Tungaloy
Member IMC Group

Tungaloy Report No. 410-US

TOOLLINE Total tooling system

TUNGCAP

New Line of Extension and Reduction Adapters

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

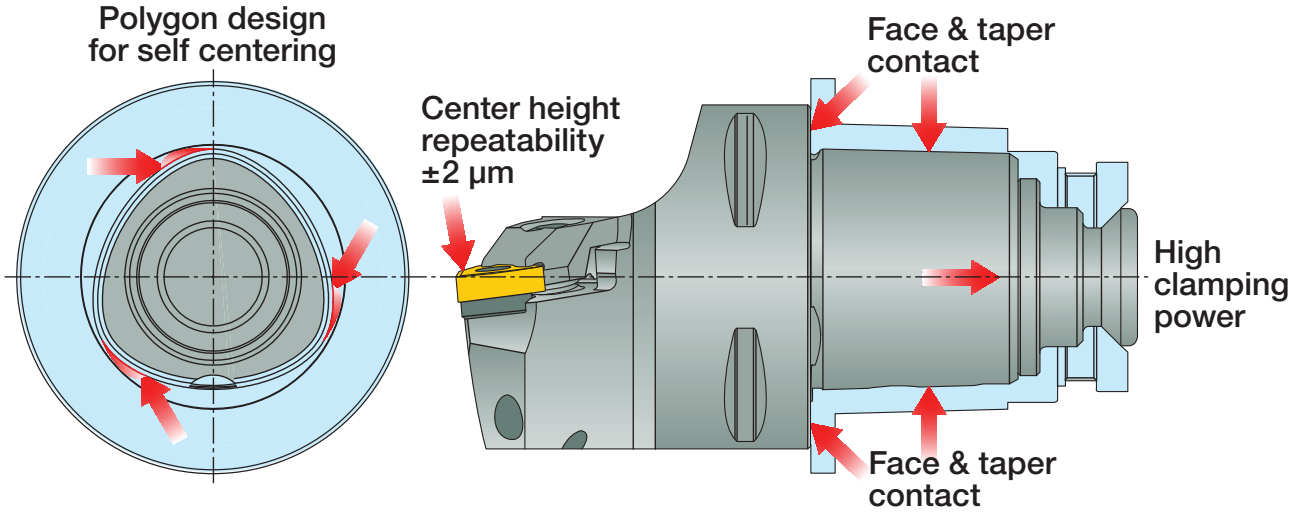
The TungCap clamping mechanism is extremely rigid and resists bending forces

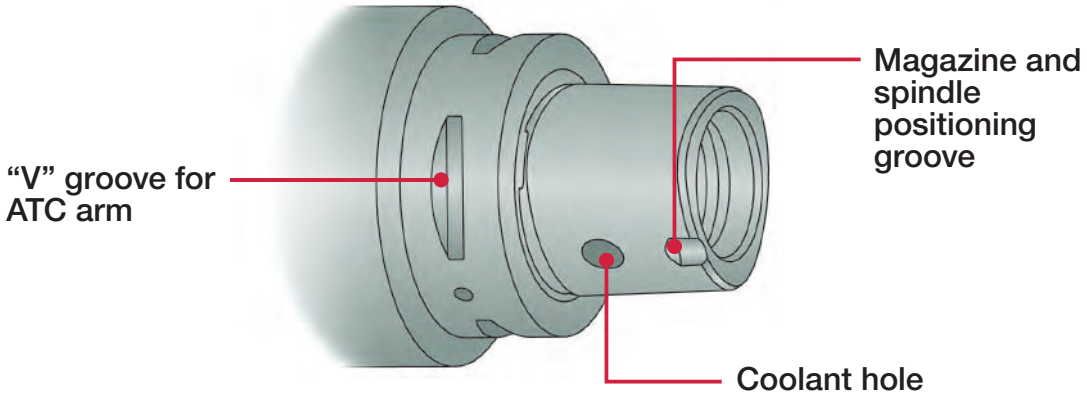
Excellent accuracy

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

TUNGCAP Quick change system

(Interchangeable with PSC standard)





Easy tool management

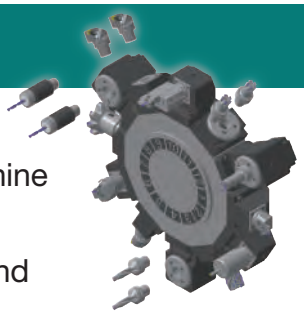
Suitable for a variety of applications

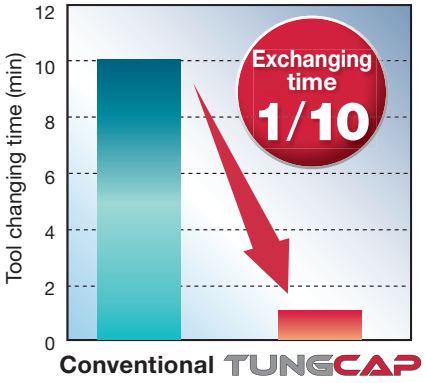
- TungCap can be used as modular tools for a wide range of machining
- Adapters with HSK and BT with dual contact interfaces are available

Ideal tooling can be applied

- Optimum overhang length can be set with extension or reduction arbors

Short tool exchanging time





- No need to index the insert on the machine
- ±2 µm! Highly accurate repeatability!
  No test cutting required by setting-up and measuring outside of machine

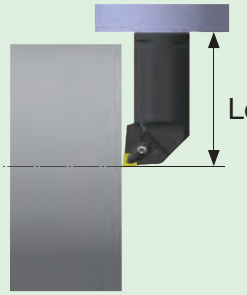
Drastically reduces machine downtime

High productivity on flexible machine tools

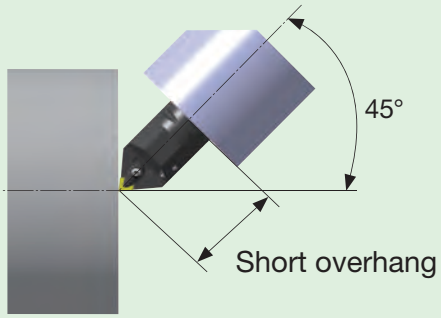
Slant type toolholders for external turning

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

Square type



Slant type



TOOLLINE Holders for milling & drilling

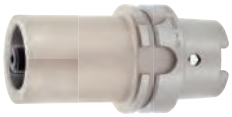
Interface of machine

PSC | BT | HSK-A

Adapters for BT shank with dual contact — New

BT-FC — P22

Adapters for HSK shank — New



HSK-A-C/-T — P23

TUNGREC

C-EPS — Available in 2014 spring

ROUGHINGMILL

C-ELS — Available in 2014 spring

DOFEEDMINI

C-EXN — Available in 2014 spring

TUNGDRILLTWISTED

C-TDX — Available in 2014 spring

Extension — New

C-EX — P24

Reduction — New

C-RE — P24

Power chuck holders

TUNGMAX C-MAXIN — P19

Side lock holders for endmill

C-EM — P15

Side lock holders for drill

C-EM-E — P16

ER collet chuck holders

C-ER — P17

Center alignment holders

TUNGFINE ADJ-C — P19

Thermal shrinking holders

TUNGSHRINK C-SRKIN — P20

Shell mill holders

C-SEM — P18

Slot milling holders — New

C-SCA — P21

Indexable modular system

TUNGFIX C-ODP — P21

Tool clamp fixture for TungCap shank

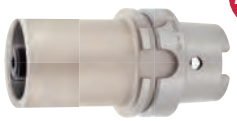
Interface of machine

PSC | BT | HSK-T

Adapters for BT shank with dual contact — New

BT-FC-T
P23

Adapters for HSK shank — New



HSK-A-C-T
P23

Clamping unit (special)

Extension — New

C-EX
P24

Reduction — New

C-RE
P24

Toolholders with PSC shank

TURNINGA

C-ACLNR
P6

C-ADJNR
P7

C-ACLNN
P6

C-ADNNN
P7

C-PCLNR
P6

C-PDJNR
P7

C-SVVCN
P8

C-SVJCR
P8

Grooving tool

TUNGCUT

C-CHFVR
P9

C-CHSR
P10

C-TBK
P14

Adapters for external turning

C-ADER
P12

C-ASHR
P12

C-ADES
P12

Adapters for boring bars

C-ADI
P14

C-ABB
P13

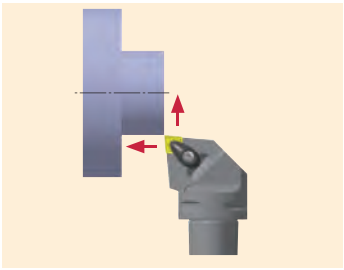
Threading

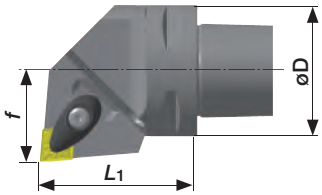
TUNGTHREAD

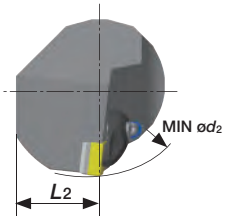
C-CER
P9

Toolholders

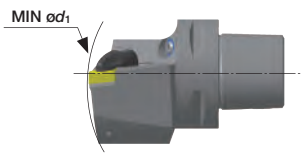
C-ACLNR/L External Turning — A type (Negative rake, Double clamping system)







TURNINGA

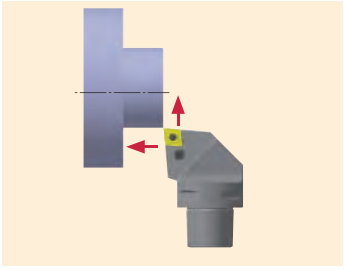


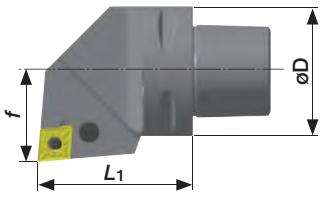
Right hand (R) shown

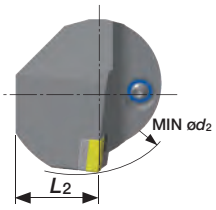
Cat. No.	Stock		Dimensions (mm)						Std. Corner radius r_ε	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f	ød1	ød2										
C4ACLNR/L27050-12N (2)	○	○	40	50	25	27	140	110	0.8	CN** 1204**	ASC 422	SP-2.5	CSTB -3.5	ACP 4S	ACS -5W	BP-7	T15F	SATZ-M10X1 -M5
C5ACLNR/L35060-12N (2)	●	●	50	60	32	35	165	110										
C6ACLNR/L45065-12N (2)	●	●	63	65	41	45	190	125										
C6ACLNR/L45135-12N (2)	●	●	63	135	41	45	190	125										
C6ACLNR/L45065-16N (2)	●	●	63	65	41	45	190	125										

