

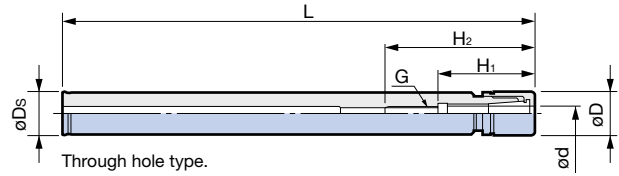
# Cylindrical Shank

CYLINDRICAL Shank

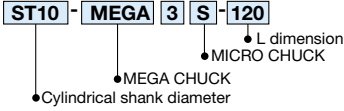


D

- Achieves high-precision machining in combination with the Mega New Baby Chuck.



● Model Description



Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_s$	L	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>ST10-MEGA3S-120</b>	0.45 - 3.25	10	10	120	22	38	M4 P0.7	NBC3S-□	0.06
<b>ST12-MEGA4S-130</b>	0.45 - 4.05	12	12	130	26.5	47	M5 P0.8	NBC4S-□	0.11
				160					0.13
<b>ST14-MEGA6S-160</b>	0.45 - 6.05	14	14	160	28.5	49	M7 P0.75	NBC6S-□	0.18
				200					0.21
<b>ST16-MEGA8S-160</b>	2.95 - 8.05	18	16	160	31	50.5	M9 P0.75	NBC8S-□	0.23
				200					0.25

1. Nut is included. Collet and wrench must be ordered separately.
2. Weight includes the nut but not the collet.

Cylindrical Shank Set

- With a set box convenient for storage



Set Contents

Model **SST12-MEGA4S-130**

- < $\varnothing 12$  shank type accessories>
- Body/ST12-MEGA4S-130 (with MGN4S nuts)
  - Micro Collet/NBC4S-3 and 4 ( $\varnothing 3, \varnothing 4$ )
  - Mega Wrench/MGR12 ● Exclusive set box

Model **SST16-MEGA8S-160**

- < $\varnothing 16$  shank type accessories>
- Body/ST16-MEGA8S-160 (with MGN8S nuts)
  - Micro Collet/NBC8S-3, 4, 6 and 8 ( $\varnothing 3, \varnothing 4, \varnothing 6, \varnothing 8$ )
  - Mega Wrench/MGR18 ● Exclusive set box

Model **SST14-MEGA6S-160**

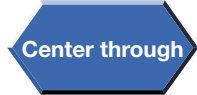
- < $\varnothing 14$  shank type accessories>
- Body/ST14-MEGA6S-160 (with MGN6S nuts)
  - Micro Collet/NBC6S-3, 4, 5 and 6 ( $\varnothing 3, \varnothing 4, \varnothing 5, \varnothing 6$ )
  - Mega Wrench/MGR14 ● Exclusive set box

Standard Accessory	Optional Accessories				
<p>MEGA NUT</p> <p>For Spares <b>G3</b></p>	<p>Mega Wrench</p> <p><b>G22</b></p>	<p>Micro Collet</p> <p><b>G2</b></p>	<p>Micro Seal Nut (For 6S and 8S)</p> <p><b>G3</b></p>	<p>Collet Case</p> <p><b>G3</b></p>	<p><math>\alpha</math> Taper Cleaner</p> <p><b>G3</b></p>

Clamping diameter:  $\phi 0.25 - \phi 20$

# MEGA NEW BABY CHUCK PAT.

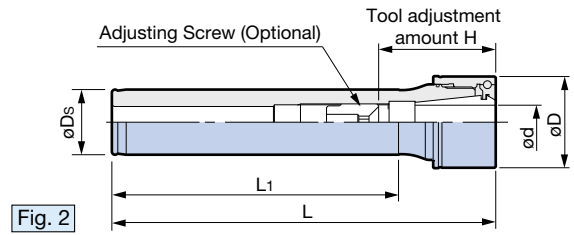
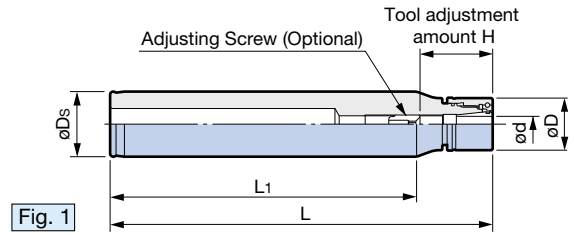
- Handles interference issues flexibly when combined with the MEGA DOUBLE POWER CHUCK.



