

Tungaloy

Member IMC Group

Keeping the Customer First

Tungaloy Report No. 410-E

TOOLLINE Total tooling system

TUNGCAP



Quick change polygon tool clamping system !



This tooling system can accelerate productivity providing optimal tool holding solutions for a diverse range of machines !

Features

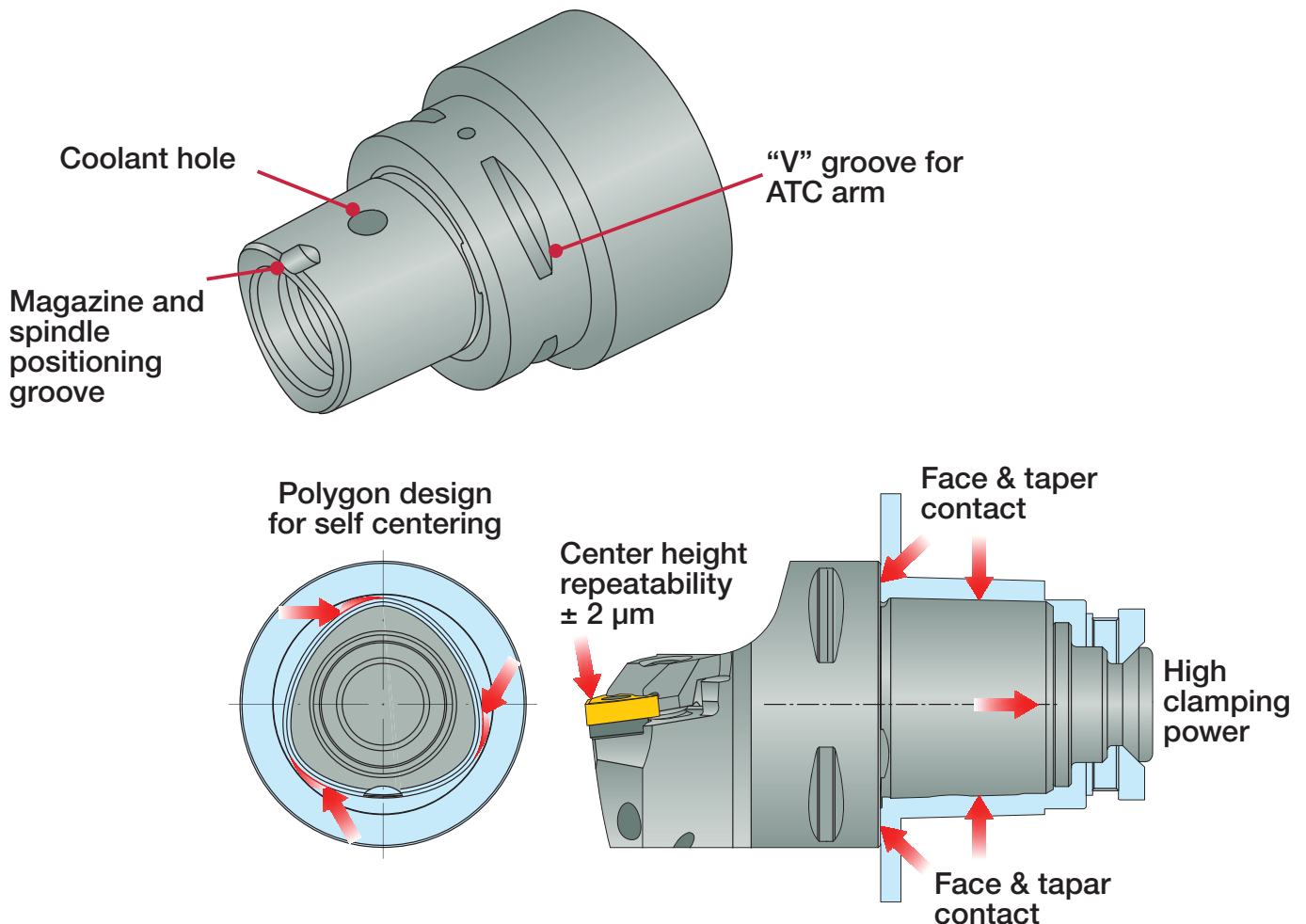
● High rigidity

The TungCap clamping mechanism is extremely rigid and resilient against bending forces

● Excellent accuracy

- The taper and face contact ensure high repeatability of the edge position
- The polygonal clamping design creates a self-centring effect to improve accuracy

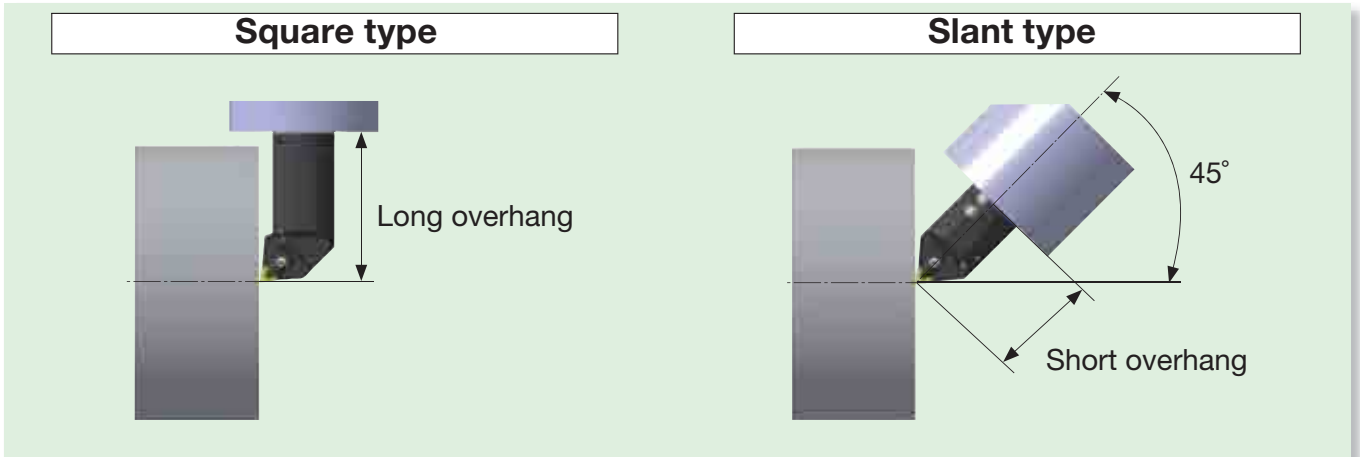
TUNGCAP Quick change system (Interchangeable with PSC standard)



