



Polygon Tapered Dual Contact System

BIG COROMANT CAPTO

C5/C6/C8_{Type}

BIG DAISHOWA SEIKI CO LTD

CATALOG No.

EXi 183-2



A modular turning and
rotating tool holder system
that strengthens the
performance of

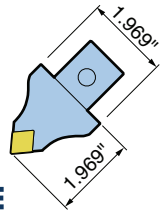
MTCs[®]

(Machining & Turning Centers)



BIG Coromant Capto is a licensed product from Sandvik Coromant Sweden.
US Patent No.4,934,883 Products described herein are fully compatible.

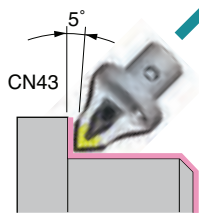
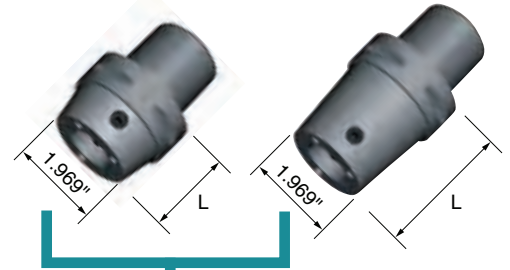
45°



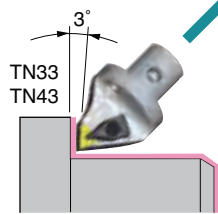
TYPE S CARTRIDGE

**S50
TYPE S BASIC HOLDER**

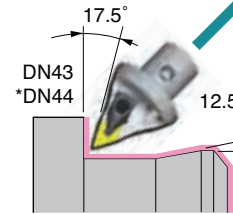
- | | |
|------------|------|
| L | |
| C5-S50-40 | -55 |
| | -75 |
| | -100 |
| C6-S50-45 | -75 |
| | -100 |
| C8-S50-100 | -135 |



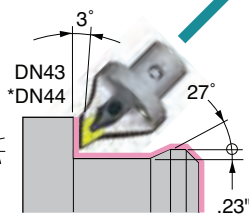
S50-DCLNN-00050-12



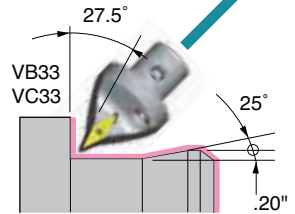
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-DTJNL-00050-16
S50-DTJNR-00050-22
-DTJNL-00050-22



S50-DDHNN-00050-15



S50-DDJNR-00050-15
-DDJNL-00050-15



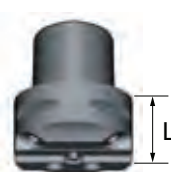
S50-SVQBN-00050-16

*In case of DN44 insert, please replace the standard carbide shim with DNS1506 (option).

90°

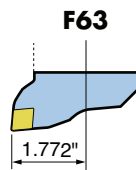
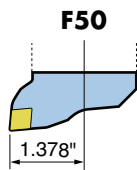
**F50
TYPE F BASIC HOLDER**

- | | |
|-----------|------|
| L | |
| C5-F50-25 | -50 |
| | -85 |
| | -125 |

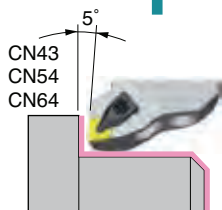


**F63
TYPE F BASIC HOLDER**

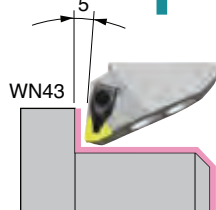
- | | |
|-----------|------|
| L | |
| C6-F63-30 | -75 |
| | -100 |
| | -130 |
| | -170 |
| C8-F63-45 | -100 |
| | -130 |
| | -170 |



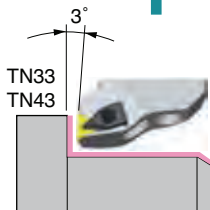
TYPE F CARTRIDGE



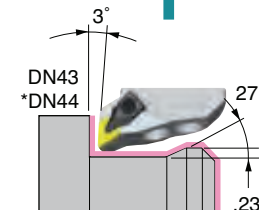
F50-DCLNR-35035-12(16)
-DCLNL-35035-12(16)
F63-DCLNR-45035-12(16)
-DCLNL-45035-12(16)
F63-PCLNR-45045-19
-PCLNL-45045-19



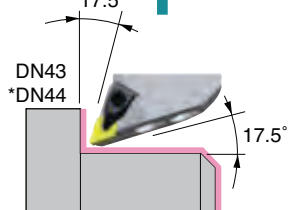
F63-DWLN-45045-08
-DWLNL-45045-08



F50-DTJNR-35035-16
-DTJNL-35035-16
F63-DTJNR-45035-16(22)
-DTJNL-45035-16(22)



F50-DDJNR-35035-15
-DDJNL-35035-15
F50-DDJNR-35050-15
-DDJNL-35050-15
F63-DDJNR-45035-15
-DDJNL-45035-15



F63-DDHNR-45040-15
-DDHNL-45040-15

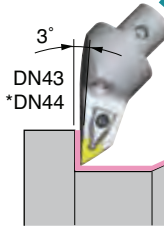
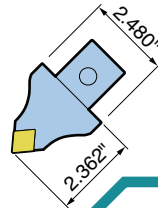
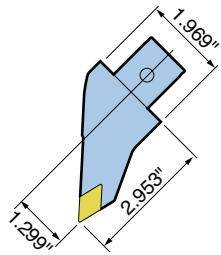
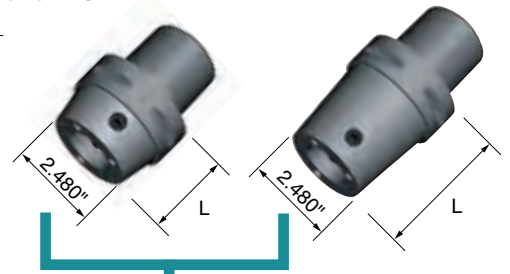
*In case of DN44 insert, please replace the standard carbide shim with DNS1506 (option).

SYSTEM C5/C6/C8 Type

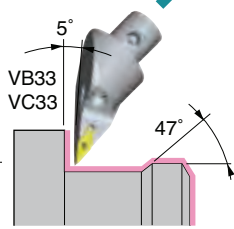
S63

TYPE S BASIC HOLDER

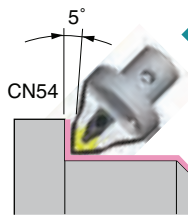
C6-S63-50
-90
C8-S63-90
-125



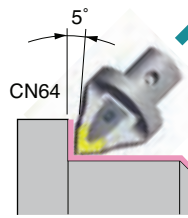
S50-DDJNR-33075-15
-DDJNL-33075-15



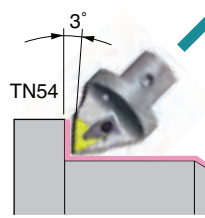
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-SVLBL-33075-16



S63-DCLNN-00060-16

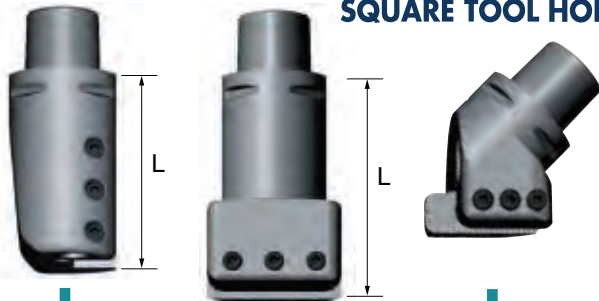


S63-DCLNN-00060-19



S63-DTJNR-00060-27
S63-DTJNL-00060-27

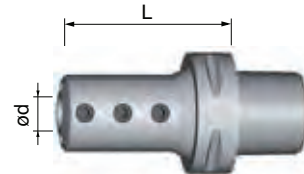
SQUARE TOOL HOLDER



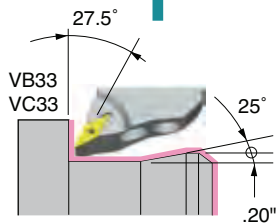
For Shank



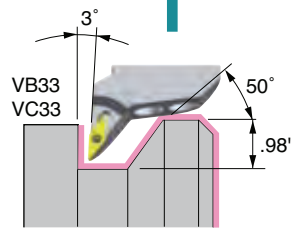
Boring Bar



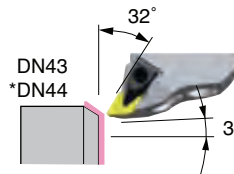
BORING BAR HOLDER



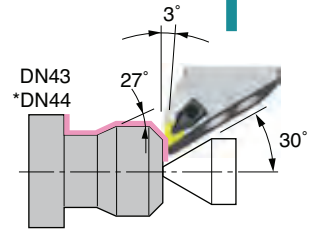
F50-SVQBR-35035-16
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F63-SVQBR-45035-16
-SVQBL-45035-16



F63-SVJBR-45055-16
-SVJBL-45055-16



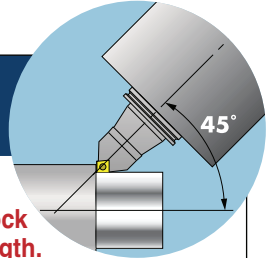
F63-DDUNR-45035-15
-DDUNL-45035-15



F63-DDJNR-45055-15
-DDJNL-45055-15

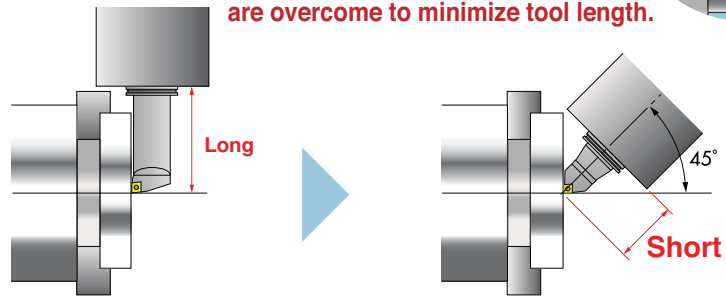
Revolutionary! The very first modular tooling system for turning applications

45° Tilt Style Type S



Coolant through

With "B" axis at 45°, accessibility problems with the chuck or tailstock are overcome to minimize tool length.

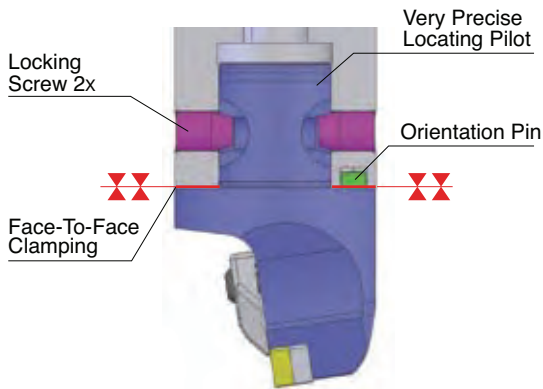


Tilting the "B" axis 45° helps to minimize the cutting forces transmitted to the machine spindle. This force reduction increases the life of the machine spindle.

17 kinds of Cartridge Type S for a variety of applications



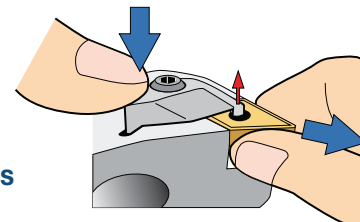
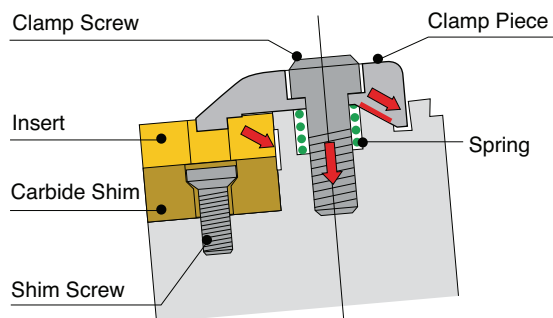
Secure and rigid!! Type S Cartridge Clamping System



Using highly sophisticated and modern machine tools, Type S Cartridges are made to very close tolerances required for turning accuracy and repeatability. The cartridge is located in the basic holder by means of a precision ground pilot and secured by 2 opposing radial screws with a 15° taper. With a slight offset to locating sockets, high face-to-face clamping force of the two components is generated. To maintain precise locations and orientation, an additional locating pin is included for positive transfer of cutting torque.

Double-clamping system of 'push and draw' assures the safe clamping of inserts.

The double-clamping system simultaneously pushes an insert downward and draws it into the contact faces to achieve secure and rigid clamping.

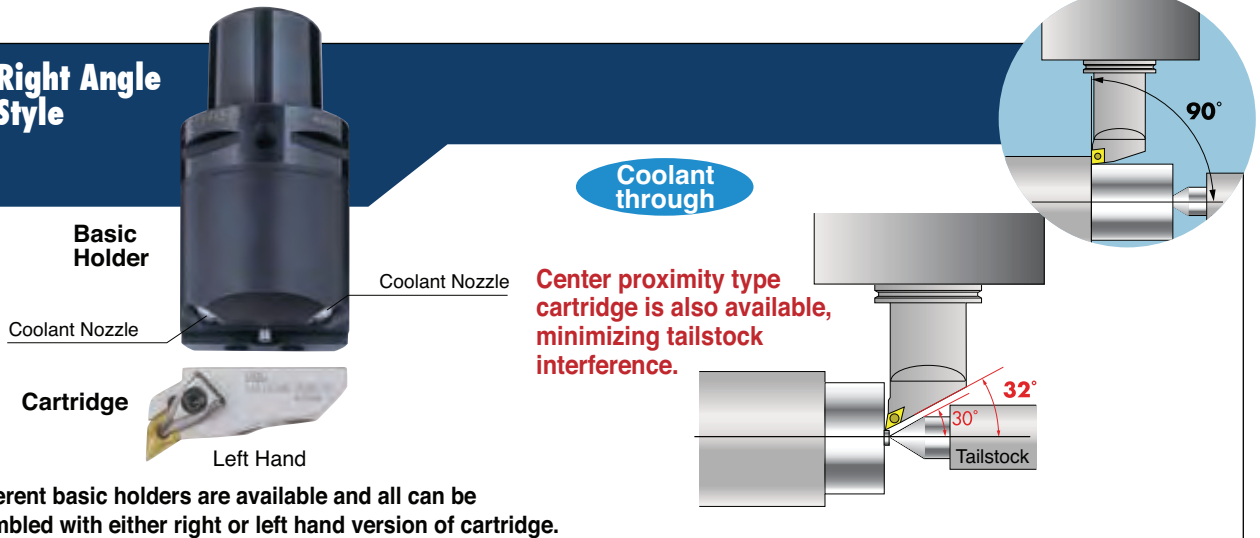


Changing inserts is easy.

Loosen clamp screw by one turn and push the spring-loaded clamp. This will automatically lift the opposite edge of the clamp for fast and easy insert replacement.

The BIG Coromant Capto modular tooling system offers better efficiency, material selection and heat treatment. For example, the serious damage on tool holders caused by broken inserts can now be easily and economically replaced.

