/L35060-15-CHP	50	60	32	35	165	110	0.8	DN**1504...
C6PDJNR/L45065-1104-CHP	63	65	35	45	195	95	0.8	DN**1104...
C6PDJNR/L45065-15-CHP	63	65	35	45	190	95	0.8	DN**1504...

Applicable for 14 MPa pressure coolant

External turning and profiling - A type, Double-clamping system

TungCap C-ADNNN



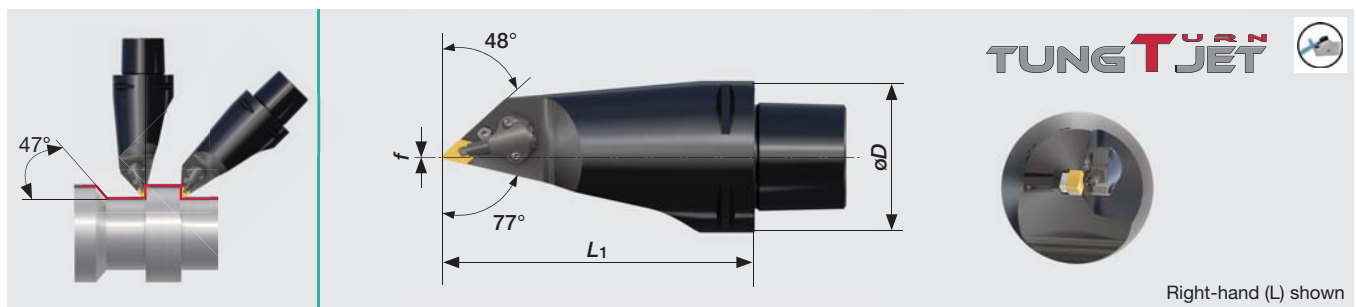
Designation	øD	L ₁	L ₂	f	ød ₁	r _ε	Insert
C5ADNNN00090-15 ⁽¹⁾	50	90	32	0	-	0.8	DN**1504... (DN**1506...)
C5ADNNN00090-15N ⁽²⁾	50	90	32	0	165	0.8	DN**1504... (DN**1506...)
C5ADNNN00125-15 ⁽¹⁾	50	125	32	0	-	0.8	DN**1504... (DN**1506...)
C5ADNNN00125-15N ⁽²⁾	50	125	32	0	165	0.8	DN**1504...(DN**1506...)
C6ADNNN00100-15 ⁽¹⁾	63	100	37.5	0	-	0.8	DN**1504... (DN**1506...)
C6ADNNN00100-15N ⁽²⁾	63	100	37.5	0	190	0.8	DN**1504... (DN**1506...)
C6ADNNN00140-15 ⁽¹⁾	63	140	37.5	0	-	0.8	DN**1504... (DN**1506...)
C6ADNNN00140-15N ⁽²⁾	63	140	37.5	0	190	0.8	DN**1504... (DN**1506...)

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

"-" in Min ød₁: not suitable for internal boring

External turning and profiling - P type, Lever-lock system

TungCap C-PDMNL-CHP



Designation	øD	L ₁	f	r _ε	Insert
C6PDMNL00130-1104-CHP	63	130	0	0.8	DN**1104...

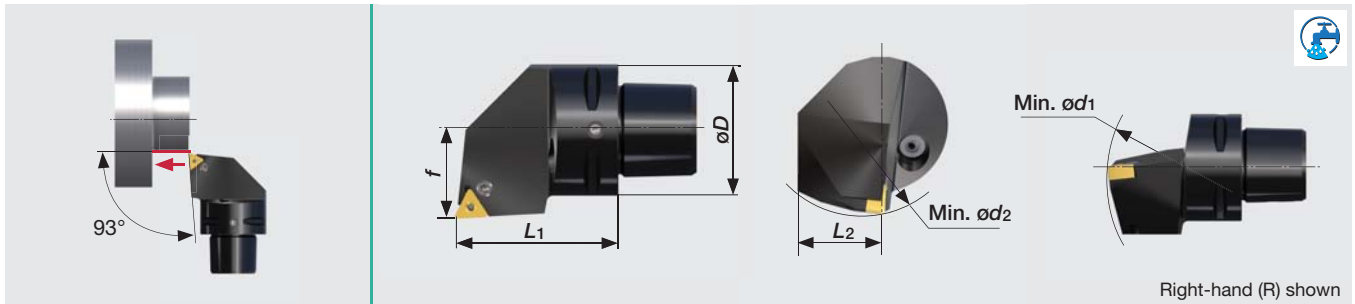
Applicable for 14 MPa pressure coolant

Not suitable for internal boring

Spare parts
P23

External turning - P type, Lever-lock system

TungCap C-PTJNR/L

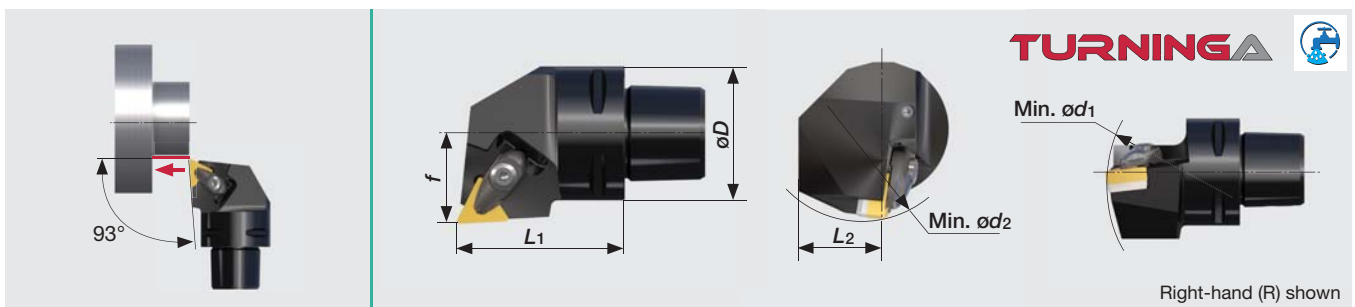


Designation	øD	L ₁	L ₂	f	ød ₁	ød ₂	r _ε	Insert
C4PTJNR/L27050-1104N	40	50	25	27	140	110	0.8	TN**1104**E

Applicable for 7 MPa pressure coolant

External turning - A type, Double-clamping system

TungCap C-ATJNR/L

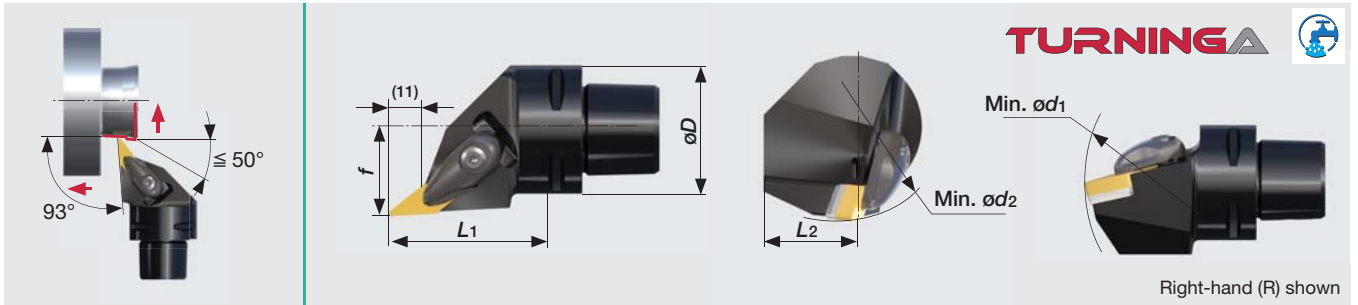


Designation	øD	L ₁	L ₂	f	ød ₁	ød ₂	r _ε	Insert
C4ATJNR/L27050-16N	40	50	25	27	140	110	0.8	TN**1604...

Applicable for 7 MPa pressure coolant

External turning and profiling - A type, Double-clamping system

TungCap C-AVJNR/L

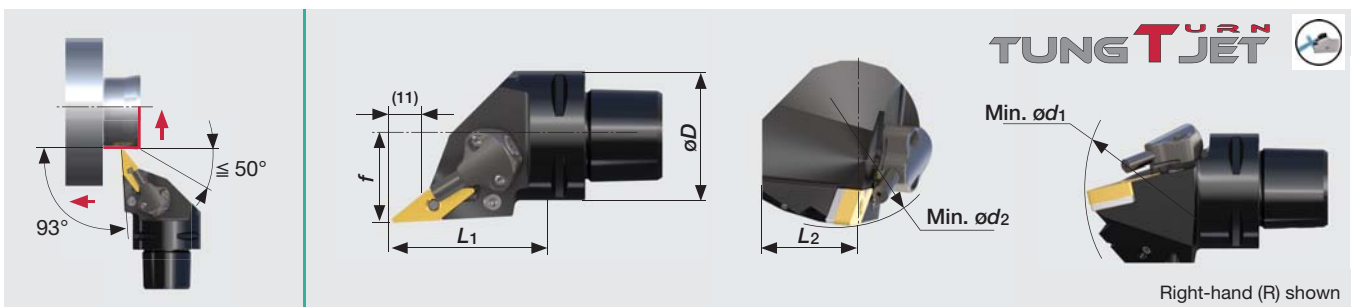


Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_e	Insert
C4AVJNR/L27060-16N	40	60	25	27	140	110	0.8	VN**1604...
C6AVJNR/L45065-16N	63	65	35	45	190	81	0.8	VN**1604...

Applicable for 7 MPa pressure coolant

External turning and profiling - P type, Lever-lock system

TungCap C-PVJNR/L-CHP

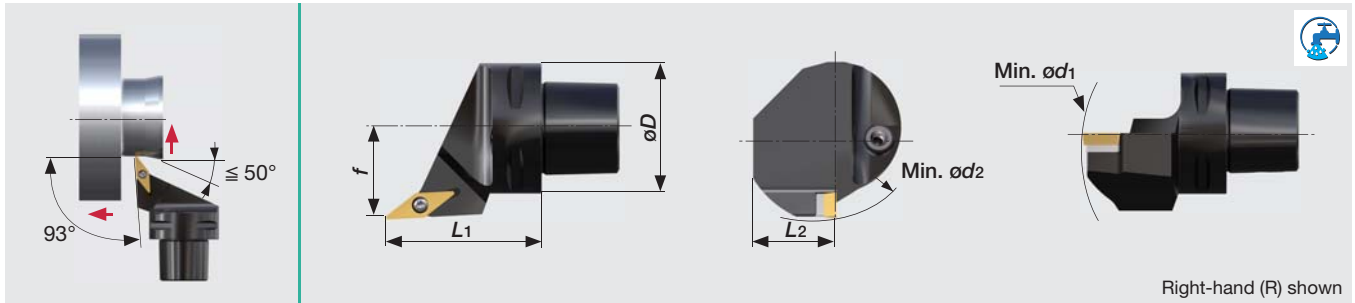


Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_e	Insert
C4PVJNR/L27060-16-CHP	40	60	25	27	140	110	0.8	VN**1604...
C6PVJNR/L45065-16-CHP	63	65	32	45	190	81	0.8	VN**1604...

Applicable for 14 MPa pressure coolant

External turning and profiling - S type, Screw on clamping system

TungCap C-SVJCR/L



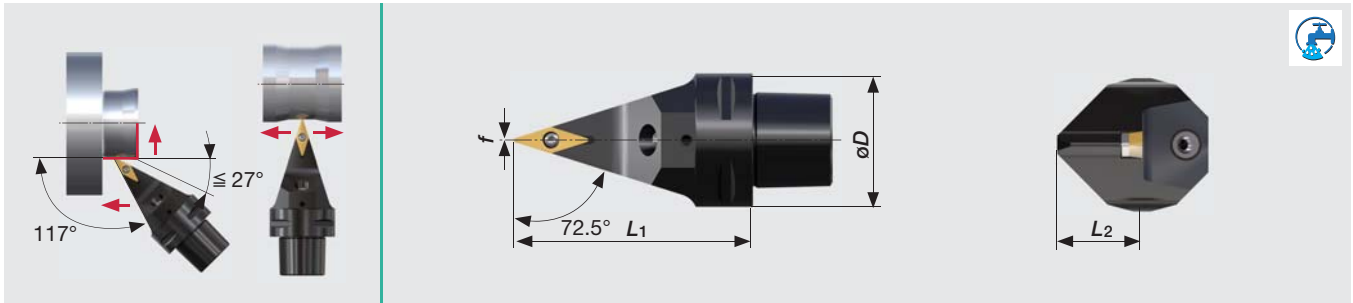
Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_e	Insert
C3SVJCR/L22040-11N ⁽²⁾	32	40	20	22	-	-	0.4	VC**1103...
C4SVJCR/L27050-16N ⁽²⁾	40	50	25	27	140	155	0.8	VC**1604...
C5SVJCL35060-16 ⁽¹⁾	50	60	32	35	-	-	0.8	VC**1604...
C5SVJCR/L35060-16N ⁽²⁾	50	60	32	35	170	160	0.8	VC**1604...
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...

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

"-" in Min $\varnothing d_1$ and $\varnothing d_2$: not suitable for internal boring

External turning and profiling - S type, Screw on clamping system

TungCap C-SVVCN



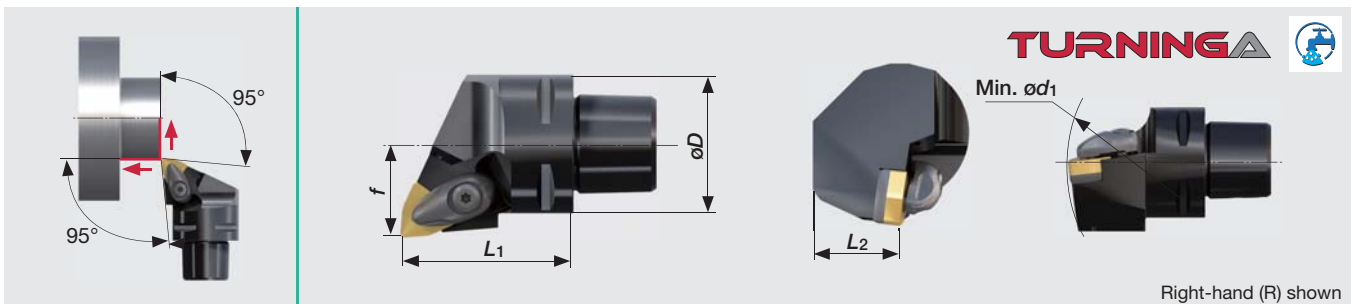
Designation	øD	L ₁	L ₂	f	r _e	Insert
C5SVVCN00090-16 ⁽¹⁾	50	90	32	0	0.8	VC**1604...
C5SVVCN00090-16N ⁽²⁾	50	90	32	0	0.8	VC**1604...
C5SVVCN00125-16 ⁽¹⁾	50	125	32	0	0.8	VC**1604...
C5SVVCN00125-16N ⁽²⁾	50	125	32	0	0.8	VC**1604...
C6SVVCN00100-16 ⁽¹⁾	63	100	37.5	0	0.8	VC**1604...
C6SVVCN00100-16N ⁽²⁾	63	100	37.5	0	0.8	VC**1604...
C6SVVCN00140-16 ⁽¹⁾	63	140	37.5	0	0.8	VC**1604...
C6SVVCN00140-16N ⁽²⁾	63	140	37.5	0	0.8	VC**1604...

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

Not suitable for internal boring

External turning and facing - A type, Double-clamping system

TungCap C-AWLNR/L



Designation	øD	L ₁	L ₂	f	ød ₁	ød ₂	r _e	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...

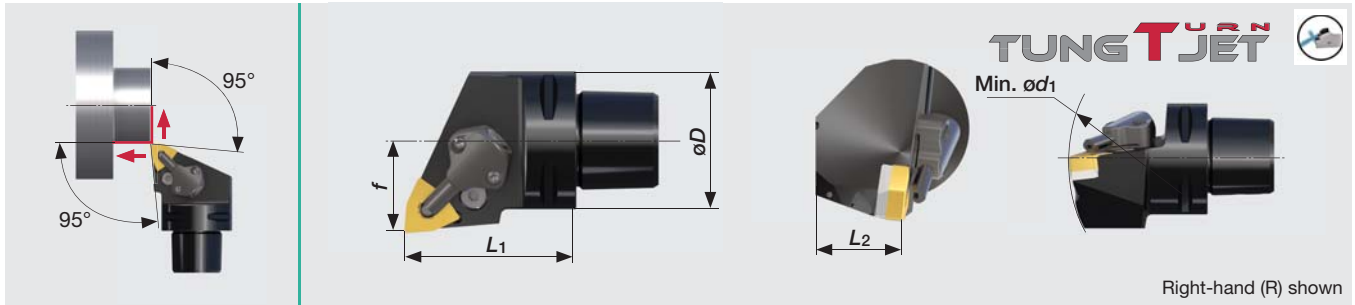
Applicable for 7 MPa pressure coolant

"-" in Min ød₁ and ød₂: not suitable for internal boring

Spare parts
P23

External turning and facing - P type, Lever-lock system

TungCap C-PWLNLR/L-CHP



Designation	$\varnothing D$	L_1	L_2	f	$\varnothing d_1$	$\varnothing d_2$	r_e	Insert
C4PWLNLR/L27050-0 604-CHP	40	50	25	27	140	110	0.8	WN**0604...
C4PWLNLR/L27050-08-CHP	40	50	25	27	140	110	0.8	WN**0804...
C6PWLNLR/L45065-08-CHP	63	65	41	45	190	110	0.8	WN**0804...