● High productivity on flexible machine tools

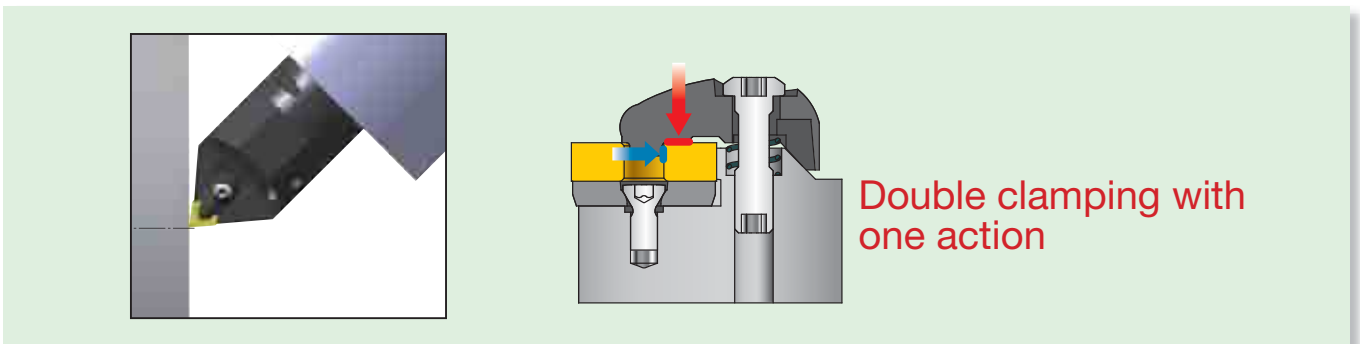
Slant type toolholders for external turning

- Avoids interference between work piece and toolholder with short overhang
- Reduces spindle load and chattering



TURNING External toolholders

Provides long tool life and high stability when cutting



TUNGCUT Multi-functional grooving system

Applicable in various grooving operations



Tooling systems

TURNLINE

Toolholders for turning

- Adaptors for square shank toolholders
(Shank size: C4, 5, 6, 8)



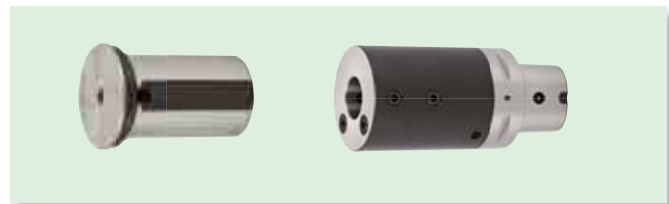
- Toolholders with PSC shank (Shank size: C5, C6)



- Grooving tool (Shank size: C5, 6)



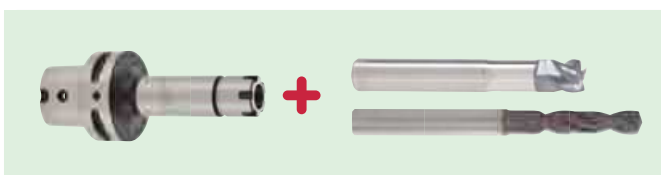
- Adaptor for boring bars
(Shank size: C4, 5, 6, 8)



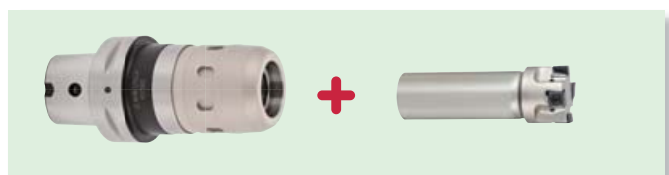
TOOLLINE

Holders for milling & drilling

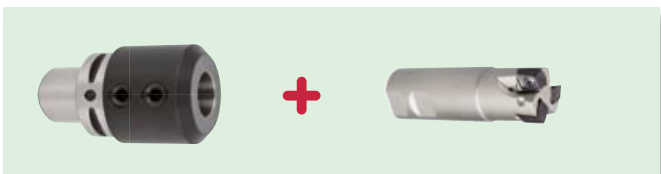
- ER collet chuck holders (Size: C4, 5, 6, 8)



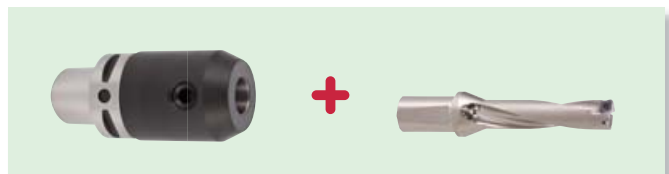
- TungMax power chuck holders
(Size: C5, 6, 8)



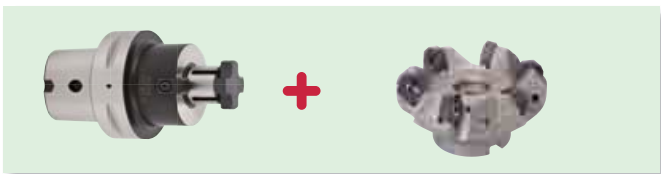
- Side lock holders for endmill
(Size: C4, 5, 6, 8)



- Side lock holders for drill (Size: C4, 5, 6, 8)

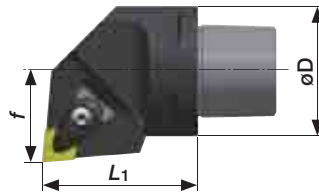
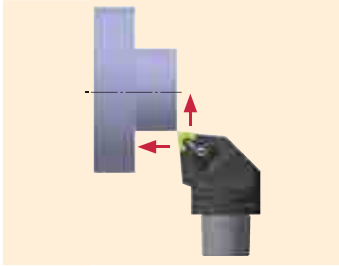


- Face mill holders (Size: C4, 5, 6, 8)



Toolholders

C-ACLNR/L External Turning A type (Negative rake, Double clamping system)