90° Right Angle Style Type F



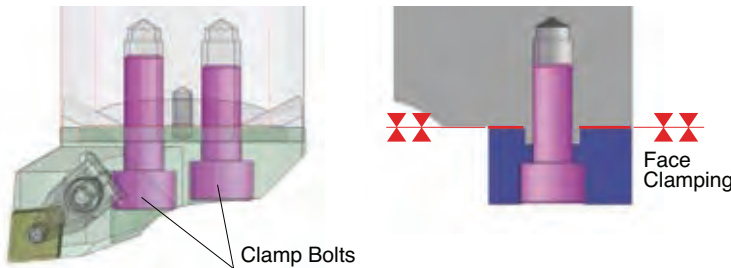
2 different basic holders are available and all can be assembled with either right or left hand version of cartridge.

36 kinds of Cartridge Type F for a variety of applications



Right and left hand cartridges are available

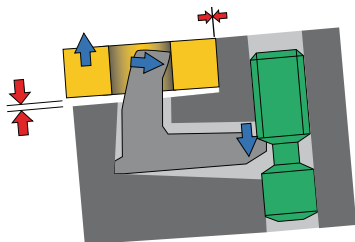
Simple and Positive Type F Cartridge Clamping System



Type F uses 2 clamping bolts that presses the cartridge onto the basic holder. The torque is transmitted by an interlocking drive slot.

What happens to conventional lever lock systems?

Inserts are not perfect in flatness or angle. Therefore, clamping an insert by lever lock systems tend to lift the inserts up from the seat, allowing easy insert fracture with interrupted cutting conditions.

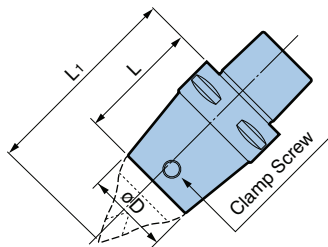


A complete lineup of rotary tool holders is also available.

Many high performance rotary tool holders such as the high precision Mega Chuck series are available.



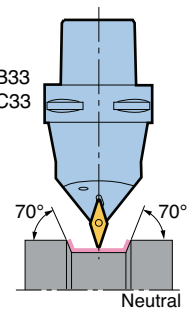
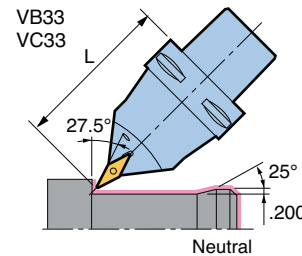
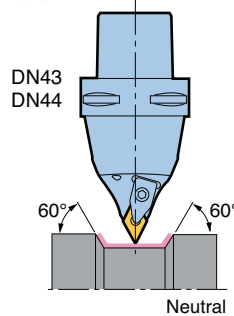
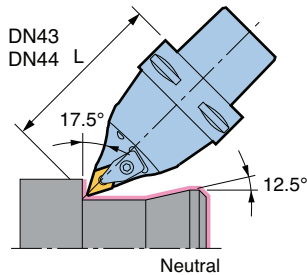
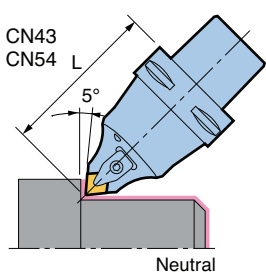
45° Basic Holder Type S



Capto	Type	Model	øD	L	L1	Clamp Screw
C5	S50	C5-S50-40	1.969	1.575	3.543	10.690.435
		-55		2.165	4.134	
		-75		2.953	4.921	
		-100		3.937	5.906	
C6	S50	C6-S50-45	1.969	1.772	3.740	10.690.435
		-75		2.953	4.921	
		-100		3.937	5.906	
	S63	-S63-50	2.480	1.969	4.331	10.690.436
		-90		3.543	5.906	
C8	S50	C8-S50-100	1.969	3.937	5.906	10.690.435
		-135		5.315	7.283	
	S63	-S63-90	2.480	3.543	5.906	10.690.436
		-125		4.921	7.283	

For SPARE PARTS PG. 7

Integral Models 45° Tilt Style Type S



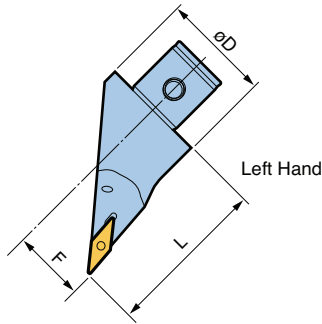
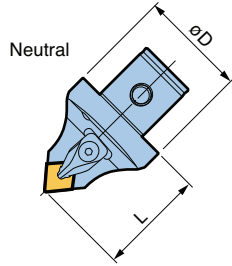
Capto	Hand	Model	Insert	L	Basic Holder Model	Cartridge Model	Clamp Piece
C5	N	C5-DCLNN-00105-12	CN43 Rombic 80°	4.134	Integral		CP2
		C5-DCLNN-00105-16	CN54 Rombic 80°				CP3
		C5-DDHNN-00090-15	DN43/DN44 * Rombic 55°				CP2
		C5-SVQBN-00105-16	VB33/VC33 Rombic 35°				M3.5 **
C6	N	C6-DCLNN-00115-12	CN43 Rombic 80°	4.528	Integral		CP2
		C6-DCLNN-00115-16	CN54 Rombic 80°				CP3
		C6-DDHNN-00115-15	DN43/DN44 * Rombic 55°				CP2
		C6-SVQBN-00115-16	VB33/VC33 Rombic 35°				M3.5 **
C8	N	C8-DCLNN-00150-12	CN43 Rombic 80°	5.906	Integral		CP2
		C8-DCLNN-00150-16	CN54 Rombic 80°				CP3

1. Wrenches are not included. Please order separately.
2. Inserts are not included. Accepts standard ISO inserts.
3. * DN43 (3/16" thickness) carbide shim is included as standard.
In case of DN44 insert (1/4" thickness), please replace the standard carbide shim with DNS1506 (option).
4. ** M3.5 is screw-on type.

For SPARE PARTS PG. 7

Neutral

45° Cartridge Type S



Lead Angle	Type	Hand	Model	Insert	L	F	øD	Clamp Piece
5°	S50	N	S50-DCLNN-00050-12	CN43 Rhombic 80°	1.969	0	1.969	CP2
	S63		S63-DCLNN-00060-16	CN54 Rhombic 80°	2.362		2.480	CP3
			S63-DCLNN-00060-19	CN64 Rhombic 80°			2.480	CP5
3°	S50	R	S50-DTJNR-00050-16	TN33 Triangle 60°	1.969	0	1.969	CP1
		L	-DTJNL-00050-16					
		R	-DTJNR-00050-22	TN43 Triangle 60°				CP2
		L	-DTJNL-00050-22					
	S63	R	S63-DTJNR-00060-27	TN54 Triangle 60°	2.362		2.480	CP3
		L	-DTJNL-00060-27					
3°	S50	R	S50-DDJNR-00050-15	* DN43 DN44 Rhombic 55°	1.969	0	1.969	CP2
		L	-DDJNL-00050-15		2.953			
		R	-DDJNR-33075-15					
		L	-DDJNL-33075-15					
17.5°	S50	N	S50-DDHNN-00050-15		1.969	0		
5°	S50	R	S50-SVLBR-33075-16	VB33 VC33 Rhombic 35°	2.953	1.299	1.969	** M3.5
		L	-SVLBL-33075-16					
27.5°	S50	N	S50-SVQBN-00050-16		1.969	0		

1. Wrenches are not included with the cartridges. Please order separately.
2. Inserts are not included. Accepts ISO standard inserts.
3. * DN43 (3/16" thickness) carbide shim is included as standard.
In case of DN44 insert (1/4" thickness), please replace the standard carbide shim with DNS1506 (option).
4. ** M3.5 is screw-on type.

For SPARE PARTS PG. 7

Right Hand
Left Hand
Neutral

Coding System For Cartridges

S50 - D C L N N - 00 050 - 12

- Cartridge Type and Size
- Clamping Method
- Insert Shape
- Lead Angle
- Relief Angle
- Hand
- Offset Value
- Length
- Insert Size

Clamping Method	
D	Double-Clamp
S	Screw-On

Relief Angle	
N	0° Negative
B	5° Positive
C	7° Positive

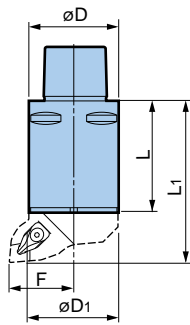
Insert Shape	
C	Rhombic 80°
T	Triangular 60°
D	Rhombic 55°
V	Rhombic 35°
W	Hexagon

Hand	
R	Right Hand
L	Left Hand
N	Neutral

Lead Angle	
J	3°
L	5°
H	17.5°
Q	27.5°
U	32°

Turning Tools

90° Basic Holder Type F

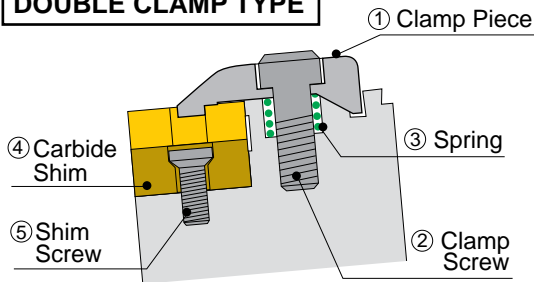


Capto	Type	Model	øD	øD1	L	L1	F
C5	F50	C5-F50-25	1.969	1.969	.984	2.362	1.378
		-50			1.969	3.346	
		-85			3.345	4.724	
		-125			4.921	6.299	
C6	F63	C6-F63-30	2.480	2.480	1.181	2.560	1.772
		-75			2.953	4.331	
		-100			3.937	5.315	
		-130			5.118	6.496	
		-170			6.693	8.071	
C8	F63	C8-F63-45	3.150	2.480	1.772	3.150	1.772
		-100			3.937	5.315	
		-130			5.118	6.496	
		-170			6.693	8.071	

1. Basic holders include M10x22L and M10x25L screws for clamping cartridges.
2. Wrenches are not included. Please order separately.

Spare Parts

DOUBLE CLAMP TYPE



Clamp Piece Set

Set Model	① Clamp Piece	② Screw	③ Spring	Insert
SCP-1	CP1	M5x20	ø8x10	TN33
SCP-2	CP2			CN43, TN43
SCP-3	CP3			WN43, DN43, DN44
SCP-5	CP5			CN54, TN54
				CN64

1. A set contains one clamp piece, screw and spring.
2. A wrench is not included, but available as an optional accessory (Model: T-4).

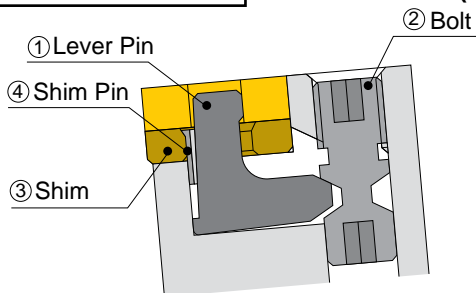
Carbide Shim Set

Insert	Set Model	④ Carbide Shim	⑤ Screw	Torx Size
TN33	STNS1604	TNS1604	M3x7	T10
TN43	STNS2204	TNS2204	M4x8	T15
TN54	STNS2706	TNS2706	M5x12	T20
DN43	SDNS1504	DNS1504	M4x8	T15
DN44	SDNS1506	DNS1506	M4x8	T15

1. A set contains one carbide shim and screw.
2. A wrench is not included. Please order separately (Model: DA-T10, DA-T15, DA-T20).

Insert	Set Model	④ Carbide Shim	⑤ Screw	Torx Size
CN43	SCNS1204	CNS1204	M4x8	T15
CN54	SCNS1606	CNS1606	M5x12	T20
CN64	SCNS1906	CNS1906	M5x12	T20
WN43	SWNS0804	WNS0804	M4x8	T15

LEVER LOCK TYPE for F63-PCLNR(L)450



Lever Lock Set

Set Model	① Lever Pin	② Bolt	Spanner Size
SLCL6	LCL6	LCS6	4mm

Carbide Shim Set

Set Model	③ Shim	④ Shim Pin
SLSC63	LSC63	LSC6



Clamp Screw Set
For Type S Basic Holder

Type	Screw Model	Screw Size	Wrench Model
S50	10.690.435	M10x1.0	10.690.816
S63	10.690.436	M12x1.0	10.690.817

Insert Clamping Screw Set



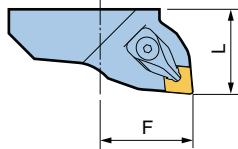
For VB33/VC33 Inserts

Model **S3508DS**

Contents

M3.5 screws..... 10 pcs.
Wrench..... **DA-T15** 1 pc.

90° Cartridge Type F



Right Hand

Lead Angle	Type	Hand	Model	Insert	L	F	Clamp Piece
5°	F50	R	F50-DCLNR-35035-12	CN43 Rhombic 80°	1.378	1.378	CP2
	F63	R	F63-DCLNR-45035-12			1.772	
	F50	L	F50-DCLNL-35035-12			1.378	
	F63	L	F63-DCLNL-45035-12			1.772	
	F50	R	F50-DCLNR-35035-16	CN54 Rhombic 80°	1.378	1.378	CP3
	F63	R	F63-DCLNR-45035-16			1.772	
	F50	L	F50-DCLNL-35035-16			1.378	
	F63	L	F63-DCLNL-45035-16			1.772	
	F63	R	F63-PCLNR-45045-19	CN64 Rhombic 80°	1.772	1.772	Lever Lock
	F63	L	F63-PCLNL-45045-19			1.772	
3°	F50	R	F50-DTJNR-35035-16	TN33 Triangle 60°	1.378	1.378	CP1
	F63	R	F63-DTJNR-45035-16			1.772	
	F50	L	F50-DTJNL-35035-16			1.378	
	F63	L	F63-DTJNL-45035-16			1.772	
	F63	R	F63-DTJNR-45035-22	TN43 Triangle 60°	1.378	1.772	CP2
	F63	L	F63-DTJNL-45035-22			1.772	
5°	F63	R	F63-DWLNR-45045-08	WN43 Hexagon	1.772	1.772	CP2
	F63	L	F63-DWLNL-45045-08			1.772	
3°	F50	R	F50-DDJNR-35035-15	*	1.378	1.378	CP2
	F63	R	F63-DDJNR-45035-15			1.772	
	F50	L	F50-DDJNL-35035-15			1.378	
	F63	L	F63-DDJNL-45035-15			1.772	
	F50	R	F50-DDJNR-35050-15	* DN43 DN44 Rhombic 55°	1.969	1.378	CP2
	F63	R	F63-DDJNR-45055-15			2.165	
	F50	L	F50-DDJNL-35050-15			1.969	
	F63	L	F63-DDJNL-45055-15			2.165	
17.5°	F63	R	F63-DDHNR-45040-15		1.575	1.772	CP2
	F63	L	F63-DDHNL-45040-15			1.772	
32°	F63	R	F63-DDUNR-45035-15		1.378	1.772	CP2
	F63	L	F63-DDUNL-45035-15			1.772	
27.5°	F50	R	F50-SVQBR-35035-16	VB33 VC33 Rhombic 35°	1.378	1.378	** M3.5
	F63	R	F63-SVQBR-45035-16			1.772	
	F50	L	F50-SVQBL-35035-16			1.378	
	F63	L	F63-SVQBL-45035-16			1.772	
3°	F63	R	F63-SVJBR-45055-16		2.165	1.772	
	F63	L	F63-SVJBL-45055-16			1.772	

1. Wrenches are not included with the cartridges. Please order separately.
2. Inserts are not included. Accepts ISO standard inserts.
3. * DN43 (3/16" thickness) carbide shim is included as standard.
In case of DN44 insert (1/4" thickness), please replace the standard carbide shim with DNS1506 (option).
4. ** M3.5 is screw-on type.