● Model Description

**ST20 - MEGA 6 N - 100**

- L dimension
- NEW BABY CHUCK
- Maximum clamping diameter
- MEGA CHUCK
- Cylindrical shank diameter



Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_s$	L	L <sub>1</sub>	Tool adjustment amount H	Collet Model	Nut Model	Weight (kg)			
<b>ST20-MEGA 6N-100</b>	1	0.25 - 6	20	20	100	76	20 - 40	NBC 6-□	MGN 6F	0.2			
-150					150	126				0.3			
-250					250	226				0.5			
<b>-MEGA 8N-100</b>	2	0.5 - 8	25	20	100	65	23 - 42	NBC 8-□	MGN 8F	0.3			
-150					150	115				0.4			
-250					250	215				0.6			
<b>-MEGA10N-100</b>	2	1.5 - 10	30	20	100	60	35 - 45	NBC10-□	MGN10F	0.3			
-150					150	110				0.4			
-250					250	210				0.6			
<b>ST25-MEGA 6N-150</b>	1	0.25 - 6	20	25	150	116	20 - 40	NBC 6-□	MGN 6F	0.5			
<b>-MEGA 8N-150</b>					150	123				25 - 45	NBC 8-□	MGN 8F	0.5
<b>-200</b>					200	173							0.7
<b>-MEGA10N-150</b>	2	1.5 - 10	30	25	150	123	35 - 45	NBC10-□	MGN10F	0.5			
<b>-200</b>					200	173				0.7			
<b>-MEGA13N-150</b>					2	2.5 - 13				35	150	110	41 - 60
<b>-200</b>	200	160	0.7										
<b>ST32-MEGA 6N-150</b>	1	0.25 - 6	20	32	150	113	20 - 40	NBC 6-□	MGN 6F	0.8			
<b>-MEGA 8N-150</b>					150	111				23 - 42	NBC 8-□	MGN 8F	0.9
<b>-MEGA10N-150</b>					150	123							35 - 45
<b>-200</b>	200	173	41 - 60	NBC13-□	MGN13F	1.1							
<b>-MEGA13N-150</b>	2	2.5 - 13				35	150	120	0.9				
<b>-200</b>							200	170	1.1				
<b>-MEGA16N-150</b>	2	2.5 - 16	42	32	300	270	45 - 65	NBC16-□	MGN16F	1.6			
<b>-200</b>					150	110				1.0			
<b>-300</b>					200	160				1.2			
<b>-MEGA20N-150</b>	2	2.5 - 20	46	32	300	260	48 - 65	NBC20-□	MGN20F	1.7			
<b>-200</b>					150	105				1.0			
<b>-300</b>					200	155				1.3			
					300	255				1.9			

1. Nut is included (flat type). Collet, wrench, and Adjusting Screw must be ordered separately.
2. Weight includes the nut but not the collet.
3. Center through coolant supply is available.
4. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
5. **BIG** ST LOCK is available for mounting and removing tools.



Standard Accessory	Optional Accessories			
<b>MEGA NUT Flat Type</b>  For Spares	<b>Mega Wrench</b>  	<b>Collet</b>  	<b>MEGA PERFECT SEAL</b>  	<b>Adjusting Screw</b>  

Handles interference issues flexibly when combined with the NEW Hi-POWER MILLING CHUCK.

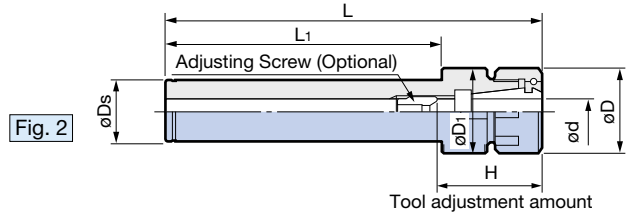
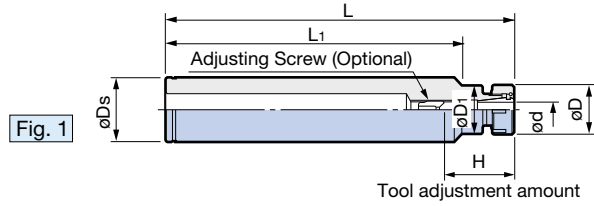
- Enables easy tool layout for horizontal machining center prone to interference with workpieces and jigs.