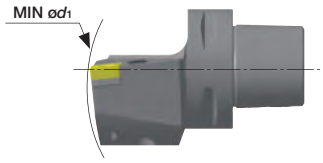
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

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







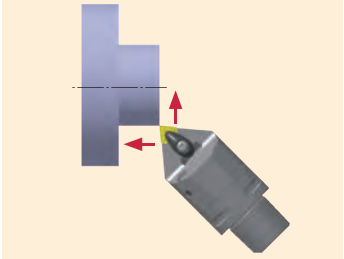


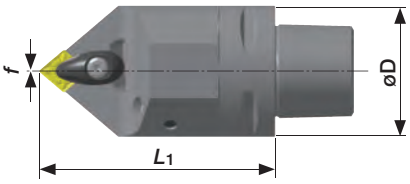
Right hand (R) shown

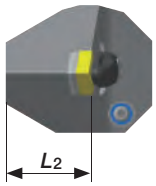
Cat. No.	Stock		Dimensions (mm)						Std. Corner radius r_ε	Applicable inserts	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f	ød1	ød2								
C5PCLNR/L35060-12N (2)	●	●	50	60	32	35	165	110	0.8	CN** 1204**	LSC42	LSP4	LCL4	LCS4	P-3	SATZ-M8X1-M3
C6PCLNR/L45065-12N (2)	●	●	63	65	41	45	190	125								

(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

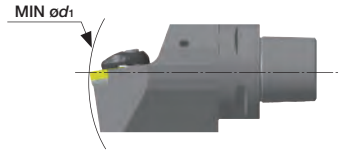
C-ACLNN External Turning — A type (Negative rake, Double clamping system)







TURNINGA

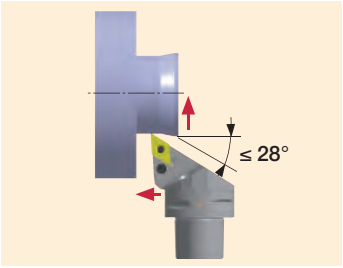


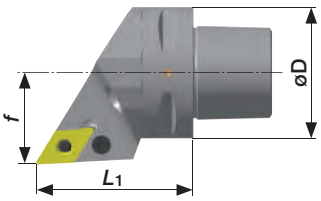
Cat. No.	Stock	Dimensions (mm)						Std. Corner radius r_ε	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
		øD	L_1	L_2	f	ød1	ød2										
C5ACLNN00090-12N (2)	●	50	90	32	0	165	-	0.8	CN** 1204**	ASC 422	SP-2.5	CSTB -3.5	ACP 4S	ACS-5W	BP-7	T15F	SATZ-M8X1-M3
C5ACLNN00125-12N (2)	●	50	125	32	0	165	-										
C6ACLNN00100-12N (2)	●	63	100	37.5	0	190	-										
C6ACLNN00140-12N (2)	●	63	140	37.5	0	190	-										

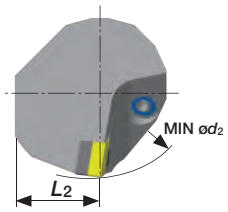
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

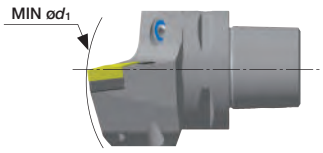
● : Stocked items
○ : Stocked in Japan

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







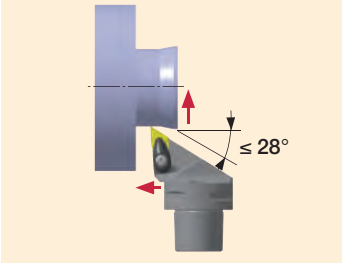


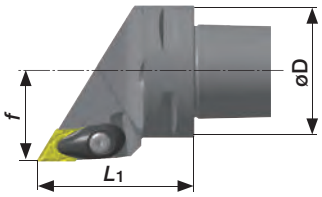
Right hand (R) shown

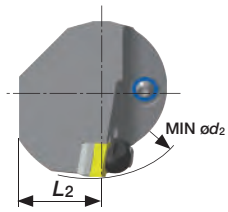
Cat. No.	Stock		Dimensions (mm)						Std. Corner radius r_ε	Applicable inserts	Shim	Spring pin	Lever	Clamping screw	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f	ød1	ød2								
C5PDJNR/L35060-15N (2)	●	●	50	60	32	35	165	110	0.8	DN**1504** (DN**1506**)	ASD423(04) (ASD432(06))	LSP4(04) (LSP4S(06))	LCL4	SSHM 4-4	P-3	SATZ-M10X1 -M5
C6PDJNR/L45065-15N (2)	●	●	63	65	41	45	195	95								

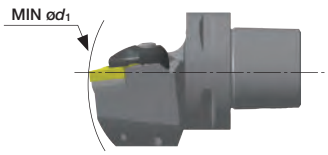
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

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







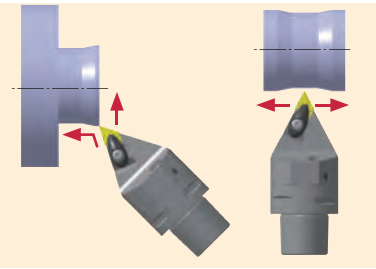


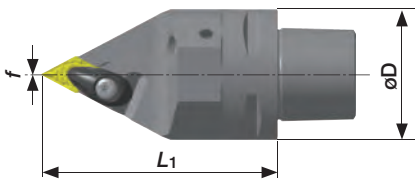
Right hand (R) shown

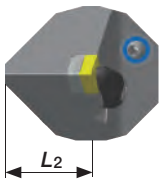
Cat. No.	Stock		Dimensions (mm)						Std. Corner r_ε	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f	ød1	ød2										
C4ADJNR/L27050-15N (2)	○	○	40	50	25	27	145	110	0.8	DN**1504** (DN**1506**)	ASD423(04) (ASD432(06))	SP -2.5	CSTB -3.5	ACP 4S	ACS -5W	BP-7	T15F	SATZ-M10X1 -M5
C5ADJNR/L35060-15N (2)	●	●	50	60	32	35	165	110										
C6ADJNR/L45065-15N (2)	●	●	63	65	41	45	190	110										
C6ADJNR/L45135-15N (2)	●	●	63	135	41	45	190	110										

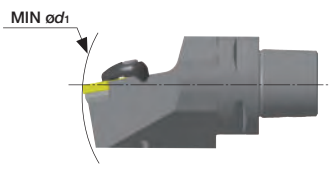
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

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







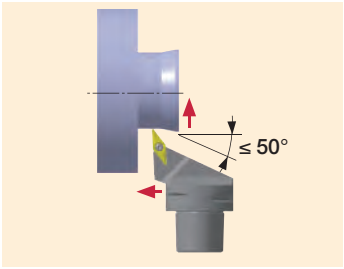


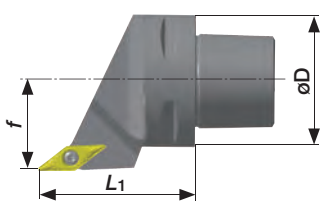
Cat. No.	Stock	Dimensions (mm)						Std. Corner r_ε	Applicable inserts	Shim	Spring pin	Shim screw	Clamp	Clamping screw	Spring	Wrench	Coolant nozzle
		øD	L_1	L_2	f	ød1	ød2										
C5ADNNN00090-15N (2)	●	50	90	32	0	165	-	0.8	DN**1504** (DN**1506**)	ASD423(06) (ASD432(04))	SP -2.5	CSTB -3.5	ACP 4S	ACS -5W	BP -7	T15F	SATZ-M10X1 -M5
C5ADNNN00125-15N (2)	●	50	125	32	0	165	-										
C6ADNNN00100-15N (2)	●	63	100	37.5	0	190	-										
C6ADNNN00140-15N (2)	●	63	140	37.5	0	190	-										

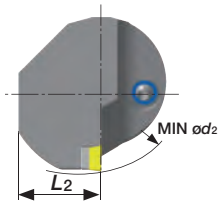
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

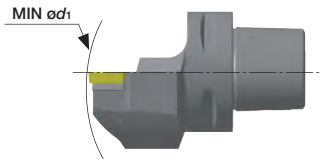
● : Stocked items
○ : Stocked in Japan

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







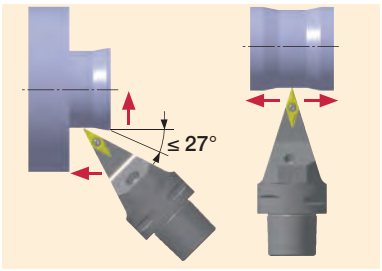


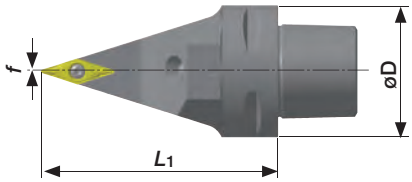
Right hand (R) shown

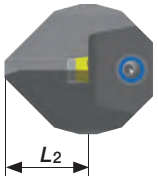
Cat. No.	Stock		Dimensions (mm)						Std. Corner r_ε	Applicable inserts	Shim	Shim screw	Clamping screw	Wrench	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f	ød1	ød2								
C4SVJCR/L27050-16N (2)	○	○	40	50	25	27	140	155	0.8	VC**1604**	SSV 32	DTS5 -3.5	CSTB -3.5L	T-15F	P-3.5	SATZ-M10X1 -M5
C5SVJCR/L35060-16N (2)	●	●	50	60	32	35	170	160								
C6SVJCR/L45065-16N (2)	●	●	63	65	41	45	170	190								