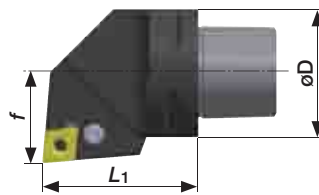
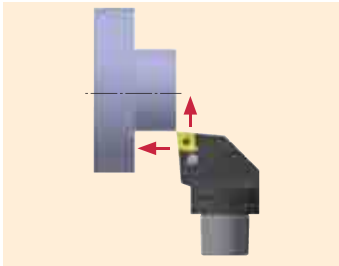
TURNING

Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner radius r_ϵ	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
	R	L	ϕD	L_1	L_2	f										
C5ACLNR/L35060-12	●	●	50	60	32	35	0.8	CN**1204**	ASC 422	SP-2.5	CSTB-3.5	ACP4S	ACS-5W	BP-7	T15F	EZ83
C6ACLNR/L45065-12	●	●	63	65	41	45										

Capable for normal pressure coolant

C-PCLNR/L External Turning P type (Negative rake, Lever-lock system)

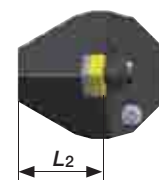
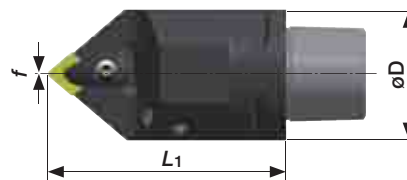
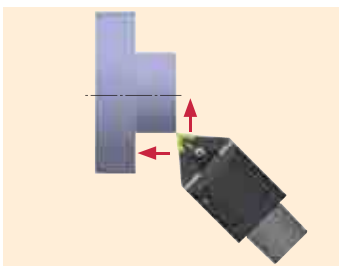


Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner radius r_ϵ	Applicable inserts	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant nozzle
	R	L	ϕD	L_1	L_2	f								
C5PCLNR/L35060-12	●	●	50	60	32	35	0.8	CN**1204**	LSC42	LSP-4	LCL4	LCS4	P-3	EZ104
C6PCLNR/L45065-12	●	●	63	65	41	45								

Capable for normal pressure coolant

C-ACLNN External Turning A type (Negative rake, Double clamping system)



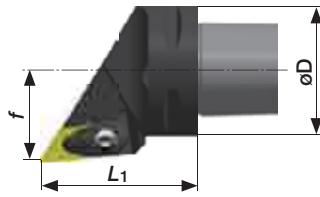
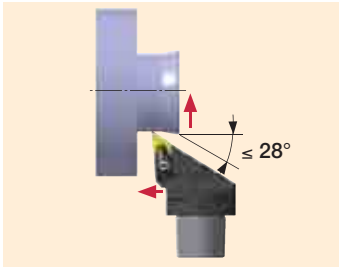
TURNING

Cat. No.	Stock	Dimensions (mm)				Std. Corner radius r_ϵ	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
		ϕD	L_1	L_2	f										
C5ACLNN00090-12	●	50	90	32	0	0.8	CN**1204**	ASC 422	SP-2.5	CSTB-3.5	ACP4S	ACS-5W	BP-7	T15F	EZ83
C5ACLNN00125-12	●	50	125	32	0										
C6ACLNN00100-12	●	63	100	37.5	0										
C6ACLNN00140-12	●	63	140	37.5	0										

Capable for normal pressure coolant

● : Stocked items

C-ADJNR/L External Turning A type (Negative rake, Double clamping system)



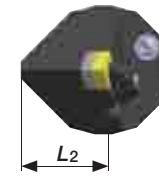
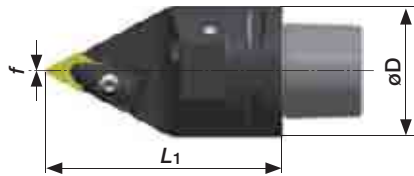
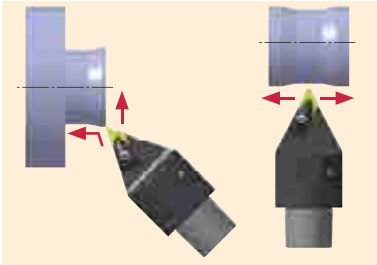
TURNING

Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner r_ϵ	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
	R	L	øD	L1	L2	f										
C5ADJNR/L35060-15	●	●	50	60	32	35	0.8	DN**1504** (DN**1506**)	ASD423(04) (ASC432(06))	SP-2.5	CSTB-3.5	ACP4S	ACS-5W	BP-7	T15F	EZ104
C6ADJNR/L45065-15	●	●	63	65	41	45										

Capable for normal pressure coolant

C-ADNNN External Turning A type (Negative rake, Double clamping system)

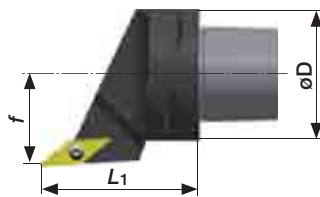
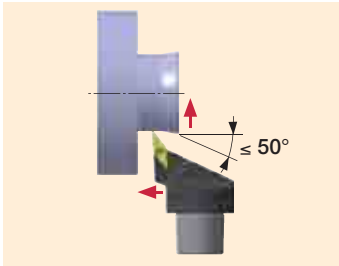


TURNING

Cat. No.	Stock	Dimensions (mm)				Std. Corner r_ϵ	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
		øD	L1	L2	f										
C5ADNNN-00090-15	●	50	90	32	0	0.8	DN**1504** (DN**1506**)	ASD423(04) (ASC432(06))	SP-2.5	CSTB-3.5	ACP4S	ACS-5W	BP-7	T15F	EZ104
C5ADNNN-00125-15	●	50	125	32	0										
C6ADNNN-00100-15	●	63	100	37.5	0										
C6ADNNN-00140-15	●	63	140	37.5	0										

Capable for normal pressure coolant

C-SVJCR/L External Turning S type (Positive rake, Screw on clamping system)