● Model Description

**ST20** - **NBS** **6** - **100**

- L1 dimension ※
- Maximum clamping diameter
- NEW BABY CHUCK System
- Cylindrical shank diameter



※ Note that the 3rd digit in the model number does not correspond to the L dimension (overall length).

Model	Fig.	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	$\varnothing D_s$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>ST20-NBS 6-100</b>	1	0.25 - 6	20	19.5	20	124	100	20 - 40	NBC 6-□	0.27
-150						174	150			0.39
-250 ※						274	250			0.64
<b>-NBS 8-100</b>	2	0.5 - 8	25	24.5	20	126	100	23 - 42	NBC 8-□	0.29
-150						176	150			0.41
-250 ※						276	250			0.66
<b>-NBS10-100</b>						128	100			0.32
-150						178	150			0.44
-250 ※	278	250	0.69							
-350 ※	378	350	0.93							
<b>ST25-NBS 6-150</b>	1	0.25 - 6	20	19.5	25	174	150	20 - 40	NBC 6-□	0.60
-200 ※						224	200			0.79
-250 ※						274	250			0.98
<b>-NBS 8-150</b>	2	0.5 - 8	25	24.5	25	176	150	23 - 42	NBC 8-□	0.62
-200 ※						226	200			0.81
-250 ※						276	250			1.00
<b>-NBS10-150</b>						178	150			0.65
-200 ※						228	200			0.84
-250 ※	278	250	1.03							
<b>-NBS13-150</b>	2	2.5 - 13	35	34.5	25	184	150	41 - 60	NBC13-□	0.67
-200 ※						234	200			0.86
-250 ※						284	250			1.05

1. The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.
2. Models with ※ do not have a through hole.
3. Weight includes the nut but not the collet.
4. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).
5. **BIG** ST LOCK is available for mounting and removing tools. H3

Standard Accessory	Optional Accessories				
<p>New Baby Nut</p> <p>For Spares </p>	<p>New Baby Wrench</p> <p></p>	<p>Collet</p> <p></p>	<p>BABY PERFECT SEAL</p> <p></p>	<p>Adjusting Screw</p> <p></p>	<p>Tap Adjusting Screw</p> <p></p>

Clamping diameter:  $\varnothing 0.25 - \varnothing 20$

# NEW BABY CHUCK PAT.

Collet Chuck System

Cylindrical  
**ST**  
SHANK

※ Note that the 3rd digit in the model number does not correspond to the L dimension (overall length).

Model	Fig.	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	$\varnothing D_s$	L	L <sub>1</sub>	Tool adjustment amount H	Collet Model	Weight (kg)	
<b>ST32-NBS 6-150</b>	1	0.25 - 6	20	19.5	32	174	150	20 - 40	NBC 6- □	0.96	
-200 ※						224	200			1.28	
<b>-NBS 8-150</b>						176	150	23 - 42	NBC 8- □	0.99	
-200 ※		226	200	1.30							
<b>-NBS10-150</b>		2	0.5 - 8	25		24.5	178	150	35 - 45	NBC10- □	1.02
-200 ※							228	200			1.33
<b>-250 ※</b>	278				250		1.64				
<b>-350 ※</b>	378		350	1.95							
<b>-NBS13-150</b>	2		1.5 - 10	30	29.5	184	150	41 - 60	NBC13- □	1.04	
-200 ※						234	200			1.35	
<b>-250 ※</b>		284				250	1.67				
<b>-300 ※</b>		334	300	2.30							
<b>-NBS16-150</b>		2	2.5 - 13	35	34.5	184	150	45 - 65	NBC16- □	1.05	
-200 ※						234	200			1.37	
<b>-300 ※</b>	334					300	2.00				
<b>-NBS20-150</b>	2		2.5 - 16	42	41.5	184	150	48 - 65	NBC20- □	1.05	
-200 ※						234	200			1.37	
<b>-300 ※</b>						334	300	2.00			
<b>-NBS20-150</b>	2	2.5 - 20	46	45.5	184	150	48 - 65	NBC20- □	1.05		
-200 ※					234	200			1.37		
<b>-300 ※</b>					334	300	2.00				

1. The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.
2. Models with ※ do not have a through hole.
3. Weight includes the nut but not the collet.

4. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).
5. **BIG** ST LOCK is available for mounting and removing tools. H3

NEW BABY CHUCK

Clamping diameter:  $\varnothing 6 - \varnothing 10$

# BABY CHUCK

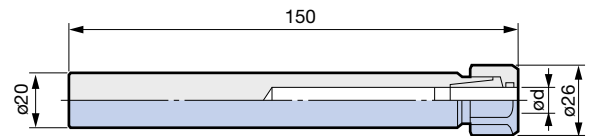
Collet Chuck System

Straight  
**ST**  
SHANK

- Small-diameter endmill holder that prevents interference.



- Model Description
- |           |           |          |          |
|-----------|-----------|----------|----------|
| <b>MB</b> | <b>20</b> | <b>-</b> | <b>6</b> |
|-----------|-----------|----------|----------|
- Clamping diameter
  - Shank diameter
  - BABY CHUCK



Model	Standard Accessory (collet with nut)	
	Model	$\varnothing d$
<b>MB20- 6</b>	<b>BC- 6</b>	6
<b>- 8</b>	<b>- 8</b>	8
<b>-10</b>	<b>-10</b>	10

1. When spare collet is required, order the collet with nut model BC-x.
2. **BIG** ST LOCK is available for mounting and removing tools.

For ST LOCK, **H3**

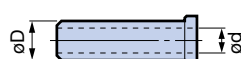
## <BABY CHUCK Set>

- Model Description
- |            |          |           |
|------------|----------|-----------|
| <b>SMB</b> | <b>-</b> | <b>20</b> |
|------------|----------|-----------|
- Shank diameter
  - BABY CHUCK Set

Model	Standard Accessory (Collet with nut)
<b>SMB-20</b>	BC-6, 8, 10

1. The set includes 3 types of collet with nut.

## <Straight Collet>



- Model Description
- |           |          |          |
|-----------|----------|----------|
| <b>C6</b> | <b>-</b> | <b>3</b> |
|-----------|----------|----------|
- Collet inner diameter
  - Collet outer diameter

Model	$\varnothing d$	$\varnothing D$	Model	$\varnothing d$	$\varnothing D$
<b>C6-3</b>	3	6	<b>C10-4</b>	4	10
<b>-4</b>	4			4	
<b>-5</b>	5			4	

For versatile high-precision machining including molds and automotive components.

**NEW**

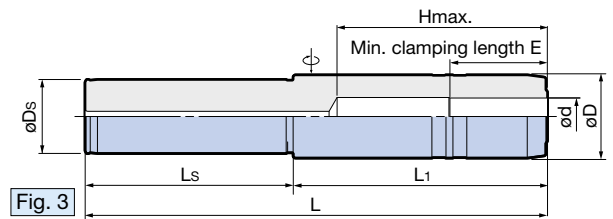
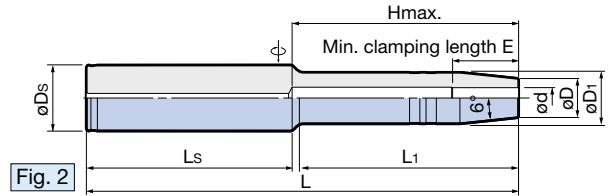
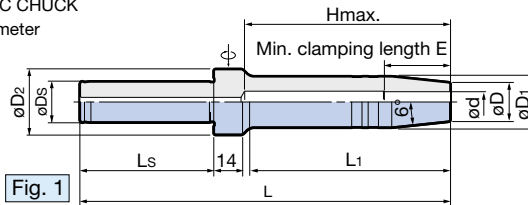
Center through

- Cylindrical shank type that prevents interference with workpieces.