(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

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





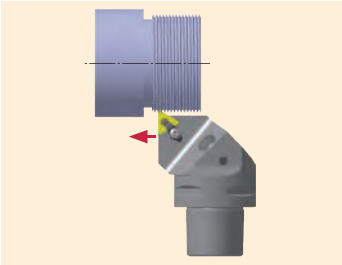


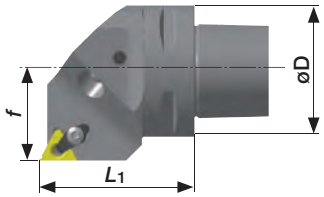
Cat. No.	Stock	Dimensions (mm)				Std. Corner r_ε	Applicable inserts	Shim	Shim screw	Clamping screw	Wrench	Wrench	Coolant nozzle
		øD	L_1	L_2	f								
C5SVVCN00090-16N (2)	●	50	90	32	0	0.8	VC**1604**	SSV32	DTS5-3.5	CSTB-3.5L	T-15F	P-3.5	SATZ-M10X1 -M5
C5SVVCN00125-16N (2)	●	50	125	32	0								
C6SVVCN00100-16N (2)	●	63	100	37.5	0								
C6SVVCN00140-16N (2)	●	63	140	37.5	0								

(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

● : Stocked items
○ : Stocked in Japan

C-CER/L External threading — Dual method type



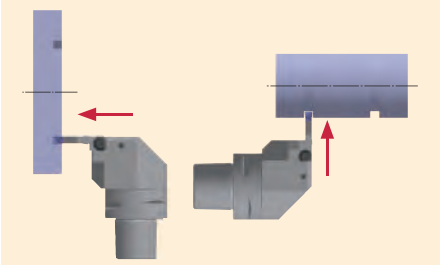


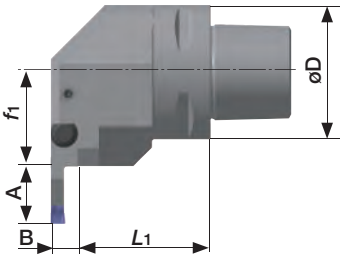
Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)				Std. Corner r_ε	Applicable inserts	Shim	Shim screw	Clamping screw	Clamp set	Wrench	Wrench	Coolant nozzle
	R	L	øD	L_1	L_2	f									
C4CER/L27050-16ERN (2)	○	○	40	50	25	27	0.8	16ER/L	A16-1DT	DTS5-3.5	CSTB-3.5ST	CSP16	T-15F	P-3.5	SATZ-M10X1-M5
C5CER/L35060-16ERN (2)	●	●	50	60	32	35									
C6CER/L45065-16ERN (2)	●	●	63	65	41	45									

(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

C-CHFVR/L Grooving — Horizontal type





Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Applicable inserts	Blade	Clamping screw	Wrench	Coolant nozzle
	R	L	øD	L_1	*A	L_3	f_1	*B					
C4CHFVR/L27050N (2)	○	○	40	42.5	Table 1 Pg. 10	36	27	Table 1 Pg. 10	DTF, DTE, DTX DTR, DGS, DGM	CAER/L CAFR/L	CSHB-6-A	P-4	SATZ-M10X1-M5
C5CHFVR/L35060N (2)	●	●	50	49.5		36	35						
C6CHFVR/L45065N (2)	●	●	63	54.5		41	45						

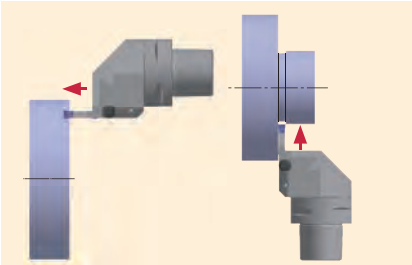
(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

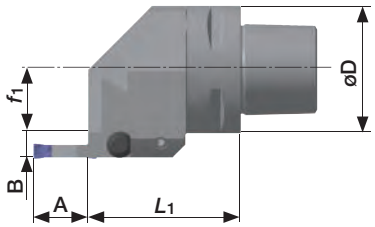
Combination of blade and toolholder

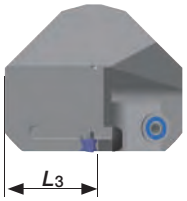
Toolholders	Blades			
	CAER□□□	CAEL□□□	CAFR□□□	CAFL□□□
CHFVR* **		●	●	
CHFVL* **	●			●

● : Stocked items
○ : Stocked in Japan

C-CHSR/L Grooving Vertical type







TUNGCUT

Right hand (R) shown

Cat. No.	Stock		Dimensions (mm)						Applicable inserts	Blade	Clamping screw	Wrench	Coolant nozzle
	R	L	øD	L_1	A	L_3	f_1	B					
C4CHSR/L27050N (2)	○	○	40	50	Table 1	36	16.5	Table 1	DGS/SGS, DGM/SGM, DTX, DTE, DTR	CAER/L CAFR/L	CSHB-6-A	P-4	SATZ-M10X1-M5
C5CHSR/L35060N (2)	●	●	50	60		36	24.5						
C6CHSR/L45065N (2)	●	●	63	65		41	34.5						

(1) Capable for normal pressure coolant (2) Capable for 7Mpa coolant pressure

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

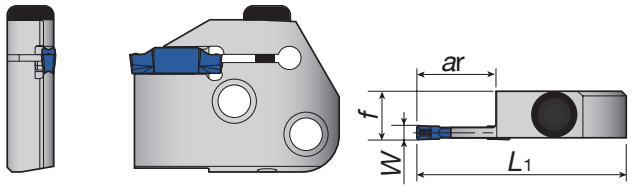
Insert	Application				
	Grooving		Parting off	Turning	
	External	Face		External	Face
DGM / SGM	●	●	●		
DGS / SGS	●	●	●		
DTE	●	●		●	●
DGE	●				
DTX	●	●	●	●	●
DTI					
DTF		●			●
DTR	●			●	
DTIU	● Undercutting				
DTA				● Al wheel machining	

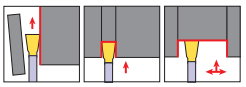
● : Stocked items
○ : Stocked in Japan

Blades (For general purpose)

TUNGCUT

CAE R/L External grooving and turning

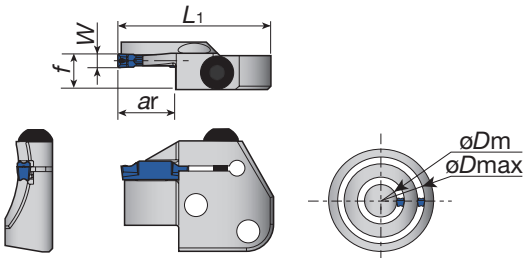


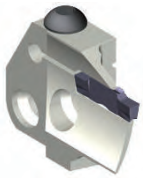


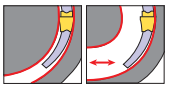
Right hand (R) shown

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. øDm (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	DTF DTE DTX DGS DGM			
	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			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			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			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.

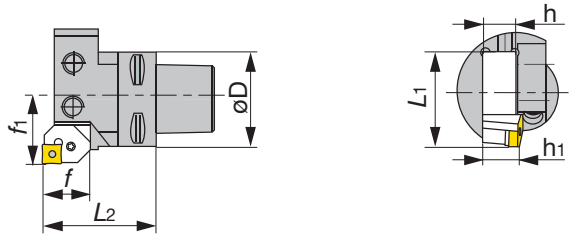
Caution

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 ø*D*m of DTE, DGS and DGM insert

Inserts	ø*D*m (mm)	Note
DTE 3 / DGS 3 / DGM 3	ø44	When diameter is smaller than ø*D*m, 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	

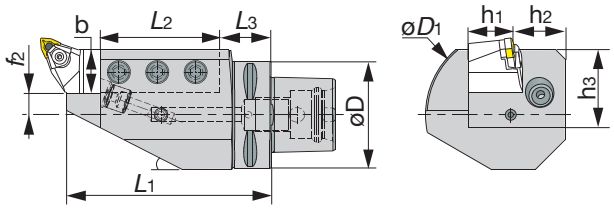
C-ADER/L Adapters for square shank toolholders



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	SRM10X20DIN912
C5ADE-20R/L	●	●	50	35	60	20	20	20	67	SRM10X16

Toolholders may be used after shortening shank length

C-ASHR/L Adapters for square shank toolholders



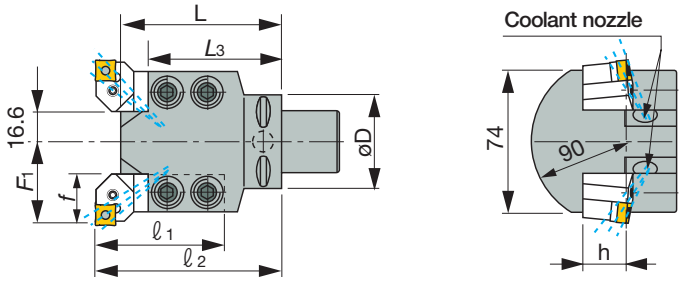
Cat. No.	Stock		Dimensions (in)										Clamp screw
	R	L	øD	L_1	L_2	L_3	f_2	h_1	b	h_2	h_3	$øD_1$	
C6ASHR/L3/4X1	●	●	2.5	3.937	2.5	1.044	0.4	0.8	0.8	1	1.181	3.543	SRM10X25DIN91545H
C6ASHR/L1X1	●	●	2.5	4.724	2.8	1.181	0.5	1	1	1	1.496	3.937	SRM12X30DIN91545H

Toolholders may be used after shortening shank length

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	SRM10X25DIN91545H
C6ASHR/L251	●	●	63	120	70	30	13	25	25	32	38	100	SRM12X30DIN91545H
C8ASHR/L32-1	○	○	80	140	95	35	8	32	32	32	40	110	