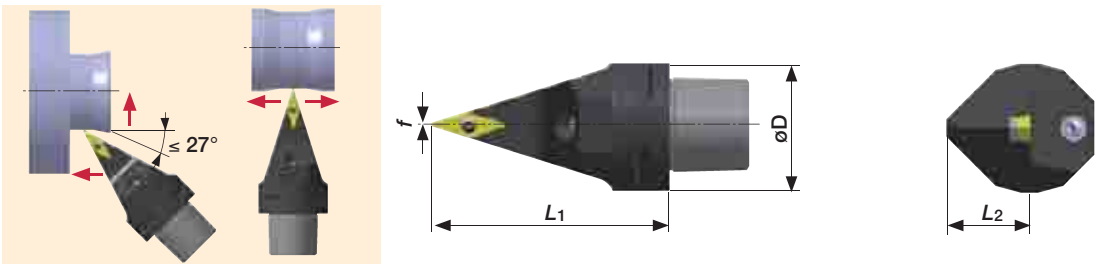
Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner r_ϵ	Applicable inserts	Shim	Shim screw	Clamping screw	Wrench	Wrench	Coolant nozzle
	R	L	øD	L1	L2	f								
C5SVJCR/L35060-16	●	●	50	60	32	35	0.8	VC**1604**	SSV32	DTS5-3.5	CSTB-3.5L	T-15F	P-3.5	EZ104
C6SVJCR/L45065-16	●	●	63	65	41	45								

Capable for normal pressure coolant

● : Stocked items

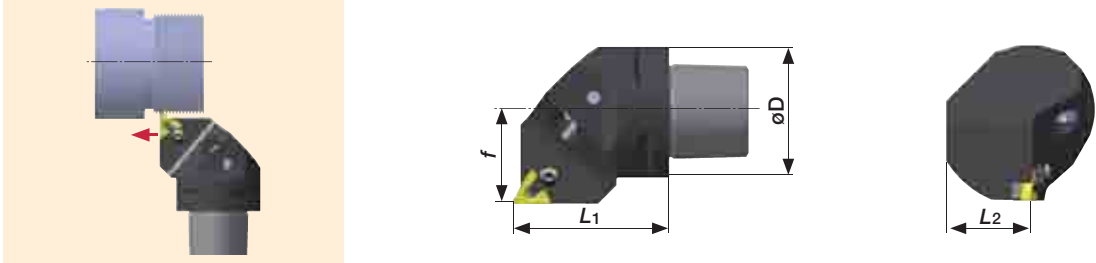
C-SVVCN External Turning S type (Positive rake, Screw on clamping system)



Cat. No.	Stock	Dimensions (mm)				Std. Corner r_ϵ	Applicable inserts	Shim	Shim screw	Clamping screw	Wrench	Wrench	Coolant nozzle
		ϕD	L_1	L_2	f								
C5SVVCN00090-16	●	50	90	32	0	0.8	VC**1604**	SSV32	DTS5-3.5	CSTB-3.5L	T-15F	P-3.5	EZ104
C5SVVCN00125-16	●	50	125	32	0								
C6SVVCN00100-16	●	63	100	37.5	0								
C6SVVCN00140-16	●	63	140	37.5	0								

Capable for normal pressure coolant

C-CER/L External threading Dual method type

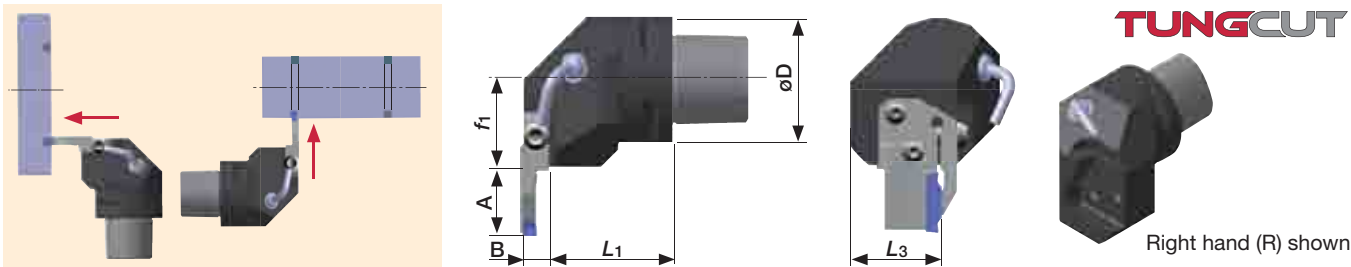


Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner r_ϵ	Applicable inserts	Shim	Shim screw	Clamping screw	Clamp set	Wrench	Wrench	Coolant nozzle
	R	L	ϕD	L_1	L_2	f									
C5CER/L35060-16ER	●	●	50	60	32	35	0.8	16ER/L	A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	EZ104
C6CER/L45065-16ER	●	●	63	65	41	45									

Capable for normal pressure coolant

C-CHFVR/L Grooving Horizontal type



Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Applicable inserts	Blade	Clamping screw	Wrench	Coolant nozzle	Coolant pipe
	R	L	ϕD	L_1	*A	L_3	f_1	*B						
C5CHFVR/L35060	●	●	50	49.5	Table 1	36	35	Table 1	DTF, DTE, DTX DGS, DGM	CAER/L CAFR/L	CSHB-6-A	P-4	CNZ125	PNZ25
C6CHFVR/L45065	●	●	63	54.5	Table 1	41	45	Table 1						

Capable for normal pressure coolant

Combination of blade and toolholder

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

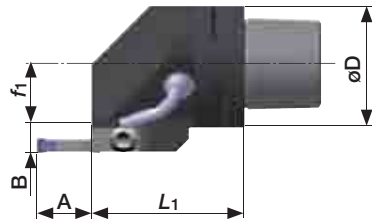
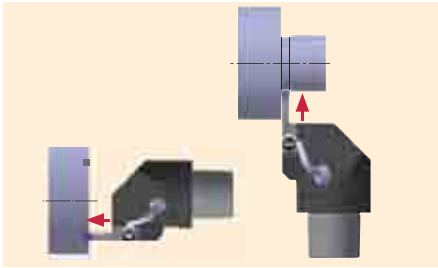
● : Stocked items

C-CHSR/L

Grooving

Vertical type

TUNGCUT



Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Applicable inserts	Blade	Clamping screw	Wrench	Coolant nozzle	Coolant pipe
	R	L	øD	L1	A	L3	f1	B						
C5CHSR/L35060	●	●	50	60	Table 1	36	24.5	Table 1	DGS/SGS, DGM/SGM, DTX, DTE, DTR	CAER/L CAFR/L	CSHB-6-A	P-4	CNZ125	PNZ25
C6CHSR/L45065	●	●	63	65	Table 1	41	34.5	Table 1						