Applicable for 14 MPa pressure coolant

SPARE PARTS FOR A-TYPE



Designation	Insert	Shim	Shim screw	Clamp	Clamping screw	Spring	Spring 1	Wrench	Coolant parts
C*ACLN/L	CN**0904**E	ASC322	CSTB-3.5	ACP3S-E	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ACLN/L	CN**1204...	ASC422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ACLNN	CN**1204...	ASC422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ACMNN	CN**0904**E	ASC322	CSTB-3.5	ACP3S-E	ACS-5W	BP-7	SP-2.5	T-15F	
C*ACMNN	CN**1204...	ASC422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	
C*ADJNR/L	DN**1104**E	ASD322	CSTB-3.5	ACP3S-E	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ADJNR/L	DN**1504...	ASD432	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ADJNR/L	DN**1506...	ASD423	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ADNNN	DN**1104**E	ASD322	CSTB-3.5	ACP3S-E	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ADNNN	DN**1504...	ASD432	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*ADNNN	DN**1506...	ASD423	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	SATZ-M10X1-5
C*AWLNR/L	WN**0604**E	ASW322	CSTB-3.5	ACP3S-E	ACS-5W	BP-7	SP-2.5	T-15F	
C*AWLNR/L	WN**0804...	ASW422	CSTB-3.5	ACP4S	ACS-5W	BP-7	SP-2.5	T-15F	
C*AVJNR/L	VN**1604...	ASV322	CSTB-3.5	ACP3L	ACS-5W	BP-7	SP-2.5	T-15F	

SPARE PARTS FOR P-TYPE



Designation	Insert	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant parts
C*PCLNR/L	CN**1204...	LSC42	LSP4	LCL4	LCS4	P-3	SAZ-M8X1-M3
C*PDJNR/L	DN**1504...	LSD43A	LSP4	LCL4	LCS4	P-3	SATZ-M10X1-5
C*PDJNR/L	DN**1506...	LSD42A	LSP4S	LCL4	LCS4	P-3	SATZ-M10X1-5

SPARE PARTS FOR S-TYPE



Designation	Insert	Shim	Shim screw	Clamping screw	Wrench	Wrench 1	Coolant parts
C4SVJCR	VC**1604...	SSV32	DTS5-3.5	CSTB-3.5	T-15F	P-3	SAZ-M8X1-M3
C5SVJCR	VC**1604...	SSV32	DTS5-3.5	CSTB-3.5	T-15F	P-3	SAZ-M8X1-M3
C6SVJCR	VC**1604...	SSV32	DTS5-3.5	CSTB-3.5	T-15F	P-3	SATZ-M10X1-5
C*SVVCN	VC**1604...	SSV32	DTS5-3.5	CSTB-3.5	T-15F	P-3	SATZ-M10X1-5

SPARE PARTS FOR CHP-TYPE



Designation	Insert	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant parts
C*PCLNR/L...0904-CHP	CN**0904...	LSC317	LSP3	LCL33	LCS3	P-2.5	CU-CW-CHP
C*PCLNR/L...-12-CHP	CN**1204...	LSC42	LSP4	LCL4	LCS4	P-3	CU-CW-CHP
C6PCMNN00130-12-CHP	CN**1204...	LSC42	LSP4	LCL4	LCS4	P-3	CU-CW-CHP
C*PDJNR/L...-1104-CHP	DN**1104...	ELSD32	LSP3	LCL33L	LCS3	P-2.5	CU-D-CHP
C*PDJNR/L...-15-CHP	DN**1504...	LSD43A	LSP4	LCL4	LCS4	P-3	CU-D-CHP
C*PDJNR/L...-15-CHP	DN**1506...	LSD42A	LSP4	LCL4	LCS4	P-3	CU-D-CHP
C6PDMNL00130-1104-CHP	DN**1104...	ELSD32	LSP3	LCL33L	LCS3	P-2.5	CU-D-CHP
C*PVJNR/L...-16-CHP	VN**1604...	LSV317	LSP3	LCL3V	LCS3V	P-2.5	CU-V-CHP
C*PWLNR/L...-0604-CHP	WNM**0604...	LSW312	LSP3	LCL3	LCS3	P-2.5	CU-CW-CHP
C*PWLNR/L...-08-CHP	WNM**0804...	LSW42BL	LSP4	LCL4	LCS4	P-3	CU-CW-CHP

COOLANT SET

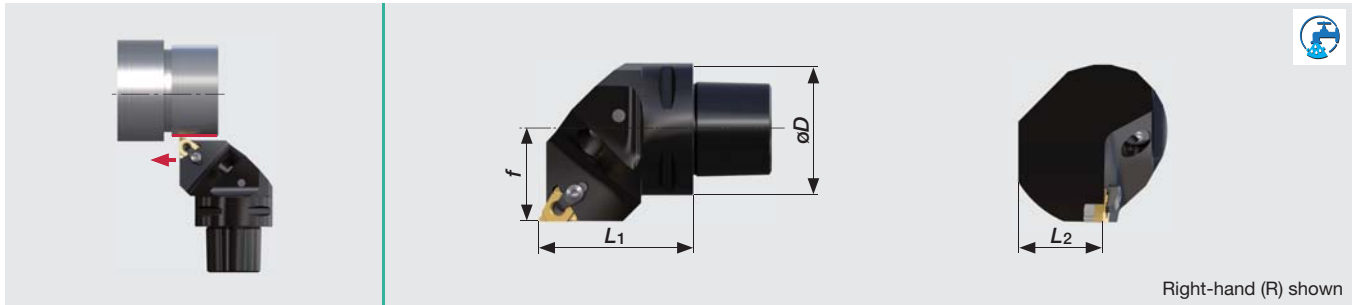


Designation	Coolant unit	Mounting screw	Wrench 2	O-ring
C*PCLNR/L...-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N
C6PCMNN00130-12-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N
C*PDJNR/L...-CHP	CU-D-CHP	SRM3	T-8F	OR6.4X0.9N
C6PDMNL00130-1104-CHP	CU-D-CHP	SRM3	T-8F	OR6.4X0.9N
C*PVJNR/L...-16-CHP	CU-V-CHP	SRM3	T-8F	OR6.4X0.9N
C*PWLNR/L...-CHP	CU-CW-CHP	SRM3	T-8F	OR6.4X0.9N

Toolholders for threading








External threading - Dual method clamp type, Screw-on / Clamp-on

TungCap C-CER/L



Designation	ϕD	L_1	L_2	f	r_e	Insert
C3CER/L22040-16ERN ⁽²⁾	32	40	20	22	0.8	16ER/L
C4CER/L27050-16ERN ⁽²⁾	40	50	25	27	0.8	16ER/L
C5CEL35060-16ER ⁽¹⁾	50	60	32	35	0.8	16ER/L
C5CER/L35060-16ERN ⁽²⁾	50	60	32	35	0.8	16ER/L
C6CER/L45065-16ER ⁽¹⁾	63	65	41	45	0.8	16ER/L
C6CER/L45065-16ERN ⁽²⁾	63	65	41	45	0.8	16ER/L

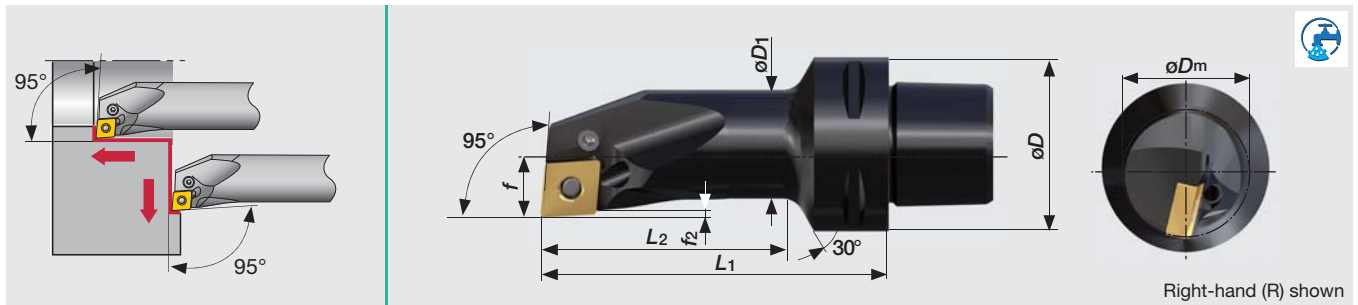
(1) Applicable for 3 MPa pressure coolant (2) Applicable for 7 MPa pressure coolant

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

Toolholders for internal turning

Internal turning and facing - P type, Lever-lock system

TungCap C-PCLNR/L

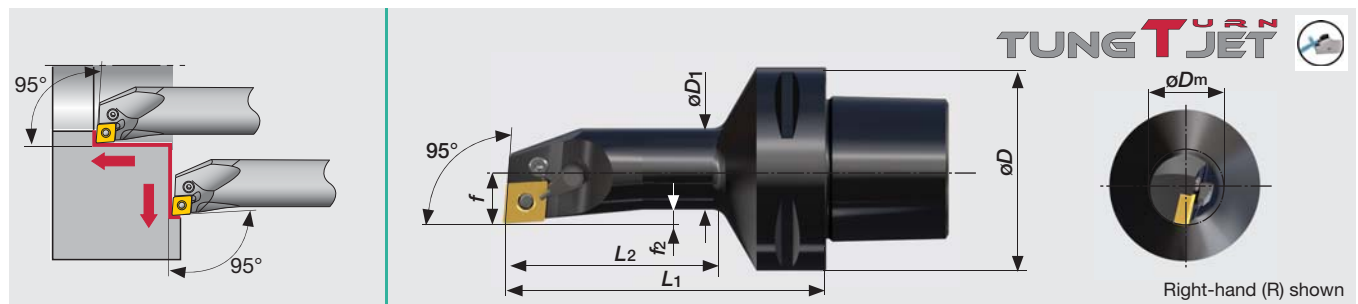


Designation	ϕD_m	ϕD	ϕD_1	L_1	L_2	f	f_2	r_e	Insert
C3PCLNR17090-12	32	32	25	90	71	17	1.6	0.8	CN**1204...
C4PCLNR17090-0904	32	40	25	90	63	17	1.3	0.8	CN**0904**E
C4PCLNR/L17080-12	32	40	25	80	58.5	17	1.6	0.8	CN**1204...
C4PCLNR22110-0904	40	40	32	110	86.5	22	1.3	0.8	CN**0904**E
C4PCLNR27120-0904	50	40	39.5	120	100	27	1.7	0.8	CN**0904**E

Applicable for 14 MPa pressure coolant

Internal turning and facing - P type, Lever-lock system

TungCap C-PCLNR/L-CHP

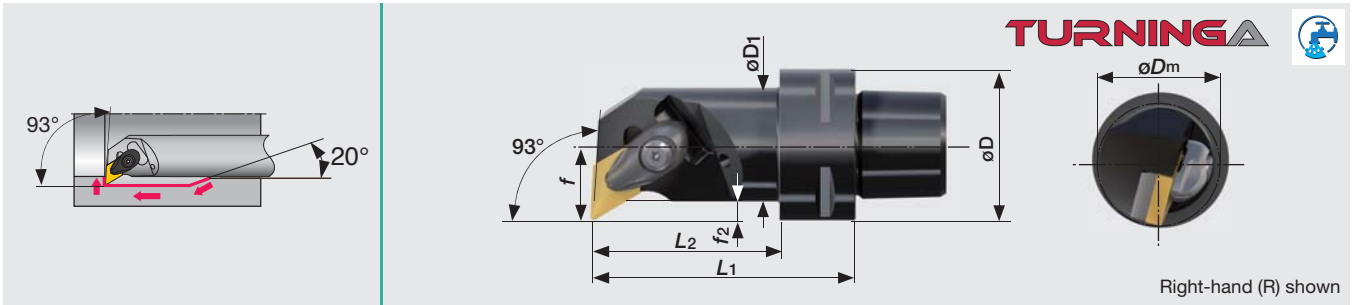


Designation	ϕD_m	ϕD	ϕD_1	L_1	L_2	f	f_2	r_e	Insert
C6PCLNL17100-12-CHP	32	63	25	100	67.5	17	4.5	0.8	CN**1204...

Applicable for 14 MPa pressure coolant

Internal turning and profiling - A type, Double-clamping system

TungCap C-ADUNR/L

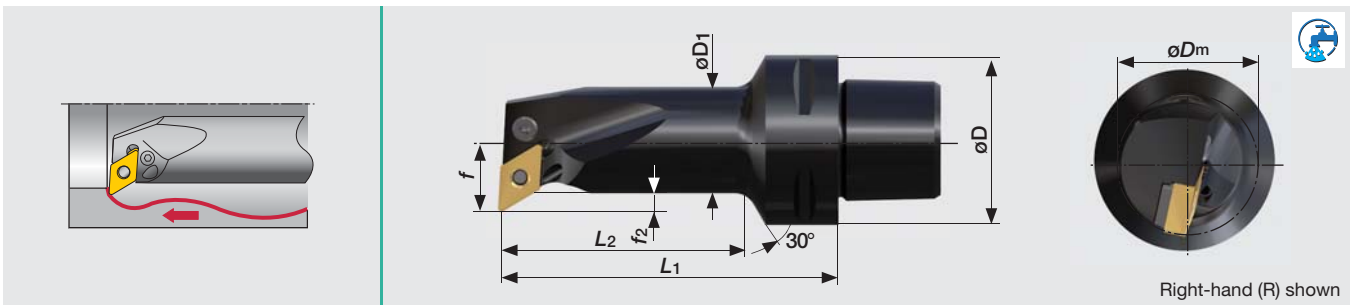


Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C4ADUNR20070-15	38	40	30	70	50	20	5	0.8	DN**1504...
C4ADUNR27090-15	50	40	40	90	-	27	7	0.8	DN**1504...

Applicable for 14 MPa pressure coolant

Internal turning and profiling - P type, Lever-lock system

TungCap C-PDUNR/L

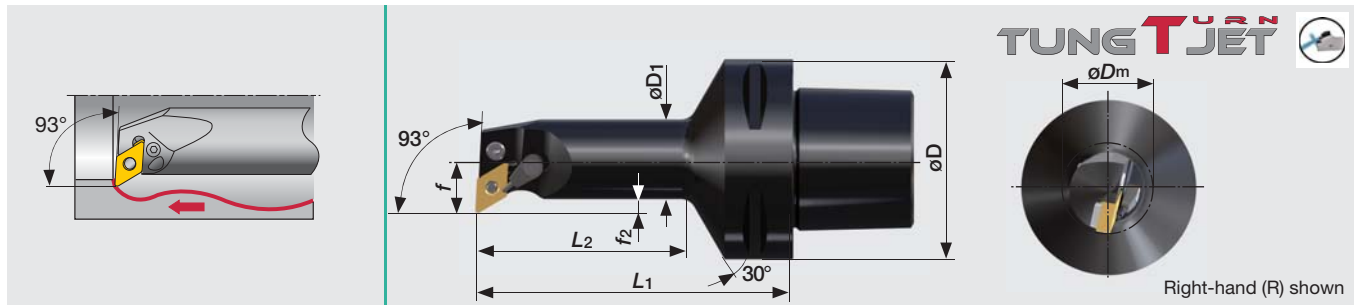


Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C4PDUNR/L17080-11	32	40	25	80	58.5	17	4.4	0.4	DN**1104...

Applicable for 14 MPa pressure coolant

Internal turning and profiling - P type, Lever-lock system

TungCap C-PDUNR/L

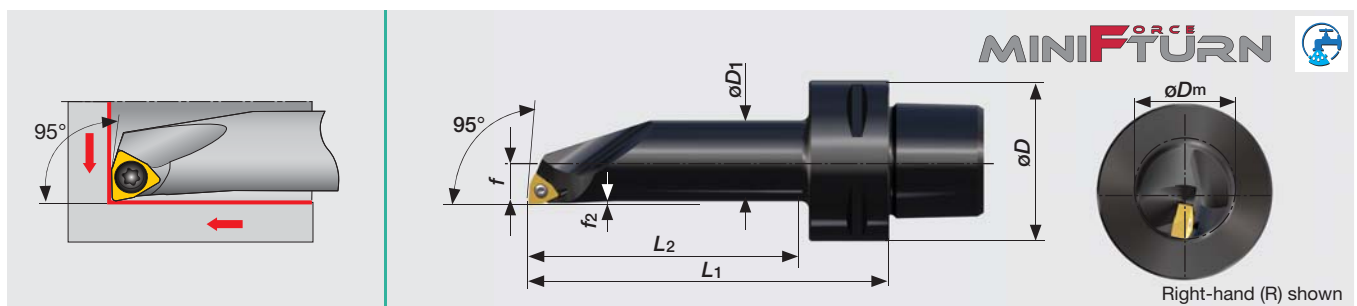


Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C6PDUNL17100-1104-CHP	32	63	25	100	67.5	17	4.5	0.8	DN**1104...

Applicable for 14 MPa pressure coolant

Internal turning and facing - S type, Screw on clamping system

TungCap C-SWLXR/L



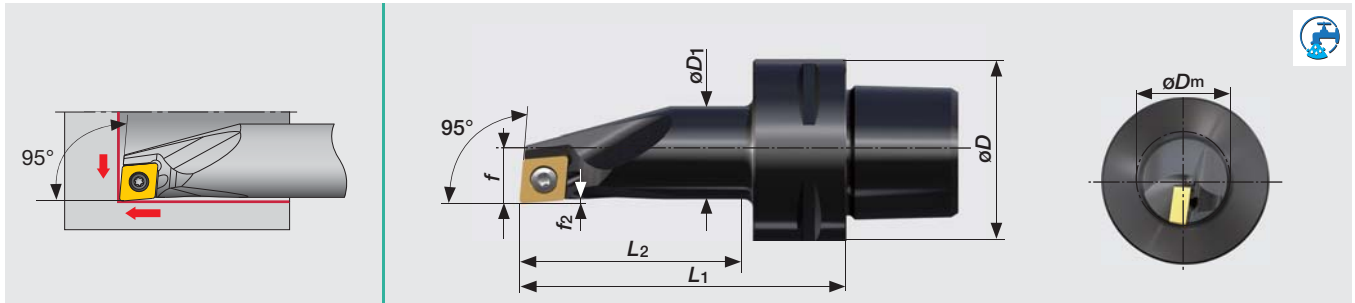
Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C4SWLXR11070-04	22	40	20	70	47	11	0.4	0.4	WXGU0403**L...

Applicable for 14 MPa pressure coolant

Note: Right-hand tool holders (R) are used with left-hand inserts (L).

Internal turning and facing - S type, Screw on clamping system

TungCap C-SCLCR

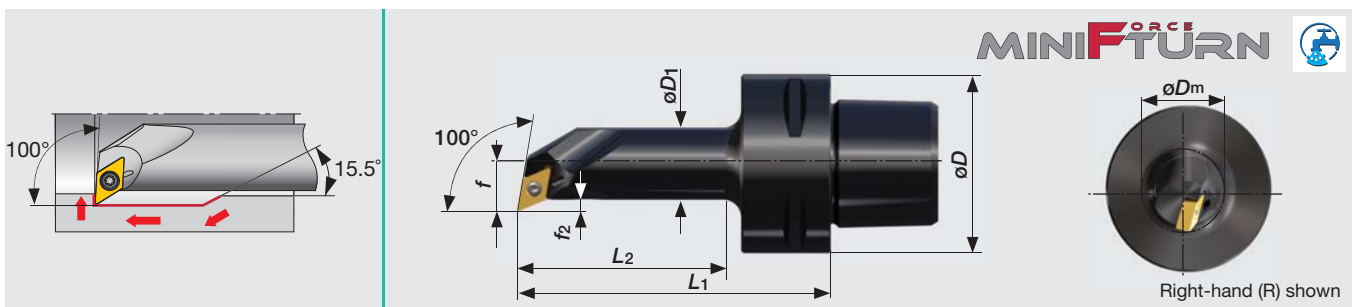


Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C3SCLCR11070-09	22	32	19.8	70	52	11	1.0	0.8	CC**09...
C4SCLCR11070-09	22	40	19.8	70	47	11	1.0	0.8	CC**09...