For SPARE PARTS PG. 7

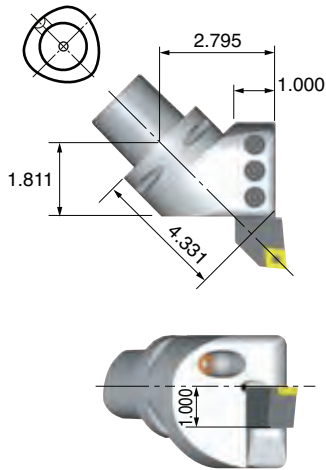
Right Hand Left Hand

Square Tool Holders – 1.000"

Available for applications such as turning, grooving, parting and threading.

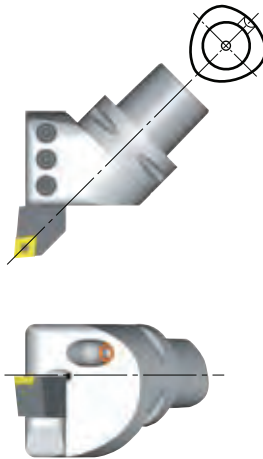
45 Type

Right Hand



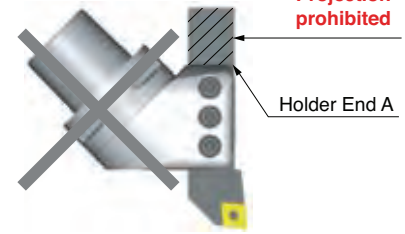
Model C6-45-BH1.000R-3.25

Left Hand

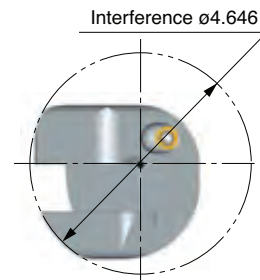


Model C6-45-BH1.000L-3.25

Caution

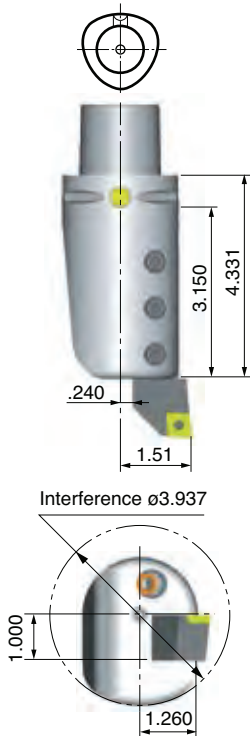


The excess length of a turning tool must be cut off to avoid interference with an ATC arm beyond holder end A.



180 Type

Right Hand



Model C6-180-BH1.000R-4.375

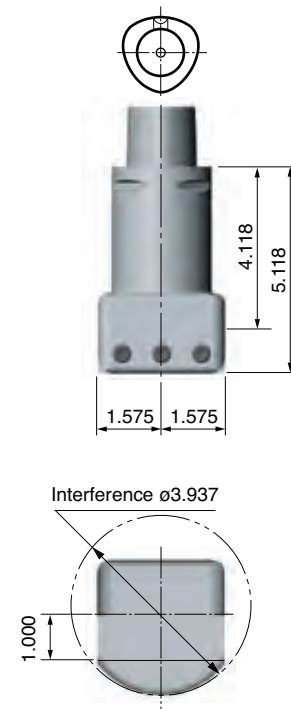
Left Hand



Model C6-180-BH1.000L-4.375

90 Type

Neutral



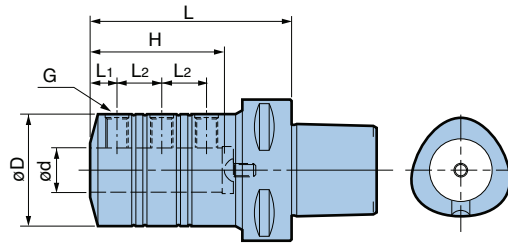
Model C6-90-BH1.000N-5.125

Turning Tools

Boring Bar Holder

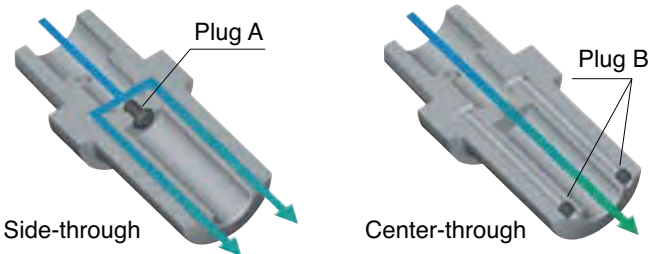
Clamping Range: $\varnothing.625'' - \varnothing1.500''$

Applications: boring and thread cutting



Model	$\varnothing d$	$\varnothing D$	L	L1	L2	Bore Depth H	G
C6-BSL.625-3.5	.625	1.575	3.500	.394	.827	2.559	M10x1.25
-BSL.750-3.5	.750	1.969		.472	.787	2.362	
-BSL1.000-4	1.000	2.165	4.000	.551	.906	2.756	M12x1.5
-BSL1.250-4.5	1.250	2.520	4.500	.630	1.024	3.071	M16x1.5
-BSL1.500-5	1.500	3.150	5.000	.709	1.260	3.661	

Interchangeable between center-through and side-through coolant supply by using plugs.



Plug A	Plug B	Body
M18x1.5	M6x1.0	BSL.625
M6x1.0		BSL.750
M8x1.25		BSL1.000
		BSL1.250
		BSL1.500

1. Both plugs are included as standard.

Adjustment for either right hand or left hand is also possible.

Mega Micro Chuck

Clamping Range: $\varnothing.018'' - \varnothing.238''$

MAX.
40,000
RPM

A slim nut and taper design prevents interference in applications with micro drills and end mills.

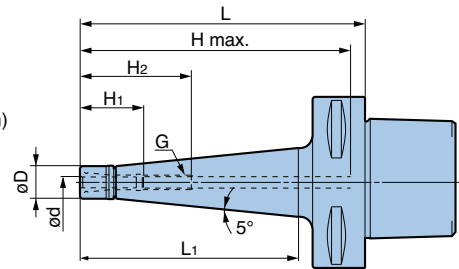
C5-MEGA3S-105T



• Model Description

C5 - **MEGA** **3** **S** - **105** **T**

- Capto Shank No.
- Mega Chuck Series
- Max. Capacity (mm)
- Micro Chuck
- Taper Type
- L= Projection Length (mm)



Taper Type

Capto	Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L1	H1	H2	H max.	G	Collet
C5	C5-MEGA3S-105T	.018 - .128	.394	4.134	3.110	.886	1.496	3.858	M4 P0.7	NBC3S-□
	-MEGA4S-105T	.018 - .159	.472			1.043	1.850		M5 P0.8	NBC4S-□
	-MEGA6S-105T	.018 - .238	.551			1.122	1.929		M7 P0.75	NBC6S-□
C6	C6-MEGA3S-120T	.018 - .128	.394	4.724	3.661	.886	1.496	4.370	M4 P0.7	NBC3S-□
	-MEGA4S-120T	.018 - .159	.472			1.043	1.850		M5 P0.8	NBC4S-□
	-MEGA6S-120T	.018 - .238	.551			1.122	1.929		M7 P0.75	NBC6S-□

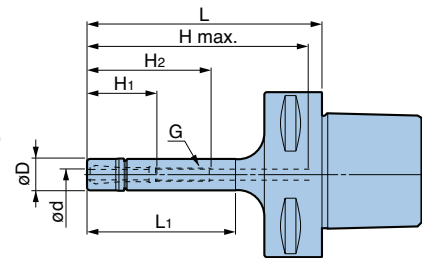
1. Mega Nut is included. Collet and wrench must be ordered separately.



• Model Description

C5 - **MEGA** **3** **S** - **75**

- Capto Shank No.
- Mega Chuck Series
- Max. Capacity (mm)
- Micro Chuck
- L= Projection Length (mm)



Standard Type

Capto	Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L1	H1	H2	H max.	G	Collet
C5	C5-MEGA3S-75	.018 - .128	.394	2.953	1.929	.886	1.496	2.677	M4 P0.7	NBC3S-□
	-MEGA4S-75	.018 - .159	.472			1.043	1.850		M5 P0.8	NBC4S-□
	-MEGA6S-75	.018 - .238	.551			1.122	1.929		M7 P0.75	NBC6S-□
C6	C6-MEGA3S-90	.018 - .128	.394	3.543	1.969	.886	1.496	3.189	M4 P0.7	NBC3S-□
	-MEGA4S-90	.018 - .159	.472		2.283	1.043	1.850		M5 P0.8	NBC4S-□
	-MEGA6S-90	.018 - .238	.551		2.283	1.122	1.929		M7 P0.75	NBC6S-□

1. Mega Nut is included. Collet and wrench must be ordered separately.

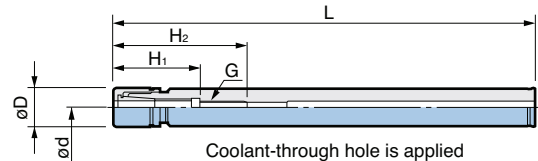
Straight Shank Type



• Model Description

ST.375 - **MEGA** **3** **S** - **120**

- Cylindrical Shank Size
- Mega Chuck Series
- Max. Capacity (mm)
- Micro Chuck
- L= Projection Length (mm)



Model	$\varnothing d$	$\varnothing D$	L	H1	H2	G	Collet
ST.375-MEGA3S-120	.018 - .128	.394	4.724	.886	1.496	M4 P0.7	NBC3S-□
ST.500-MEGA4S-130	.018 - .159	.472	5.118	1.043	1.850	M5 P0.8	NBC4S-□
-160			6.299				
ST.625-MEGA6S-160	.018 - .238	.551	6.299	1.122	1.929	M7 P0.75	NBC6S-□
-200			7.874				

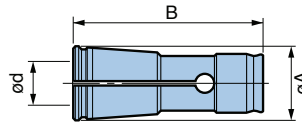
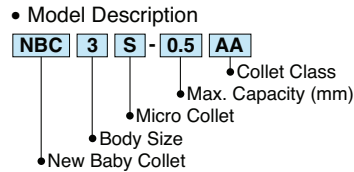
1. Mega Nut is included. Collet and wrench must be ordered separately.

Spare Parts		Accessories (Need to be ordered separately)		
	Mega Nut 	Mega Wrench 	Collet Box 	α Taper Cleaner
Mega Micro Chuck	Model	Model	Model	Model
MEGA3S	MGN3S	MGR10	MBB3S	SC-NBC3S
MEGA4S	MGN4S	MGR12	MBB4S	-NBC4S
MEGA6S	MGN6S	MGR14	MBB6S	-NBC6S

Mega Micro Collet

Clamping Range: ϕ .018" - ϕ .238"

Interval of clamping diameter is .004". Taper and straight design achieves .00004" T.I.R. at the collet nose.



Collet Runout Accuracy

Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within .00004"	Within .00012"

.00004" .00012"

MEGA3S	
Model	Clamping Range ϕd
NBC3S-0.5AA	.018 - .022
-0.6AA	.022 - .026
-0.7AA	.026 - .030
-0.8AA	.030 - .033
-0.9AA	.033 - .037
-1.0AA	.037 - .041
-1.1AA	.041 - .045
-1.2AA	.045 - .049
-1.3AA	.049 - .053
-1.4AA	.053 - .057
-1.5AA	.057 - .061
-1.6AA	.061 - .065
-1.7AA	.065 - .069
-1.8AA	.069 - .073
-1.9AA	.073 - .077
-2.0AA	.077 - .081
-2.1AA	.081 - .085
-2.2AA	.085 - .089
-2.3AA	.089 - .093
-2.4AA	.093 - .096
-2.5AA	.096 - .100
-2.6AA	.100 - .104
-2.7AA	.104 - .108
-2.8AA	.108 - .112
-2.9AA	.112 - .116
-3.0AA	.116 - .120
-3.1AA	.120 - .124
-3.175AA	.123 - .127
-3.2AA	.124 - .128

$\phi A = .239$ $B = .740$

MEGA4S	
Model	Clamping Range ϕd
NBC4S-0.5AA	.018 - .022
-0.6AA	.022 - .026
-0.7AA	.026 - .030
-0.8AA	.030 - .033
-0.9AA	.033 - .037
-1.0AA	.037 - .041
-1.1AA	.041 - .045
-1.2AA	.045 - .049
-1.3AA	.049 - .053
-1.4AA	.053 - .057
-1.5AA	.057 - .061
-1.6AA	.061 - .065
-1.7AA	.065 - .069
-1.8AA	.069 - .073
-1.9AA	.073 - .077
-2.0AA	.077 - .081
-2.1AA	.081 - .085
-2.2AA	.085 - .089
-2.3AA	.089 - .093
-2.4AA	.093 - .096
-2.5AA	.096 - .100
-2.6AA	.100 - .104
-2.7AA	.104 - .108
-2.8AA	.108 - .112
-2.9AA	.112 - .116
-3.0AA	.116 - .120
-3.1AA	.120 - .124
-3.175AA	.123 - .127
-3.2AA	.124 - .128
-3.3AA	.128 - .132
-3.4AA	.132 - .136
-3.5AA	.136 - .140
-3.6AA	.140 - .144
-3.7AA	.144 - .148
-3.8AA	.148 - .152
-3.9AA	.152 - .156
-4.0AA	.156 - .159

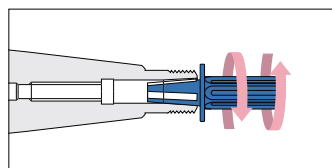
$\phi A = .291$ $B = .886$

MEGA6S			
Model	Clamping Range ϕd	Model	Clamping Range ϕd
NBC6S-0.5AA	.018 - .022	NBC6S-4.1AA	.159 - .163
-0.6AA	.022 - .026	-4.2AA	.163 - .167
-0.7AA	.026 - .030	-4.3AA	.167 - .171
-0.8AA	.030 - .033	-4.4AA	.171 - .175
-0.9AA	.033 - .037	-4.5AA	.175 - .179
-1.0AA	.037 - .041	-4.6AA	.179 - .183
-1.1AA	.041 - .045	-4.7AA	.183 - .187
-1.2AA	.045 - .049	-4.7625AA	.186 - .189
-1.3AA	.049 - .053	-4.8AA	.187 - .191
-1.4AA	.053 - .057	-4.9AA	.191 - .195
-1.5AA	.057 - .061	-5.0AA	.195 - .199
-1.6AA	.061 - .065	-5.1AA	.199 - .203
-1.7AA	.065 - .069	-5.2AA	.203 - .207
-1.8AA	.069 - .073	-5.3AA	.207 - .211
-1.9AA	.073 - .077	-5.4AA	.211 - .215
-2.0AA	.077 - .081	-5.5AA	.215 - .219
-2.1AA	.081 - .085	-5.6AA	.219 - .222
-2.2AA	.085 - .089	-5.7AA	.222 - .226
-2.3AA	.089 - .093	-5.8AA	.226 - .230
-2.4AA	.093 - .096	-5.9AA	.230 - .234
-2.5AA	.096 - .100	-6.0AA	.234 - .238
-2.6AA	.100 - .104		
-2.7AA	.104 - .108		
-2.8AA	.108 - .112		
-2.9AA	.112 - .116		
-3.0AA	.116 - .120		
-3.1AA	.120 - .124		
-3.175AA	.123 - .127		
-3.2AA	.124 - .128		
-3.3AA	.128 - .132		
-3.4AA	.132 - .136		
-3.5AA	.136 - .140		
-3.6AA	.140 - .144		
-3.7AA	.144 - .148		
-3.8AA	.148 - .152		
-3.9AA	.152 - .156		
-4.0AA	.156 - .159		

$\phi A = .370$ $B = .965$

α Taper Cleaner

For cleaning the internal collet taper of Mega Micro Chucks.