Toolholders may be used after shortening shank length

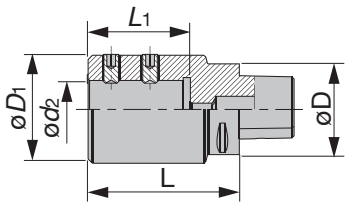
C-ADES Adapters for square shank toolholders

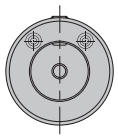


Cat. No.	Stock	Dimensions (mm)							
		øD	F_1	ℓ_2	L	L_3	h	f	ℓ_1
C4ADES-20	○	40	41.6	98	85	71	20	25	67
C5ADES-20	●	50	41.6	98	85	71	20	25	67

● : Stocked items
○ : Stocked in Japan

C-ABB Adapters for boring bars with sleeves





Cat. No.	Stock	Dimensions (in)					Clamp screw	
		øD	ød2	øD1	L	L1	Used on A-type sleeves	Used on B-type sleeves
C6ABB1X2.36	●	2.48	1	2.48	3.937	2.362	SCREW1/2-20X.500EM	HSSS3/8-24X0.250CUP.P
C6ABB11/2X2.75	●	2.48	1.5	2.953	4.134	2.756	SCREW1/2-20X.500EM	HSSS1/2-20X1.251/2DOGP

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

SC Sleeves for C-ABB adapters

Fig. A

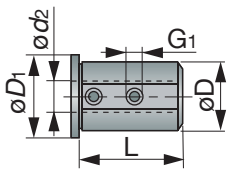
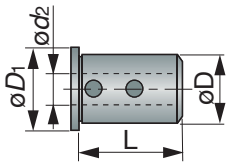


Fig. B



Cat. No.	Stock	Dimensions (in)					
		øD	ød2	øD1	L	G1	Fig.
SC1-1/2T.250A	●	1.5	0.25	1.811	2.283	M6	A
SC1-1/2T.312A	●	1.5	0.312	1.811	2.283	M6	A
SC1-1/2T.375A	●	1.5	0.375	1.811	2.283	M8	A
SC1-1/2T.500A	●	1.5	0.5	1.811	2.283	M9	A

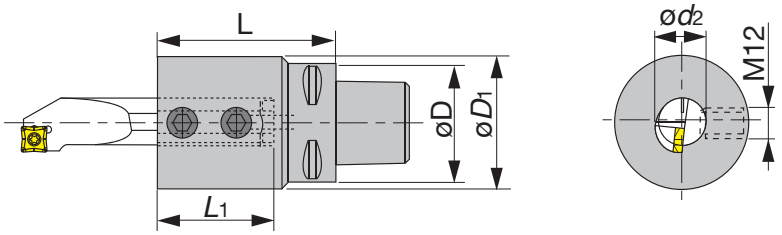
Cat. No.	Stock	Dimensions (in)					
		øD	ød2	øD1	L	G1	Fig.
SC1-1/2T.625B	●	1.5	0.625	1.811	2.283	-	B
SC1-1/2T.750B	●	1.5	0.75	1.811	2.283	-	B
SC1-1/2T1.000B	●	1.5	1	1.811	2.283	-	B
SC1-1/2T1.250B	●	1.5	1.25	1.811	2.283	-	B

Cat. No.	Stock	Dimensions (mm)					
		øD	ød2	øD1	L	G1	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)					
		øD	ød2	øD1	L	G1	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

● : Stocked items
○ : Stocked in Japan

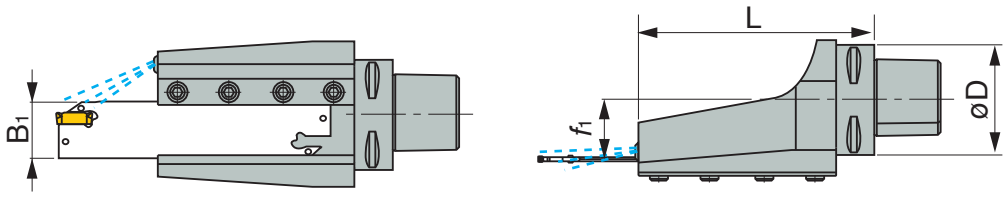
C-ADI Adapters for boring bars



Cat. No.	Stock	Dimensions (mm)					
		øD	L	L1	ød2	øD1	G1
C4ADI10	○	40	50	20	10	36	M6
C4ADI12	○	40	50	24	12	36	M8
C4ADI16	○	40	50	32	16	36	M8
C4ADI20	○	40	70	49	20	55	M12
C4ADI25	○	40	70	45	25	54	M12
C5ADI10	○	50	60	26	10	36	M6
C5ADI12	○	50	60	26	12	36	M8
C5ADI16	○	50	60	32	16	36	M8
C5ADI20	○	50	75	49	20	55	M12
C5ADI25	○	50	85	60	25	60	M12
C5ADI32	○	50	100	76	32	68	M12
C6ADI12	○	60	65	36	12	36	M8
C6ADI16	○	60	65	36	16	36	M8

Cat. No.	Stock	Dimensions (mm)					
		øD	L	L1	ød2	øD1	G1
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

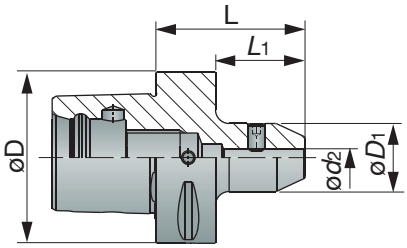
C-TBK-R/L Adapters for parting and grooving blades

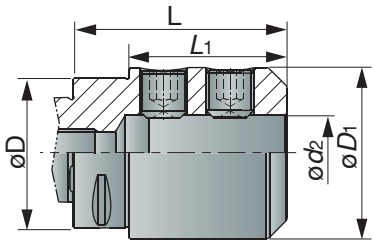


Cat. No.	Stock	Dimensions (mm)			
		øD	f1	L	B1
C6TBK-32L	●	63	32.0	138	32
C6TBK-32R	●	63	32.0	138	32

● : Stocked items
○ : Stocked in Japan

C-EM Weldon endmill holders (DIN1835 Form B)





ød_2 ≥ 25

Cat. No.	Stock	Dimensions (in)				
		øD	ød_2	øD_1	L	L_1
C6EM1/4X2.165	●	2.48	0.25	0.984	2.165	0.866
C6EM3/8X2.362	●	2.48	0.375	1.378	2.362	1.496
C6EM1/2X2.362	●	2.48	0.5	1.614	2.362	1.496
C6EM5/8X2.560	●	2.48	0.625	1.752	2.56	1.693
C6EM3/4X2.560	●	2.48	0.75	1.929	2.56	1.693

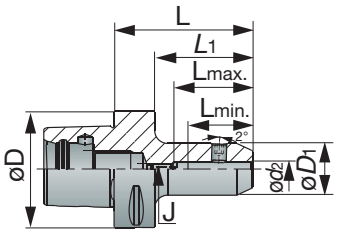
Cat. No.	Stock	Dimensions (in)				
		øD	ød_2	øD_1	L	L_1
C6EM7/8X3.189	●	2.48	0.088	2.047	3.189	2.48
C6EM1X3.347	●	2.48	1	2.559	3.347	2.48
C6EM11/4X3.500	●	2.48	1.25	2.795	3.5	2.634
C6EM11/2X3.500	●	2.48	1.5	2.992	3.5	2.634

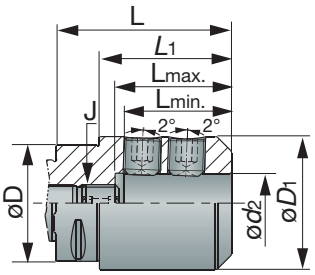
Cat. No.	Stock	Dimensions (mm)				
		øD	ød_2	øD_1	L	L_1
C4EM06X50	○	40	6	25	50	30
C4EM08X50	○	40	8	28	50	30
C4EM10X50	○	40	10	35	50	30
C4EM12X55	○	40	12	42	55	35
C4EM14X55	○	40	14	44	55	35
C4EM16X60	○	40	16	48	60	40
C5EM06X50	○	50	6	25	50	30
C5EM08X50	○	50	8	28	50	30
C5EM10X55	○	50	10	35	55	35
C5EM12X60	○	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
C6EM6X55	○	63	6	25	55	33
C6EM8X55	○	63	8	28	55	33
C6EM10X60	○	63	10	35	60	38
C6EM12X60	○	63	12	42	60	38

Cat. No.	Stock	Dimensions (mm)				
		øD	ød_2	øD_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
○ : Stocked in Japan

C-EM-E Drill holders (DIN1835 Form E whistle notch)





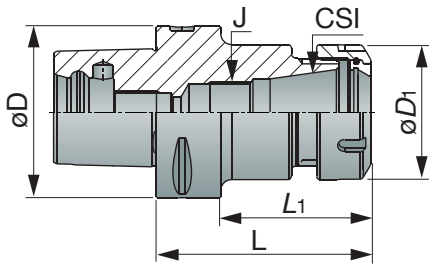
$\varnothing d_2 \geq 25$

Cat. No.	Stock	Dimensions (mm)							
		øD	ød2	øD1	L	L Min.	L Max.	L1	J
C4EM06X70E	○	40	6	25	70	30	35	50	M5
C4EM08X70E	○	40	8	28	70	35	43	50	M6
C4EM10X70E	○	40	10	35	70	39	45	50	M8
C4EM12X75E	○	40	12	42	75	44	49	55	M10
C4EM14X75E	○	40	14	44	75	44	49	55	M10
C5EM06X70E	○	50	6	25	70	30	35	50	M5
C5EM08X70E	○	50	8	28	70	35	43	50	M6
C5EM10X70E	○	50	10	35	70	39	45	50	M8
C5EM12X75E	○	50	12	42	75	44	49	55	M10
C5EM14X75E	○	50	14	44	75	44	49	55	M10
C5EM16X80E	○	50	16	48	80	47	52	60	M12
C5EM18X80E	○	50	18	50	80	47	52	60	M12
C5EM20X85E	○	50	20	52	85	49	55	65	M16
C6EM6X75E	○	63	6	25	75	30	36	53	M5
C6EM8X75E	○	63	8	28	75	35	43	53	M6
C6EM10X75E	○	63	10	35	75	39	46	53	M8
C6EM12X80E	○	63	12	42	80	44	49	58	M10