Applicable for 14 MPa pressure coolant

Internal turning and facing - S type, Screw on clamping system

TungCap C-SDXXR



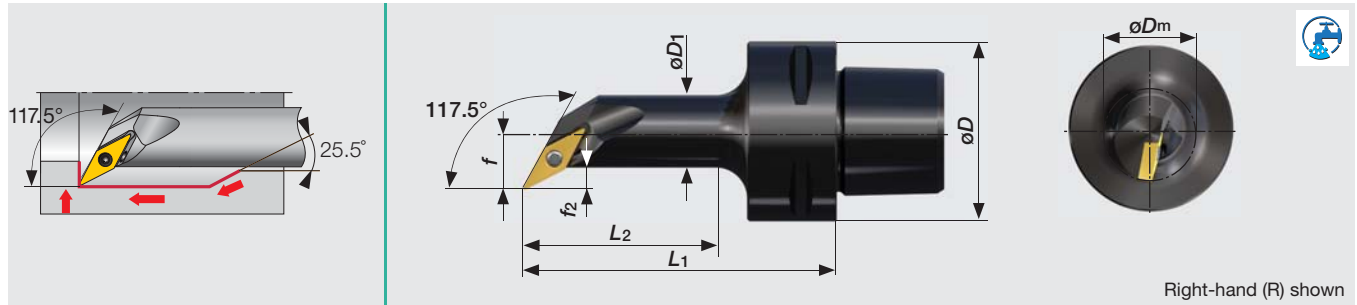
Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	Insert
C3SDXXR11065-07	20	32	16	65	45	10.6	2.5	0.4	DXGU0703**L...
C3SDXXR13080-07	24	32	20	80	62	12.6	2.5	0.4	DXGU0703**L...
C4SDXXR11070-07	20	40	16	70	46	10.6	2.5	0.4	DXGU0703**L...
C4SDXXR13080-07	24	40	20	80	58	12.6	2.5	0.4	DXGU0703**L...

Applicable for 14 MPa pressure coolant

Note: Right-hand tool holders (R) are used with left-hand inserts (L).

Internal turning and facing - S type, Screw on clamping system

TungCap C-SVQBR/L



Designation	$\varnothing D_m$	$\varnothing D$	$\varnothing D_1$	L_1	L_2	f	f_2	r_e	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 14 MPa pressure coolant

SPARE PARTS FOR P-TYPE (CN** Insert)

Designation	Insert	Shim	Shim screw	Spring pin	Lever	Wrench
C*PCLNR17	CN**0904**E	-	LCS33	-	LCL33N	P-2F
C*PCLNR/L17	CN**1204...	-	LCS43	-	LCL43N	P-2.5F
C*PCLNR22/27	CN**0904**E	LSC317	LCS3	LSP3	LCL33	P-2.5F
C*PCLNL17-CHP	CN**1204...	-	LCS43	-	LCL43N	P-2.5F

SPARE PARTS FOR A-TYPE

Designation	Clamp	Clamping screw	Shim screw	Shim	Spring	Spring pin	Wrench
C4ADUNR	ACP4S	CSTB-3.5	ACS-5W	ASD423(04)	BP-7	SP-2.5	T-15F

SPARE PARTS FOR P-TYPE (DN** Insert)

Designation	Insert	Lever	Shim screw	Shim	Spring pin	Wrench
C4PDUNR-11	DN**1104...	LCL33L	LCS33	ELSD317BR	LSP3	P-2.5
C6PDUNL-CHP	DN**1104...	LCL33L	LCS43	ELSD317BL	LSP3	P-2.5

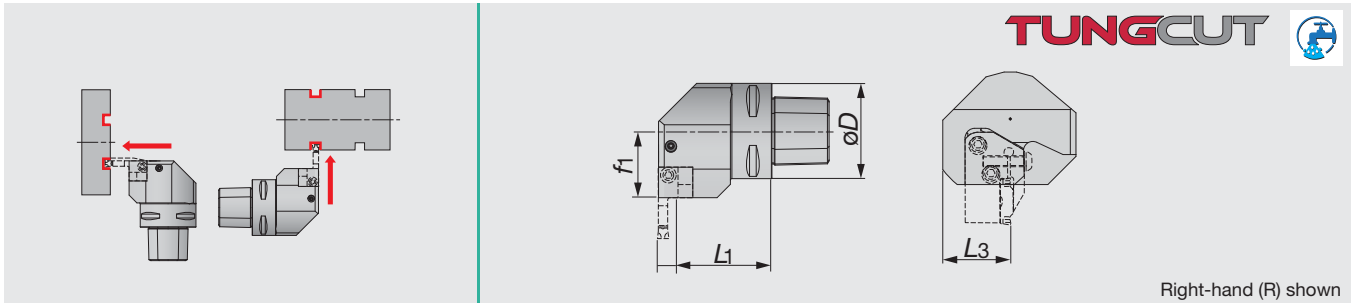
SPARE PARTS FOR S-TYPE

Designation	Insert	Shim screw	Wrench
C4SWLXR	WXGU0403...	SR34-514	T-7F
C4DXXR	DXGU0703...	SR34-514	T-7F
C4SVQBR-11	VB**1103...	CSTB-2.5	T-6F
C4SVQBR-16	VB**1604...	CSTB-3.5	T-15F

Toolholders for grooving

Grooving

TungCap C-CHFVR/L



Designation	ϕD	L_1	A	L_3	f_1	B
C3CHFVR/L22040N ⁽²⁾	32	32.5	Table*	35	22	Table*
C4CHFVR/L27050N ⁽²⁾	40	42.5	Table*	36	27	Table*
C5CHFVR/L35060N ⁽²⁾	50	49.5	Table*	36	35	Table*
C6CHFVR45065 ⁽¹⁾	63	54.5	Table*	41	45	Table*
C6CHFVR/L45065N ⁽²⁾	63	54.5	Table*	41	45	Table*

*See the below table for offset dimensions

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

Combination of blade and toolholder

Toolholder	Blade			
	CAER□□□	CAEL□□□	CAFR□□□	CAFL□□□
CHFVR***	-	●	●	-
CHFVL***	●	-	-	●

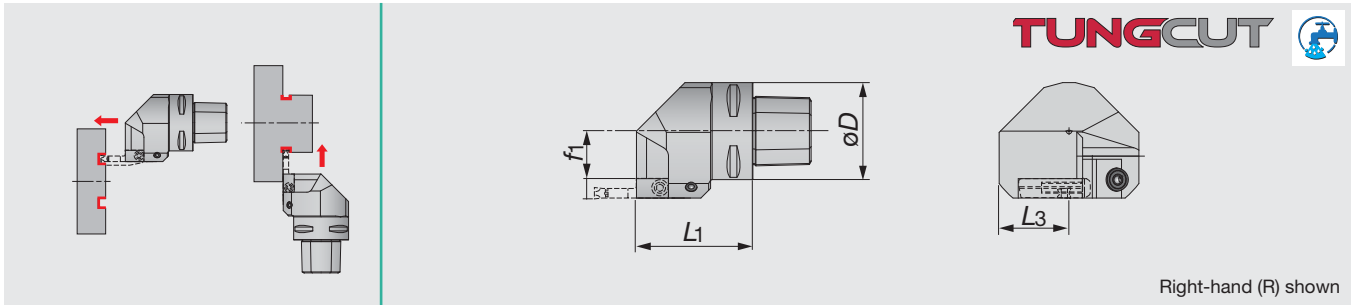
● : Correspondence

*Table: Offset dimensions for blade

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

Grooving





TungCap C-CHSR/L



Designation	øD	L ₁	A	L ₃	f ₁	B
C3CHSR/L22050N ⁽²⁾	32	50	Table*	35	11.5	Table*
C4CHSR/L27050N ⁽²⁾	40	50	Table*	36	16.5	Table*
C5CHSR/L35060 ⁽¹⁾	50	60	Table*	36	24.5	Table*
C5CHSR/L35060N ⁽²⁾	50	60	Table*	36	24.5	Table*
C6CHSR/L45065N ⁽²⁾	63	65	Table*	41	34.5	Table*

*See the below table for offset dimensions

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

SPARE PARTS				
Designation	Coolant parts	Coolant parts 1	Clamping screw	Wrench
C4CHS*27050N	SATZ-M8X1-M3	-	CSHB-6-A	P-4
C5CHS*35060	CNZ125	PNZ5	CSHB-6-A	P-4
C*CHS**506*N	SATZ-M10X1-M5	-	CSHB-6-A	P-4

Combination of blade and toolholder

Toolholder	Blade			
	CAER□□□	CAEL□□□	CAFR□□□	CAFL□□□
CHSR***	●	-	-	●
CHSL***	-	●	●	-

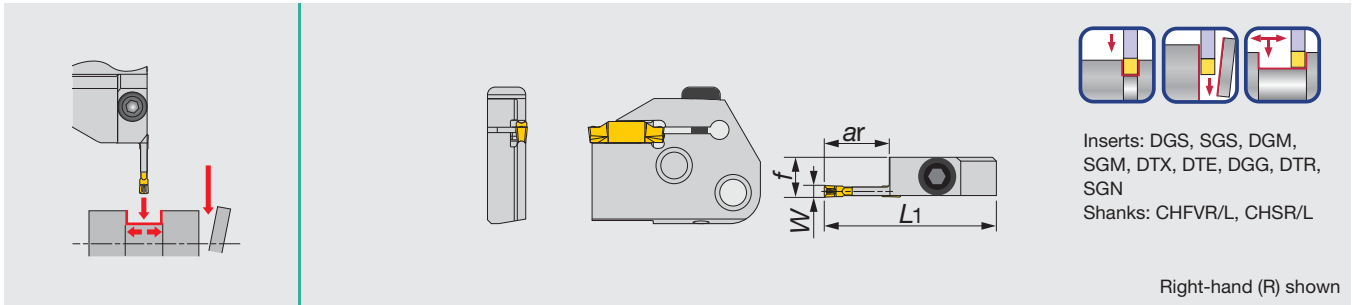
● : Correspondence

*Table: Offset dimensions for blade

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

Blades for external grooving and turning

TungCap CAE R/L



Seat size	Designation	ar	L_1	f	W
3	CAER/L-3T16	16	45	10.4	3
4	CAER/L-4T16	16	45	10.5	4
5	CAER/L-5T20	20	49	10.5	5
6	CAER/L-6T20	20	49	10.5	6

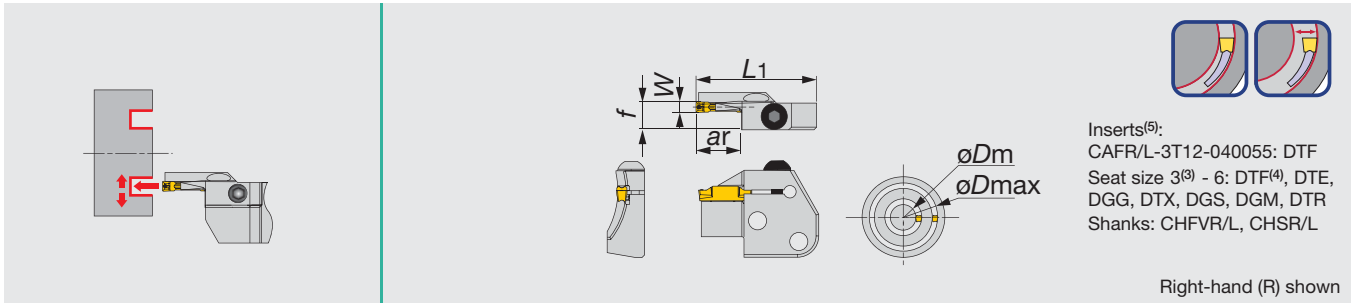
SPARE PARTS



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

Blades for face grooving and turning

TungCap CAF R/L



Seat size	Designation	øDm	øD Max	ar	L ₁	f ⁽²⁾	W
3	CAFR/L-3T12-040055	40	55	12	45	10.4	3
3	CAFR/L-3T12-055075	55	75	12	45	10.4	3
3	CAFR/L-3T12-075100	75	100	12	45	10.4	3
3	CAFR/L-3T12-100140	100	140	12	45	10.4	3
3	CAFR/L-3T12-140200	140	200	12	45	10.4	3
4	CAFR/L-4T16-050070	50	70	16	45	10.5	4
4	CAFR/L-4T16-070100	70	100	16	45	10.5	4
4	CAFR/L-4T16-100150	100	150	16	45	10.5	4
4	CAFR/L-4T16-150250	150	250	16	45	10.5	4
5	CAFR/L-5T20-055080	55	80	20	49	10.5	5
5	CAFR/L-5T20-080120	80	120	20	49	10.5	5
5	CAFR/L-5T20-120180	120	180	20	49	10.5	5
5	CAFR/L-5T20-180300	180	300	20	49	10.5	5
5	CAFR/L-5T20-300000	300	∞	20	49	10.5	5
6	CAFR/L-6T25-060090	60	90	25 ⁽¹⁾	55	10.5	6
6	CAFR/L-6T25-090150	90	150	25 ⁽¹⁾	55	10.5	6
6	CAFR/L-6T25-150250	150	250	25 ⁽¹⁾	55	10.5	6
6	CAFR/L-6T25-250400	250	400	25 ⁽¹⁾	55	10.5	6

(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.

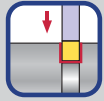
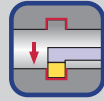

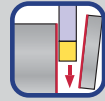
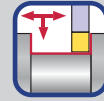
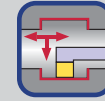

SPARE PARTS



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

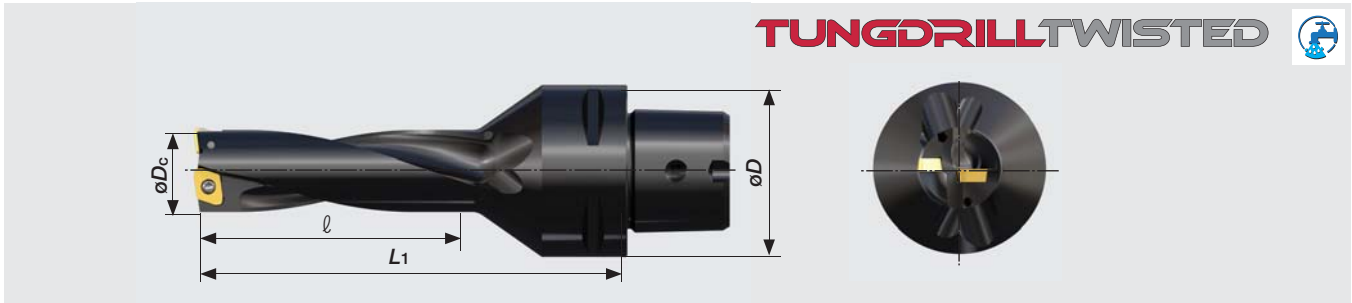
Insert	øDm (mm)	Note
DTE 3 / DGS 3 / DGM 3	ø44	When diameter is smaller than øDm, DTF or DTX type insert is recommended.
DTE 4 / DGS 4 / DGM 4	ø42	
DTE 5 / DGS 5 / DGM 5	ø50	
DTE 6 / DGS 6 / DGM 6	ø48	

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	●						

Drills

TungCap C-TDX



Designation	$\varnothing D$	$\varnothing D_c$	L_1	ℓ	Max. offset	Insert
C4TDX150L082-3	40	15	82	45	0.9	XPMT050204R-D*
C4TDX200L101-3	40	20	101	60	0.5	XPMT06X308R-D*
C4TDX250L125-3	40	25	125	75	0.4	XPMT07H308R-D*
C4TDX300L139-3	40	30	139	90	0.7	XPMT08T308R-D*
C6TDX200L101-3	63	20	101	60	0.5	XPMT06X308R-D*
C6TDX250L121-3	63	25	121	75	0.4	XPMT07H308R-D*
C6TDX300L139-3	63	30	139	90	0.7	XPMT08T308R-D*
C6TDX350L159-3	63	35	159	105	1.8	XPMT110412R-D*
C6TDX400L177-3	63	40	177	120	0.5	XPMT110412R-D*

Applicable for 14 MPa pressure coolant

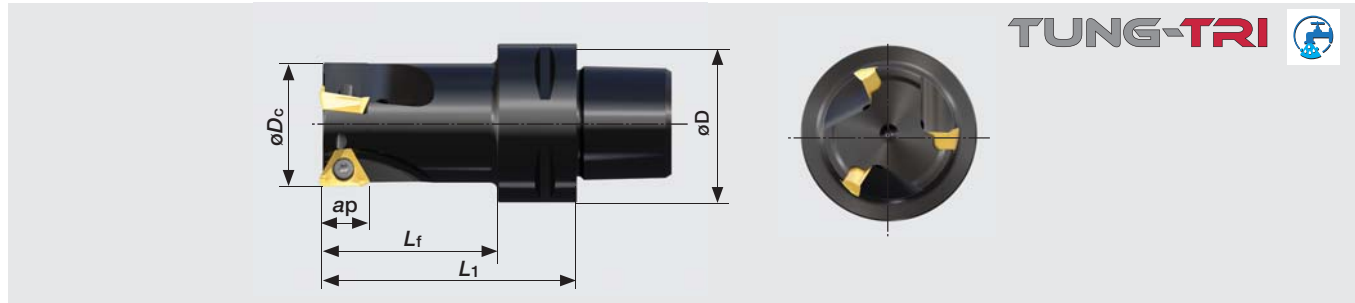
SPARE PARTS



Designation	Shim 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

Square shoulder milling

TungCap C-EPA



Designation	Max. ap	ϕD	ϕD_c	z	L_1	L_f	Air hole	Insert
C4EPA10M032R03L065	10	40	32	3	45	45	With	TOMT1004...
C4EPA10M035R03L065	10	40	35	3	45	45	With	TOMT1004...
C6EPA15M040R03L080	15	63	40	3	58	58	With	TOMT1506...
C6EPA15M040R03L080	15	63	63	3	80	80	With	TOMT1506...

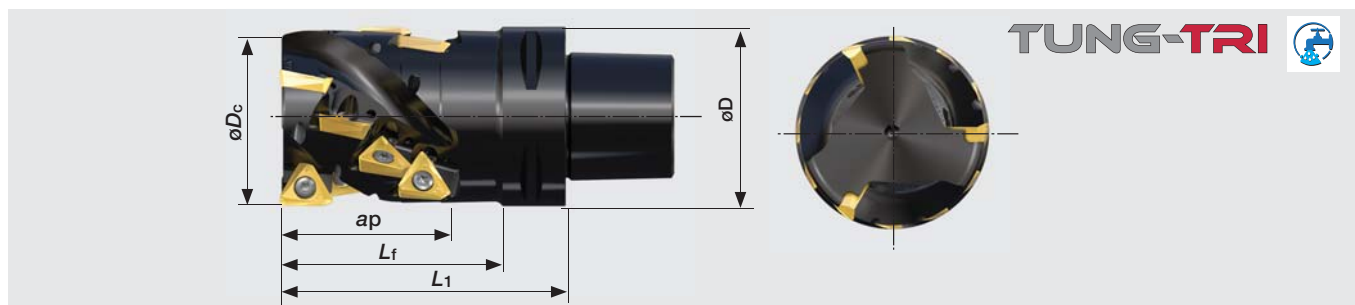
Applicable for 14 MPa pressure coolant

SPARE PARTS

Designation	Shim screw	Torx bit	Grip
C4EPA10M0**R03L065	SR14-562/S	BLDT10/S7	SW6-SD
C6EPA15M040R03L080	TS45120I	BT20S	H-TB2W

Square shoulder milling (for large depth of cut)

TungCap C-TLA



Designation	Max. ap	ϕD	ϕD_c	Z_{eff}	z	L_1	L_f	Air hole	Insert
C6TLA15M063R03L100	55	63	63	12	3	100	78	With	TOMT1506...
C6TLA15M080R04L110	70	63	80	20	4	110	86.2	With	TOMT1506...