Model	Body
SC-NBC3S	MEGA3S
-NBC4S	MEGA4S
-NBC6S	MEGA6S



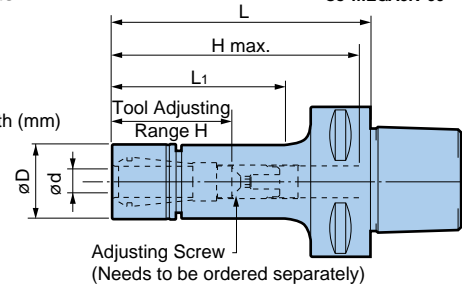
Mega New Baby Chuck Pat. P

Clamping Range: ϕ .010" - ϕ .787"

The chuck designed for high speed cutting utilizes ultra precise New Baby Collets that guarantee .00004" T.I.R. at the collet nose.



- Model Description
- C5** - MEGA **6** N - **60**
- L = Projection Length (mm)
- New Baby Chuck
- Max. Capacity (mm)
- Mega Chuck Series
- Capto Shank No.



Capto	Model	Clamping Range ϕ D	ϕ D	L	L1	H	H max.	Collet
C5	C5-MEGA6N-60	.010 - .236	.787	2.362	1.339	.906 - 1.693	2.087	NBC6-□
	-75			2.953	1.929		2.677	
	-90			3.543	2.441		3.268	
	-105			4.134	3.031		3.858	
	-120			4.724	3.543		4.449	
	-MEGA8N-60	.020 - .315	.984	2.362	1.299	1.024 - 1.417	2.087	NBC8-□
	-75			2.953	1.929		2.677	
	-90			3.543	2.520		3.268	
	-105			4.134	3.031		3.858	
	-MEGA10N-55 *	.059 - .394	1.181	2.165	1.220	1.496 - 1.890	1.890	NBC10-□
	-75			2.953	1.929		2.677	
	-90			3.543	2.520		3.268	
	-105			4.134	3.110		3.858	
	-120			4.724	3.622		4.449	
	-MEGA13N-55 *	.098 - .512	1.378	2.165	1.220	1.732 - 2.480	1.890	NBC13-□
	-75			2.953	1.929		2.677	
	-90			3.543	2.520		3.268	
	-105			4.134	3.110		3.858	
	-120			4.724	3.701		4.449	
	-MEGA16N-60 *	.098 - .630	1.654	2.362	1.496	1.890 - 2.677	2.087	NBC16-□
	-75 *			2.953	2.087		2.677	
	-90			3.543	2.717		3.268	
	-105			4.134	3.307		3.858	
	-120			4.724	3.898		4.370	
	-MEGA20N-60 *	.098 - .787	1.811	2.362	1.535	2.008 - 2.362	2.008	NBC20-□
	-75 *			2.953	2.126		2.598	
	-90			3.543	2.717		3.268	
	-105			4.134	3.307		3.858	
-120	4.724			3.898	4.370			
				5.315	4.488			

1. Mega Nut is included. Collet and wrench must be ordered separately.
2. Designed to be capable of supplying coolant through spindle.

3. For tools marked *, adjusting screw cannot be used, H is the maximum tool insertion length.

Spare Parts		Accessories (Need to be ordered separately)								
	Mega Nut 	Mega Wrench 	Collet P16 	End Mill Collet P17 	Mega Perfect Seal P18 	Adjusting Screw Rubber Seal 				
Mega New Baby Chuck	Model	Model	Model	Model	Model	Model	G	L	B	
	MEGA6N	MGN6	MGR20	NBC6-□	NBC6-□E	MPS6-□	NBA6B	M7	.472	.079
	MEGA8N	MGN8	MGR25	NBC8-□	NBC8-□E	MPS8-□	NBA8B	M9	.512	.098
	MEGA10N	MGN10	MGR30	NBC10-□	NBC10-□E	MPS10-□	NBA10B	M11	.630	.118
	MEGA13N	MGN13	MGR35	NBC13-□	NBC13-□E	MPS13-□	NBA13B	M14	.787	.157
	MEGA16N	MGN16	MGR42	NBC16-□	NBC16-□E	MPS16-□	NBA16B	M18	.787	.157
	MEGA20N	MGN20	MGR46	NBC20-□	NBC20-□E	MPS20-□	NBA20B	M21	.787	.157

Capto	Model	Clamping Range ød	øD	L	L1	H	H max.	Collet
C6	C6-MEGA6N-60	.010 - .236	.787	2.362	1.181	.906 - 1.299	2.008	NBC6-□
	-75			2.953	1.693	.906 - 1.693	2.598	
	-90			3.543	2.283		3.189	
	-105			4.134	2.874		3.780	
	-120			4.724	3.465		4.370	
	-135			5.315	4.055		4.961	
	-165			6.496	5.039		6.142	
	-MEGA8N-60	.020 - .315	.984	2.362	1.142	1.024 - 1.220	2.008	NBC8-□
	-75			2.953	1.693	1.024 - 1.772	2.598	
	-90			3.543	2.283		3.189	
	-105			4.134	2.874		3.780	
	-120			4.724	3.465		4.370	
	-135			5.315	4.055		4.961	
	-165			6.496	5.236		6.142	
	-MEGA10N-60 *	.059 - .394	1.181	2.362	1.260	2.008	2.008	NBC10-□
	-75			2.953	1.693	1.496 - 1.772	2.598	
	-90			3.543	2.283	1.496 - 1.890	3.189	
	-105			4.134	2.874		3.780	
	-120			4.724	3.465		4.370	
	-135			5.315	4.055		4.961	
	-165			6.496	5.236		6.142	
	-200	7.874	6.614	7.520				
	-MEGA13N-60 *	.098 - .512	1.378	2.362	1.260	2.008	2.008	NBC13-□
	-75 *			2.953	1.772	2.598	2.598	
	-90			3.543	2.362	1.732 - 2.165	3.189	
	-105			4.134	2.874	1.732 - 2.480	3.780	
	-120			4.724	3.543		4.370	
	-135			5.315	4.055		4.961	
	-165			6.496	5.236		6.142	
	-200	7.874	6.614	7.520				
	-MEGA16N-65 *	.098 - .630	1.654	2.559	1.457	2.205	2.205	NBC16-□
	-75 *			2.953	1.850	2.598	2.598	
	-90			3.543	2.362	1.890 - 2.244	3.189	
	-105			4.134	2.953	1.890 - 2.677	3.780	
	-120			4.724	3.543		4.370	
	-135			5.315	4.134		4.961	
	-165			6.496	5.315		6.142	
	-200	7.874	6.693	7.520				
	-MEGA20N-65 *	.098 - .787	1.811	2.559	1.457	2.008	2.008	NBC20-□
	-75 *			2.953	1.850	2.559	2.559	
	-90			3.543	2.441	2.008 - 2.205	2.992	
	-105			4.134	3.031	2.008 - 2.677	3.583	
	-120			4.724	3.622		4.094	
	-135			5.315	4.213		4.370	
	-165			6.496	5.394		4.370	
	-200	7.874	6.772					

1. Mega Nut is included. Collet and wrench must be ordered separately.

2. Designed to be capable of supplying coolant through spindle.

3. For tools marked *, adjusting screw cannot be used, H is the maximum tool insertion length.

 For NEW BABY COLLET PG. 16

 For END MILL COLLET PG. 17

 For MEGA PERFECT SEAL PG. 18

If you use Mega Perfect Seal, order the tool adding /NL (without Nut) at the end of chuck model numbers.

For example:

C5-MEGA6N-60 / NL

+

NBC6-3AA

+

MPS6-03035

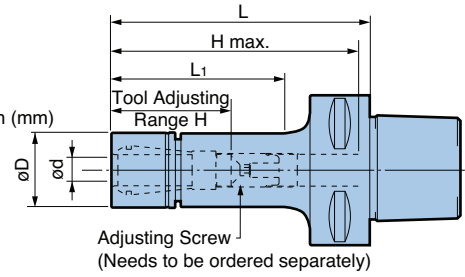
Mega New Baby Chuck Pat. P

Clamping Range: $\varnothing.010'' - \varnothing.787''$

High precision collet and well balanced design provide stable performance during high speed cutting.



- Model Description
- C8** - MEGA **6** **N** - **90**
- L= Projection Length (mm)
- New Baby Chuck
- Max. Capacity (mm)
- Mega Chuck Series
- Capto Shank No.



Capto	Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L ₁	H	H max.	Collet
C8	C8-MEGA6N-90	.010 - .236	.787	3.543	1.772	.906 - 1.693	3.543	NBC6-□
	-105			4.134	2.362		4.134	
	-120			4.724	2.953		4.724	
	-135			5.315	3.543		5.315	
	-165			6.496	4.724		6.496	
	-MEGA8N-90			.020 - .315	.984		3.543	
	-105	4.134	2.362			4.134		
	-120	4.724	2.953			4.724		
	-135	5.315	3.543			5.315		
	-MEGA10N-70	.059 - .394	1.181	2.756	1.181	1.496 - 1.811	2.756	NBC10-□
	-90			3.543	1.772		3.543	
	-105			4.134	2.362	1.496 - 1.890	4.134	
	-120			4.724	2.953		4.724	
	-135			5.315	3.543		5.315	
	-165			6.496	4.724		6.496	
	-MEGA13N-70 *	.098 - .512	1.378	2.756	1.339	1.732 - 2.480	2.756	NBC13-□
	-90			3.543	1.969		3.543	
	-105			4.134	2.559		4.134	
	-120			4.724	3.150		4.724	
	-135			5.315	3.740		5.315	
	-165			6.496	4.724		6.496	
	-MEGA16N-70 *	.098 - .630	1.654	2.756	1.339	2.756	2.756	NBC16-□
	-90			3.543	1.969		1.890 - 2.598	
	-105			4.134	2.559	4.134		
	-120			4.724	3.150	4.724		
	-135			5.315	3.740	1.890 - 2.677		
	-165			6.496	4.921		6.496	
	-MEGA20N-70 *	.098 - .787	1.811	2.756	1.339	2.008 - 2.677	2.480	NBC20-□
	-90			3.543	1.969		3.268	
	-105			4.134	2.559			
-120	4.724			3.150				
-135	5.315			3.740				
-165	6.496			4.921				
-200	7.874	6.299	4.449					

1. Mega Nut is included. Collet and wrench must be ordered separately.
2. Designed to be capable of supplying coolant through spindle.
3. For tools marked *, adjusting screw cannot be used, H is the maximum tool insertion length.

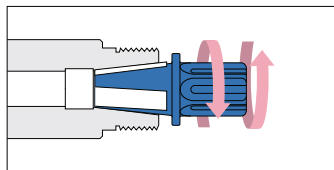
For NEW BABY COLLET PG. 16

For END MILL COLLET PG. 17

For MEGA PERFECT SEAL PG. 18

α Taper Cleaner

For cleaning the internal collet taper of Mega New Baby Chucks.



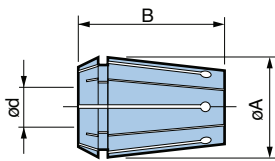
Model	Body
SC-NBC6	MEGA6N
-NBC8	MEGA8N
-NBC10	MEGA10N
-NBC13	MEGA13N
-NBC16	MEGA16N
-NBC20	MEGA20N

New Baby Collet

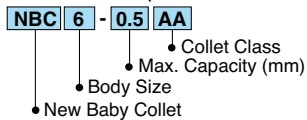
Clamping Range: ϕ .010" - ϕ .787"



The New Baby Collet is world renowned for its unmatched accuracy and precision. It offers runout accuracy of .00004" T.I.R. at the collet nose.



• Model Description



Collet Runout Accuracy

Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within .00004"	Within .00012"
.00004" .00012"		

MEGA6N	
Model	Clamping Range ϕ d
NBC6-0.5AA	.010 - .020
-0.75AA	.020 - .030
-1AA	.030 - .039
-1.25AA	.039 - .049
-1.5AA	.049 - .059
-1.75AA	.059 - .069
-2AA	.069 - .079
-2.25AA	.079 - .089
-2.5AA	.089 - .098
-2.75AA	.098 - .108
-3AA	.108 - .118
-3.175AA	.115 - .125
-3.25AA	.118 - .128
-3.5AA	.128 - .138
-3.75AA	.138 - .148
-4AA	.148 - .157
-4.25AA	.157 - .167
-4.5AA	.167 - .177
-4.75AA	.177 - .187
-5AA	.187 - .197
-5.25AA	.197 - .207
-5.5AA	.207 - .217
-5.75AA	.217 - .226
-6AA	.226 - .236

ϕ A= .374 B= .551

MEGA13N	
Model	Clamping Range ϕ d
NBC13-3AA	.098 - .118
-3.175AA	.115 - .125
-3.5AA	.118 - .138
-4AA	.138 - .157
-4.5AA	.157 - .177
-5AA	.177 - .197
-5.5AA	.197 - .217
-6AA	.217 - .236
-6.5AA	.236 - .256
-7AA	.256 - .276
-7.5AA	.276 - .295
-8AA	.295 - .315
-8.5AA	.315 - .335
-9AA	.335 - .354
-9.5AA	.354 - .375
-10AA	.376 - .394
-10.5AA	.394 - .413
-11AA	.413 - .433
-11.5AA	.433 - .453
-12AA	.453 - .472
-12.5AA	.472 - .492
-13AA	.492 - .512

ϕ A= .807 B= 1.220

MEGA8N	
Model	Clamping Range ϕ d
NBC8-0.75AA	.020 - .030
-1AA	.030 - .039
-1.25AA	.039 - .049
-1.5AA	.049 - .059
-1.75AA	.059 - .069
-2AA	.069 - .079
-2.25AA	.079 - .089
-2.5AA	.089 - .098
-2.75AA	.098 - .108
-3AA	.108 - .118
-3.175AA	.115 - .125
-3.5AA	.118 - .138
-4AA	.138 - .157
-4.5AA	.157 - .177
-5AA	.177 - .197
-5.5AA	.197 - .217
-6AA	.217 - .236
-6.5AA	.236 - .256
-7AA	.256 - .276
-7.5AA	.276 - .295
-8AA	.295 - .315

ϕ A= .492 B= .709

MEGA16N	
Model	Clamping Range ϕ d
NBC16-3AA	.098 - .118
-3.5AA	.118 - .138
-4AA	.138 - .157
-4.5AA	.157 - .177
-5AA	.177 - .197
-5.5AA	.197 - .217
-6AA	.217 - .236
-6.5AA	.236 - .256
-7AA	.256 - .276
-7.5AA	.276 - .295
-8AA	.295 - .315
-8.5AA	.315 - .335
-9AA	.335 - .354
-9.5AA	.354 - .375
-10AA	.376 - .394
-10.5AA	.394 - .413
-11AA	.413 - .433
-11.5AA	.433 - .453
-12AA	.453 - .472
-12.5AA	.472 - .492
-13AA	.492 - .512
-13.5AA	.512 - .531
-14AA	.531 - .551
-14.5AA	.551 - .571
-15AA	.571 - .591
-15.5AA	.591 - .610
-16AA	.610 - .630