Cat. No.	Stock	Dimensions (mm)							
		øD	ød2	øD1	L	L Min.	L Max.	L1	J
C6EM14X80E	○	63	14	44	80	44	49	58	M10
C6EM16X85E	○	63	16	48	85	47	52	63	M12
C6EM18X85E	○	63	18	50	85	47	52	63	M12
C6EM20X85E	○	63	20	52	85	49	55	63	M16
C6EM25X90E	○	63	25	65	90	54	60	68	M20
C6EM32X95E	○	63	32	72	95	58	63	73	M20
C8EM06X65E	○	80	6	25	65	30	36	35	M5
C8EM08X65E	○	80	8	28	65	35	43	35	M6
C8EM10X65E	○	80	10	35	65	39	46	35	M8
C8EM12X70E	○	80	12	42	70	44	49	40	M10
C8EM14X70E	○	80	14	44	70	44	49	40	M10
C8EM16X75E	○	80	16	48	75	47	52	45	M12
C8EM18X75E	○	80	18	50	75	47	52	45	M12
C8EM20X80E	○	80	20	52	80	49	57	50	M16
C8EM25X90E	○	80	25	65	90	54	60	60	M20
C8EM32X95E	○	80	32	72	95	58	64	65	M20

● : Stocked items
○ : Stocked in Japan

C-ER ER collet holders (DIN6499)

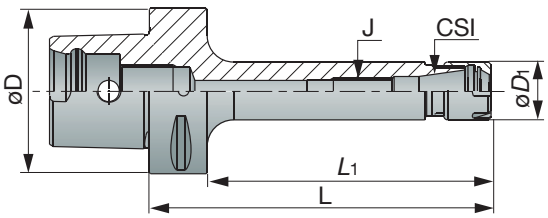


Cat. No.	Stock	Range		Dimensions (in)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C4ER16X70		0.039	0.394	1.575	ER16	1.102	2.756	1.969	M10
C4ER20X35		0.039	0.512	1.575	ER20	1.339	1.378	1.063	-
C4ER20X52		0.039	0.512	1.575	ER20	1.339	2.047	1.26	-
C4ER25X38		0.039	0.63	1.575	ER25	1.654	1.496	1.181	-
C4ER25X52		0.039	0.63	1.575	ER25	1.654	2.047	1.26	-
C4ER32X54		0.079	0.787	1.575	ER32	1.969	2.126	1.339	-
C5ER16X100	●	0.039	0.394	1.969	ER16	1.102	3.937	3.15	M10
C5ER16X130	●	0.039	0.394	1.969	ER16	1.102	5.118	4.724	M10
C5ER20X055	●	0.039	0.512	1.969	ER20	1.339	2.165	1.378	-
C5ER20X100	●	0.039	0.512	1.969	ER20	1.339	3.937	3.15	M12
C5ER20X130	●	0.039	0.512	1.969	ER20	1.339	5.118	4.724	M12
C5ER25X055	●	0.039	0.63	1.969	ER25	1.654	2.165	1.378	-
C5ER25X100	●	0.039	0.63	1.969	ER25	1.654	3.937	3.15	M16
C5ER32X057	●	0.079	0.787	1.969	ER32	1.969	2.244	1.417	-
C5ER32X100	●	0.079	0.787	1.969	ER32	1.969	3.937	3.15	M22X1.5
C6ER16X100	●	0.039	0.394	2.48	ER16	1.102	3.937	3.071	M10
C6ER16X130	●	0.039	0.394	2.48	ER16	1.102	5.118	4.252	M10
C6ER16X160	●	0.039	0.394	2.48	ER16	1.102	6.299	5.433	M10
C6ER20X060	●	0.039	0.512	2.48	ER20	1.339	2.362	1.496	-
C6ER20X100	●	0.039	0.512	2.48	ER20	1.339	3.937	3.071	M12
C6ER20X130	●	0.039	0.512	2.48	ER20	1.339	5.118	4.252	M12
C6ER20X160	●	0.039	0.512	2.48	ER20	1.339	6.299	5.433	M12
C6ER25X060	●	0.039	0.63	2.48	ER25	1.654	2.362	1.496	-
C6ER25X100	●	0.039	0.63	2.48	ER25	1.654	3.937	3.071	M16
C6ER25X130	●	0.039	0.63	2.48	ER25	1.654	5.118	4.252	M16
C6ER25X160	●	0.039	0.63	2.48	ER25	1.654	6.299	5.433	M16
C6ER32X060	●	0.079	0.787	2.48	ER32	1.969	2.362	1.417	-
C6ER32X100	●	0.079	0.787	2.48	ER32	1.969	3.937	3.071	M22X1.5
C6ER32X130	●	0.079	0.787	2.48	ER32	1.969	5.118	4.252	M22X1.5
C6ER32X160	●	0.079	0.787	2.48	ER32	1.969	6.299	5.433	M22X1.5
C6ER40X065	●	0.118	1.024	2.48	ER40	2.48	2.559	1.457	-
C6ER40X100	●	0.118	1.024	2.48	ER40	2.48	3.937	3.071	M28X1.5
C6ER40X130	●	0.118	1.024	2.48	ER40	2.48	5.118	4.252	M28X1.5

Wrench is not included

ER Collet P. 25
Wrench P. 26

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

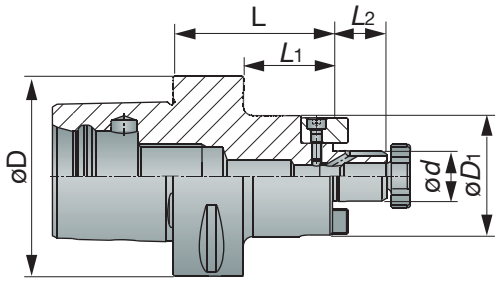


Cat. No.	Stock	Range		Dimensions (in)					
		Min.	Max.	øD	CSI	øD1	L	L1	J
C4ER16X70M	○	0.02	0.394	1.575	ER16	0.866	2.756	1.969	M10
C5ER16X100M	○	0.02	0.394	1.969	ER16	0.866	3.937	3.15	M10
C5ER16X130M	○	0.02	0.394	1.969	ER16	0.866	5.118	4.724	M10
C6ER16X100M	●	0.02	0.394	2.48	ER16	0.866	3.937	3.071	M10
C6ER16X130M	●	0.02	0.394	2.48	ER16	0.866	5.118	4.252	M10
C6ER16X160M	●	0.02	0.394	2.48	ER16	0.866	6.299	5.433	M10

Wrench is not included

ER Collet P. 25
Wrench
Preset Screw P. 26

C-SEM Shell mill holders with coolant hole



Cat. No.	Stock	Dimensions (in)					
		øD	ød	øD1	L	L2	L1
C6SEM3/4X1.377C	●	2.48	0.75	1.772	1.377	0.669	0.512
C6SEM3/4X3.937C	●	2.48	0.75	1.772	3.937	0.669	3.071
C6SEM1X1.457C	●	2.48	1	2.165	1.457	0.669	0.59

Cat. No.	Stock	Dimensions (in)					
		øD	ød	øD1	L	L2	L1
C6SEM1X3.937C	●	2.48	1	2.165	3.937	0.669	3.071
C6SEM11/4X2.362C	●	2.48	1.25	2.519	2.362	0.669	1.496
C6SEM11/2X2.362C	●	2.48	1.5	3.07	2.362	0.937	1.496

Wrench is not included

Cat. No.	Stock	Dimensions (mm)					
		øD	ød	øD1	L	L2	L1
C4SEM16X32C	○	40	16	38	32	12	17
C4SEM16X55C	○	40	16	38	55	35	17
C4SEM22X40C	○	40	22	47	40	20	19
C4SEM22X55C	○	40	22	47	55	35	19
C5SEM16X35C	○	50	16	38	35	17	15
C5SEM16X70C	○	50	16	38	70	17	50
C5SEM22X35C	○	50	22	47	35	19	15
C5SEM22X70C	○	50	22	47	70	19	50
C5SEM27X40C	○	50	27	58	40	21	20
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
C6SEM27X60C	○	63	27	58	60	21	38

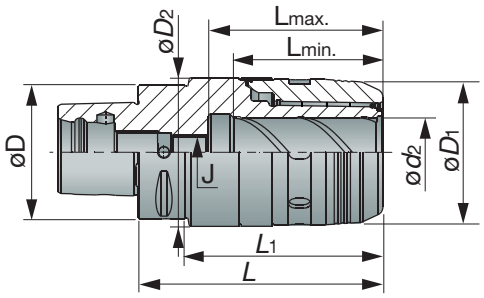
Cat. No.	Stock	Dimensions (mm)					
		øD	ød	øD1	L	L2	L1
C6SEM27X100C	○	63	27	58	100	21	78
C6SEM32X60C	○	63	32	66	60	24	38
C6SEM40X60C	○	63	40	82	60	27	38
C8SEM16X50C	○	80	16	38	50	20	17
C8SEM16X100C	○	80	16	38	100	70	17
C8SEM22X50C	○	80	22	47	50	20	19
C8SEM22X100C	○	80	22	47	100	70	19
C8SEM27X50C	○	80	27	58	50	20	21
C8SEM27X100C	○	80	27	58	100	70	21
C8SEM32X50C	○	80	32	66	50	20	24
C8SEM32X100C	○	80	32	66	100	70	24
C8SEM40X60C	○	80	40	82	60	30	27

Wrench P. 26

Wrench is not included

● : Stocked items
○ : Stocked in Japan

C-MAXIN Power chuck holders



Cat. No.	Stock	Dimensions (in)										
		øD	Range		ød2	øD1	øD2	L	L1	L		J
			Min.	Max.						Min.	Max.	
C6MAXIN3/4X3.74	●	2.48	0.25	0.75	0.75	2	2.087	3.78	2.913	2.15	2.64	M16
C6MAXIN11/4X4.448	●	2.48	0.25	1.25	1.25	2.717	2.756	4.528	3.622	2.76	3.23	M16