Applicable for 14 MPa pressure coolant

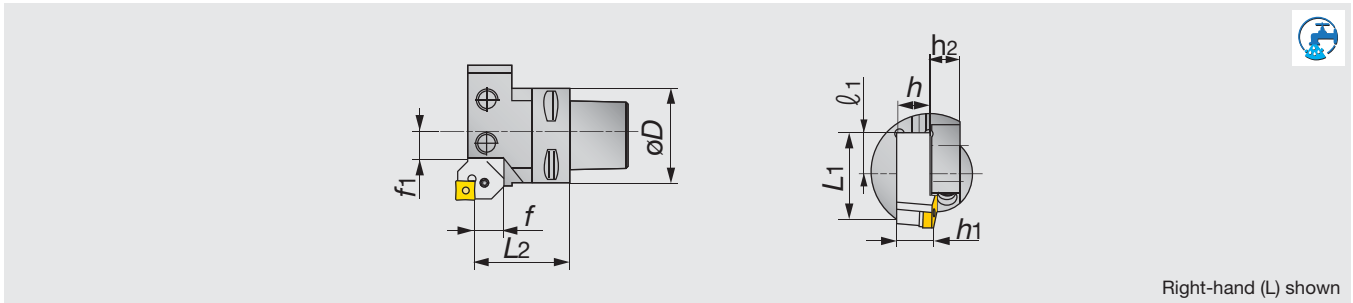
SPARE PARTS

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

Adapters

Adapters for square shank toolholders

TungCap C-ADER/L



Designation	$\varnothing D$	L_2	f_1	f	h	h_1	h_2	L_1	\varnothing_1
C3ADE-16R/L	32	45	17	16	16	16	20	45	20
C4ADE-20R/L	40	49.2	8	20	20	20	26	57	32
C5ADE-20R/L	50	55.2	8	20	20	20	26	57	32

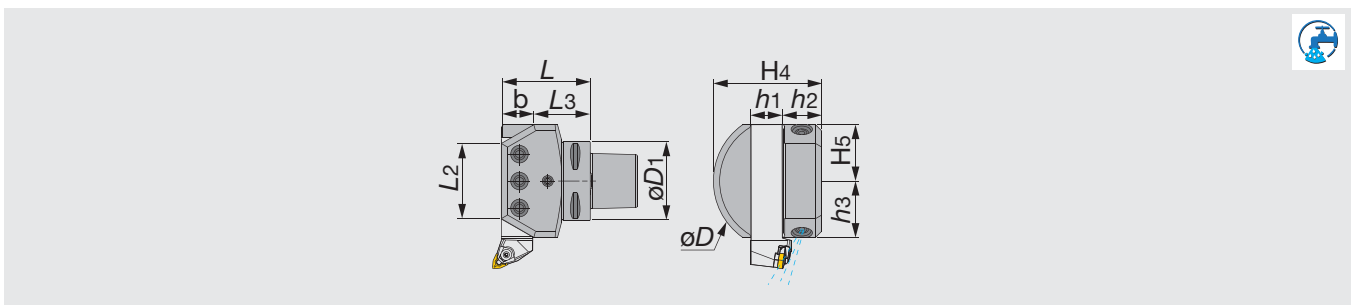
Regular shank should be shortened.
Applicable for 10 MPa pressure coolant

SPARE PARTS

Designation	Clamping screw
C3ADE-16R/L	SRM10X20DIN91545H
C4ADE-20R/L	SRM10X20DIN912
C5ADE-20R/L	SRM10X16

Adapters for square shank toolholders

TungCap C-ASHA

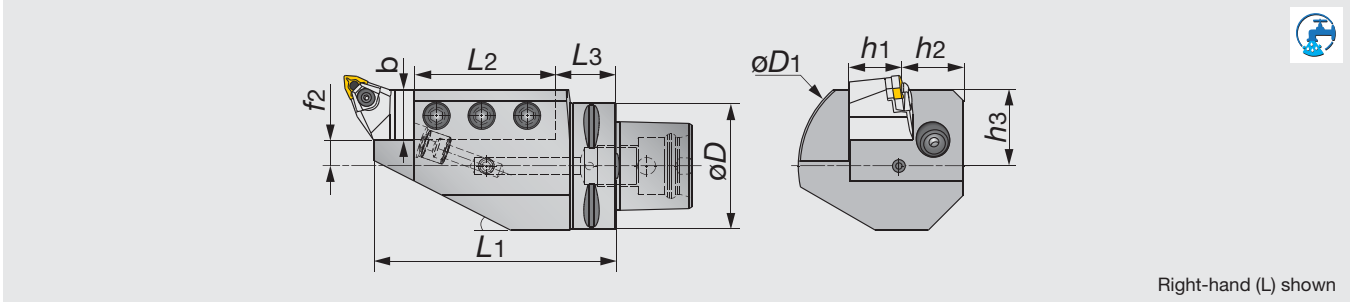


Designation	$\varnothing D_1$	h_1	b	L	L_2	L_3	h_3	H_5	h_2	H_4	$\varnothing D$
C5ASHA20	50	20	20	58	46	38	38	38	31.5	76.5	90
C6ASHA20	63	20	20	60	46	40	38	38	31.5	76.5	90
C6ASHA25	63	25	25	71	61	46	45	45	31.6	86.6	110

Applicable for 10 MPa pressure coolant

Adapters for square shank toolholders

TungCap C-ASHR/L



Designation	$\varnothing D$	L_1	L_2	L_3	f_2	h_1	b	h_2	h_3	$\varnothing D_1$
C5ASHR/L201	50	98	63.5	24.5	10	20	20	33	30	90
C6ASHR251-J	63	120	82	38	4.5	25	25	31.5	29.5	90
C6ASHL251	63	120	70	30	13	25	25	32	38	100
C8ASHR/L32-1	80	140	95	35	8	32	32	32	40	110

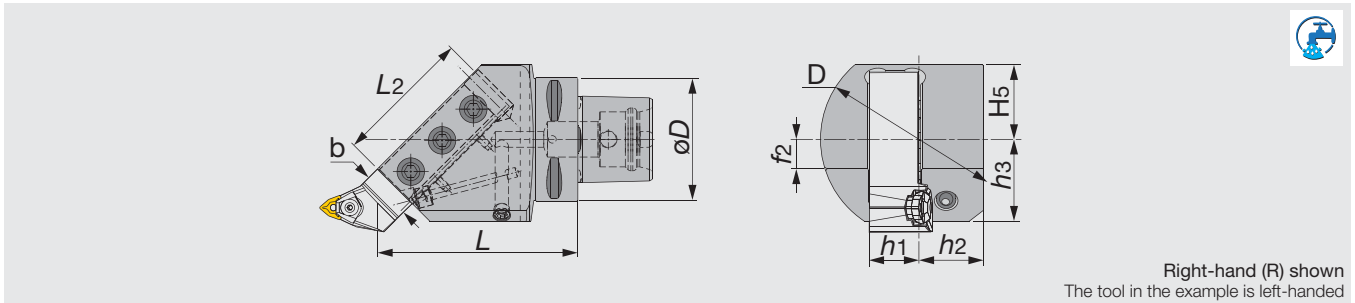
Regular shank should be shortened.
Applicable for 10 MPa pressure coolant

SPARE PARTS

Designation	Clamping screw
C5ASHR/L201	SRM10X25DIN91545H
C6ASHR251-J	SRM12X30DIN91545H
C6ASHR/L251	SRM12X30DIN91545H
C8ASHR/L32-1	SRM12X30DIN91545H

Adapters for square shank toolholders with 45° slanted

TungCap C-ASHR/L-45

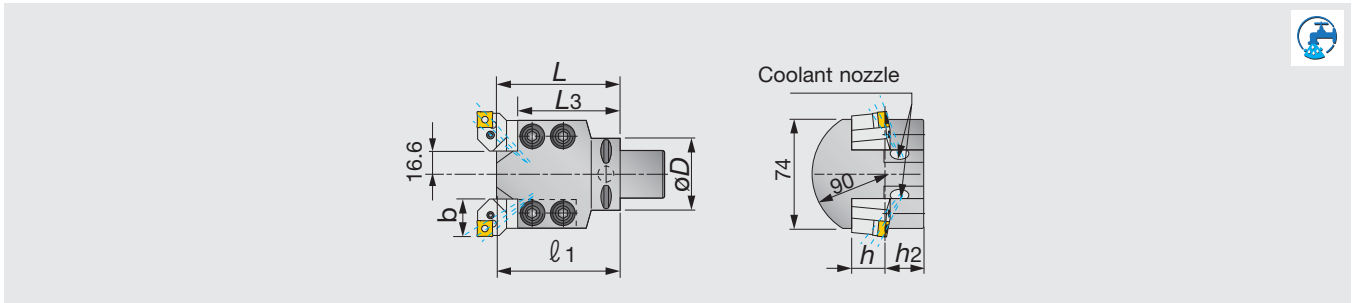


Designation	ϕD	h_1	b	L_2	L	h_2	h_3	H_5	f_2	D
C5ASHR/L20-45	50	20	20	-	96.3	26	36	31.5	15	72
C6ASHR/L20-45	63	20	20	70	98.3	26	36	31.5	15	72
C6ASHR/L25-45	63	25	25	70	101.3	33	41.6	38	15	100

Regular shank should be shortened.
Applicable for 10 MPa pressure coolant

Adapters for square shank toolholders

TungCap C-ADES

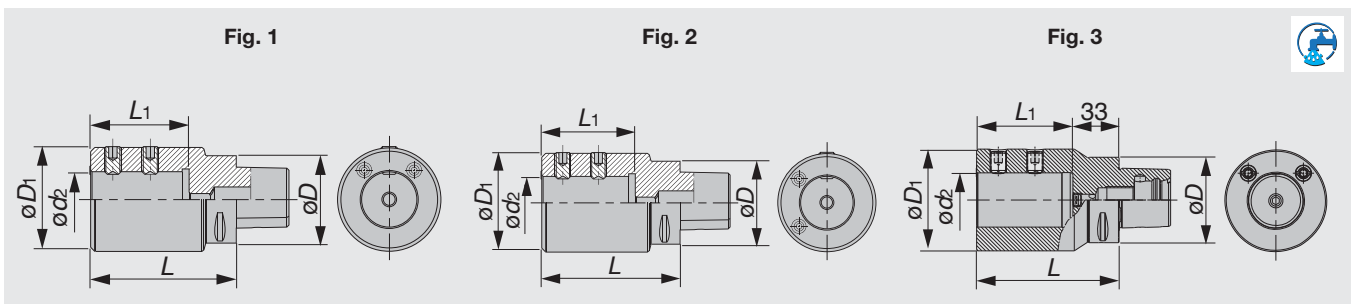


Designation	$\varnothing D$	L	L ₃	h	h ₂	b	l ₁
C4ADES-20	40	85	71	20	26	20	54
C5ADES-20	50	85	71	20	26	20	54

Regular shank should be shortened.
Applicable for 10 MPa pressure coolant

Adapters for boring bars with sleeves

TungCap C-ABB



Designation	$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	L ₁	Fig.
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

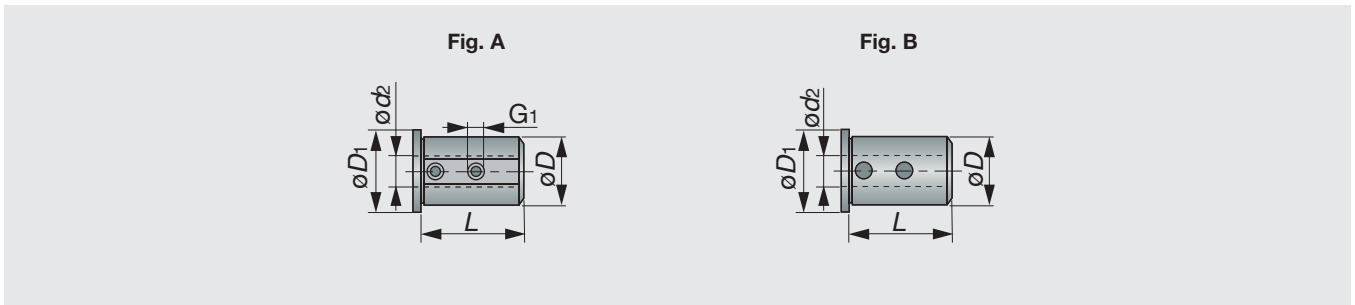
* Use the appropriate outlet screw according to the tool setup.
Applicable for 7 MPa pressure coolant

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	-

Sleeves for C-ABB adapters

TungCap SC

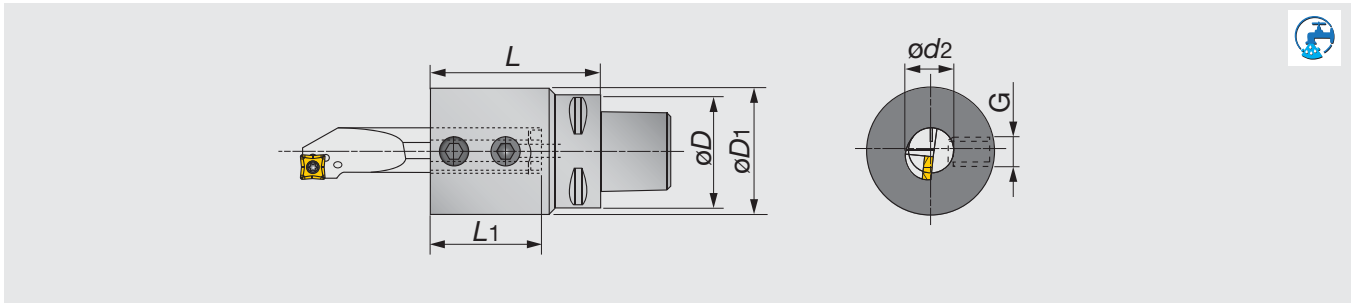


Designation	$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	G_1	Fig.
SC25T6A	25	6	31	56	M6	A
SC25T8A	25	8	31	56	M8	A
SC25T10A	25	10	31	56	M8	A
SC25T12A	25	12	31	56	M8	A
SC25T16B	25	16	31	56	-	B
SC25T20B	25	20	31	56	-	B
SC40T6A	40	6	46	58	M6	A

Designation	$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	G_1	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

Adapters for boring bars

TungCap C-ADI



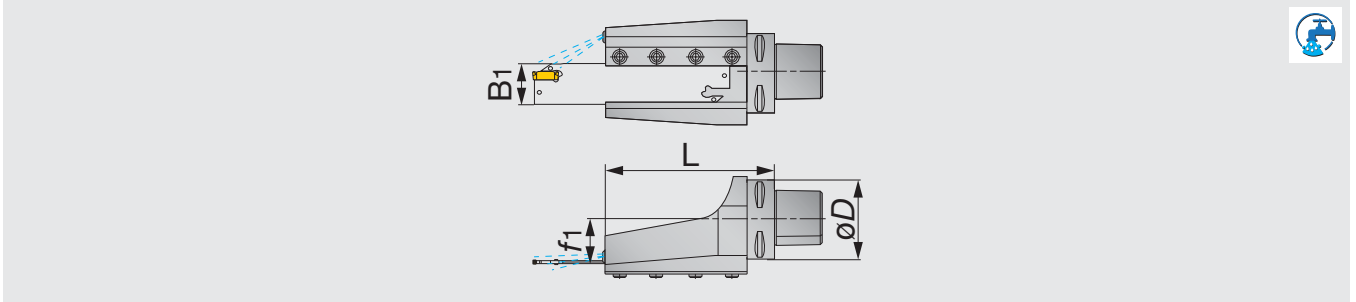
Designation	$\varnothing D$	L	L ₁	$\varnothing d_2$	$\varnothing D_1$	G
C4ADI10	40	50	20	10	36	M6
C4ADI12	40	50	24	12	36	M8
C4ADI16	40	50	32	16	36	M8
C4ADI20	40	60	35	20	36	M10
C4ADI25	40	70	45	25	54	M12
C5ADI10	50	60	26	10	36	M6
C5ADI12	50	60	26	12	36	M8
C5ADI16	50	60	32	16	36	M8
C5ADI20	50	60	40	20	36	M10
C5ADI25	50	70	50	25	54	M12
C5ADI32	50	100	76	32	68	M12
C6ADI12	60	65	36	12	36	M8
C6ADI16	60	65	36	16	36	M8

Designation	$\varnothing D$	L	L ₁	$\varnothing d_2$	$\varnothing D_1$	G
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

Applicable for 7 MPa pressure coolant

Adapters for parting-off blades

TungCap C-TBK-R/L

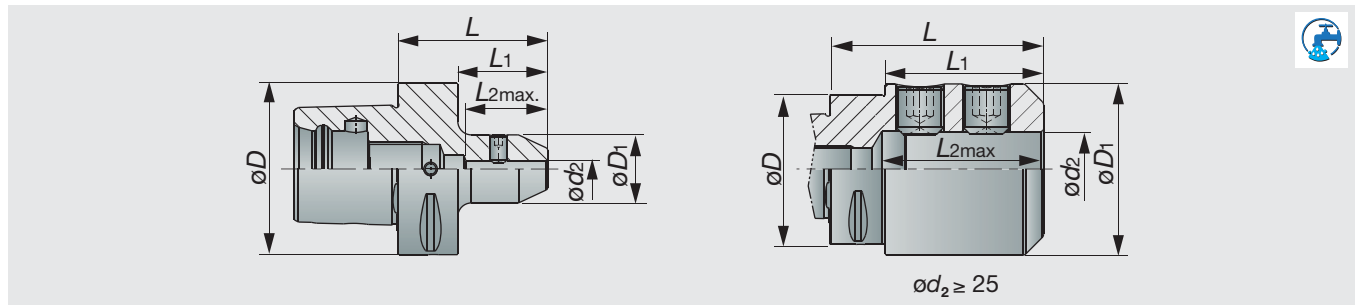


Designation	$\varnothing D$	f_1	L	B_1
C6TBK-32L	63	32.0	138	32
C6TBK-32R	63	32.0	138	32