ϕ A= 1.004 B= 1.378

MEGA10N	
Model	Clamping Range ϕ d
NBC10-1.75AA	.059 - .069
-2AA	.069 - .079
-2.25AA	.079 - .089
-2.5AA	.089 - .098
-2.75AA	.098 - .108
-3AA	.108 - .118
-3.175AA	.115 - .125
-3.5AA	.118 - .138
-4AA	.138 - .157
-4.5AA	.157 - .177
-5AA	.177 - .197
-5.5AA	.197 - .217
-6AA	.217 - .236
-6.5AA	.236 - .256
-7AA	.256 - .276
-7.5AA	.276 - .295
-8AA	.295 - .315
-8.5AA	.315 - .335
-9AA	.335 - .354
-9.5AA	.354 - .375
-10AA	.376 - .394

ϕ A= .650 B= 1.063

MEGA20N	
Model	Clamping Range ϕ d
NBC20-3AA	.098 - .118
-3.5AA	.118 - .138
-4AA	.138 - .157
-4.5AA	.157 - .177
-5AA	.177 - .197
-5.5AA	.197 - .217
-6AA	.217 - .236
-6.5AA	.236 - .256
-7AA	.256 - .276
-7.5AA	.276 - .295
-8AA	.295 - .315
-8.5AA	.315 - .335
-9AA	.335 - .354
-9.5AA	.354 - .375
-10AA	.376 - .394
-10.5AA	.394 - .413
-11AA	.413 - .433
-11.5AA	.433 - .453
-12AA	.453 - .472
-12.5AA	.472 - .492
-13AA	.492 - .512
-13.5AA	.512 - .531
-14AA	.531 - .551
-14.5AA	.551 - .571
-15AA	.571 - .591
-15.5AA	.591 - .610
-16AA	.610 - .630
-16.5AA	.630 - .650
-17AA	.650 - .669
-17.5AA	.669 - .689
-18AA	.689 - .709
-18.5AA	.709 - .728
-19AA	.728 - .750
-19.5AA	.751 - .768
-20AA	.768 - .787

ϕ A= 1.122 B= 1.496

Rotating Tools

Collet Set

A collet set contains all sizes of collets for each series and a wooden box.



Model	Number of Collets	Chuck Model
SNBC6AA-22	22	MEGA6N
SNBC8AA-20	20	MEGA8N
SNBC10AA-20	20	MEGA10N
SNBC13AA-21	21	MEGA13N
SNBC16AA-27	27	MEGA16N
SNBC20AA-35	35	MEGA20N

- All collets are "AA" class.
- SNBC6 New Baby Collet Set does not include NBC6-0.5 collet.

Wooden Box

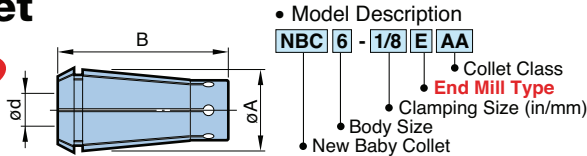
The wooden box is convenient for storage of collets.



Model	Number of Holes	Collet Model
NBB6	24	NBC6
NBB8	24	NBC8
NBB10	24	NBC10
NBB13	24	NBC13
NBB16	36	NBC16
NBB20	36	NBC20

- The boxes cannot be used for New Baby End Mill Collet.

New Baby Collet



Clamping Range: ϕ .125" - ϕ .750"
 ϕ 3mm - ϕ 20mm

The tolerance of the cutting tool shank must be within h7.

MEGA6N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC6-1/8EAA
	.187	-3/16EAA
METRIC SIZE	3.0	NBC6-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA

ϕ A= .362 B= .669

MEGA13N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC13-1/8EAA
	.187	-3/16EAA
	.250	-1/4EAA
	.375	-3/8EAA
	.500	-1/2EAA
METRIC SIZE	3.0	NBC13-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA
	8.0	-8EAA
	10.0	-10EAA
	12.0	-12EAA

ϕ A= .787 B= 1.496

MEGA8N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC8-1/8EAA
	.187	-3/16EAA
	.250	-1/4EAA
METRIC SIZE	3.0	NBC8-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA
	8.0	-8EAA

ϕ A= .472 B= .787

MEGA16N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC16-1/8EAA
	.187	-3/16EAA
	.250	-1/4EAA
	.375	-3/8EAA
	.500	-1/2EAA
	.625	-5/8EAA
METRIC SIZE	3.0	NBC16-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA
	8.0	-8EAA
	10.0	-10EAA
	12.0	-12EAA
	14.0	-14EAA
	16.0	-16EAA

ϕ A= .984 B= 1.654

MEGA10N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC10-1/8EAA
	.187	-3/16EAA
	.250	-1/4EAA
METRIC SIZE	.375	-3/8EAA
	3.0	NBC10-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA
	8.0	-8EAA
	10.0	-10EAA

ϕ A= .630 B= 1.260

MEGA20N		
	Clamping Size ϕ d	Model
INCH SIZE	.125	NBC20-1/8EAA
	.187	-3/16EAA
	.250	-1/4EAA
	.375	-3/8EAA
	.500	-1/2EAA
	.625	-5/8EAA
METRIC SIZE	.750	-3/4EAA
	3.0	NBC20-3EAA
	4.0	-4EAA
	5.0	-5EAA
	6.0	-6EAA
	8.0	-8EAA
	10.0	-10EAA
	12.0	-12EAA
	14.0	-14EAA
	16.0	-16EAA
20.0	-20EAA	

ϕ A= 1.102 B= 1.772

Collet Ejector

Collet Ejector can easily and quickly remove small sizes of New Baby Collets from Mega Nuts.



New Baby Collet

Model	Nut	Collet
NBC6-CE	MGN6	NBC6
NBC8-CE	MGN8	NBC8
NBC10-CE	MGN10	NBC10
NBC13-CE	MGN13	NBC13

New Baby End Mill Collet

Model	Nut	Collet
NBC6E-CE	MGN6	NBC6E
NBC8E-CE	MGN8	NBC8E
NBC10E-CE	MGN10	NBC10E
NBC13E-CE	MGN13	NBC13E

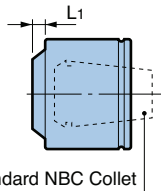
Mega Perfect Seal Pat.

Clamping Range: $\varnothing.118'' - \varnothing.787''$

THROUGH TOOLS

Standard NBC Collet can be used!

Unique design increases sealing performance with higher coolant pressure to create a "perfect seal".



Standard NBC Collet

• Model Description

- **MPS** | **6** | **-03035**
- Cutter Shank Dia. Clamping Range: $\varnothing 3\text{mm} - \varnothing 3.5\text{mm}$ ($\varnothing.118'' - \varnothing.138''$)
- Body Size
- Mega Perfect Seal

MAX COOLANT PRESSURE
1,000 PSI

2-Way Coolant



With PS Ring Without PS Ring
Reliable coolant supply to the tool tip!

Model	L1	Cutter Shank \varnothing	Collet Model	Model	L1	Cutter Shank \varnothing	Collet Model		
MPS6-03035	.091	.118 - .138	NBC6-3-3.75	MPS16-03035	.157	.118 - .138	NBC16-3-4		
-0304		.118 - .157	-3-4.25	-0304		.118 - .157	-3-4.5		
-04045		.157 - .177	-4-4.75	-04045		.157 - .177	-4-5		
-0405		.157 - .197	-4-5.25	-0405		.157 - .197	-4-5.5		
-05055		.197 - .217	-5-5.75	-05055		.197 - .217	-5-6		
-0506		.197 - .236	-5-6	-0506		.197 - .236	-5-6.5		
MPS8-03035	.154	.118 - .138	NBC8-3-4	-06065	.169	.236 - .256	-6-7		
-0304		.118 - .157	-3-4.5	-0607		.236 - .276	-6-7.5		
-04045		.157 - .177	-4-5	-07075		.276 - .295	-7-8		
-0405		.157 - .197	-4-5.5	-0708		.276 - .315	-7-8.5		
-05055		.197 - .217	-5-6	-08085		.315 - .335	-8-9		
-0506		.197 - .236	-5-6.5	-0809		.315 - .354	-8-9.5		
-06065	.134	.236 - .256	-6-7	-09095	.181	.354 - .375	-9-10		
-0607		.236 - .276	-6-7.5	-0910		.354 - .394	-9-10.5		
-07075		.276 - .295	-7-8	-10105		.394 - .413	-10-11		
-0708		.276 - .315	-7-8	-1011		.394 - .433	-10-11.5		
MPS10-03035		.154	.118 - .138	NBC10-3-4		-11115	.201	.433 - .453	-11-12
-0304			.118 - .157	-3-4.5		-1112		.433 - .472	-11-12.5
-04045	.157 - .177		-4-5	-12125	.472 - .492	-12-13			
-0405	.157 - .197		-4-5.5	-1213	.472 - .512	-12-13.5			
-05055	.197 - .217		-5-6	-1314	.512 - .551	-13-14.5			
-0506	.197 - .236		-5-6.5	-1415	.551 - .591	-14-15.5			
-06065	.169	.236 - .256	-6-7	-1516	.161	.591 - .630	-15-16		
-0607		.236 - .276	-6-7.5	MPS20-03035		.157	.118 - .138	NBC20-3-4	
-07075		.276 - .295	-7-8	-0304			.118 - .157	-3-4.5	
-0708		.276 - .315	-7-8.5	-04045			.157 - .177	-4-5	
-08085		.315 - .335	-8-9	-0405			.157 - .197	-4-5.5	
-0809		.315 - .354	-8-9.5	-05055			.197 - .217	-5-6	
-09095	.354 - .375	-9-10	-0506	.197 - .236	-5-6.5				
-0910	.138	.354 - .394	-9-10	-06065	.169	.236 - .256	-6-7		
MPS13-03035		.169	.118 - .138	NBC13-3-4		-0607	.236 - .276	-6-7.5	
-0304			.118 - .157	-3-4.5		-07075	.276 - .295	-7-8	
-04045			.157 - .177	-4-5		-0708	.276 - .315	-7-8.5	
-0405			.157 - .197	-4-5.5		-08085	.315 - .335	-8-9	
-05055			.197 - .217	-5-6		-0809	.315 - .354	-8-9.5	
-0506	.197 - .236		-5-6.5	-09095	.354 - .375	-9-10			
-06065	.181	.236 - .256	-6-7	-0910	.181	.354 - .394	-9-10.5		
-0607		.236 - .276	-6-7.5	-10105		.394 - .413	-10-11		
-07075		.276 - .295	-7-8	-1011		.394 - .433	-10-11.5		
-0708		.276 - .315	-7-8.5	-11115		.433 - .453	-11-12		
-08085		.315 - .335	-8-9	-1112		.433 - .472	-11-12.5		
-0809		.315 - .354	-8-9.5	-12125		.472 - .492	-12-13		
-09095	.193	.354 - .375	-9-10	-1213	.201	.472 - .512	-12-13.5		
-0910		.354 - .394	-9-10.5	-1314		.512 - .551	-13-14.5		
-10105		.394 - .413	-10-11	-1415		.551 - .591	-14-15.5		
-1011		.394 - .433	-10-11.5	-1516		.591 - .630	-15-16.5		
-11115		.165	.433 - .453	-11-12		-1617	.181	.630 - .669	-16-17.5
-1112			.433 - .472	-11-12.5		-1718		.669 - .709	-17-18.5
-12125	.472 - .492		-12-13	-1819	.709 - .750	-18-19.5			
-1213	.472 - .512		-12-13	-1920	.751 - .787	-19-20			

1. 1 pc. of PS Ring is included.

PS Ring



THROUGH TOOLS

Replaceable seal used in Mega Perfect Seal

(Spare seal is recommended when coolant leaks due to damage of PS Ring.)

Model	MPS Model	Model	MPS Model	Model	MPS Model
PS-0304	MPS□-03035,0304	PS-0809	MPS□-08085,0809	PS-1314	MPS□-1314
0405	04045,0405	0910	09095,0910	1415	1415
0506	05055,0506	1011	10105,1011	1516	1516
0607	06065,0607	1112	11115,1112	1617	1617
0708	07075,0708	1213	12125,1213	1718	1718
				1819	1819
				1920	1920

1 package contains 5 pcs. (1 size)



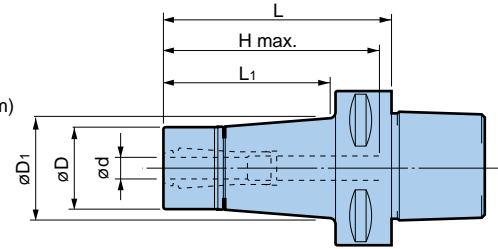
Mega E Chuck Pat. P

Clamping Range: $\varnothing.125"$ - $\varnothing.500"$ ($\varnothing3\text{mm}$ - $\varnothing12\text{mm}$)

Designed exclusively for end milling. Clamping force and rigidity is greatly improved for heavy duty applications.



- Model Description
- C5** - Capto Shank No.
- MEGA** - Mega Chuck Series
- 6** - Max. Capacity (mm)
- E** - Mega E Chuck
- 55** - L= Projection Length (mm)



Capto	Model	$\varnothing d$	$\varnothing D$	$\varnothing D1$	L	L1	H max.	Collet
C5	C5-MEGA6E-55	.125 - .250 (3mm - 6mm)	.984	1.039	2.165	1.142	1.890	MEC6-□
	-75			1.165	2.953	1.929	2.677	
	-90			1.272	3.543	2.520	3.268	
	-105			1.386	4.134	3.189	3.858	
	-120			1.492	4.724	3.819	4.449	
	-MEGA8E-55	.125 - .250 (3mm - 8mm)	1.181	1.232	2.165	1.220	1.890	MEC8-□
	-75			1.339	2.953	2.008	2.677	
	-90			1.472	3.543	2.638	3.268	
	-105			1.579	4.134	3.228	3.858	
	-MEGA10E-60	.125 - .375 (3mm - 10mm)	1.378	1.472	2.362	1.457	2.087	MEC10-□
	-75			1.571	2.953	2.087	2.677	
	-90			1.681	3.543	2.717	3.268	
	-105			1.783	4.134	3.307	3.858	
	-120			1.783	4.724	3.898	4.449	
	-MEGA13E-60	.125 - .500 (3mm - 12mm)	1.654	1.756	5.315	4.488	5.039	MEC13-□
	-75			1.748	2.362	1.535	1.969	
	-90			1.764	2.953	2.126	2.677	
	-105			1.764	3.543	2.717	3.268	
	-120			1.811	4.134	3.307	3.858	
	-135	1.803	4.724	3.898	4.449			
-135	1.772	5.315	4.488	5.039				

1. Mega Nut is included. Collet and wrench must be ordered separately.
2. Designed to be capable of supplying coolant through spindle.