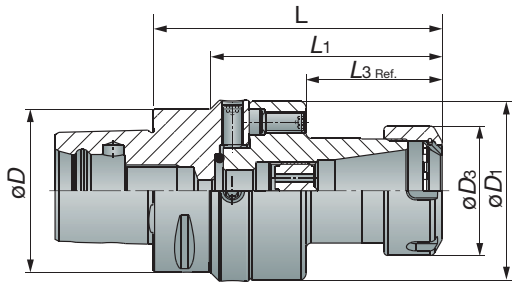
Wrench is not included

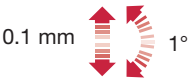
Cat. No.	Stock	Dimensions (mm)										
		øD	Range		ød2	øD1	øD2	L	L1	L		J
			Min.	Max.						Min.	Max.	
C5MAXIN20X100	●	50	6	20	20	51	53	100	75	55	67	M16
C6MAXIN20X95	●	63	6	20	20	51	53	95	73	55	67	M16
C6MAXIN32X115	●	63	6	32	32	69	70	115	93	70	82	M16
C8MAXIN20X95	○	80	6	20	20	51	53	95	65	55	67	M16
C8MAXIN32X115	○	80	6	32	32	69	70	115	85	70	82	M16

Wrench is not included

Wrench
Preset Screw P. 26

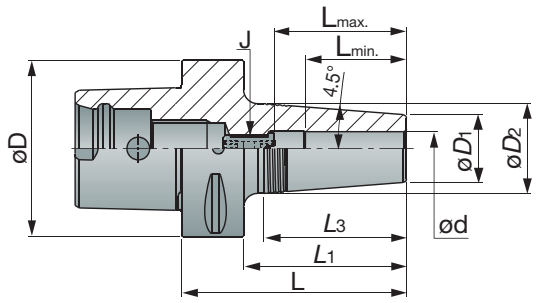
ADJ C-ER Center alignment collet chuck holders





Cat. No.	Stock	Dimensions (in)								
		øD	CSI	Range		øD1	øD3	L	L1	L3
				Min.	Max.					
ADJC5ER32	●	1.969	ER32	0.079	0.787	2.756	1.969	4.528	3.74	2.067
ADJC6ER32	●	2.48	ER32	0.079	0.787	2.756	1.969	4.39	3.524	2.067

C-SRKIN Thermal shrinking holders

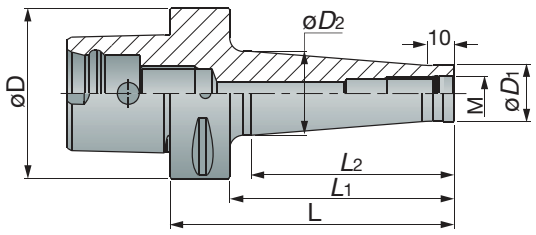


Cat. No.	Stock	Dimensions (in)									
		øD	ød	øD1	øD2	L	L1	L3	L		J
									Min.	Max.	
C6SRKIN1/4X3.150	●	2.48	0.25	0.827	1.063	3.15	2.363	1.5	0.98	1.42	M5
C6SRKIN5/16X3.150	●	2.48	0.312	0.827	1.063	3.15	2.363	1.5	0.98	1.42	M6
C6SRKIN3/8X3.150	●	2.48	0.375	0.945	1.26	3.15	2.363	2	1.22	1.65	M8
C6SRKIN1/2X3.150	●	2.48	0.5	0.945	1.26	3.15	2.363	2	1.42	1.85	M10
C6SRKIN5/8X3.35	●	2.48	0.625	1.063	1.339	3.35	2.563	1.75	1.54	1.97	M12
C6SRKIN3/4X3.35	●	2.48	0.75	1.299	1.654	3.35	2.563	2.25	1.61	2.05	M16
C6SRKIN1X3.55	●	2.48	1	1.732	2.087	3.55	2.763	2.25	1.85	2.28	M16
C6SRKIN11/4X3.75	●	2.48	1.25	1.732	2.087	3.75	2.963	2.25	1.85	2.28	M16

Cat. No.	Stock	Dimensions (mm)									
		øD	ød	øD1	øD2	L	L1	L3	L		J
									Min.	Max.	
C4SRKIN6X75	○	40	6	21	27	75	55	38.1	25	36	M5
C4SRKIN8X75	○	40	8	21	27	75	55	38.1	25	36	M6
C4SRKIN10X75	○	40	10	24	32	75	55	50.8	31	42	M8
C4SRKIN12X75	○	40	12	24	32	75	55	50.8	36	47	M10
C4SRKIN14X80	○	40	14	27	34	80	60	44.5	36	47	M10
C4SRKIN16X80	○	40	16	27	34	80	60	44.5	39	50	M12
C4SRKIN18X80	○	40	18	33	42	80	60	57.2	39	50	M12
C4SRKIN20X85	○	40	20	33	42	85	65	57.2	41	52	M16
C5SRKIN6X75	○	50	6	21	27	75	55	38.1	25	36	M5
C5SRKIN8X75	○	50	8	21	27	75	55	38.1	25	36	M6
C5SRKIN10X75	○	50	10	24	32	75	55	51.3	31	42	M8
C5SRKIN12X75	○	50	12	24	32	75	55	51.3	36	47	M10
C5SRKIN14X80	○	50	14	27	34	80	60	44.5	36	47	M10
C5SRKIN16X80	○	50	16	27	34	80	60	44.5	39	50	M12
C5SRKIN18X80	○	50	18	33	42	80	60	57.2	39	50	M12
C5SRKIN20X85	○	50	20	33	42	85	65	57.2	41	52	M16
C5SRKIN25X90	○	50	25	44	53	90	70	57.2	47	58	M16
C6SRKIN6X80	○	63	6	21	27	80	58	38.1	25	36	M5
C6SRKIN8X80	○	63	8	21	27	80	58	38.1	25	36	M6
C6SRKIN10X80	○	63	10	24	32	80	58	50.8	31	42	M8
C6SRKIN12X80	○	63	12	24	32	80	58	50.8	36	47	M10
C6SRKIN14X85	○	63	14	27	34	85	63	44.5	36	47	M10
C6SRKIN16X85	○	63	16	27	34	85	63	44.5	39	50	M12
C6SRKIN18X85	○	63	18	33	42	85	63	57.2	39	50	M12
C6SRKIN20X85	○	63	20	33	42	85	63	57.2	41	52	M16
C6SRKIN25X90	○	63	25	44	53	90	68	57.2	47	58	M16
C6SRKIN32X95	○	63	32	44	53	95	73	57.2	47	58	M16

● : Stocked items
○ : Stocked in Japan

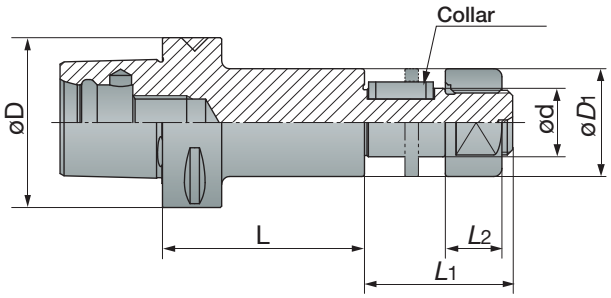
C-ODP Indexable modular adapters with threaded connection



Cat. No.	Stock	Dimensions (in)						
		M	øD	øD1	øD2	L	L1	L2
C4ODP10X53	○	M10	1.575	0.709	0.906	2.087	1.299	0.906
C4ODP12X53	○	M12	1.575	0.827	1.024	2.087	1.299	0.906
C4ODP16X53	○	M16	1.575	1.142	1.339	2.087	1.299	0.906
C5ODP10X53	○	M10	1.969	0.709	0.768	2.087	1.299	0.984
C5ODP10X103	○	M10	1.969	0.709	1.102	4.055	3.268	2.953
C5ODP12X53	○	M12	1.969	0.827	0.925	2.087	1.299	0.984
C5ODP12X103	○	M12	1.969	0.827	1.22	4.055	3.268	2.953
C5ODP16X53	○	M16	1.969	1.142	1.339	2.087	1.299	0.984
C5ODP16X103	○	M16	1.969	1.142	1.417	4.055	3.268	2.953

Cat. No.	Stock	Dimensions (in)						
		M	øD	øD1	øD2	L	L1	L2
C6ODP10X55	○	M10	2.48	0.709	0.768	2.165	1.299	0.984
C6ODP10X105	○	M10	2.48	0.709	1.102	4.134	3.268	2.953
C6ODP10X130	○	M10	2.48	0.709	1.26	5.118	4.252	3.937
C6ODP12X55	○	M12	2.48	0.827	0.925	2.165	1.299	0.984
C6ODP12X105	○	M12	2.48	0.827	1.22	4.134	3.268	2.953
C6ODP12X130	○	M12	2.48	0.827	1.417	5.118	4.252	3.937
C6ODP16X55	○	M16	2.48	1.142	1.339	2.165	1.299	0.984
C6ODP16X105	○	M16	2.48	1.142	1.339	4.134	3.268	2.953
C6ODP16X130	○	M16	2.48	1.142	1.614	5.118	4.252	3.937

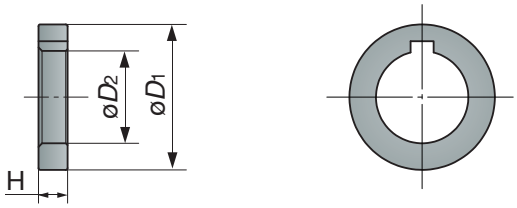
C-SCA Slot milling holders



New

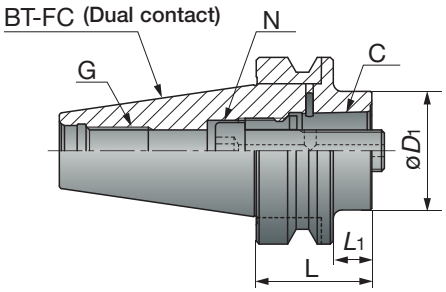
Cat. No.	Stock	Dimensions (mm)					
		øD	ød	L	øD1	L1	L2
C6SCA25.4-075	●	63	25.4	75	40	55	21
C6SCA31.75-075	●	63	31.75	75	46	60	26
C8SCA25.4-090	○	80	25.4	90	40	55	21
C8SCA31.75-090	○	80	31.75	90	46	60	26