Applicable for 3 MPa pressure coolant

Side-lock holders for weldon endmills - DIN1835 Form B

TungCap C-EM

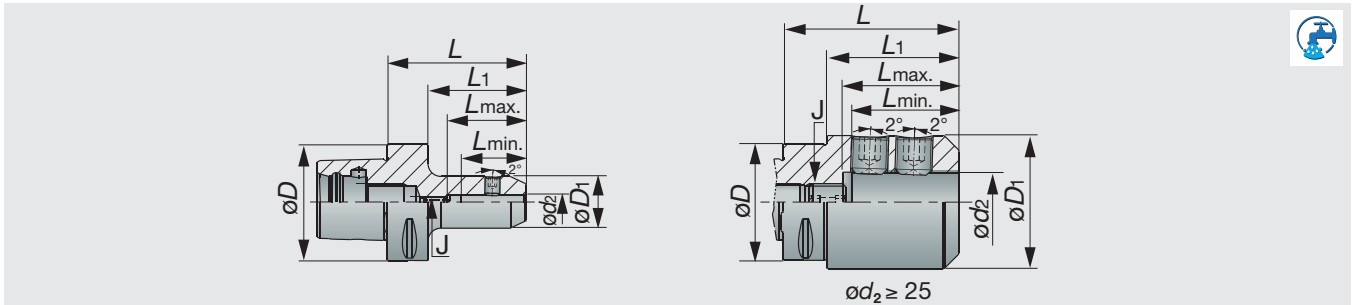


Designation	øD	ød2	øD1	L	L1	L2max.	Designation	øD	ød2	øD1	L	L1	L2max.
C3EM6X45	32	6	25	45	25	29	C6EM10X60	63	10	35	60	38	39
C3EM8X45	32	8	28	45	25	35	C6EM12X60	63	12	42	60	38	43
C3EM10X50	32	10	35	50	30	39	C6EM14X60	63	14	44	60	38	43
C3EM12X55	32	12	42	55	35	43	C6EM16X65	63	16	48	65	43	47
C4EM06X50	40	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 pressure coolant

Side-lock holders for drills - DIN1835 Form E whistle notch

TungCap C-EM-E



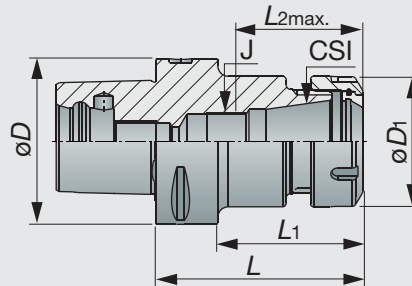
Designation	$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	$L_{min.}$	$L_{max.}$	L_1	J
C4EM06X70E	40	6	25	70	30	35	50	M5
C4EM08X70E	40	8	28	70	35	43	50	M6
C4EM10X70E	40	10	35	70	39	45	50	M8
C4EM12X75E	40	12	42	75	44	49	55	M10
C4EM14X75E	40	14	44	75	44	49	55	M10
C5EM06X70E	50	6	25	70	30	35	50	M5
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

Designation	$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	$L_{min.}$	$L_{max.}$	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

Applicable for 7 MPa pressure coolant

ER collet chuck holders - DIN6499

TungCap C-ER

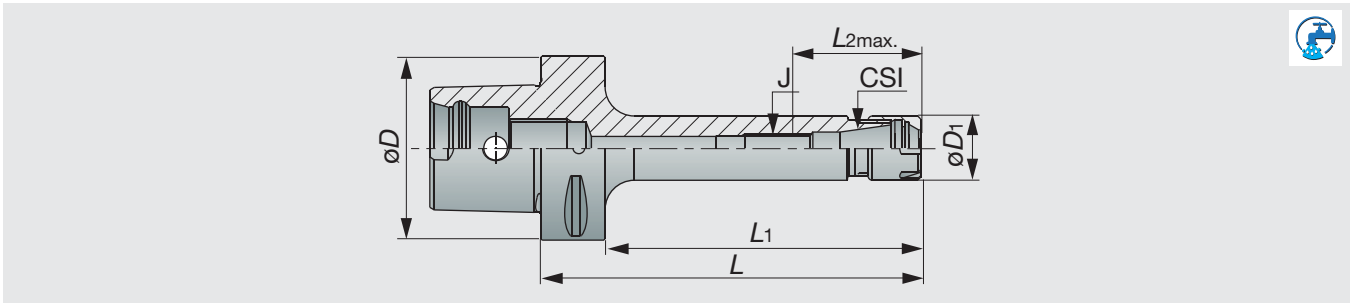


Designation	Range min.	Range max.	$\varnothing D$	CSI	$\varnothing D_1$	L	L ₁	J	L _{2max}	Designation	Range min.	Range max.	$\varnothing D$	CSI	$\varnothing D_1$	L	L ₁	J	L _{2max}
C3 ER16X45	1	10	32	ER16	28	45	25	-	39	C6ER20X100	1	13	63	ER20	34	100	78	M12	52.5
C3 ER20X45	1	13	32	ER20	34	45	30	-	39.8	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	-	55.0
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										

Option: Wrench for ER collet
 *Without V grooves, for manual use only.
 Applicable for 10 MPa pressure coolant

Mini ER collet chucks holders - DIN 6499

TungCap C-ER-M

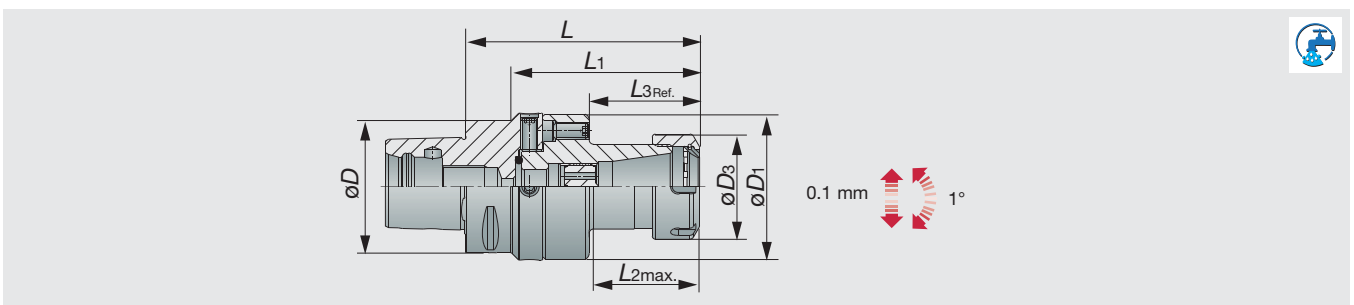


Designation	Range min.	Range max.	$\varnothing D$	CSI	$\varnothing D_1$	L	L_1	J	$L_2\text{max.}$
C4ER16X70M	0.5	10	40	ER16	22	70	50	M10	41
C5ER16X100M	0.5	10	50	ER16	22	100	80	M10	46
C5ER16X130M	0.5	10	50	ER16	22	130	120	M10	46
C6ER16X100M	0.5	10	63	ER16	22	100	78	M10	46
C6ER16X130M	0.5	10	63	ER16	22	130	108	M10	46
C6ER16X160M	0.5	10	63	ER16	22	160	138	M10	46

Option: Wrench for ER collet
Applicable for 10 MPa pressure coolant

Center alignment collet chuck holders

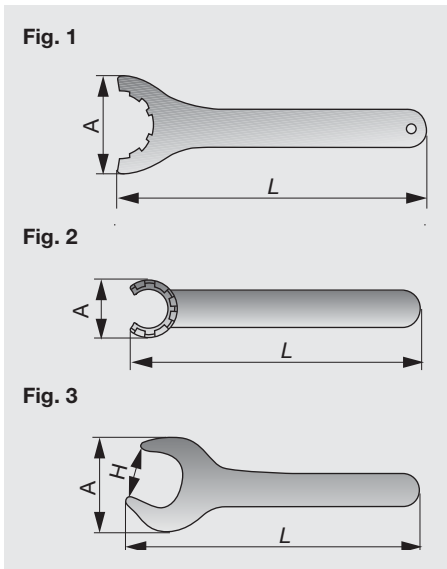
TungCap ADJ C-ER



Designation	$\varnothing D$	CSI	Range min.	Range max.	$\varnothing D_1$	$\varnothing D_3$	L	L_1	L_3	$L_2\text{max.}$
ADJC5ER32	50	ER32	2	20	70	50	115.0	95.0	52.5	57
ADJC6ER32	63	ER32	2	20	70	50	111.5	89.5	52.5	57

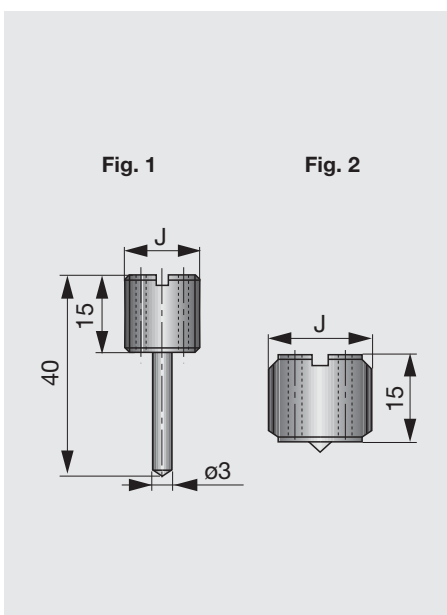
Option: Wrench for ER collet
Applicable for 10 MPa pressure coolant

WRENCH-ER - ER DIN 6499



Designation	A	H	L	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 screws



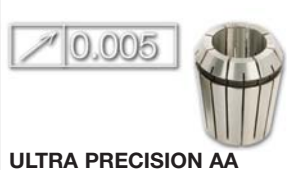
Designation	J	Fig.
PRESETER-JET8X1	M8X1.0	2
PRESETER-JET8X1.25	M8X1.25	2
PRESETER-JET10X1.5	M10X1.5	2
PRESETER-JET12X1	M12X1.0	2
PRESETER-JET12X1.75L	M12X1.75	1
PRESETER-JET12X1.75	M12X1.75	2
PRESETER-JET14X1	M14X1.0	2
PRESETER-JET16X2	M16X2	2
PRESETER-JET16X2L	M16X2	1
PRESETER-JET18X1	M18X1.0	2
PRESETER-JET18X1.5	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	JET2	External coolant
ER20	20			⋮	⋮		
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						




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						




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					



ER□□SEAL□-□JET2 (10MPa)

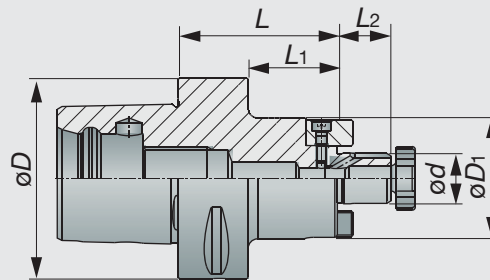
Range (mm)	Sealed type JET2 for external coolant supply				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4					
4-5					
5-6					
6-7					
7-8					
8-9					
9-10					
10-11					
11-12					
12-13					
13-14					
14-15					
15-16					
16-17					
17-18					
18-19					
19-20					
20-21					
21-22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



□ : Not available

Face mill holders with coolant hole

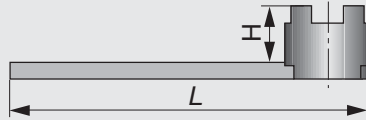
TungCap C-SEM



Designation	$\varnothing D$	$\varnothing d$	$\varnothing D_1$	L	L_2	L_1	Width of key	Hight of key	Designation	$\varnothing D$	$\varnothing d$	$\varnothing D_1$	L	L_2	L_1	Width of key	Hight of key
C4SEM16X32C	40	16	38	32	12	17	8	5	C6SEM27X100C	63	27	58	100	21	78	12	6.3
C4SEM16X55C	40	16	38	55	35	17	8	5	C6SEM31.75X60C	63	31.75	64	60	30	-	12.7	6
C4SEM22X40C	40	22	47	40	20	19	10	5.4	C6SEM32X60C	63	32	66	60	24	38	14	7
C4SEM22X55C	40	22	47	55	35	19	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	C8SEM16X100C	80	16	38	100	70	17	8	5
C5SEM22X35C	50	22	47	35	19	15	10	5.4	C8SEM22X50C	80	22	47	50	20	19	10	5.4
C5SEM22X70C	50	22	47	70	19	50	10	5.4	C8SEM22X100C	80	22	47	100	70	19	10	5.4
C5SEM25.4X37C	50	25.4	50	37	22	-	9.525	4.6	C8SEM25.4X50C	80	25.4	50	50	22	20	9.525	4.6
C5SEM27X40C	50	27	58	40	21	20	12	6.3	C8SEM27X50C	80	27	58	50	20	21	12	6.3
C5SEM31.75X60C	50	31.75	64	60	30	-	12.7	6	C8SEM27X100C	80	27	58	100	70	21	12	6.3
C5SEM32X40C	50	32	63	40	24	20	14	7	C8SEM31.75X50C	80	31.75	60	50	30	20	12.7	7
C6SEM16X50C	63	16	38	50	17	28	8	5	C8SEM32X50C	80	32	66	50	20	24	14	7
C6SEM16X100C	63	16	38	100	17	78	8	5	C8SEM32X100C	80	32	66	100	70	24	14	7
C6SEM22X50C	63	22	47	50	19	28	10	5.4	C8SEM38.1X50C	80	38.1	80	50	34	-	15.875	8
C6SEM22X100C	63	22	47	100	19	78	10	5.4	C8SEM40X60C	80	40	82	60	30	27	16	8
C6SEM25.4X37C	63	25.4	50	37	22	-	9.525	4.6									
C6SEM27X60C	63	27	58	60	21	38	12	6.3									

Option: Wrench for lock Screw
Applicable for 7 MPa pressure coolant

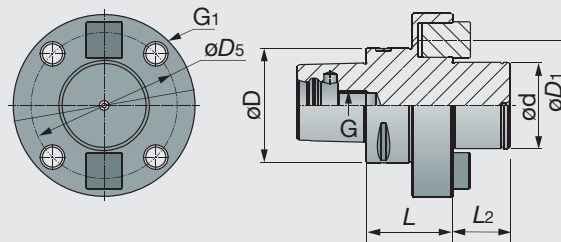
WRENCH SEMC - DIN 6368



Designation	Inner diameter of cutter body \varnothing	Screw size	H	L
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

Face mill holders

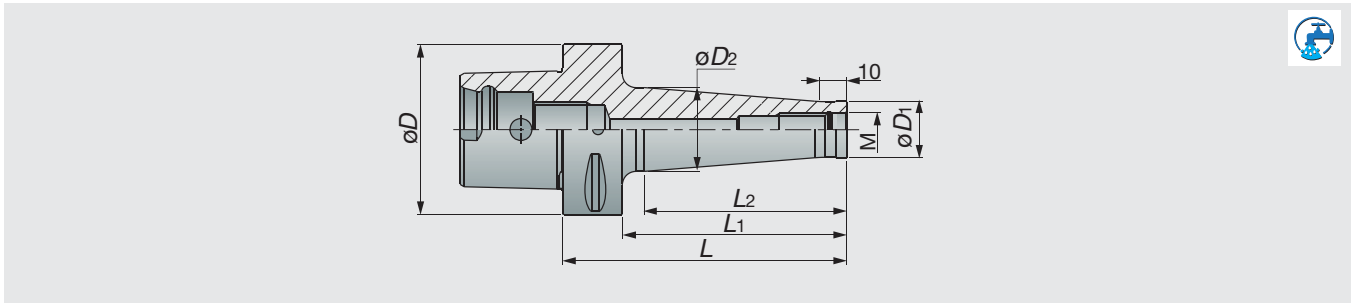
TungCap C-FM



Designation	$\varnothing D$	$\varnothing d$	L_2	L	$\varnothing D_1$	$\varnothing D_5$	G_1	G	Width of key	Hight of key
C8FM60X60	80	60	20	40	128	101.6	M16	M20	25.4	12.4

Indexable modular holders with threaded connection

TungCap C-ODP

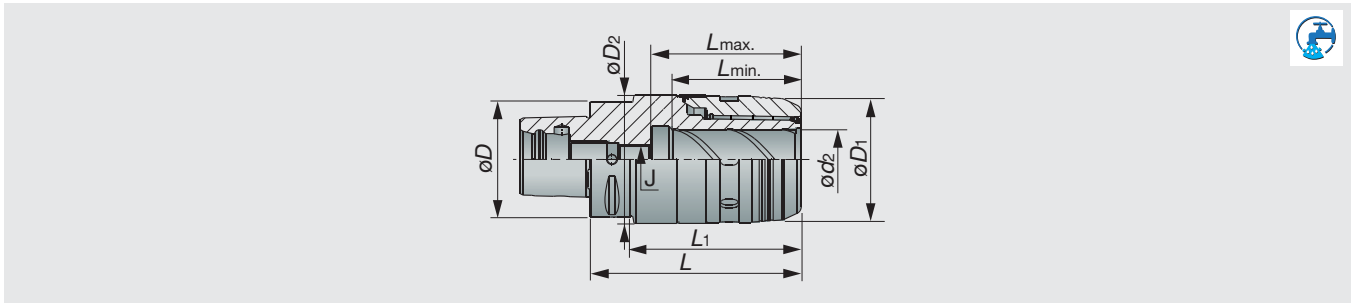


Designation	M	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	L	L_1	L_2	Designation	M	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	L	L_1	L_2
C4ODP10X53	M10	40	18	23	53	33	23	C6ODP10X55	M10	63	18	19.5	55	33	25
C4ODP12X53	M12	40	21	26	53	33	23	C6ODP10X105	M10	63	18	28	105	83	75
C4ODP16X53	M16	40	29	34	53	33	23	C6ODP10X130	M10	63	18	32	130	108	100
C5ODP10X53	M10	50	18	19.5	53	33	25	C6ODP12X55	M12	63	21	23.5	55	33	25
C5ODP10X103	M10	50	18	28	103	83	75	C6ODP12X105	M12	63	21	31	105	83	75
C5ODP12X53	M12	50	21	23.5	53	33	25	C6ODP12X130	M12	63	21	36	130	108	100
C5ODP12X103	M12	50	21	31	103	83	75	C6ODP16X55	M16	63	29	34	55	33	25
C5ODP16X53	M16	50	29	34	53	33	25	C6ODP16X105	M16	63	29	34	105	83	75
C5ODP16X103	M16	50	29	36	103	83	75	C6ODP16X130	M16	63	29	41	130	108	100