For MEGA E COLLET **PG. 21** For MEGA E PERFECT SEAL **PG. 22**

If you use Mega E Perfect Seal order the tool adding **/NL** (without Nut) at the end of chuck model numbers.
For example:

C5-MEGA6E-55 / NL + **MEC6-3AA** + **EPS6-03**

Spare Parts		Accessories (Need to be ordered separately)						
Mega E Nut		Mega Wrench	Collet	Mega E Perfect Seal	Adjusting Screw			
Mega E Chuck	Model	Model	Model	Model	Model	G	L	B
MEGA6E	MEN6	MGR25	MEC6-□	EPS6-□	NBA6B	M7	.472	.079
MEGA8E	MEN8	MGR30	MEC8-□	EPS8-□	NBA8B	M9	.512	.098
MEGA10E	MEN10	MGR35	MEC10-□	EPS10-□	NBA10B	M11	.630	.118
MEGA13E	MEN13	MGR42	MEC13-□	EPS13-□	NBA13B	M14	.787	.157

Capto	Model	ød	øD	øD1	L	L1	H max.	Collet
C6	C6-MEGA6E-60	.125 - .250 (3mm - 6mm)	.984	1.098	2.362	1.299	2.008	MEC6-□
	-75			1.161	2.953	1.890	2.598	
	-90			1.264	3.543	2.480	3.189	
	-105			1.366	4.134	3.071	3.780	
	-120			1.469	4.724	3.661	4.370	
	-135			1.575	5.315	4.252	4.961	
	-165			1.780	6.496	5.433	6.142	
	-MEGA8E-60	.125 - .250 (3mm - 8mm)	1.181	1.287	2.362	1.299	2.008	MEC8-□
	-75			1.346	2.953	1.890	2.598	
	-90			1.445	3.543	2.480	3.189	
	-105			1.555	4.134	3.071	3.780	
	-120			1.657	4.724	3.661	4.370	
	-135			1.760	5.315	4.252	4.961	
	-165			1.980	6.496	5.512	6.142	
	-MEGA10E-65	.125 - .375 (3mm - 10mm)	1.378	1.512	2.559	1.496	2.205	MEC10-□
	-75			1.539	2.953	1.890	2.598	
	-90			1.638	3.543	2.480	3.189	
	-105			1.748	4.134	3.071	3.780	
	-120			1.850	4.724	3.661	4.370	
	-135			1.969	5.315	4.331	4.961	
	-165			2.181	6.496	5.551	6.142	
	-MEGA13E-65	.125 - .500 (3mm - 12mm)	1.654	1.776	2.559	1.535	2.205	MEC13-□
	-75			1.811	2.953	1.929	2.598	
	-90			1.929	3.543	2.598	3.189	
	-105			2.024	4.134	3.150	3.780	
	-120			2.134	4.724	3.780	4.370	
	-135			2.236	5.315	4.409	4.961	
	-165			2.453	6.496	5.551	6.142	
C8	C8-MEGA6E-70	.125 - .250 (3mm - 6mm)	.984	1.110	2.756	1.181	2.756	MEC 6-□
	-90			1.209	3.543	2.165	3.543	
	-105			1.311	4.134	2.756	4.134	
	-120			1.413	4.724	3.346	4.724	
	-135			1.516	5.315	3.937	5.315	
	-165			1.717	6.496	5.079	6.496	
	-MEGA8E-70			.125 - .250 (3mm - 8mm)	1.181	1.181	2.756	
	-90	1.394	3.543			2.165	3.543	
	-105	1.496	4.134			2.756	4.134	
	-120	1.602	4.724			3.346	4.724	
	-135	1.705	5.315			3.937	5.315	
	-165	1.906	6.496			5.079	6.496	
	-MEGA10E-70	.125 - .375 (3mm - 10mm)	1.378			1.492	2.756	1.181
	-90			1.587	3.543	2.165	3.543	
	-105			1.689	4.134	2.756	4.134	
	-120			1.795	4.724	3.346	4.724	
	-135			1.898	5.315	3.937	5.315	
	-165			2.091	6.496	5.079	6.496	
	-MEGA13E-70			.125 - .500 (3mm - 12mm)	1.654	1.756	2.756	1.181
	-90	1.850	3.543			2.165	3.543	
	-105	1.953	4.134			2.756	4.134	
	-120	2.059	4.724			3.346	4.724	
	-135	2.161	5.315			5.079	5.315	
	-165	2.366	6.496			5.118	6.496	

1. Mega Nut is included. Collet and wrench must be ordered separately.
2. Designed to be capable of supplying coolant through spindle.



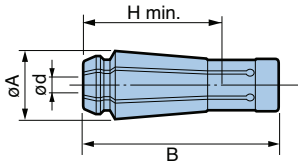
For MEGA E COLLET PG. 21



For MEGA E PERFECT SEAL PG. 22

Mega E Collet

Clamping Range: ϕ .125" - ϕ .500" (ϕ 3mm - ϕ 12mm)



- Model Description
- MEC 6 - 1/8 AA**
 - Collet Class
 - Clamping Size (in)
 - Body Size
 - Mega E Collet

MEGA6E			
	Model	Clamping Size ϕ d	H min.
INCH SIZE	MEC6-1/8AA	.125	.80
	-3/16AA	.187	1.00
	-1/4AA	.250	1.10
METRIC SIZE	MEC6-3AA	3.0	19
	-4AA	4.0	22
	-5AA	5.0	25
	-6AA	6.0	27

ϕ A= .445 B= 1.374

MEGA8E			
	Model	Clamping Size ϕ d	H min.
INCH SIZE	MEC8-1/8AA	.125	.80
	-3/16AA	.187	1.00
	-1/4AA	.250	1.10
METRIC SIZE	MEC8-3AA	3.0	19
	-4AA	4.0	22
	-5AA	5.0	25
	-7AA	7.0	29
	-8AA	8.0	31

ϕ A= .673 B= 1.799

MEGA10E			
	Model	Clamping Size ϕ d	H min.
INCH SIZE	MEC10-1/8AA	.125	.80
	-3/16AA	.187	1.00
	-1/4AA	.250	1.10
	-5/16AA	.312	1.30
METRIC SIZE	-3/8AA	.375	1.50
	MEC10-3AA	3.0	19
	-4AA	4.0	22
	-5AA	5.0	25
	-6AA	6.0	28
	-7AA	7.0	29.5
	-8AA	8.0	31
-9AA	9.0	33	
-10AA	10.0	37	

ϕ A= .555 B= 1.551

MEGA13E			
	Model	Clamping Size ϕ d	H min.
INCH SIZE	MEC13-1/8AA	.125	.80
	-3/16AA	.187	1.00
	-1/4AA	.250	1.10
	-5/16AA	.312	1.30
	-3/8AA	.375	1.50
	-7/16AA	.437	1.60
METRIC SIZE	-1/2AA	.500	1.60
	MEC13-3AA	3.0	19
	-4AA	4.0	22
	-5AA	5.0	25
	-6AA	6.0	28
	-7AA	7.0	29.5
	-8AA	8.0	31
-9AA	9.0	33	
-10AA	10.0	35	
-11AA	11.0	37	
-12AA	12.0	39	

ϕ A= .811 B= 1.886

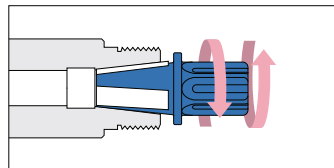
Collet Runout Accuracy

Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within .00004"	Within .00012"
	.00004"	.00012"

Use only a cutting tool shank with exactly the same diameter as collet bore diameter. The tolerance of the cutting tool shank must be within h7.

α Taper Cleaner

For cleaning the internal collet taper of Mega E Chucks.



Model	Body
SC-MEC6	MEGA6E
-MEC8	MEGA8E
-MEC10	MEGA10E
-MEC13	MEGA13E

Mega E Perfect Seal Pat.

Clamping Range: ϕ .118" - ϕ .472"

THROUGH TOOLS

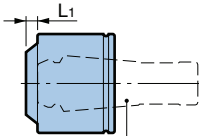
Unique design increases sealing performance with higher coolant pressure to create a "perfect seal".



• Model Description

EPS 6 - 03

- Cutter Shank Dia. Clamping Range: ϕ .118" - ϕ .472"
- Body Size
- Mega E Perfect Seal



Standard MEC Collet

MAX COOLANT PRESSURE
1,000 PSI

Through Tools



Optimum coolant supply to the cutting edge of burnishing drills and reamers with long clamping lengths.

Model	L1	Cutter Shank ϕ	Collet Model
EPS6-03	.220	.118	MEC6-3
-04	.205	.157	-4
-05		.197	-5
-06		.236	-6
EPS8-03	.252	.118	MEC8-3
-04	.236	.157	-4
-05		.197	-5
-06		.236	-6
-07		.276	-7
-08	.220	.315	-8

Model	L1	Cutter Shank ϕ	Collet Model
EPS10-03	.252	.118	MEC10-3
-04	.236	.157	-4
-05		.197	-5
-06		.236	-6
-07	.248	.276	-7
-08	.224	.315	-8
-09		.354	-9
-10		.394	-10

Model	L1	Cutter Shank ϕ	Collet Model
EPS13-03	.252	.118	MEC13-3
-04	.236	.157	-4
-05		.197	-5
-06		.236	-6
-07	.248	.276	-7
-08	.256	.315	-8
-09		.354	-9
-10		.394	-10
-11	.244	.433	-11
-12		.472	-12

1. 1 pc. of PS Ring is included.
2. For use with metric collets only. Consult BIG Kaiser engineering for use with inch collets.

PS Ring



THROUGH TOOLS

1 package contains 5 pcs. (1 size)

Replaceable seal used in Mega E Perfect Seal (Spare seal is recommended when coolant leaks due to damage of PS Ring.)

Model	EPS Model	Model	EPS Model
PS-0304	EPS□-03	PS-0708	EPS□-08
-0405	-04	-0809	-09
-0506	-05	-0910	-10
-0607	-06	-1011	-11
	-07	-1112	-12



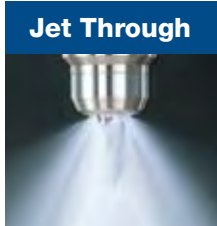
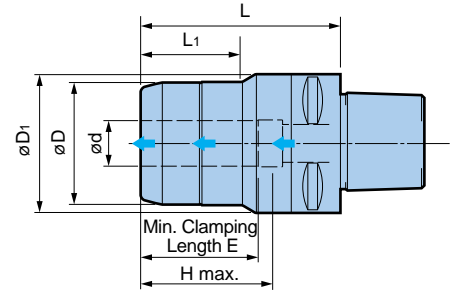
Mega Double Power Chuck

Clamping Range: \varnothing .625" - \varnothing 1.250"

High rigidity milling chuck for large diameter end mills. Dual contact nut for high rigidity.



- Model Description
C6 - **MEGA** **.625** **DS** - **3**
 - L = Projection Length (in)
 - Mega Double Power Chuck
 - Max. Capacity (in)
 - Mega Chuck Series
 - Capto Shank No.



Type DS

Jet through design for coolant to cutting tool periphery

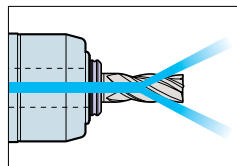
Capto	Model	\varnothing d	\varnothing D	\varnothing D1	L	L1	Min. Clamping Length E	H max.
C6	C6-MEGA.625DS-3	.625	1.81	2.16	3.09	1.02	2.09	2.48
	-MEGA.750DS-3	.750	2.16	2.19	3.09	1.42	2.20	2.68
	-MEGA1.000DS-3	1.000	2.44	2.46	3.09	1.42	2.56	2.68
	-MEGA1.250DS-3.5	1.250	2.75	2.78	3.59	1.46	2.80	3.27
C8	C8-MEGA1.250DS-3.5	1.250	3.15	2.78	3.59	1.65	2.80	3.62

1. Wrench must be ordered separately.

Sealed Collet Pat.

High Precision

For coolant-through tools

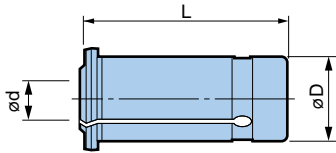


- Model Description
PSC **.750** - **1/4**
 - Inner Dia. (in)
 - Outer Dia. (in)
 - Perfect Seal Collet

Oil Hole Collet

Model	Mega DS Chuck Model
PSC.750-1/4, 3/8, 1/2, 5/8	MEGA.750DS
PSC1.25-1/2, 5/8, 3/4, 7/8, 1	MEGA1.250DS

Straight Collet (Type "C")



- Model Description
C **.75** - **1/4**
 - Internal Dia. (in)
 - External Dia. (in)
 - Straight Collet

Model	\varnothing d	\varnothing D	L
C.75-1/4	.250	.750	2.36
-5/16	.312		
-3/8	.375		
-7/16	.437		
-1/2	.500		
-9/16	.562		
-5/8	.625		
C1.00-1/4	.250	1.000	2.70
-3/8	.375		
-1/2	.500		
-5/8	.625		
-3/4	.750		

Model	\varnothing d	\varnothing D	L
C1.25-1/4	.250	1.250	2.91
-5/16	.312		
-3/8	.375		
-7/16	.437		
-1/2	.500		
-9/16	.562		
-5/8	.625		
-11/16	.687		
-3/4	.750		
-13/16	.812		
-7/8	.875		
-15/16	.937		
-1	1.000		

Mega Wrench Pat.

Firm & easy tightening by one-way clutch system with a roller bearing and ratchet function.

US Patent No.5,596,913



- Model Description
MGR **46**
 - Inner Dia. of Wrench (mm)
 - Mega Wrench

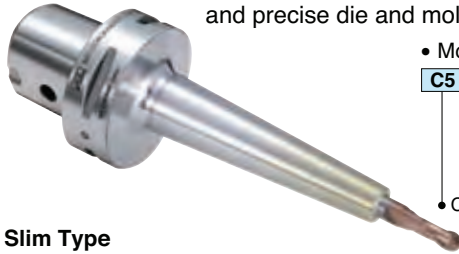
Model	\varnothing d	L	Body
MGR46	1.811	7.087	C6-MEGA.625DS
MGR55	2.165	7.874	C6-MEGA.750DS
MGR62	2.441	9.055	C6-MEGA1.000DS
MGR70	2.756	9.843	C6-MEGA1.250DS
MGR80	3.150	11.024	C8-MEGA1.250DS

Shrink Fit Holder

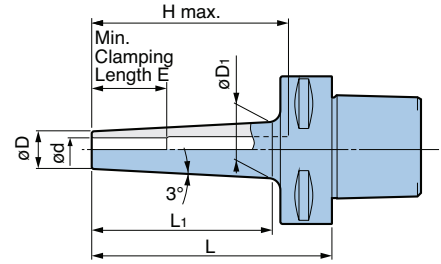
Clamping Range: $\varnothing.236'' - \varnothing.472''$

THROUGH TOOLS

Interference with workpieces and fixtures is minimized. Long projection and precise die and mold cutting are supported.



- Model Description
- C5** - **SRC** **6** **S** - **105**
- L= Projection Length (mm)
- Slim Type
- Clamping Size (mm)
- Shrink Fit Holder
- Capto Shank No.