Capable for normal pressure coolant

Combination of blade and toolholder

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

Table. 1: Offset dimensions for blade

	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

Insert application

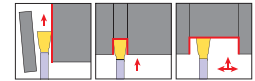
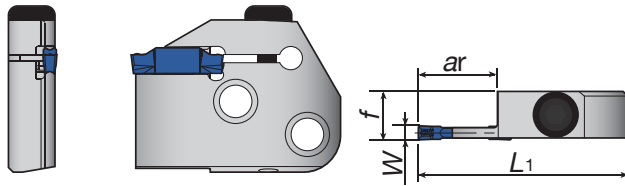
Insert	Application				
	Grooving		Parting off	Turning	
	External	Face		External	Face
DGM / SGM	●	●	●		
DGS / SGS	●	●	●		
DTE	●	●		●	●
DGE	●				
DTX	●	●	●	●	●
DTI					
DTF		●			●
DTR	●			●	
DTIU	● Undercutting				
DTA				● Al wheel machining	

● : Stocked items

● Blades (For general purpose)

TUNG CUT

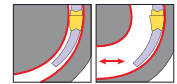
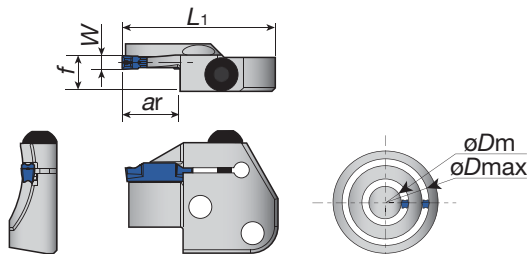
CAE R/L External grooving and turning



Right hand (R) shown

Insert seat size	Cat. No.	Stock		*Max. groove depth ar (mm)	Dimensions (mm)			Inserts	Shank	Parts	
		R	L		L ₁	f	W			Clamping screw	Wrench
3	CAER/L-3T16	●	●	16	45	10.4	3	DGS / SGS DGM / SGM DTX DTE DTR	CHFVR/L CHSR/L	BHM6-20-A	P-4
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				

CAF R/L Face grooving and turning



Right hand (R) shown

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

(1) When depth is deeper than insert length, 1 corner type is recommended.

(2) "f" value in the above table is calculated with groove width "W" shown in the table.

■ Caution

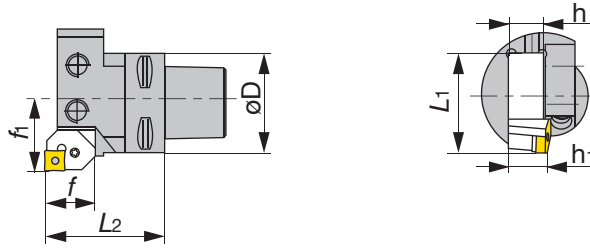
In DTF and DTX insert types, seat size "6" inserts are not available. When 6 size insert is required, the DTE, DGM or DGS type is recommended.

(3) 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	

● : Stocked items

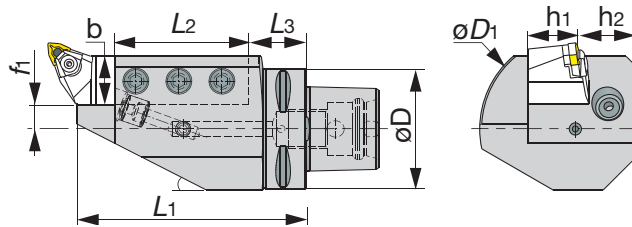
C-ADER/L Adaptors for square shank toolholders



Cat. No.	Stock		Dimensions (mm)							Clamp screw
	R	L	øD	f ₁	L ₂	f	h ₁	h	L ₁	
C4ADE-20R/L			40	35	54	25	20	20	67	SR M10X20DIN912
C5ADE-20R/L	●	●	50	35	60	20	20	20	67	SR M10X16

Toolholders may be used after shortening shank length

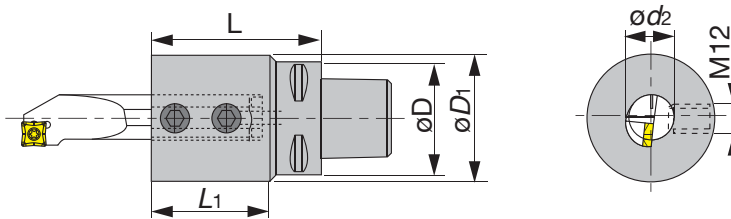
C-ASHR/L Adaptors for square shank toolholders



Cat. No.	Stock		Dimensions (mm)										Clamp screw
	R	L	øD	L ₁	L ₂	L ₃	f ₂	h ₁	b	h ₂	h ₃	øD ₁	
C5ASHR/L201	●	●	50	98	63.5	24.5	10	20	20	33	30	90	SR M10x25 DIN915 45H
C6ASHR/L251	●	●	63	120	70	30	13	25	25	32	38	100	SR M12x30 DIN915 45H
C8ASHR/L32-1			80	140	95	35	8	32	32	32	40	110	

Toolholders may be used after shortening shank length

C-ADI Adaptors for boring bars

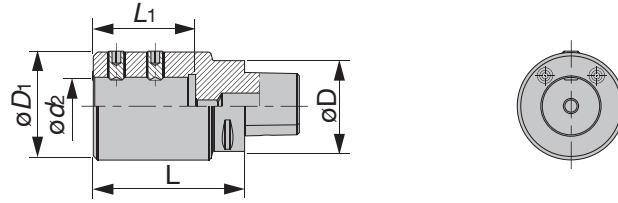


Cat. No.	Stock	Dimensions (mm)				
		øD	ød ₂	øD ₁	L	L ₁
C4ADI25		40	25	60	80	60
C5ADI20	●	50	20	55	75	49
C5ADI25	●	50	25	60	85	60

● : Stocked items

C-ABB

Adaptors for boring bars with sleeves



Cat. No.	Stock	Dimensions (mm)					Clamp screw	
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	L_1	Used on A-type sleeves	Used on B-type sleeves
C5ABB-25-60	●	50	25	63	100	60	SR M10x20 DIN 915	SR M10x12 DIN 1835-B
C6ABB-25-60	●	63	25	63	100	60		
C6ABB-40-70	●	63	40	75	105	71	SR M12x20 DIN 915	SR M12x16 DIN 1835-B
C8ABB25-60		80	25	63	100	60	SR M10x20 DIN 915	SR M10x12 DIN 1835-B
C8ABB40-72		80	40	75	105	71	SR M12x20 DIN 915	SR M12x16 DIN 1835-B