Applicable for 10 MPa pressure coolant

Power chuck holders

TungCap C-MAXIN

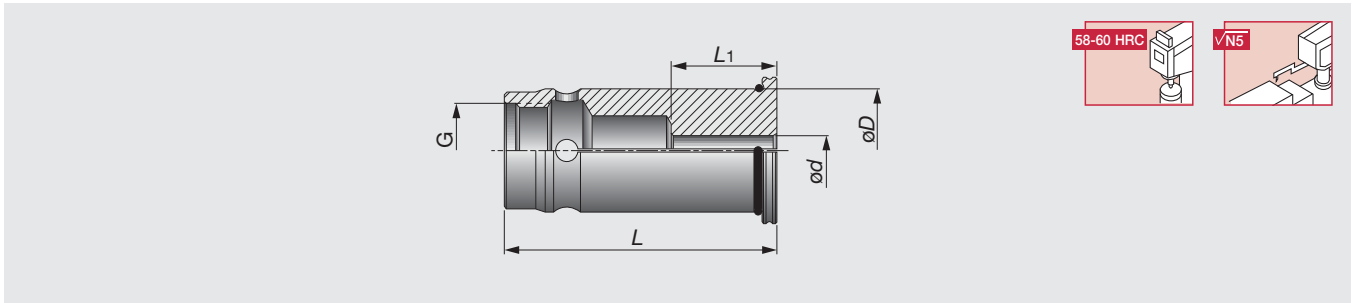


Designation	$\varnothing D$	Range min.	Range max.	$\varnothing d_2$	$\varnothing D_1$	$\varnothing D_2$	L	L_1	$L_{min.}$	$L_{max.}$	J
C5MAXIN20X100	50	6	20	20	51	53	95.5	75	55	67	M16
C6MAXIN20X95	63	6	20	20	51	53	95	73	55	67	M16
C6MAXIN32X115	63	6	32	32	69	70	115	93	70	82	M16
C8MAXIN20X95	80	6	20	20	51	53	95	65	55	67	M16
C8MAXIN32X115	80	6	32	32	69	70	115	85	70	82	M16

Option : Wrench for TungMax collet
Applicable for 10 MPa pressure coolant

Collets for power chuck - SC sealed straight collets

TungCap SC-SEAL

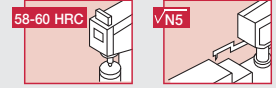
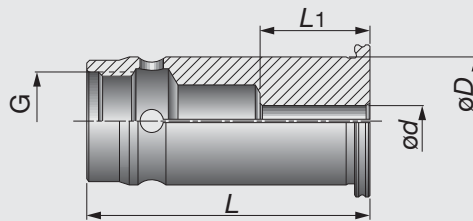


Designation	ϕd	ϕD	L	L_1	G
SC20SEAL6	6	20	60	28	M16
SC20SEAL8	8	20	60	28	M16
SC20SEAL10	10	20	60	35	M16
SC20SEAL12	12	20	60	40	M16
SC20SEAL14	14	20	60	40	M16
SC20SEAL15	15	20	60	40	M16
SC20SEAL16	16	20	60	39	M16
SC32SEAL6	6	32	72	28	M24x1.5
SC32SEAL8	8	32	72	28	M24x1.5
SC32SEAL10	10	32	72	35	M24x1.5
SC32SEAL12	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 10 MPa pressure coolant

Collets for power chuck - SC straight collets

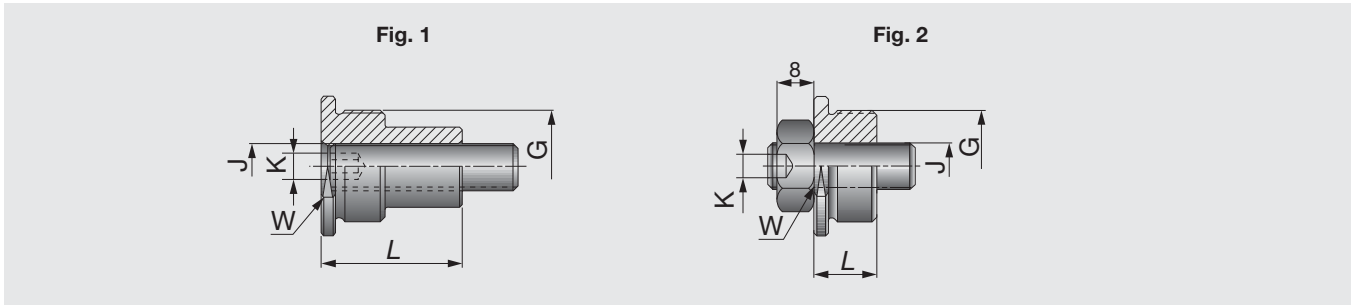
TungCap SC-SPR



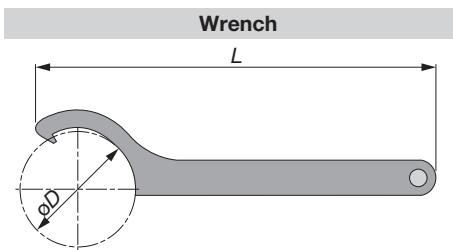
Designation	$\varnothing d$	$\varnothing D$	L	L ₁	G
SC20SPR6	6	20	60	28	M16
SC20SPR8	8	20	60	28	M16
SC20SPR10	10	20	60	35	M16
SC20SPR12	12	20	60	40	M16
SC20SPR14	14	20	60	40	M16
SC20SPR15	15	20	60	40	M16
SC20SPR16	16	20	60	39	M16
SC32SPR6	6	32	72	28	M24x1.5
SC32SPR8	8	32	72	28	M24x1.5
SC32SPR10	10	32	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	24	32	72	45	M24x1.5
SC32SPR25	25	32	72	51	M24x1.5

Preset screw for power chuck - Preset screw for SC collets

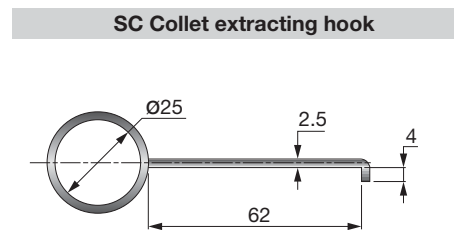
TungCap PRESET SC CAP



Designation	L	W	J	G	Fig.	Range	Key	CSI
PRESETSCCAP8x1.25L	28	16	M8x25	M16	1	6-8	4	SC20
PRESETSCCAP8x1.25	15	16	M8x25	M16	2	10-16	4	SC20
PRESETSCCAP10x1.5L	30.0	27	M10x30	M24x1.5	1	6-14	5	SC32
PRESETSCCAP10x1.5	13.5	27	M10x30	M24x1.5	2	16-25	5	SC32

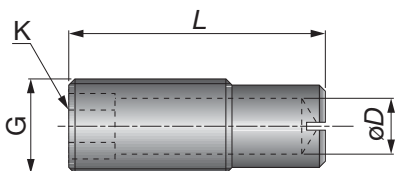


Designation	øD	L
WRENCHMAXIN20HOOK	26	205
WRENCHMAXIN32HOOK	68	240



Designation
EXTRACTORSCCOLLETS

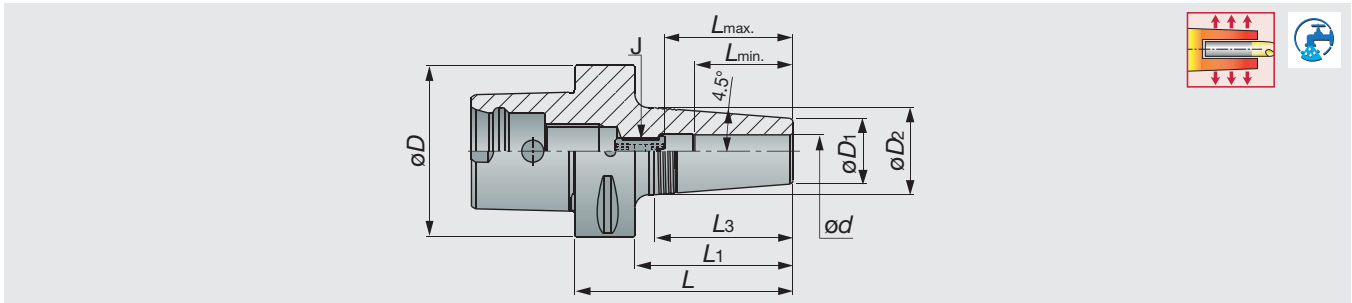
Preset screws



Designation	G	L	øD	K
PRESETMAXIN16X30	M16	30	8	8
PRESETMAXIN16X44	M16	44	8	8
PRESETMAXIN20X55	M20	55	12	12

Thermal shrinking holders

TungCap C-SRKIN

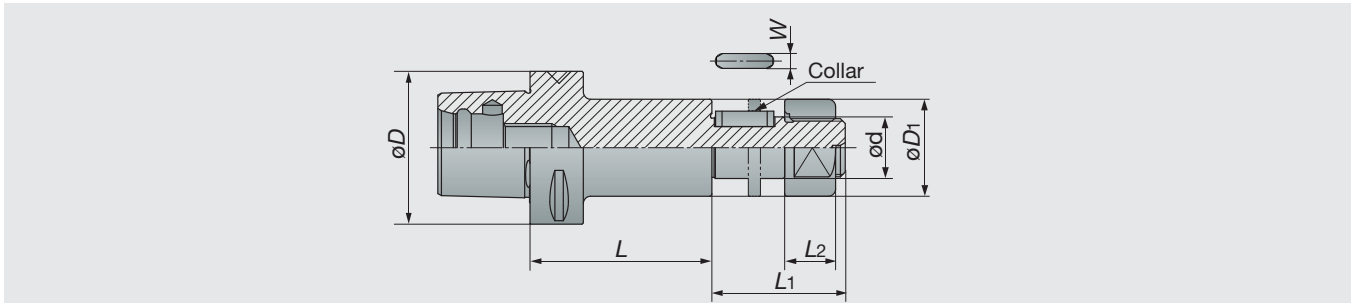


Designation	$\varnothing D$	$\varnothing d$	$\varnothing D_1$	$\varnothing D_2$	L	L_1	L_3	L_{min}	L_{max}	J
C4SRKIN6X75	40	6	21	27	75	55	38.1	25	36	M5
C4SRKIN8X75	40	8	21	27	75	55	38.1	25	36	M6
C4SRKIN10X75	40	10	24	32	75	55	50.8	31	42	M8
C4SRKIN12X75	40	12	24	32	75	55	50.8	36	47	M10
C4SRKIN14X80	40	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 10 MPa pressure coolant

Slot milling holders

TungCap C-SCA

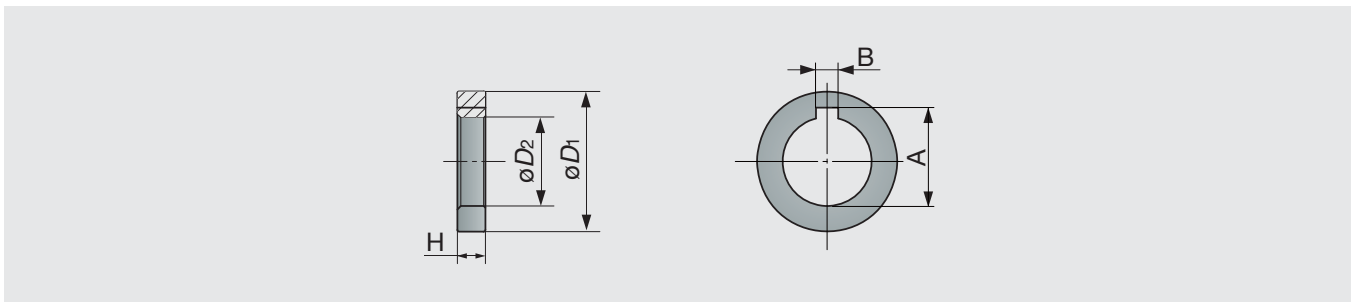


Designation	$\varnothing D$	$\varnothing d$	L	$\varnothing D_1$	L_1	L_2	Width of key W	Hight of key
C6SCA25.4-075	63	25.4	75	40	55	21	6.35	2.38
C6SCA31.75-075	63	31.75	75	46	60	26	7.92	3.17
C8SCA25.4-090	80	25.4	90	40	55	21	6.35	2.38
C8SCA31.75-090	80	31.75	90	46	60	26	7.92	3.17

Collars for slot mills are not included.

Collar for slot milling holder

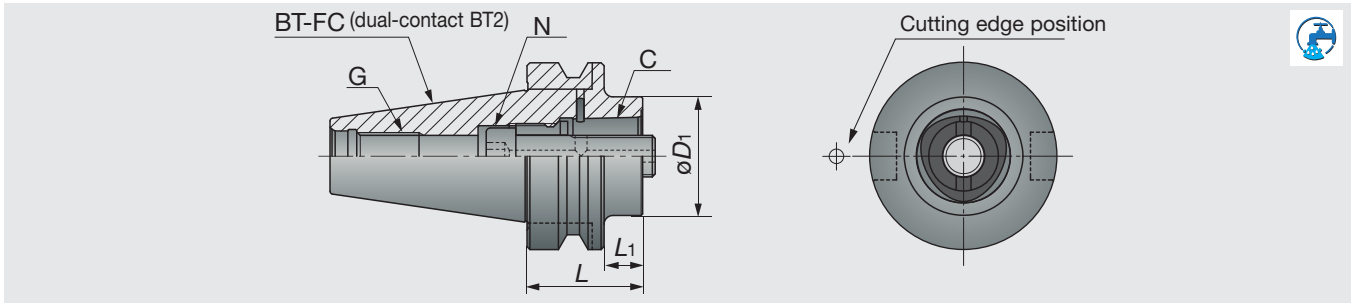
TungCap SCA



Designation	$\varnothing D_1$	$\varnothing D_2$	A	B	H
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

HOLDERS BT shank with dual contact

TungCap BT-FC



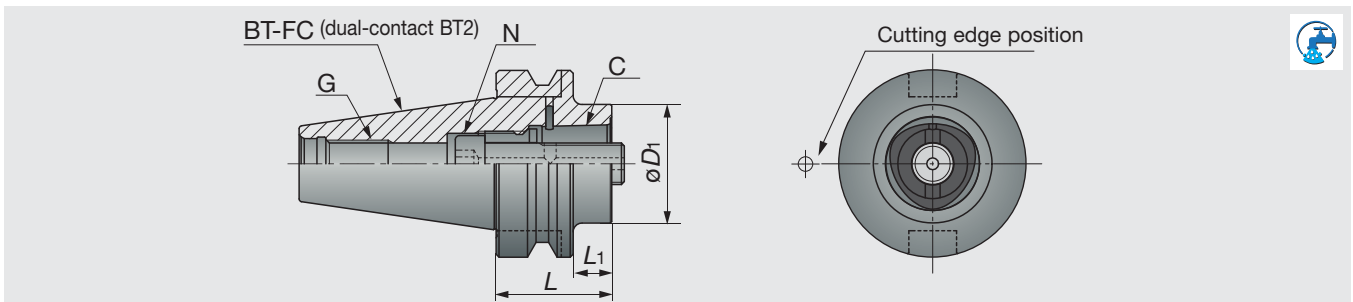
Designation	C	BT-FC	øD ₁	L	L ₁	G	*N	Key	Designation	C	BT-FC	øD ₁	L	L ₁	G	*N	Key
BT40FC-C4-040	C4	40	40	40	13	M16	55	8	BT50FC-C5-080	C5	50	50	80	42	M24	95	10
BT40FC-C5-050	C5	40	50	50	23	M16	95	10	BT50FC-C6-050	C6	50	63	50	12	M24	170	14
BT40FC-C6-075	C6	40	63	75	48	M16	170	10	BT50FC-C6-100	C6	50	63	100	62	M24	170	14
BT50FC-C4-040	C4	50	40	40	2	M24	55	8	BT50FC-C8-070	C8	50	80	70	32	M24	170	14
BT50FC-C4-070	C4	50	40	70	32	M24	55	8	BT50FC-C8-120	C8	50	80	120	82	M24	170	14
BT50FC-C5-040	C5	50	50	40	2	M24	95	10									

Applicable for 7 MPa pressure coolant

*Recommended torque (N·m) for clamping

HOLDERS BT shank with dual contact - For turning on multi task machine

TungCap BT-FC-T



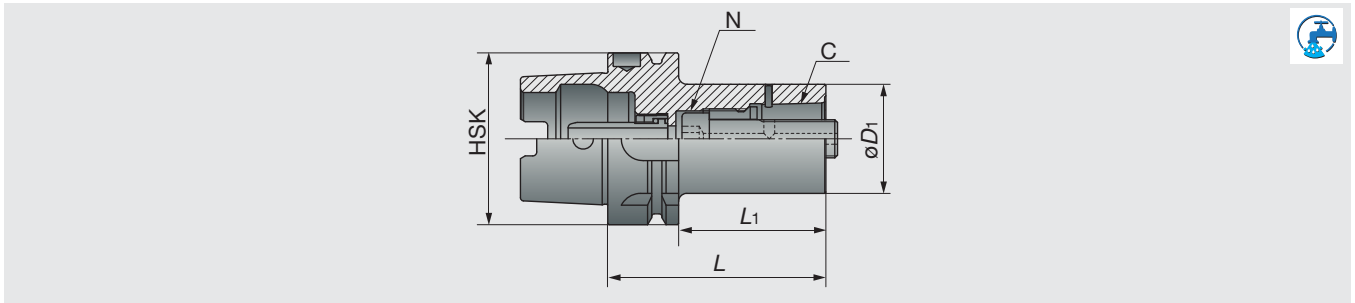
Designation	C	BT-FC	øD ₁	L	L ₁	G	*N	Key
BT40FC-C4-040T	C4	40	40	40	13	M16	55	8
BT40FC-C5-050T	C5	40	50	50	23	M16	95	10
BT50FC-C6-050T	C6	50	63	50	12	M24	170	14
BT50FC-C8-070T	C8	50	80	70	32	M24	170	14

Applicable for 7 MPa pressure coolant

*Recommended torque (N·m) for clamping

Holders for HSK shank

TungCap HSK-A-C/-T



for HSK-T shank

Designation	C	HSK	øD ₁	L	L ₁	*N	Key
HSK63A-C4-080T	C4	63	40	80	54	55	8
HSK63A-C5-090T	C5	63	50	90	64	95	10
HSK63A-C6-110T	C6	63	63	110	74	170	14

for HSK-A shank

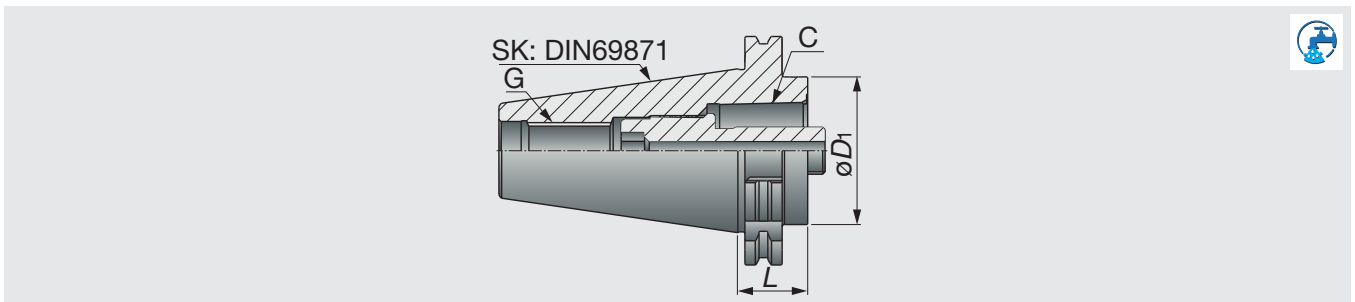
Designation	C	HSK	øD ₁	L	L ₁	*N	Key
HSK100A-C6-110	C6	100	63	110	81	170	14
HSK100A-C8-120	C8	100	80	120	91	170	14