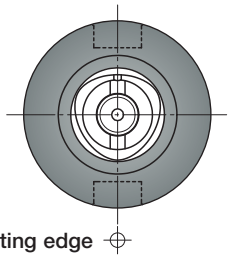
SCA Collar for slot milling holder (Option)



Cat. No.	Stock	Dimensions (mm)		
		øD1	øD2	H
SCA25.4-02	●	40	25.4	3, 5, 7, 8, 10, 12, 14
SCA31.75-02	●	46	31.75	3, 5, 7, 8, 10, 12, 14

BT-FC Adapters BT shank with dual contact





New

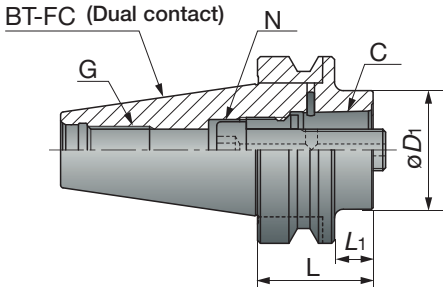
Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	øD1	L	L1	G	
BT40FC-C4-040	○	C4	40	40	13	M16	55
BT40FC-C5-050	●	C5	50	50	23	M16	95
BT40FC-C6-075	●	C6	63	75	48	M16	170
BT50FC-C4-040	○	C4	40	40	2	M24	55
BT50FC-C4-070	○	C4	40	70	32	M24	55
BT50FC-C5-040	○	C5	50	40	2	M24	95

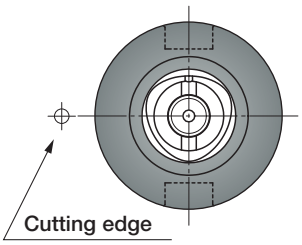
Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	øD1	L	L1	G	
BT50FC-C5-080	○	C5	50	80	42	M24	95
BT50FC-C6-050	○	C6	63	50	12	M24	170
BT50FC-C6-100	○	C6	63	100	62	M24	170
BT50FC-C8-070	○	C8	80	70	32	M24	170
BT50FC-C8-120	○	C8	80	120	82	M24	170

* Recommend clamping torque

● : Stocked items
○ : Stocked in Japan

BT-FC-T Adapters BT shank with dual contact (For turning on multi task machine)



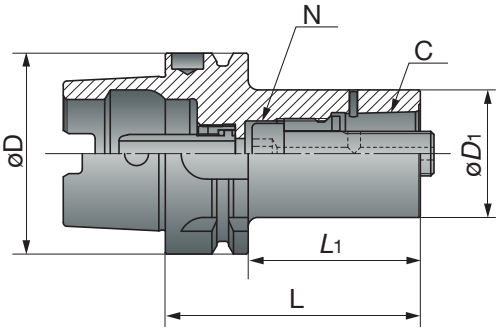


New

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

* Recommend clamping torque

HSK-A-C/-T Adapters HSK shank



New

for HSK-T shank

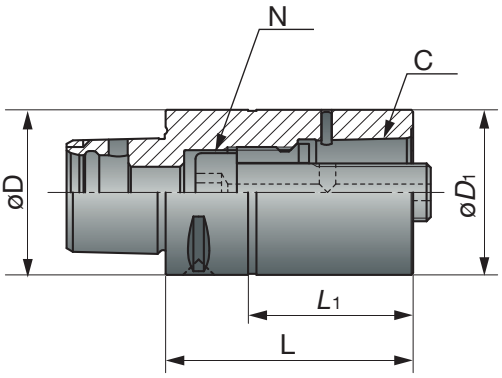
Cat. No.	Stock	Dimensions (mm)					N* (N·m)
		C	øD	øD1	L	L1	
HSK63A-C4-080T	○	C4	63	40	80	54	55
HSK63A-C5-090T	●	C5	63	50	90	64	95
HSK63A-C6-110T	●	C6	63	63	110	74	170

for HSK-A shank

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

* Recommend clamping torque

C-EX Extension adapters

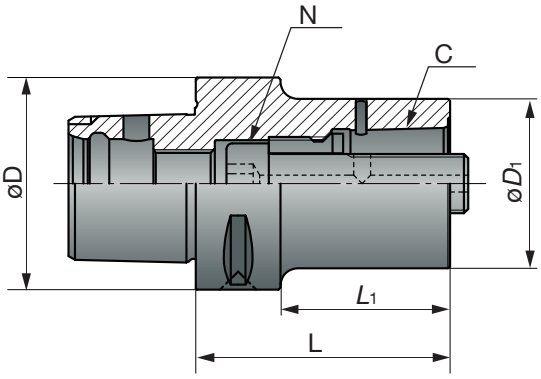


New

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

* Recommend clamping torque

C-RE Reduction adapters



New

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

* Recommend clamping torque

● : Stocked items
○ : Stocked in Japan

ER Collet

ER11 SPR 0.5-1 AA

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

② Collet type	
SPR	Standard type
SEAL	Sealed type

③ Range (mm)	
0.5-1	0.5-1
1-2	1-2
⋮	⋮

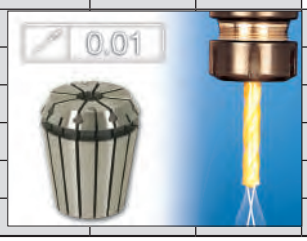
④ Additional feature	
AA	Ultra precision
JET2	External coolant

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□-□

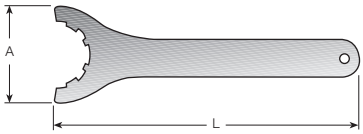
Range (mm)	Seal for internal oil hole				
	ER16	ER20	ER25	ER32	ER40
0.5-1					
1-2					
2-3					
3-4	●	●	●	●	●
4-5	●	●	●	●	●
5-6	●	●	●	●	●
6-7	●	●	●	●	●
7-8	●	●	●	●	●
8-9	●	●	●	●	●
9-10	●	●	●	●	●
10-11		●	●	●	●
11-12		●	●	●	●
12-13		●	●	●	●
13-14			●	●	●
14-15			●	●	●
15-16			●	●	●
16-17				●	●
17-18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



: Not available
● : Stocked items
○ : Stocked in Japan

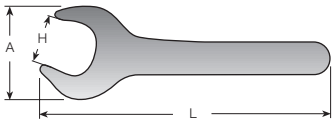
Wrench for ER Collet Chuck

WRENCH-ER / ER DIN 6499



Wrench ER 25, 32, 40, 50

Wrench ER 11, 16, 20, 25 Mini



Wrench ER 11,16, 20, TungShort

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
WRENCHER20SHORTRING22	●	48	22	260
WRENCHER32SHORT	●	75	36	303
WRENCHER40SHORT	●	94	46	378

Preset screws for ER Collet Chuck

PRESET ER-JET

Fig. 1

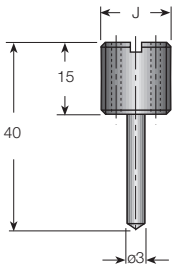
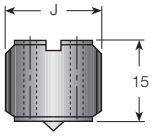


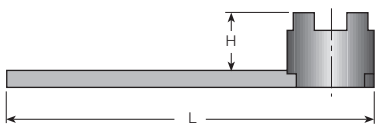
Fig. 2



Cat. No.	Stock	J	Fig.
PRESETER-JET8X1	○	M8X1.0	2
PRESETER-JET8X1.25	○	M8X1.25	2
PRESETER-JET10X1.5	○	M10X1.5	2
PRESETER-JET12X1	○	M12X1.0	2
PRESETER-JET12X1.75L	○	M12X1.75	1
PRESETER-JET12X1.75	○	M12X1.75	2
PRESETER-JET14X1	○	M14X1.0	2
PRESETER-JET16X2	○	M16X2	2
PRESETER-JET16X2L	○	M16X2	1
PRESETER-JET18X1	○	M18X1.0	2
PRESETER-JET18X1.5	○	M18X1.5	2
PRESETER-JET18X1.5L	○	M18X1.5	1
PRESETER-JET22X1.5	○	M22X1.5	2
PRESETER-JET22X1.5L	○	M22X1.5	1
PRESETER-JET28X1.5	○	M28X1.5	2

Wrench for Shell Mill Holder

WRENCH SEMC / DIN 6368 (Option)

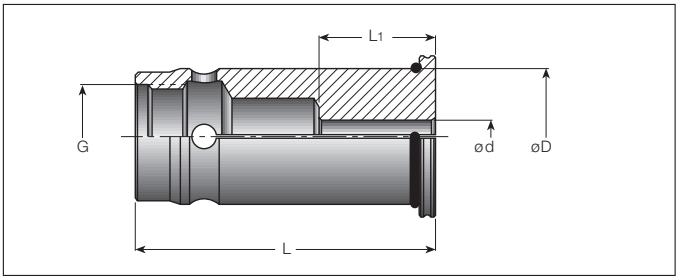


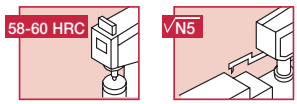
Cat. No.	Stock	Dimensions (mm)			
		Inner diameter of cutter body ø	Screw size	H	L
WRENCHM8SEMC16	○	16	M8	20	180
WRENCHM10SEMC22	○	22	M10	25	200
WRENCHM12SEMC27	○	27	M12	32	225
WRENCHM16SEMC32	○	32	M16	36	250
WRENCHM20SEMC40	○	40	M20	40	280
WRENCHM24SEMC50	○	50	M24	50	315