SC

Sleeves for C-ABB adaptors

Fig. A

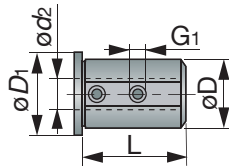
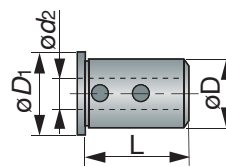


Fig. B

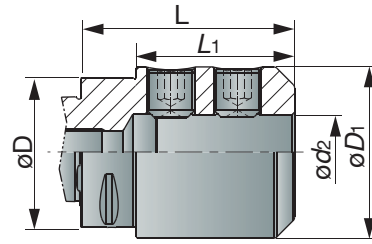
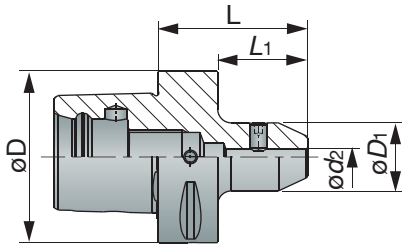


Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	L	G_1	Fig.
SC25T6A	●	25	6	31	56	M6	A
SC25T8A	●	25	8	31	56	M8	A
SC25T10A	●	25	10	31	56	M8	A
SC25T12A	●	25	12	31	56	M8	A
SC25T16B	●	25	16	31	56	-	B
SC25T20B	●	25	20	31	56	-	B
SC40T6A	●	40	6	46	58	M6	A

Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d_2$	$\varnothing D_1$	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

C-EM

Weldon endmill holders (DIN1835 Form B)

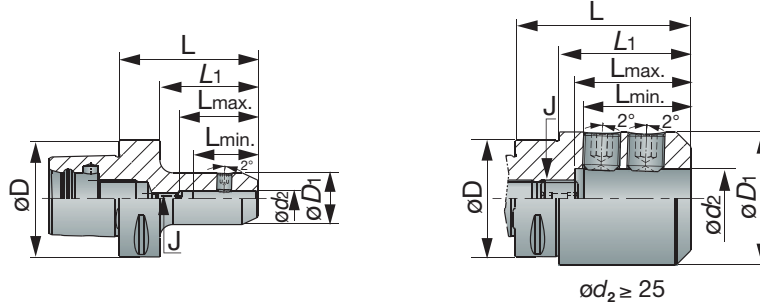


$\phi d_2 \geq 25$

Cat. No.	Stock	Dimensions (mm)				
		ϕD	ϕd_2	ϕD_1	L	L ₁
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
C6EM 6X55		63	6	25	55	33
C6EM 8X55		63	8	28	55	33
C6EM10X60		63	10	35	60	38
C6EM12X60	●	63	12	42	60	38

Cat. No.	Stock	Dimensions (mm)				
		ϕD	ϕd_2	ϕD_1	L	L ₁
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

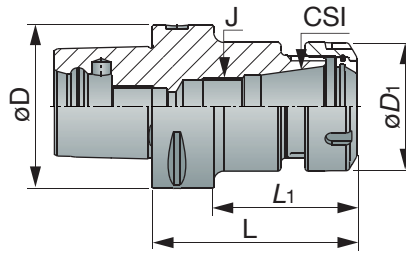
● : Stocked items



Cat. No.	Stock	Dimensions (mm)							
		øD	ød2	øD1	L	L		L1	J
						Min.	Max.		
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)							
		øD	ød2	øD1	L	L		L1	J
						Min.	Max.		
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

C-ER ER collet holders (DIN6499)



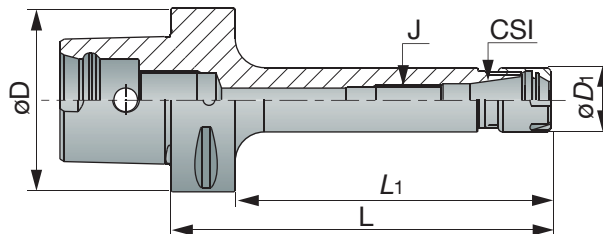
Cat. No.	Stock	Range		Dimensions (mm)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C4ER16X70		1	10	40	ER16	28	70	50	M10
C4ER20X35		1	13	40	ER20	34	35	27	-
C4ER20X52		1	13	40	ER20	34	52	32	-
C4ER25X38		1	16	40	ER25	42	38	30	-
C4ER25X52		1	16	40	ER25	42	52	32	-
C4ER32X54		2	20	40	ER32	50	54	34	-
C5ER16X100	●	1	10	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
C5 ER32X057	●	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	-
C6ER20X100	●	1	13	63	ER20	34	100	78	M12

Cat. No.	Stock	Range		Dimensions (mm)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
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

Collet P. 18 Wrench P. 19

Wrench is not included

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

ER Collet P. 17

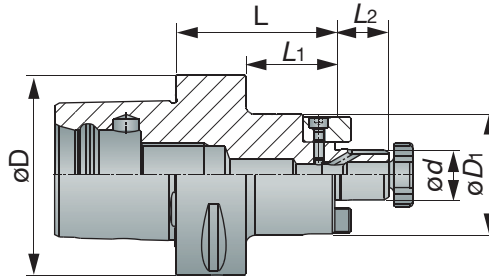
Wrench P. 19
Preset Screw

Wrench is not included

● : Stocked items

C-SEM

Shell mill holders with coolant hole



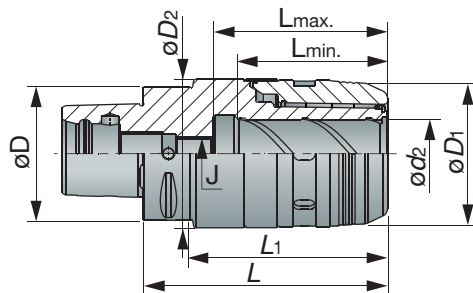
Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d$	$\varnothing D_1$	L	L_2	L_1
C4SEM16X32C		40	16	38	32	12	17
C4SEM16X55C		40	16	38	55	35	17
C4SEM22X40C		40	22	47	40	20	19
C4SEM22X55C		40	22	47	55	35	19
C5SEM16X35C	●	50	16	38	35	17	15
C5SEM16X70C		50	16	38	70	17	50
C5SEM22X35C	●	50	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