*Recommended torque (N·m) for clamping

Applicable for 7 MPa pressure coolant
Option: Cooling tube wrench

Holders for DIN 69871 form AD - ADB tapered shanks

TungCap C-ADSKA



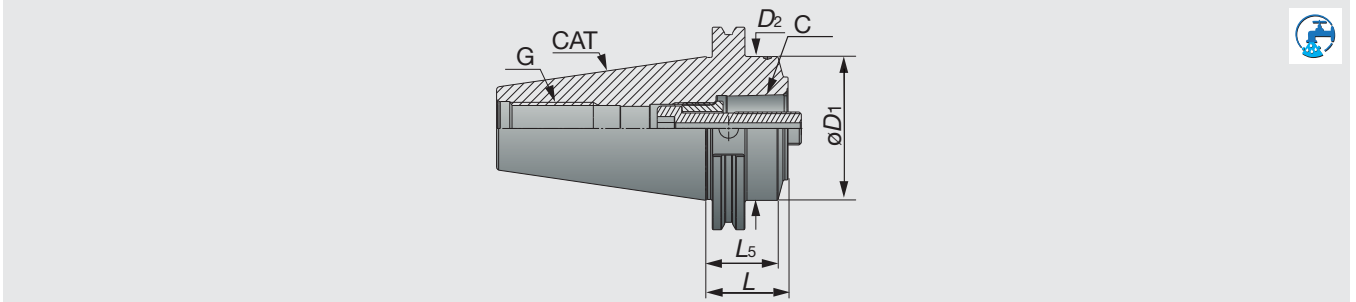
Designation	C	SK	øD ₁	L	G	*N	Key
C4ADSKA40X30	C4	40	40	30	M16	55	8
C5ADSKA40X30	C5	40	50	30	M16	95	10
C5ADSKA50X30ADB	C5	50	50	30	M24	95	10
C6ADSKA50X30	C6	50	63	30	M24	170	14
C8ADSKA50X70ADB	C8	50	80	70	M24	170	14

Applicable for 7 MPa pressure coolant

*Recommended torque (N·m) for clamping

HOLDERS FOR caterpillar AD - ADB tapered shanks

TungCap C-ADCAT



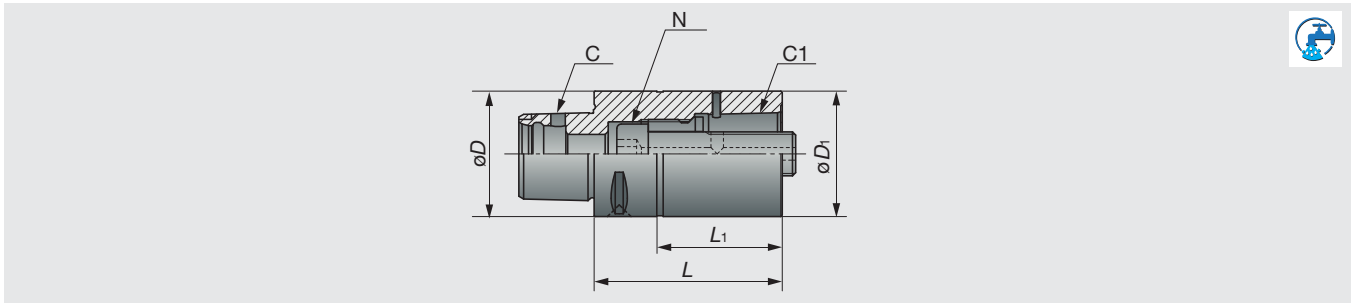
Designation	C	CAT	$\varnothing D_1$	D_2	L	L_5	G	*N	Key
C4ADCATI40X40ADB	C4	40	40	44.5	40	35	5/8X11	55	8
C5ADCATI40X90ADB	C5	40	50	45.2	90	35	5/8X11	95	10
C5ADCATI50X40ADB	C5	50	50	69.9	40	35	1-8	95	10
C6ADCATI50X50	C6	50	63	69.85	50	37	1-8	170	14
C8ADCATI50X100ADB	C8	50	80	70.1	100	35	1-8	170	14

Applicable for 7 MPa pressure coolant

*Recommended torque (N-m) for clamping

Extension holders

TungCap C-EX



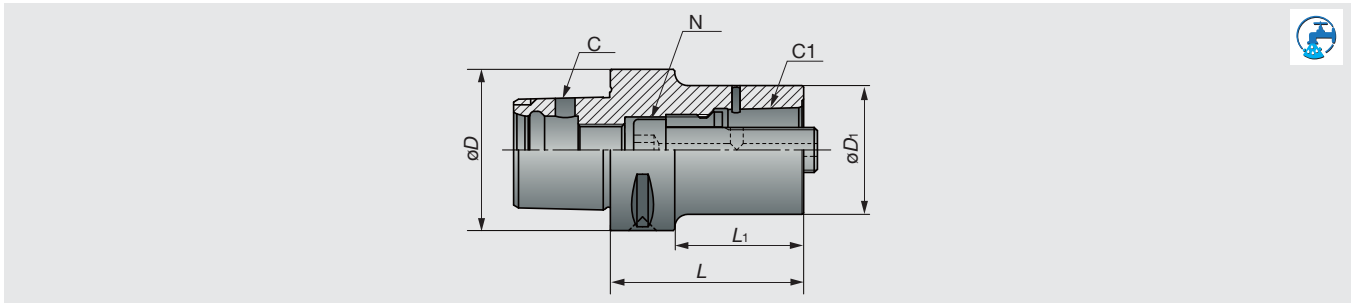
Designation	C	C1	ϕD	ϕD_1	L	L_1	*N	Key
C4EX-060	C4	C4	40	40	60	80	65	8
C4EX-080	C4	C4	40	40	80	60	65	8
C5EX-080	C5	C5	50	50	80	60	95	10
C5EX-100	C5	C5	50	50	100	80	95	10
C6EX-060S	C6	C6	63	63	60	38	170	14
C6EX-100	C6	C6	63	63	100	78	170	14
C6EX-140	C6	C6	63	63	140	118	170	14
C8EX-100	C8	C8	80	80	100	70	170	14
C8EX-160	C8	C8	80	80	160	130	170	14

Applicable for 7 MPa pressure coolant

*Recommended torque (N·m) for clamping

Reduction holders

TungCap C-RE



Designation	C	C1	$\varnothing D$	$\varnothing D_1$	L	L_1	*N	Key
C5-C4RE-060	C5	C4	50	40	60	40	55	8
C5-C4RE-080	C5	C4	50	40	80	60	55	8
C6-C4RE-080	C6	C4	63	40	80	58	55	8
C6-C5RE-080	C6	C5	63	50	80	58	95	10
C6-C5RE-120	C6	C5	63	50	120	98	95	10
C8-C4RE-070	C8	C4	80	40	70	40	55	8
C8-C5RE-080	C8	C5	80	50	80	50	95	10
C8-C6RE-080	C8	C6	80	63	80	50	170	14
C8-C6RE-120	C8	C6	80	63	120	90	170	14

Applicable for 7 MPa pressure coolant

*Recommended torque (N-m) for clamping

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

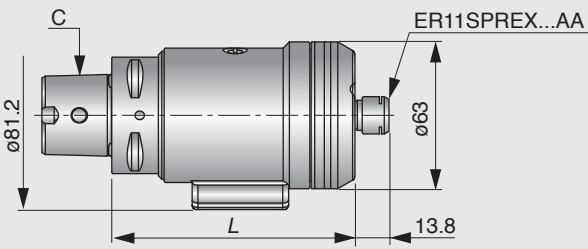
Speed vs. pressure


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

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


High speed holder with coolant pressure

TungCap TJS-C





G2.5
40,000 min⁻¹



■ Parts

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

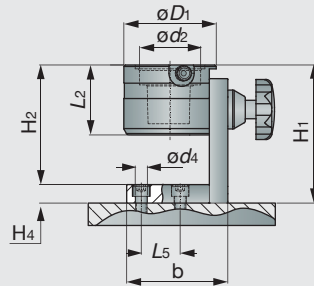
*Option

Designation	C	L	Max. tool diameter	Weight (kg)	Direction of tool rotation
TJS20KC5L	C5	104.9	ø3.5	1.5	L
TJS20KC5R	C5	104.9	ø3.5	1.5	R
TJS30KC5L	C5	104.9	ø2.5	1.5	L
TJS30KC5R	C5	104.9	ø2.5	1.5	R
TJS40KC5L	C5	104.9	ø1.5	1.5	L
TJS40KC5R	C5	104.9	ø1.5	1.5	R
TJS20KC6L	C6	104.9	ø3.5	1.65	L
TJS20KC6R	C6	104.9	ø3.5	1.65	R
TJS30KC6L	C6	104.9	ø2.5	1.65	L
TJS30KC6R	C6	104.9	ø2.5	1.65	R
TJS40KC6L	C6	104.9	ø1.5	1.65	L
TJS40KC6R	C6	104.9	ø1.5	1.65	R

- Max. tool shank diameter: ø6.0 mm
- Coolant pressure through machine spindle: Min. 2 MPa / Max. 4 MPa
- Min. flow rate: 12 l/min

Clamp fixture

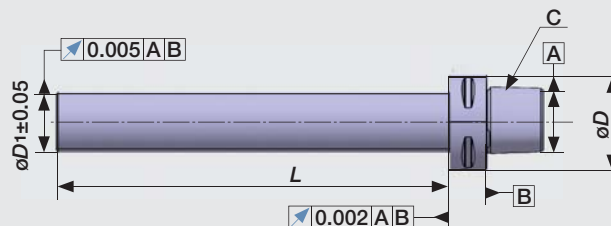
TungCap MULTICLAMP



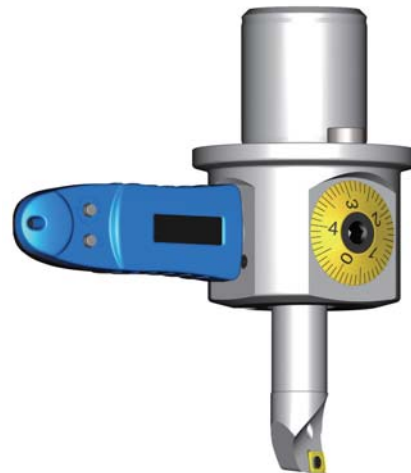
Designation	ϕd_2	ϕD_1	L_2	H_1	H_2	H_4	b	L_5	ϕd_4
MULTICLAMP C4	40.4	78	67	137.05	118.05	19	104	40	12.5
MULTICLAMP C5	50	85	72	142	123	19	104	40	12.5
MULTICLAMP C6	63	95	72	142	123	19	104	40	12.5
MULTICLAMP C8	80	130	90	178	159	19	144	85	12.5

Test bar

TungCap Test bar

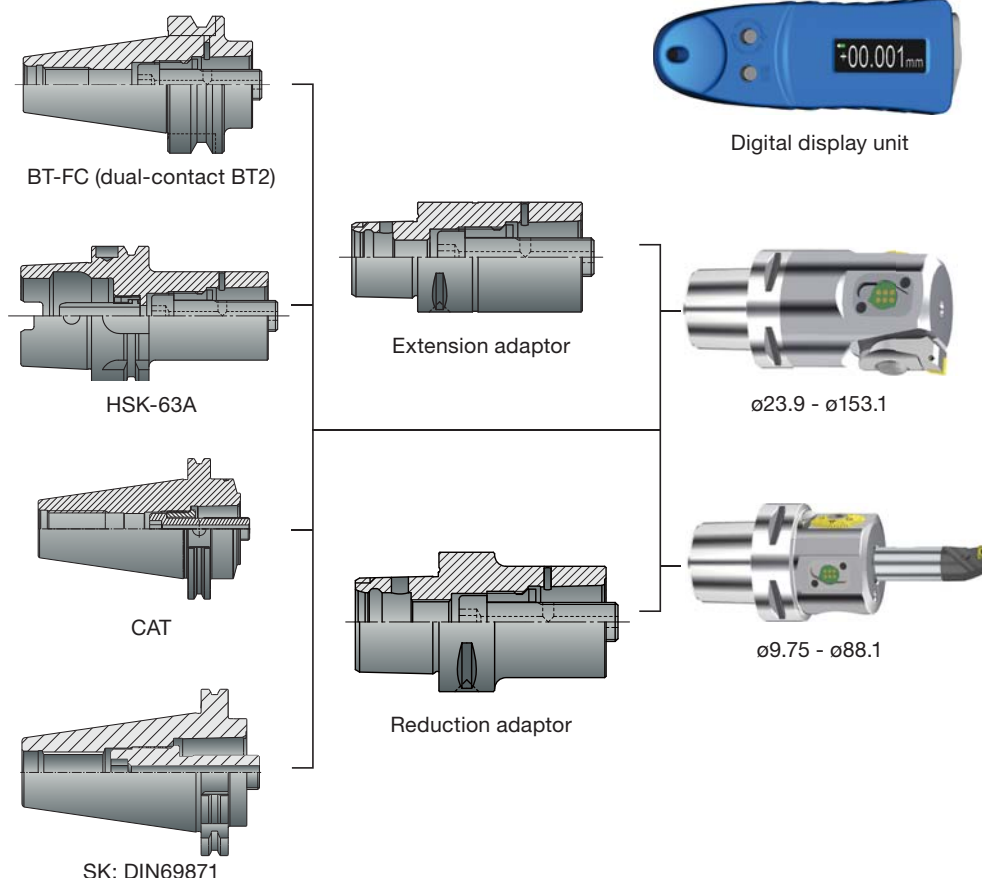


Designation	C	ϕD	ϕD_1	L
C3-TB-160	C3	32	25	160
C4-TB-160	C4	40	25	160
C5-TB-160	C5	50	30	180
C6-TB-220	C6	63	35	220
C8-TB-250	C8	80	40	250



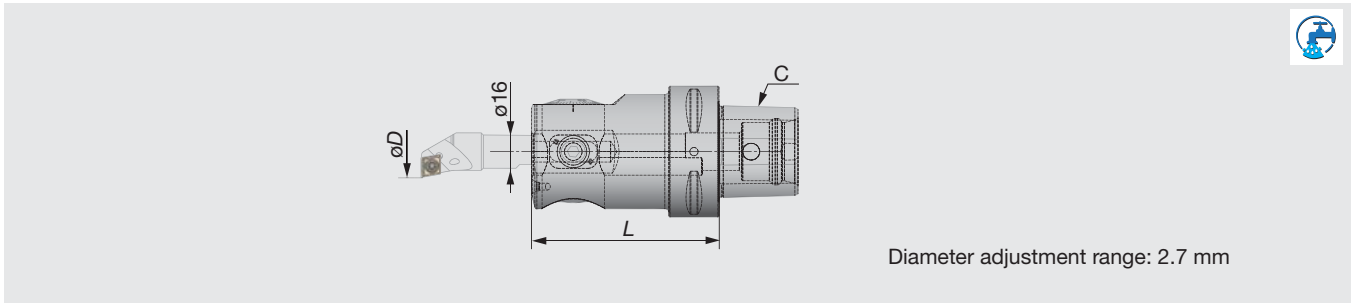
Fine boring head system makes **micron adjustment easy and simple in the machine**

- Easy but accurate adjustment: 1 μm accuracy is possible on the machine
- Digital display: the display unit is docked on the boring head for micron adjustment
- Economy: One digital unit can be used with all fine boring heads
- Internal coolant for smooth chip control
- Also available with TungCap connection, allowing it for use in multi-tasking machines



Fine boring head with digital display $\varnothing 9.75$ mm - $\varnothing 88.1$ mm

TungCap FBHO-DE

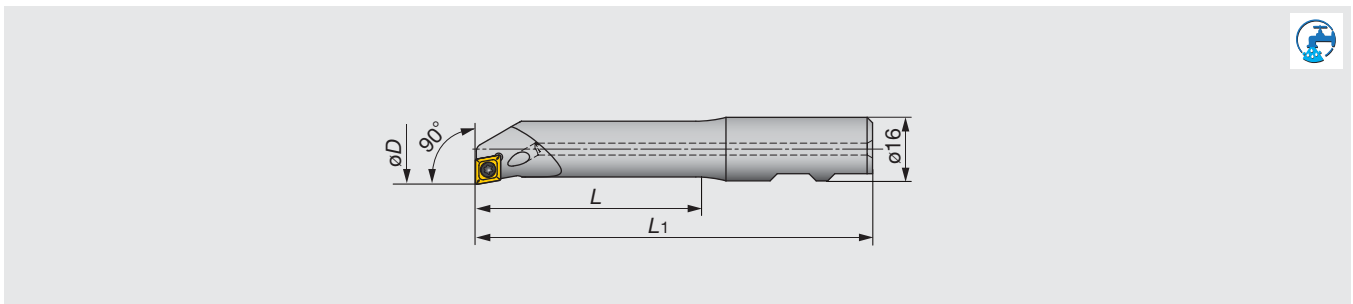


Designation	C	$\varnothing D$ min.	$\varnothing D$ max.	L	Boring bar
BT4-FBHO-DE-1690	BT40	9.75	88.1	90	254.0**.006... / 256...
HA6-FBHO-DE-1695	HSK-A63	9.75	88.1	95	254.0**.006... / 256...
PSC63-FBHO-DE-1690	C6	9.75	88.1	90	254.0**.006... / 256...
PSC50-FBHO-DE-1670	C5	9.75	88.1	70	254.0**.006... / 256...
PSC40-FBHO-DE-1665	C4	9.75	88.1	65	254.0**.006... / 256...

Applicable for 7 MPa pressure coolant

Boring bar

TungCap 254.0**.006.**



Designation	$\varnothing D$ min.	$\varnothing D$ max.	L	L ₁	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...