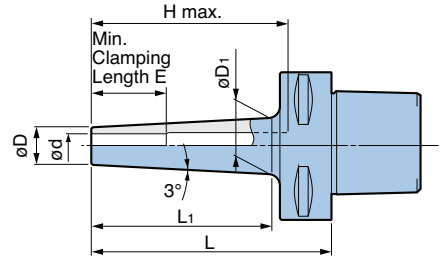


Slim Type

Capto	Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	Min. Clamping Length E	H max.
C5	C5-SRC6S-105	.236	.394	.720	4.134	3.150	1.024	3.858
	-SRC8S-105	.315	.512	.839			1.024	
	-SRC10S-105	.394	.630	.957			1.260	
	-SRC12S-105	.472	.748	1.075			1.417	
C6	C6-SRC6S-120	.236	.394	.768	4.724	3.622	1.024	4.370
	-165			.937	6.496	5.236		6.142
	-SRC8S-120	.315	.512	.886	4.724	3.622	1.024	4.370
	-165			1.055	6.496	5.236		6.142
	-SRC10S-120	.394	.630	1.004	4.724	3.622	1.260	4.370
	-165			1.201	6.496	5.315		6.142
	-SRC12S-120	.472	.748	1.122	4.724	3.622	1.417	4.370
	-165			1.299	6.496	5.315		6.142

1. Use carbide cutter with shank tolerance within h6. HSS cutter cannot be unshrunk.
2. Tools can be used for coolant through application.
3. Please refer to the manual for your shrink machine. Some machines do not support our shrink fit holders.

- Model Description
- C5** - **SRC** **6** - **75**
- L= Projection Length (mm)
- Clamping Size (mm)
- Shrink Fit Holder
- Capto Shank No.



Standard Type

Capto	Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	Min. Clamping Length E	H max.	
C5	C5-SRC6-75	.236	.551	.752	2.953	1.969	1.024	2.677	
	-SRC8-75	.315	.709	.909	2.953	1.969	1.024		
	-SRC10-75	.394	.866	1.067	2.953	1.969	1.260		
	-SRC12-75	.472	.945	1.146	2.953	1.969	1.417		
	-SRC16-75	.630	1.102	1.303	2.953	1.969	1.496		
C6	C6-SRC6-90	.236	.551	.807	3.543	2.480	1.024	3.189	
	-SRC8-90	.315	.709	.965	3.543	2.480	1.024		
	-SRC10-90	.394	.866	1.122	3.543	2.480	1.260		
	-SRC12-90	.472	.945	1.201	3.543	2.480	1.417	6.142	
	-SRC16-90	.630	1.102	1.358	3.543	2.480	1.496		3.150
	-165			1.669	6.496	5.433			3.937
	-SRC20-90	.787	1.339	1.594	3.543	2.480	1.654		4.724
-165	1.906			6.496	5.433	6.496			
C8	C8-SRC6-120	.236	.551	.898	4.724	3.346	1.024	4.724	
	-165			1.063	6.496	4.921		6.496	
	-SRC8-120	.315	.709	1.055	4.724	3.346	1.024	4.724	
	-165			1.220	6.496	4.921		6.496	
	-SRC10-120	.394	.866	1.213	4.724	3.346	1.260	4.724	
	-165			1.378	6.496	4.921		6.496	
	-SRC12-120	.472	.945	1.291	4.724	3.346	1.417	4.724	
	-165			1.457	6.496	4.921		6.496	
	-SRC16-120	.630	1.102	1.449	4.724	3.346	1.496	4.724	
	-165			1.614	6.496	4.921		6.496	
	-SRC20-120	.787	1.339	1.685	4.724	3.346	1.654	4.724	
	-165			1.850	6.496	4.921		6.496	

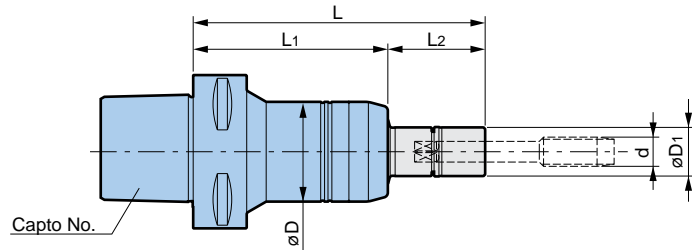
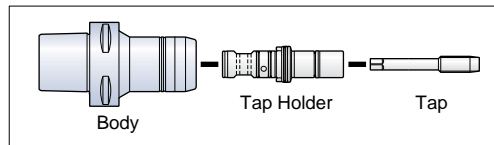
1. Use carbide cutter with shank tolerance within h6. HSS cutter cannot be unshrunk.
2. Tools can be used for coolant through application.
3. Please refer to the manual for your shrink machine. Some machines do not support our shrink fit holders.

Mega Synchro Pat. P

Tapping Range: No.2 - AU3/4

THROUGH TOOLS

Compensates for synchronization errors during rigid tapping. Improves thread quality and tool life by reducing thrust loads caused by synchronization errors up to 90%.



• Model Description

C5 - **MGT6** - **75**

- L1= Length (mm)
- Mega Synchro No.
- Capto Shank No.

Capto	Model	Tap Holder Model	Tapping Range d*	øD	øD1	L	L1	L2
C5	C5-MGT6-75	MGT6-d-1.25S	No.2 – No.12	1.417 (36mm)	.551 (14mm)	4.20	2.953 (75mm)	1.25
		-3S				5.95		3.00
		-4S				6.95		4.00
	-MGT12-75	MGT12-d-1.25	AU1/4 – AU7/16	1.614 (41mm)	.787 (20mm)	4.20	2.953 (75mm)	1.25
		-3				5.95		3.00
		-4				6.95		4.00
	-MGT20-100	MGT20-d-1.5	AU1/2 – AU3/4 AP1/8 – AP1/4	2.126 (54mm)	1.181 (30mm)	5.43	3.937 (100mm)	1.50
		-3.5				7.43		3.50
		-4.5				8.43		4.50
C6	C6-MGT6-80	MGT6-d-1.25S	No.2 – No.12	1.417 (36mm)	.551 (14mm)	4.40	3.150 (80mm)	1.25
		-3S				6.15		3.00
		-4S				7.15		4.00
	-MGT12-80	MGT12-d-1.25	AU1/4 – AU7/16	1.614 (41mm)	.787 (20mm)	4.40	3.150 (80mm)	1.25
		-3				6.15		3.00
		-4				7.15		4.00
	-MGT20-100	MGT20-d-1.5	AU1/2 – AU3/4 AP1/8 – AP1/4	2.126 (54mm)	1.181 (30mm)	5.43	3.937 (100mm)	1.50
		-3.5				7.43		3.50
		-4.5				8.43		4.50
C8	C8-MGT6-80	MGT6-d-1.25S	No.2 – No.12	1.417 (36mm)	.551 (14mm)	4.40	3.150 (80mm)	1.25
		-3S				6.15		3.00
		-4S				7.15		4.00
	-MGT12-80	MGT12-d-1.25	AU1/4 – AU7/16	1.614 (41mm)	.787 (20mm)	4.40	3.150 (80mm)	1.25
		-3				6.15		3.00
		-4				7.15		4.00
	-MGT20-95	MGT20-d-1.5	AU1/2 – AU3/4 AP1/8 – AP1/4	2.126 (54mm)	1.181 (30mm)	5.24	3.740 (95mm)	1.50
		-3.5				7.24		3.50
		-4.5				8.24		4.50

1. Tap Holder and wrench must be ordered separately.
 2. Rigid tapping function is required on the machine tool.
- * AU3/8 is included in the MGT20 series.

For TAP HOLDER PG. 26

For MEGA WRENCH PG. 26

For Mega Synchro Spare Parts and Accessories please refer to catalog EXI 163

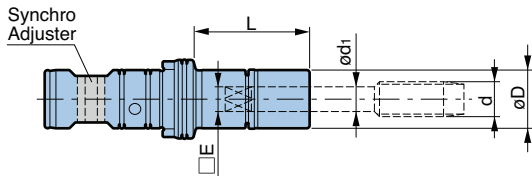
Tap Holder (MGT6, MGT12, MGT20)

THROUGH TOOLS



• Model Description (Tap Holder)

- MGT6** - **No.6** - **1.25** - **S**
- Slim Nut
 - L= Projection Length (in)
 - Thread Size
 - Mega Synchro No.

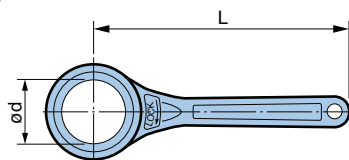


MGT Type	Tap Holder Model	Tapping Range d	ød1	□E	L			
MGT6 (øD=.472)	MGT6-No.6-1.25S	No.2 - 6	.1410	.110	1.25			
	-3S				3.00			
	-4S				4.00			
	MGT12 (øD=.787)	-No.8-1.25S	No.8	.1680	.131	1.25		
		-3S				3.00		
		-4S				4.00		
		MGT20 (øD=1.181)	-No.10-1.25S	No.10	.1940	.152	1.25	
			-3S				3.00	
			-4S				4.00	
	MGT20		-No.12-1.25S	No.12	.2200	.165	1.25	
			-3S				3.00	
			-4S				4.00	
MGT20		MGT12-AU1/4-1.25	AU1/4	.2550	.191	1.25		
		-3				3.00		
		-4				4.00		
		MGT20	-AU5/16-1.25	AU5/16	.3180	.238	1.25	
			-3				3.00	
			-4				4.00	
			MGT20	-AU7/16-1.25	AU7/16	.3230	.242	1.25
				-3				3.00
				-4				4.00
	MGT20	MGT20-AU1/2-1.5		AU1/2	.3670	.275	1.50	
		-3.5					3.50	
		-4.5					4.50	
MGT20		-AU3/8-1.5	AU3/8	.3810	.286	1.50		
		-3.5				3.50		
		-4.5				4.50		
		MGT20	-AU9/16-1.5	AU9/16	.4290	.322	1.50	
			-3.5				3.50	
			-4.5				4.50	
MGT20			-AU5/8-1.5	AU5/8	.4800	.360	1.50	
			-3.5				3.50	
			-4.5				4.50	
	MGT20	-AU11/16-1.5	AU11/16	.5420	.406	1.50		
		-3.5				3.50		
		-4.5				4.50		
MGT20		-AU3/4-1.5	AU3/4	.5900	.442	1.50		
		-3.5				3.50		
		-4.5				4.50		
	MGT20	-AP1/8-1.5	AP1/8	.4375	.328	1.50		
		-3.5				3.50		
		-4.5				4.50		
MGT20		-AP1/4-1.5	AP1/4	.5625	.421	1.50		
		-3.5				3.50		
		-4.5				4.50		

1. Nut is included. Wrench must be ordered separately.

Tap Holders with other standards such as JIS or DIN are available from stock upon request. Please contact us for order information.

Mega Wrench

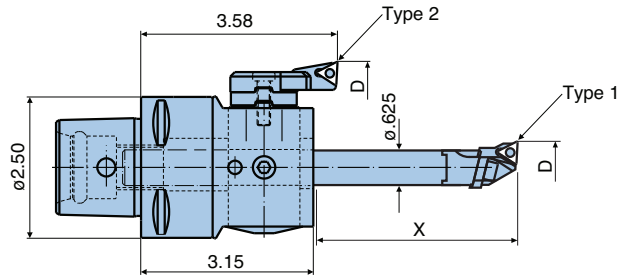


Model	ød	L	Nut
MGR14	14mm	3.54	MGN6TS
MGR20L	20mm	6.30	MGN12T
MGR30L	30mm	8.66	MGN20T

Kaiser EWN 2-50XL Finish Boring Head

Boring Range: $\varnothing 0.78"$ - $\varnothing 2.125"$
 $\varnothing 3.150"$ - $\varnothing 6.000"$

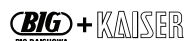
Compact, statically balanced design permits high cutting speeds, minimal projection and optimal performance.



Inch Graduated, 1 Div.= .0005"/ \varnothing . Metric heads available upon request.

Capto	Model	Boring Range	Reduction Bushing	Tool Holder	Bore Depth Max X	Exec. *	Insert Holder	Insert Geometry	Insert Screw	Boring Range D Capacity		
										Min.	Max.	
C6	10.470.118	Type 1 .078 - 2.125	10.613.524	10.611.155	.354	-	CARBIDE CUTTERS C2			.078	.138	
				10.611.156	.551	-				.118	.236	
			10.613.525	10.615.201	2.362	C	-	WC..02	10.694.101	.228	.295	
			10.613.526	10.615.202	2.559	C				.287	.374	
			10.613.527	10.615.205	3.346	C	-	-	-	.315	.461	
				10.615.207	1.968	C						
			10.613.528	10.615.211	1.377	S	10.613.524	-	-	.346	.492	
				10.615.212	2.362	C						
			10.613.529	10.615.222	2.952	C	-	-	-	.394	.500	
				10.615.206	4.133	C						
			10.613.530	10.615.208	2.755	C	10.615.272	-	TP..07	10.694.103	.464	.571
				10.615.214	1.771	S						
				10.615.215	2.755	C						
			10.613.511	10.615.223	3.543	C	-	-	-	-	.543	.650
				10.615.250	4.724	C						
		10.615.218		2.775	S							
		10.613.512	10.615.219	3.937	C	10.615.273	-	-	-	.583	.689	
			10.615.224	5.118	C							
			10.615.251	5.512	C							
		10.613.514	10.615.232	2.952	S	10.615.280	-	-	-	.622	.728	
			10.615.233	4.133	C							
			10.615.221	5.314	C							
		Type 2 3.15 - 6.00	Coolant Nozzle 10.615.236	Coolant 10.615.392	10.615.236	3.149	S	10.615.282	TC..11	10.694.122	.700	.807
					10.615.281	.780	.886					
					10.615.283	.858	.965					
					10.615.290	.937	1.004					
					10.615.288	.976	1.083					
					10.615.291	1.016	1.122					
					10.615.284	1.094	1.280					
					10.615.285	1.252	1.437					
10.615.286	1.409				1.594							
10.615.287	1.567				1.772							
10.615.292	1.764				2.125							
10.626.908	3.150				3.620							
10.626.908	3.620				4.090							
10.626.907	4.090	4.570										
10.626.909	4.570	5.040										
10.626.909	5.040	5.510										
10.626.907	5.510	6.000										

*Execution S= Steel Bar C= Carbide Bar



For entire Kaiser Boring System, please refer to catalog



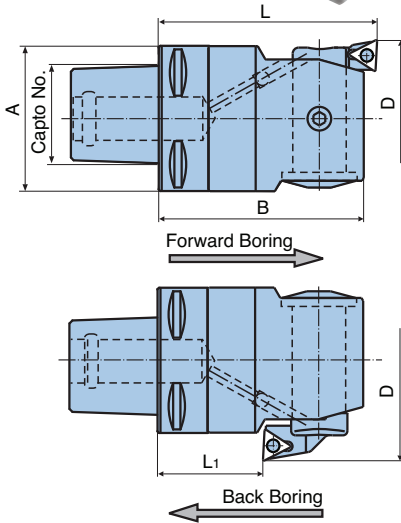
Kaiser EWN Finish Boring Head

Boring Range: $\varnothing 1.260'' - \varnothing 8.000''$

Multifunctional and balance optimised for highest precision and efficiency.



Inch Graduated, 1 Div.= .0005"/ \varnothing . Metric heads available upon request.