Cat. No.	Stock	Dimensions (mm)					
		$\varnothing D$	$\varnothing d$	$\varnothing D_1$	L	L_2	L_1
C6SEM25.4X37C	★	63	25.4	50	37	22	-
C6SEM27X60C	●	63	27	58	60	21	38
C6SEM27X100C		63	27	58	100	21	78
C6SEM31.75X60C	★	63	31.75	64	60	30	-
C6SEM32X60 C		63	32	66	60	24	38
C6SEM38.1X60C	★	63	38.1	80	60	34	-
C6SEM40X60 C		63	40	82	60	27	38
C8SEM16X50C		80	16	38	50	20	17
C8SEM16X100C		80	16	38	100	20	17
C8SEM22X50C		80	22	47	50	20	19
C8SEM22X100C		80	22	47	100	20	19
C8SEM27X50		80	27	58	50	20	21
C8SEM27X100C		80	27	58	100	20	21
C8SEM32X50C		80	32	66	50	20	24
C8SEM32X100C		80	32	66	100	20	24
C8SEM40X60 C		80	40	82	60	30	27

Wrench is not included

Wrench P. 17

C-TUNGMAX Power chuck holders



Cat. No.	Stock	Dimensions (mm)									
		$\varnothing D$	$\varnothing d$ Min.	$\varnothing d_2$	$\varnothing D_1$	$\varnothing D_2$	L	L_1	L		J
									Min.	Max.	
C5TUNGMAX20X100	●	50	6	20	51	53	100	75	55	67	M16
C6TUNGMAX20X95	●	63	6	20	51	53	95	73	55	67	M16
C6TUNGMAX32X115	●	63	6	32	69	70	115	93	70	82	M16
C8TUNGMAX20X95		80	6	20	51	53	95	65	55	67	M16
C8TUNGMAX32X115		80	6	32	69	70	115	85	70	82	M16

Wrench is not included

Wrench P. 18

Wrench P. 17
Preset Screw

● : Stocked items
★ : Available in 2012

ER Collet

ER 11

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 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)	Class AA					
	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	<p>ULTRA PRECISION AA</p>					
23-24						
24-25						
25-26						

ER□□SPR□-□

Range (mm)	Class standard					
	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□-□

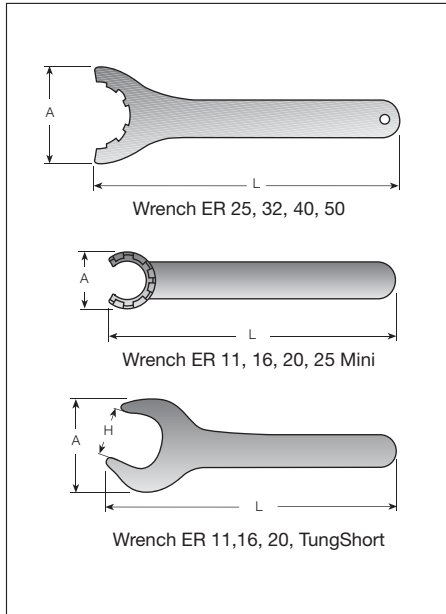
Range (mm)	Seal for internal oil hole				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4	●	●	●	●	
4-5	●	●	●	●	
5-6	●	●	●	●	
6-7	●	●	●	●	
7-8	●	●	●	●	
8-9	●	●	●	●	
9-10	●	●	●	●	
10-11		●	●	●	
11-12		●	●	●	
12-13		●	●	●	
13-14			●	●	
14-15			●	●	
15-16			●	●	
16-17				●	
17-18				●	
18-19	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

ER□□SEAL□-□JET2

Range (mm)	Seal JET2 for external oil hole				
	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					

Wrench for ER Collet Chuck

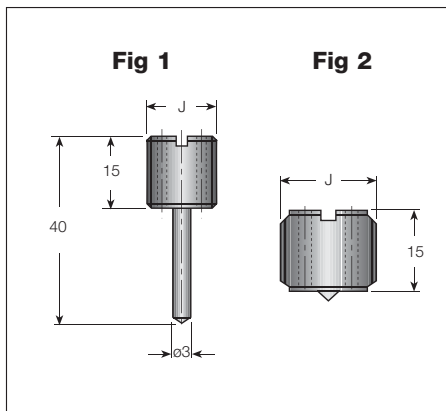
WRENCH-ER / ER DIN 6499



Cat. No.	Stock	Dimensions (mm)		
		A	H	L
WRENCHER11MINI	●	16.8	-	95
WRENCHER11	●	32	17	95
WRENCHER16MINI	●	22.5	-	117
WRENCHER16	●	42.8	25	143
WRENCHER20MINI	●	28	-	128
WRENCHER20	●	53.5	30	172
WRENCHER25MINI	●	29	-	120
WRENCHER25	●	70	-	207
WRENCHER32	●	78	-	255
WRENCHER40		95	-	285
WRENCHER50		110	-	350
WRENCHER20SHORTRING22	●	48	22	260
WRENCHER32SHORT	●	75	36	303
WRENCHER40SHORT		94	46	378

Preset screws for ER Collet Chuck

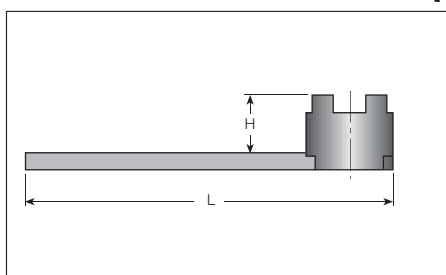
PRESET ER-JET



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

Wrench for Shell Mill Holder

WRENCH SEMC / DIN 6368 (Option)

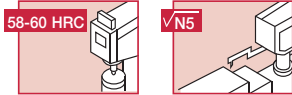
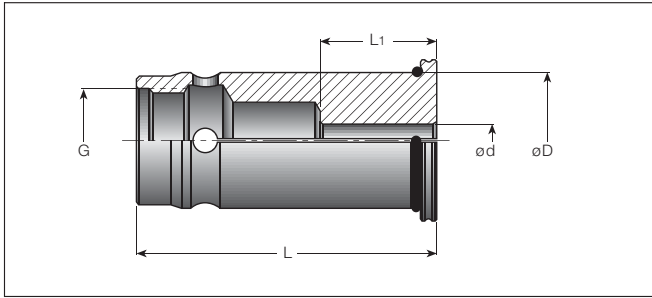