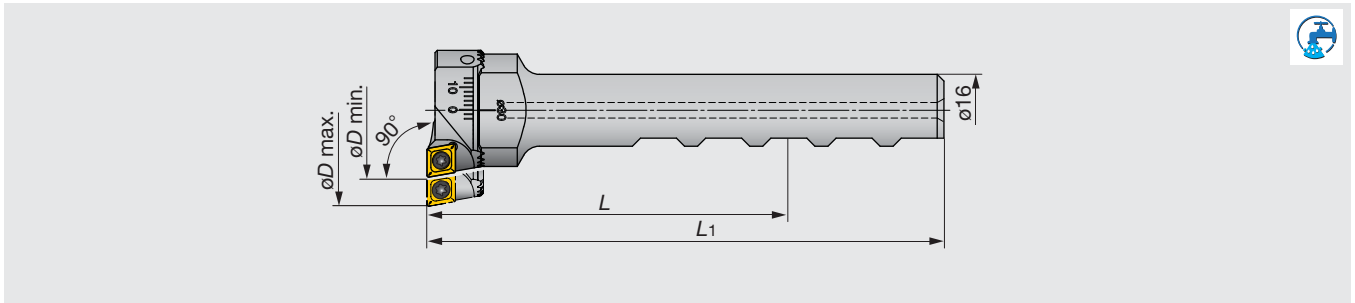
Applicable for 7 MPa pressure coolant

SPARE PARTS

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

Boring bar

TungCap 256.0**.0**.115



Designation (Shank)	Designation (Insert holder)	$\phi D \text{ min.}$	$\phi D \text{ max.}$	L	L_1	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 pressure coolant

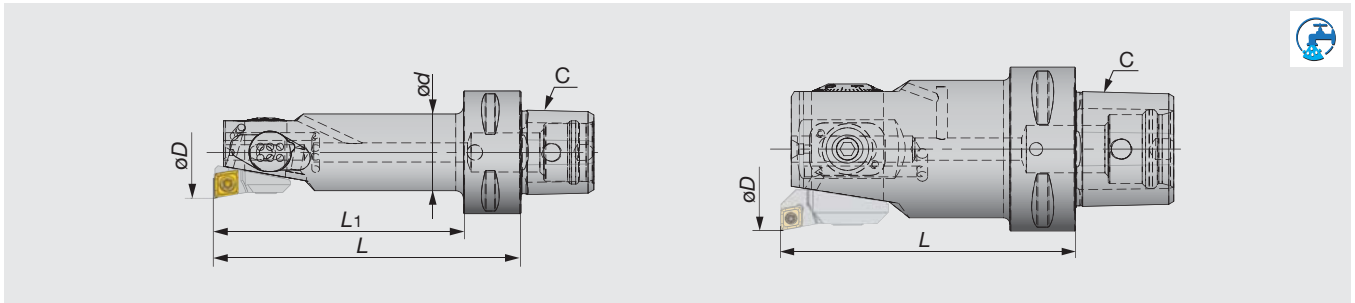
SPARE PARTS



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

Fine boring head with digital display $\varnothing 23.9$ mm - $\varnothing 153.1$ mm

TungCap FBHS-DE

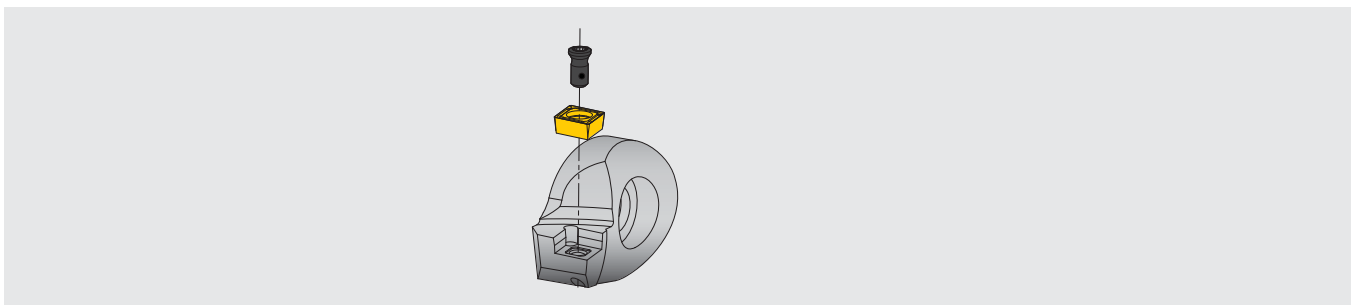


Designation	C	$\varnothing D$ min.	$\varnothing D$ max.	L	L_1	$\varnothing d$	☒	Insert holder
PSC32-FBHS-DE-24	C3	23.9	31.1	80	65	20	1	314.011.024.006
PSC32-FBHS-DE-31	C3	30.9	40.1	90	75	25	1	314.013.031.006
PSC40-FBHS-DE-40	C4	39.9	51.1	90	70	32	1	314.017.040.006
PSC50-FBHS-DE-51	C5	50.9	67.1	90	-	-	2	314.022.051.006
PSC50-FBHS-DE-67	C5	66.9	87.1	100	-	-	2	314.030.067.009
PSC63-FBHS-DE-87	C6	86.9	116.1	120	-	-	2	314.030.067.009
PSC63-FBHS-DE-116	C6	115.9	153.1	150	-	-	2	314.030.067.009

Insert holder is not included
Applicable for 7 MPa pressure coolant

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

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



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**0602...

SPARE PARTS

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

Digital display unit

TungCap GH1-DA



Designation

GH1-DA2.BG0.077

TUNGCAP Clamping unit

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 unit

	For external (Tool setting direction cross X)	For internal (Tool setting direction straight Z)
Static 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 External	IC Internal	Manufacturer's optional symbol	R Right
C4			I Internal	OC External		L Left
C5			S Others			
C6						
C8						

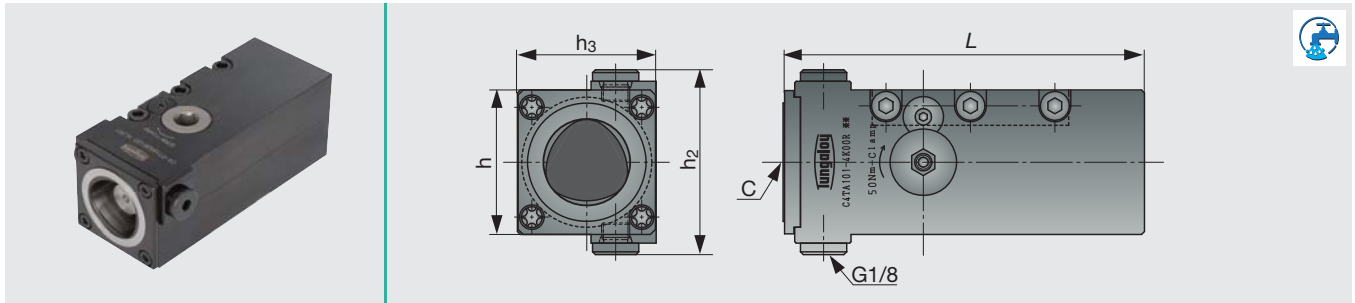
■ Nomenclature for driven clamping unit

C5-DDC-OC-ABC501

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

Manual clamping unit; Square shank

TungCap C-DTOSR/L



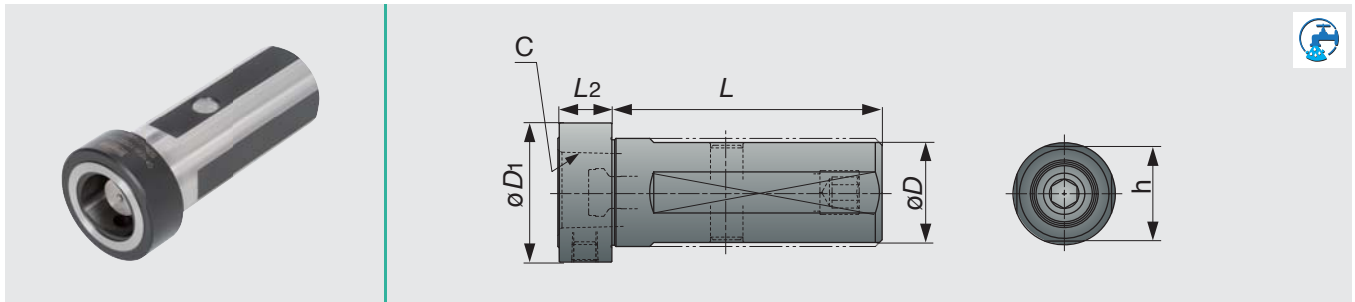
Designation	C	Turret size h	h3	h2	L	*N
C3-DTOS4038R/L	C3	40	38	62	95	35
C4-DTOS5048R/L	C4	50	48	64	125	50
C5-DTOS6464R/L	C5	64	64	68	145	70

Applicable for 7 MPa pressure coolant

* Recommend clamping torque.

Manual clamping unit; Round shank

TungCap C-DTIR



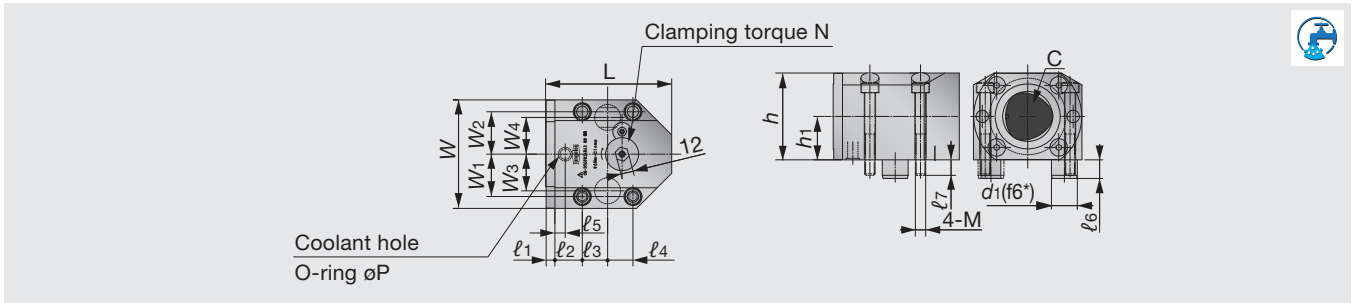
Designation	C	øD	øD1	h	L	L2	*N
C3-DTIR-08018-D32	C3	32	46	30	80	18	35
C4-DTIR-10020-D40	C4	40	52	38	100	20	50
C4-DTIR-12020-D50	C4	50	52	48	120	20	50
C5-DTIR-12024-D50	C5	50	62	48	120	24	70

Applicable for 7 MPa pressure coolant

* Recommend clamping torque.

Manual clamping unit; Fixed type

TungCap C-DTOFR/L



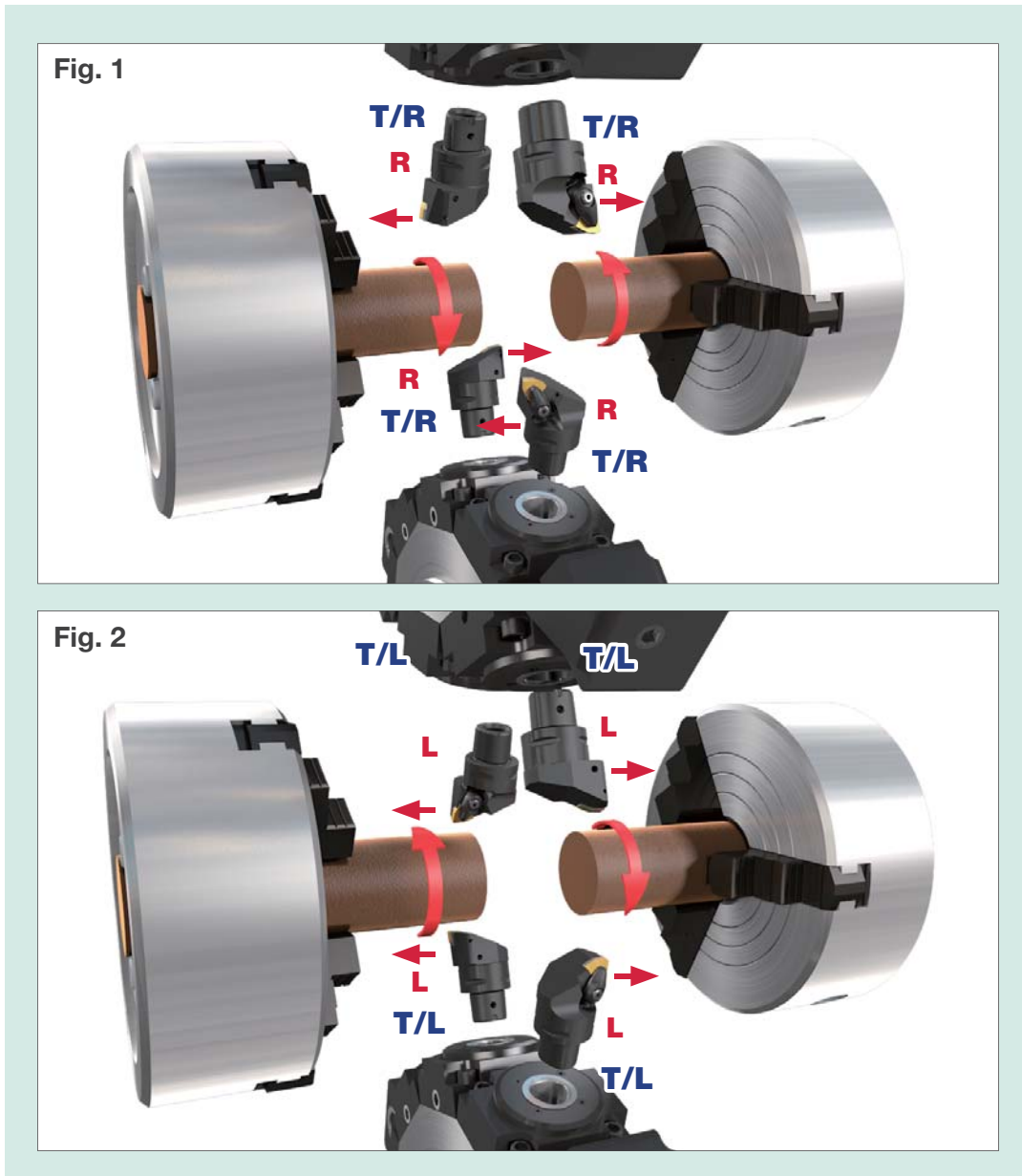
Designation	C	h	h ₁	L	W	W ₁ W ₂	W ₃ W ₄	l ₁	l ₂	l ₃ l ₄	l ₅	l ₆	l ₇	d ₁ (f6*)	P	M	N*
C5-DTOFR/L32048	C5	64	32	100	92	35	31	8	19	21	7	11	15	20	P8	M10	70
C6-DTOFR/L42060	C6	84	42	122	105	41	35.5	9	26.5	24.5	10	18	15	25	P10	M10	90
C8-DTOFR/L50088	C8	100	50	146	133	55	46	12	33	43	13	19	20	32	P11	M12	130

Applicable for 7 MPa pressure coolant

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

** Recommend clamping torque.

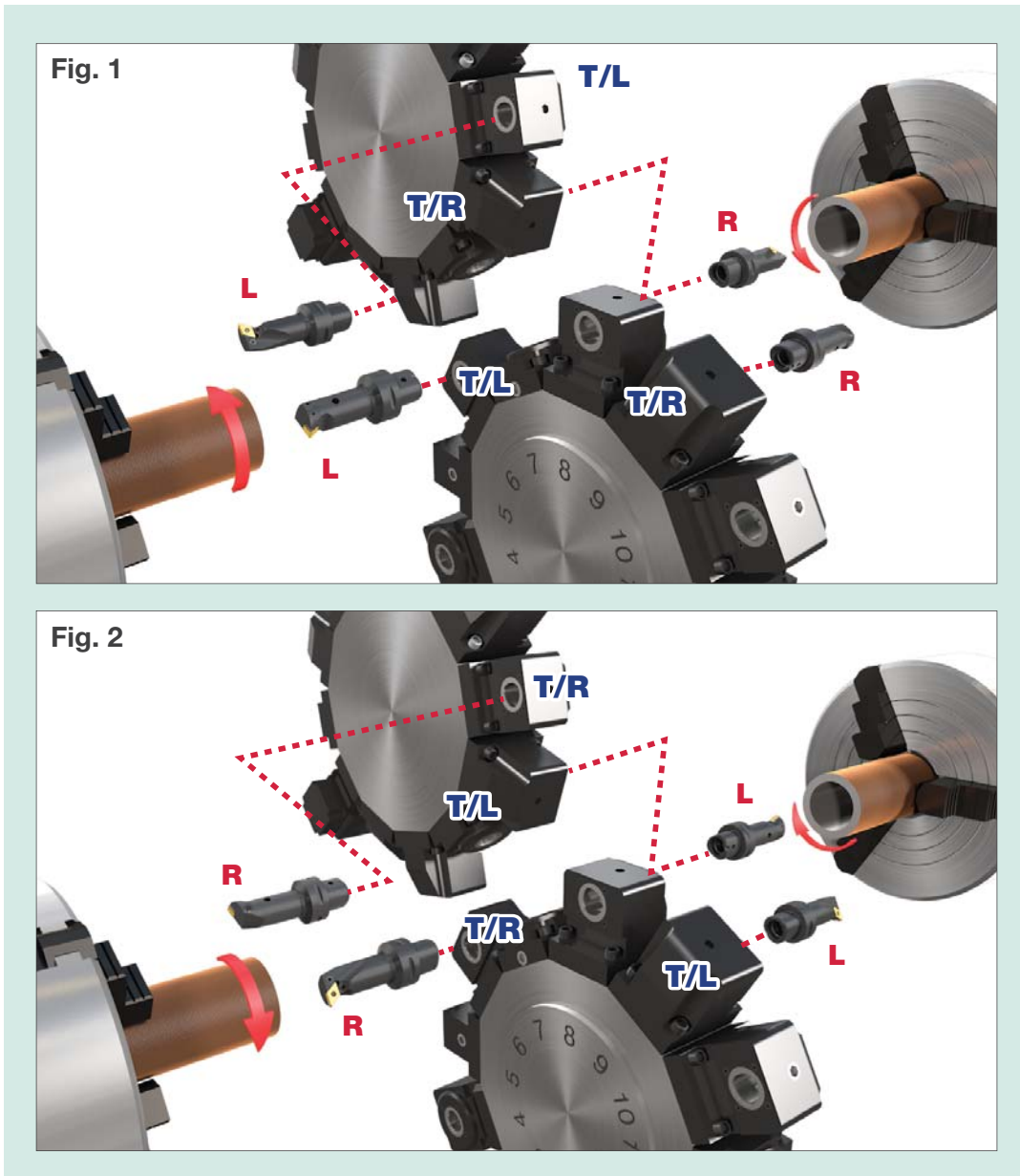
Selection for External turning



R: Right hand cutting tool
T/R: Right hand clamping unit

L: Left hand cutting tool
T/L: Left hand clamping unit

Selection for Internal turning



R: Right hand cutting tool
T/R: Right hand clamping unit

L: Left hand cutting tool
T/L: Left hand clamping unit

Tightening torque recommendation



PSC size	Tightening torque (N · m)	Clamping force (Min. KN)	Torque wrench size (mm)	
			Static tool unit	Driven tool unit
C3	35	16	8	6
C4	50	21	10	8
C5	70	27	12	10
C6	90	30	12	12
C8	130	37	12	12

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