Capto	Model	Insert Holder	Boring Range D		Insert Geometry	Insert Screw	L	L1	A	B
			→	←						
C3	10.470.311	10.626.131	1.260	1.654	TC..11	10.694.122	2.165	.984	1.260	1.969
		10.626.132	1.614	2.008						
		10.626.133	1.969	2.362						
C4	10.470.411	10.626.141	1.614	2.126						
		10.626.142	1.969	2.480						
		10.626.143	2.402	2.913						
C5	10.470.511	10.626.151	2.087	2.756						
		10.626.152	2.559	3.228						
		10.626.153	3.071	3.740						
C6	10.470.611	10.626.161	2.677	3.937						
		10.626.162	3.700	4.961						
	10.626.163	4.646	5.906							
	10.470.612	10.626.161	3.937	6.024						
		10.626.162	4.961	7.047						
		10.626.163	5.906	8.000						

KAB Shank



Adapter for Kaiser modular tooling system.

THROUGH TOOLS

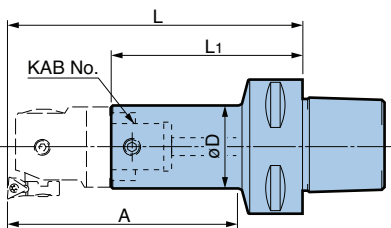
• Model Description

C5 - CKB1 - 73

L = Projection Length (mm)

• KAB No.

• Capto Shank No.



Capto	Model	KAB No.	$\varnothing D$	L	L1	A
C5	C5-CKB1-73	1	.748	4.154	2.874	3.150
	-CKB2-85	2	.945	4.744	3.346	3.780
	-CKB3-55	3	1.220	3.740	2.165	2.756
				4.724	3.150	3.740
	-CKB4-48	4	1.535	3.740	1.890	2.756
				4.724	2.874	3.740
	-CKB5-50	5	1.969	4.213	1.969	3.425
				5.512	3.268	4.724
-CKB6-50	6	2.520	4.764	1.969	3.976	
C6	C6-CKB1-78	1	.748	4.350	3.071	3.268
	-CKB2-90	2	.945	4.941	3.543	3.858
	-CKB3-65	3	1.220	4.134	2.559	3.071
				5.512	3.937	4.449
	-CKB4-58	4	1.535	4.134	2.283	3.071
				5.512	3.661	4.449
	-CKB5-48	5	1.969	4.134	1.890	3.110
				5.512	3.268	4.488
	-CKB6-59	6	2.520	5.118	2.323	4.252
				6.496	3.701	5.630
C8	C8-CKB1-103	1	.748	5.315	4.055	2.854
	-CKB2-115	2	.945	5.906	4.528	4.153
	-CKB3-125	3	1.220	6.496	4.921	5.118
	-CKB4-118	4	1.535	6.496	4.646	5.118
				8.858	7.008	7.480
	-CKB5-108	5	1.969	6.496	4.252	5.118
				9.449	7.205	8.071
	-CKB6-74	6	2.520	5.709	2.913	4.331
				9.449	6.654	8.110
	-CKB7-73	7	3.543	6.299	2.874	5.118
				8.268	4.843	7.087



For entire Kaiser Boring System, please refer to catalog

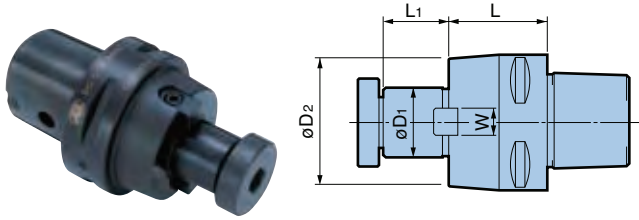
No. 307A

1. Can be used for coolant through applications.
 2. Dimensions L & A in drawing are length when it is combined with EWN head.
 3. Other sizes can be produced upon request.

Rotating Tools

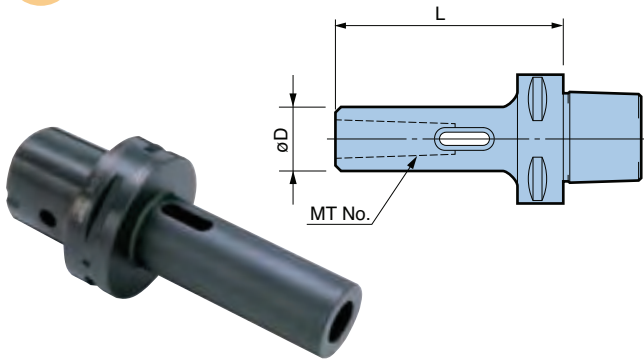
Shell Mill Adapter

THROUGH TOOLS



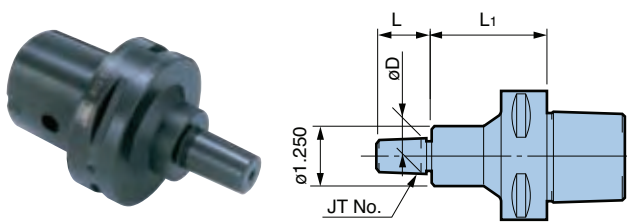
Capto	Model	øD1	øD2	L	L1	W
C6	C6-SM.750-2	.750	1.689	2.000	.689	.309
	-SM1.000-2	1.000	2.189		.689	.368
	-SM1.250-2	1.250	2.750		.689	.494
	-SM1.500-2	1.500	3.626		.937	.622

Morse Taper Holder



Capto	Model	MT No.	øD	L
C5	C5-MTA1-95	1	.984	3.740
	-MTA2-110	2	1.260	4.331
	-MTA3-130	3	1.575	5.118
C6	C6-MTA1-95	1	.984	3.740
	-MTA2-110	2	1.260	4.331
	-MTA3-130	3	1.575	5.118
C8	C8-MTA1-105	1	.984	4.134
	-MTA2-120	2	1.260	4.724
	-MTA3-140	3	1.575	5.512

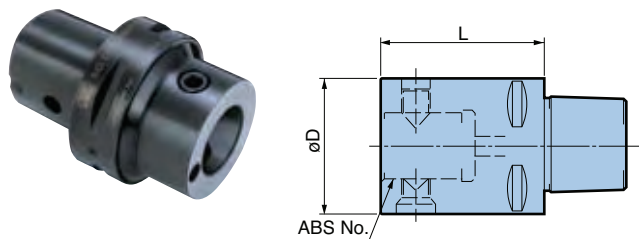
Jacobs Taper Holder



Capto	Model	JT No.	øD	L	L1
C5	C5-JTA1-40	1	.384	.591	1.575
	-JTA2-40	2	.559	.787	
	-JTA6-40	6	.676	.945	
C6	C6-JTA1-40	1	.384	.591	1.575
	-JTA2-40	2	.559	.787	
	-JTA6-40	6	.676	.945	
C8	C8-JTA1-50	1	.384	.591	1.969
	-JTA2-50	2	.559	.787	
	-JTA6-50	6	.676	.945	

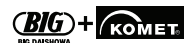
ABS Shank

THROUGH TOOLS



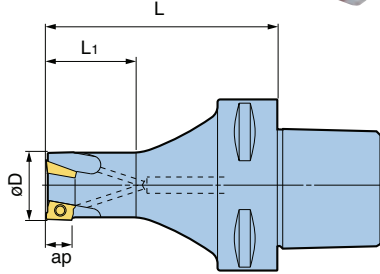
Capto	Model	ABS No.	øD	L
C5	C5-ABS50-50	50	1.969	1.969
C6	C6-ABS50-50	50	1.969	1.969
	-ABS63-60	63	2.480	2.362
C8	C8-ABS50-50	50	1.969	1.969
	-ABS63-60	63	2.480	2.362
	-ABS80-80	80	3.150	3.150

Licensed by KOMET



Fullcut Mill FCM Type

Indexable end mill with integral Capto shank. Excellent sharpness with double positive rake angles.



• Model Description

C6 - **FCM** - **.625** - **3**

- L= Length (in)
- Diameter (in)
- FCM Type
- Capto Shank No.

Model	øD	ap	L	L1	No. of Inserts	Insert Model
C6-FCM.625-3	.625		3.000	1.000	2	ARG1609□
-4			4.000	1.200		
-5			5.000	1.000		
-FCM.750-3	.750	.354	3.000	1.100	3	ARG2009□
-4			4.000	1.400		
-5			5.000	1.200		
-FCM1.000-3	1.000		3.000	1.300	3	ARG2509□
-4			4.000	1.800		
-5			5.000	1.600		
-FCM1.250-3	1.250		3.000	1.500	3	ARG3211□
-4			4.000	2.400		
-5			5.000	2.000		
-FCM1.500-3	1.500	.433	3.000	1.800	4	ARG4011□
-4			4.000	2.500		
-5			5.000	2.500		
-FCM2.000-2.5	2.000		2.500	1.400	5	ARG4011□
-4			4.000	2.500		
-5			5.000	2.500		

1. ap= Length of effective cutting edge.
2. Inserts are not included. Please order separately.

Indexable Insert

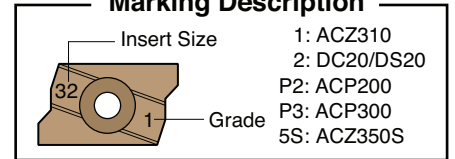


• Model Description

ARG16 **09** **02** **ACP200**

- Grade
- Nose Radius .008= 02, .016= 04
- Effective Cutting Length
ø.625-1.000= 09, ø1.250-2.000= 11
- FCM Type

Marking Description



- 1: ACZ310
- 2: DC20/DS20
- P2: ACP200
- P3: ACP300
- 5S: ACZ350S

Cutter Dia.	Insert Model	ap	Nose Radius	P		M	K	N	
				ACP200 General Steel	ACP300 Hardened Steel	ACZ350S Stainless Steel	ACZ310 Cast Iron	DC20 Aluminum	DS20 Aluminum
.625	ARG160902	.354	R0.2 (.008)		○	○	○	○	
	ARG160904		R0.4 (.016)	○	○	○		○	
.750	ARG200902	.354	R0.2 (.008)		○	○	○	○	
	ARG200904		R0.4 (.016)	○	○	○		○	
1.000	ARG250902	.354	R0.2 (.008)		○	○	○	○	
	ARG250904		R0.4 (.016)	○	○	○		○	
1.250	ARG321102	.433	R0.2 (.008)		○	○	○	○	
	ARG321104		R0.4 (.016)	○	○	○		○	
1.500 2.000	ARG401102	.433	R0.2 (.008)		○	○	○	○	
	ARG401104		R0.4 (.016)	○	○	○		○	

1. Inserts are available in packets of 10 pcs.
2. Please clarify the insert type and grade when ordering.
For example, use ordering code: ARG160902ACP200.

⚠ Caution

Fullcut Mill uses a different insert for each cutter diameter (except for dia. 1.500" and 2.000").

If an incorrect insert is used, a problem will result.

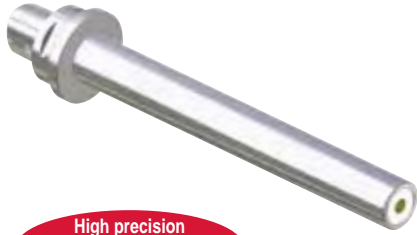
There is no compatibility with those of FCR Type.

Insert Classifications

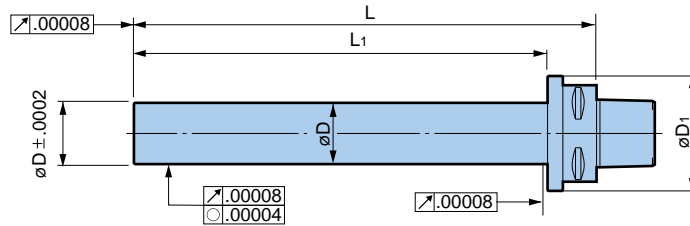
ACP300	ACP200	ACZ350S	ACZ310	DC20/DS20
For general steel and stainless steel. Ultra PVD multi-layer coating on extremely tough base prevents edge chipping and heat cracking, and provides excellent edge sharpness.	Multi-layer PVD coating on carbide base with nanoscale TiAlN & AlCrN. Excellent performance and wear resistance.	PVD multi-layer coating is given to the tough substrate and suitable for stainless steel. Excellent performance against heat combined with a strong cutting edge and long life.	For cast iron and ductile cast iron. Ultra PVD multi-layer coating on super fine grain carbide base for superior anti-abrasive properties and high resistance to mechanical shock.	For non-ferrous materials. Special diamond coating (diamond-like carbon) on K20 class carbide base achieves a high resistance to adherence and low friction.

Dyna Test Test Arbor

For maintaining the precision of your equipment to ensure a stable production environment.



High precision inspection of machine spindle accuracy



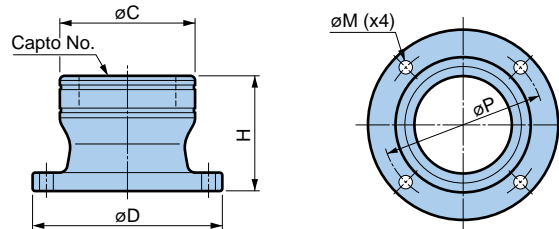
Capto	Model	øD	øD1	L	L1
C5	C5-32-150	1.260	2.480	7.087	5.906
	-215			9.646	8.465
	-40-250	1.575	11.024	9.843	
C6	C6-40-150	1.575	2.953	7.165	5.906
	-200			9.134	7.874
	-320			13.858	12.598
C8	C8-40-200	1.575	3.150	9.449	7.874
	-320			14.173	12.598

Kombi Grip Tool Fixture

Clamp and unclamp Capto tooling without damaging the tool shank surface.



Easy and safe assembly of cutting tools



Capto	Model	øC	øD	H	øP	øM
C5	KG50R	2.953	4.134	2.756	3.504	.276 (for M6)
C6	KG63R	3.465	4.862	2.953	4.154	.354 (for M8)
C8	KG80R	4.213	5.591	3.543	4.882	.354 (for M8)

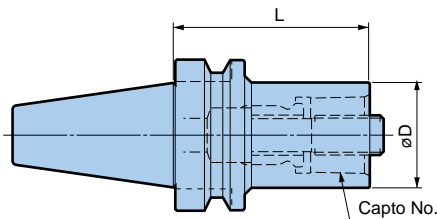
1. Mounting bolts (4 pcs) are not included. Please order separately.

Caution

Kombi Grip must be securely fixed to a bench with 4 mounting bolts before use.

BIG-PLUS® Basic Holder

High rigidity holder to use modular Capto system in MC's



Model	Capto No.	øD	L
BCV40-C5-3	C5	1.969	3.000
-C6-3.5	C6	2.480	3.500
BCV50-C5-1.5	C5	1.969	1.500
BCV50Y-C6-2	C6	2.480	2.000
BCV50Y-C8-3	C8	3.150	3.000
BBT40-C5-50	C5	1.969	1.969
-C6-75	C6	2.480	2.953
BBT50-C5-40	C5	1.969	1.575
-C6-50	C6	2.480	1.969
-C8-70	C8	3.150	2.756

1. Can be used in coolant through center applications.

Capto Cleaner

Insert and rotate inside spindle to easily clean the inner bore and spindle face.



Model
SC-C3
-C4
-C5
-C6
-C8

BIG KAISER
PRECISION TOOLING INC.

641 Fargo Ave., Elk Grove Village, IL 60007

We are moving to a larger facility. Please use address below as of 11/09.

2600 Huntington Blvd., Hoffman Estates, IL 60192-1574

Tel: 847.228.7660 • Fax: 847.228.0881

web: www.bigkaiser.com • e-mail: bigkaiser@bigkaiser.com

CATALOG No. EXI183-2-1009-1