● : Stocked items
○ : Stocked in Japan

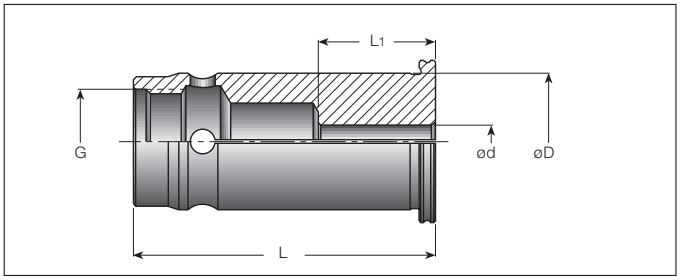
TUNGMAX Collet for Power Chuck

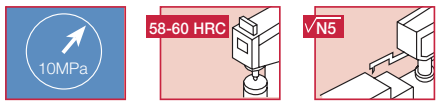
A SC-SEAL





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

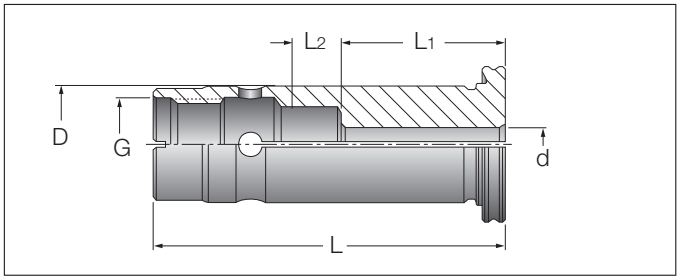
B SC-SPR SC Straight Collet - Metric

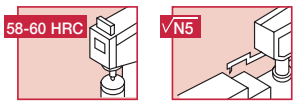
Cat. No.	Stock	Dimensions (mm)				
		ød	øD	L	L_1	G
SC20SPR6	○	6	20	60	28	M16
SC20SPR8	○	8	20	60	28	M16
SC20SPR10	○	10	20	60	35	M16
SC20SPR12	○	12	20	60	40	M16
SC20SPR14	○	14	20	60	40	M16
SC20SPR15	○	15	20	60	40	M16
SC20SPR16	○	16	20	60	39	M16
SC32SPR6	○	6	32	72	28	M24x1.5
SC32SPR8	○	8	32	72	28	M24x1.5
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
○ : Stocked in Japan

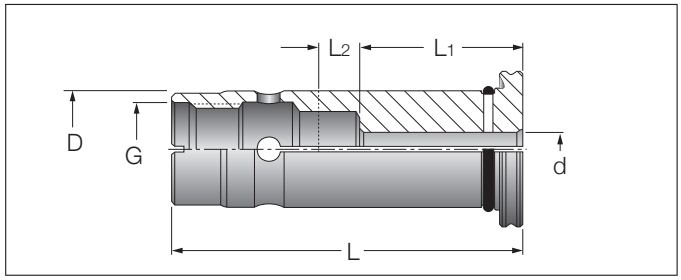
TUNGMAX Collet for Power Chuck

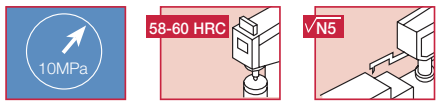
A SC-SPR





B SC-SEAL





A SC-SPR SC Straight Collet - Inch

Cat. No.	Stock	Dimensions (in)					
		ød	øD	L	L_1	L_2	G
SC3/4SPR1/4	●	0.25	0.75	2.362	1.102	0.276	M16
SC3/4SPR5/16	●	0.313	0.75	2.362	1.102	0.276	M16
SC3/4SPR3/8	●	0.375	0.75	2.362	1.378	0.512	M16
SC3/4SPR7/16	●	0.438	0.75	2.362	1.102	0.315	M16
SC3/4SPR1/2	●	0.5	0.75	2.362	1.102	0.276	M16
SC3/4SPR5/8	●	0.625	0.75	2.362	1.543	0.354	M16
SC1-1/4SPR1/4	●	0.25	1.25	2.835	1.102	0.689	M24x1.5
SC1-1/4SPR5/16	●	0.313	1.25	2.835	1.102	0.689	M24x1.5
SC1-1/4SPR3/8	●	0.375	1.25	2.835	1.378	0.413	M24x1.5
SC1-1/4SPR1/2	●	0.5	1.25	2.835	1.575	0.217	M24x1.5
SC1-1/4SPR5/8	●	0.625	1.25	2.835	1.732	0.709	M24x1.5
SC1-1/4SPR3/4	●	0.75	1.25	2.835	1.811	0.63	M24x1.5
SC1-1/4SPR7/8	●	0.875	1.25	2.835	1.969	0.453	M24X1.5
SC1-1/4SPR1	●	1	1.25	2.835	2.008	0.409	M24x1.5

B SC-SEAL SC Sealed Straight Collet - Inch

Cat. No.	Stock	Dimensions (in)					
		ød	øD	L	L_1	L_2	G
SC3/4SEAL1/4	●	0.25	0.75	2.362	1.102	0.276	M16
SC3/4SEAL5/16	●	0.313	0.75	2.362	1.102	0.276	M16
SC3/4SEAL3/8	●	0.375	0.75	2.362	1.378	0.512	M16
SC3/4SEAL7/16	●	0.438	0.75	2.362	1.575	0.315	M16
SC3/4SEAL1/2	●	0.5	0.75	2.362	1.575	0.315	M16
SC3/4SEAL5/8	●	0.625	0.75	2.362	1.543	0.354	M16
SC1-1/4SEAL1/4	●	0.25	1.25	2.835	1.102	0.689	M24x1.5
SC1-1/4SEAL5/16	●	0.313	1.25	2.835	1.102	0.689	M24x1.5
SC1-1/4SEAL3/8	●	0.375	1.25	2.835	1.378	0.413	M24x1.5
SC1-1/4SEAL1/2	●	0.5	1.25	2.835	1.575	0.217	M24x1.5
SC1-1/4SEAL5/8	●	0.625	1.25	2.835	1.732	0.709	M24x1.5
SC1-1/4SEAL3/4	●	0.75	1.25	2.835	1.811	0.63	M24x1.5
SC1-1/4SEAL7/8	●	0.875	1.25	2.835	1.969	0.453	M24x1.5
SC1-1/4SEAL1	●	1	1.25	2.835	2.008	0.453	M24x1.5

● : Stocked items
○ : Stocked in Japan

TUNGMAX Preset screw for Power Chuck

SC-SPR

Fig. 1

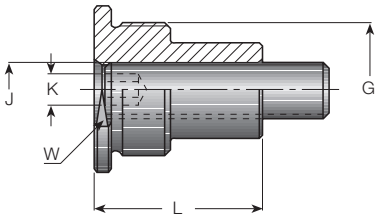
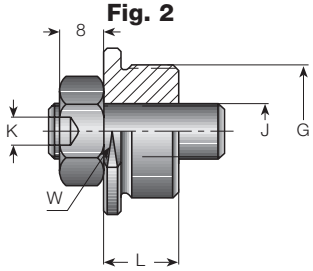


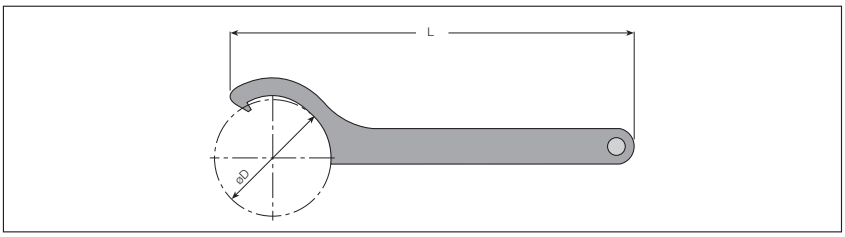
Fig. 2

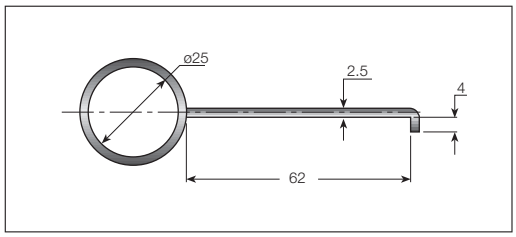


PRESET SC CAP Preset screw for SC Collets (Power Chuck)

Cat. No.	Stock	Dimensions (mm)				Fig.	Collet Range	Wrench K	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





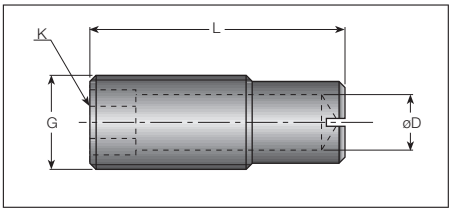
Wrench for TungMax Collets

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

SC Collet extracting hook for TungMax

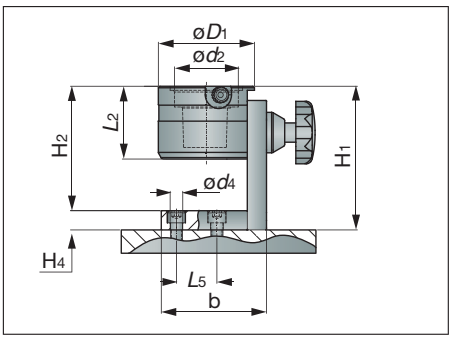
Cat. No.	Stock
EXTRACTORSCCOLLETS	●

TUNGMAX Preset screws



Cat. No.	Stock	Dimensions (mm)			
		G	L	øD	K
PRESETMAXIN16X30	○	M16	30	8	8
PRESETMAXIN16X44	○	M16	44	8	8
PRESETMAXIN20X55	○	M20	55	12	12

Clamp fixture



Cat. No.	Stock	Dimensions (mm)								
		$ød_2$	$øD_1$	L_2	H_1	H_2	H_4	b	L_5	$ød_4$
MULTICLAMPC4	○	40.4	78	67	137.05	118.05	19	104	40	12.5
MULTICLAMPC5	●	50	85	72	142	123	19	104	40	12.5
MULTICLAMPC6	●	63	95	72	142	123	19	104	40	12.5
MULTICLAMPC8	●	80	130	90	178	159	19	144	85	12.5
TOOLCLAMP40ROTARY	●	-	82	56	128	109	19	104	40	12.5
MULTICLAMPC63A/C	●	63	95	72	142	123	19	104	40	12.5

● : Stocked items
○ : Stocked in Japan

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