Cat. No.	Stock	Dimensions (mm)			
		Inner diameter of cutter body ø	Screw size	H	L
WRENCHM8SEMC16	●	16	M8	20	180
WRENCHM10SEMC22	●	22	M10	25	200
WRENCHM12SEMC27	●	27	M12	32	225
WRENCHM16SEMC32	●	32	M16	36	250
WRENCHM20SEMC40	●	40	M20	40	280
WRENCHM24SEMC50	●	50	M24	50	315

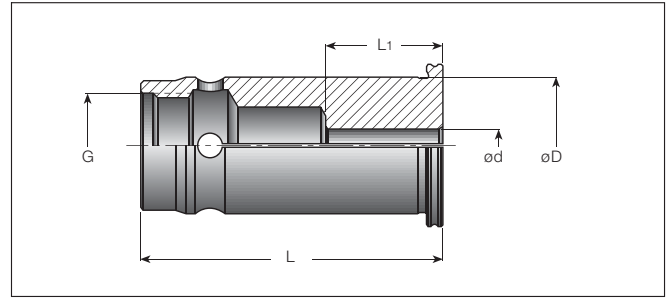
● : Stocked items

TUNGMAX Collet for Power Chuck

A SC-SEAL



B SC-SPR



A SC-SEAL SC Sealed Straight Collet - Metric

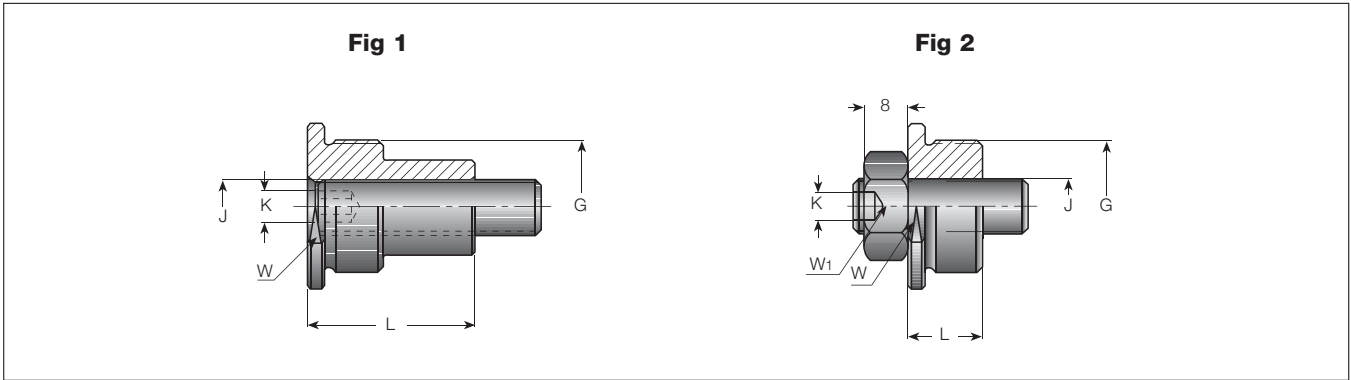
Cat. No.	Stock	Dimensions (mm)				
		ød	øD	L	L ₁	G
SC20SEAL6	●	6	20	60	28	M16
SC20SEAL8	●	8	20	60	28	M16
SC20SEAL10	●	10	20	60	35	M16
SC20SEAL12	●	12	20	60	40	M16
SC20SEAL14	●	14	20	60	40	M16
SC20SEAL15	●	15	20	60	40	M16
SC20SEAL16	●	16	20	60	39	M16
SC32SEAL6	●	6	32	72	28	M24x1.5
SC32SEAL8	●	8	32	72	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

B SC-SPR SC Straight Collet - Metric

Cat. No.	Stock	Dimensions (mm)				
		ød	øD	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		84	32	72	45	M24x1.5
SC32SPR25		25	32	72	51	M24x1.5

● : Stocked items

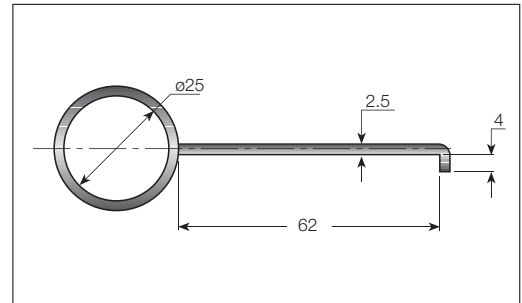
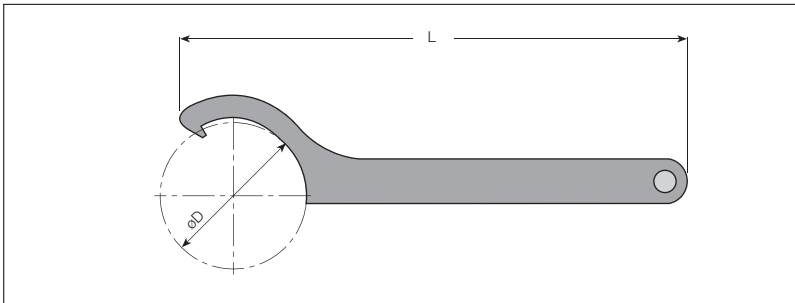
SC-SPR



PRESET SC CAP Preset screw for SC Collets (Power Chuck)

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

TUNGMAX Wrench



Wrench for TungMax Collets

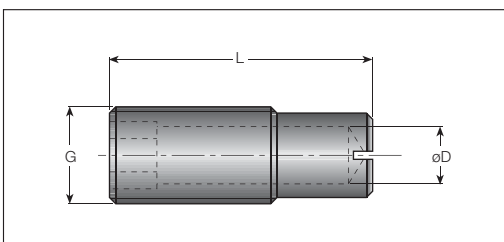
Cat. No.	Stock	Dimensions (mm)	
		øD	L
WRENCHTUNGMAX20HOOK	●	26	205
WRENCHTUNGMAX32HOOK	●	68	240

SC Collet extracting hook for TungMax

Cat. No.	Stock
EXTRACTORSCCOLLETS	●

TUNGMAX

Preset screws



Cat. No.	Stock	Dimensions (mm)			
		G	L	øD	K
PRESETTUNGMAX16X30	●	M16	30	8	8
PRESETTUNGMAX16X44	●	M16	44	8	8
PRESETTUNGMAX20X55	●	M20	55	12	12



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