● Model Description

- ST20 - HDC 4 S - 180**
- L dimension
  - SUPER SLIM Type
  - Clamping diameter
  - HYDRAULIC CHUCK
  - Cylindrical shank diameter



Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	$\phi D_2$	$\phi D_s$	L	L <sub>1</sub>	L <sub>s</sub>	H Max.	E	Weight (kg)	
<b>ST20-HDC 4S-180</b>	1	4	14	18	32	20	180	94	65	—	19	0.40	
<b>-HDC 6S-180</b>		6		20				101		25	0.43		
<b>-HDC 8S-180</b>		8	23	101				31		0.50			
<b>-HDC10S-180</b>		10	25	100				33		0.54			
<b>-HDC12S-180</b>		12	28	100				36		0.61			
<b>ST32-HDC10S-210</b>	2	10	19	25	—	32	210	106	100	110	33	0.98	
<b>-HDC12S-210</b>		12	28	108				109		36	1.06		
<b>-HDC16 -200</b>	3	16	36	—			200	110	90	91	90	43	1.27
<b>-HDC20 -200</b>		20	38	—						90		43	1.28



**Caution**

- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.
- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping length E.

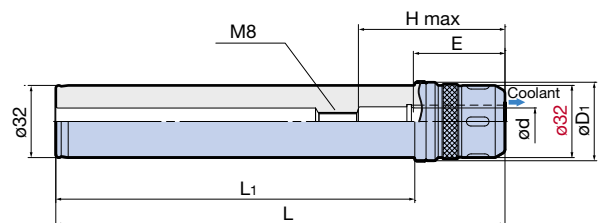
Slim milling chuck with high rigidity. Nut diameter of  $\phi 32$  avoids interference.

**NEW**

Center through



Jet Through Coolant



● Model Description

- ST32 - HMC 12 J - 120**
- L dimension
  - Jet Through Type
  - Chuck bore
  - NEW HI- POWER MILLING CHUCK
  - Cylindrical shank diameter

Model	Clamping diameter $\phi d$	$\phi D_1$	L	L <sub>1</sub>	H Max.	Min. clamping length E	Wrench Model	Weight (kg)
<b>ST32-HMC12J-120</b>	12	35	120	80	65	43	FK31-33	0.7
<b>-160</b>			160	120				0.9
<b>-200</b>			200	160				1.1

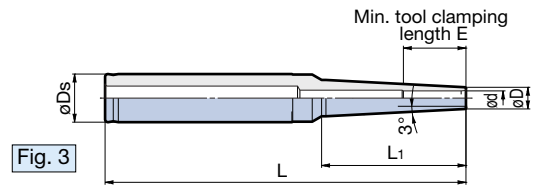
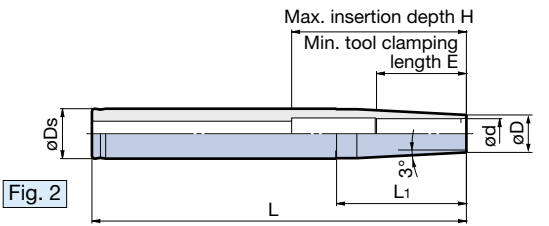
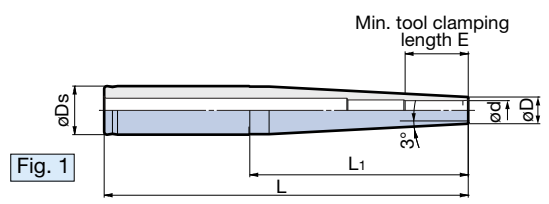
1. Wrench is not included. Please order separately.



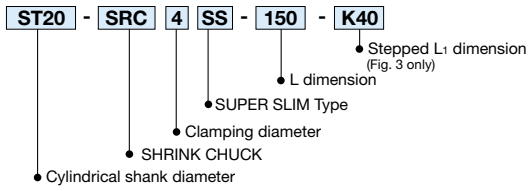
For Straight Collets, **G18**

Clamping diameter  
 **$\phi 4 -$**

Center through



● Model Description



D  
SHRINK CHUCK

**SUPER SLIM** Type

Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_s$	L	$L_1$	H	E	Weight (kg)
ST12-SRC 4SS-120 ※	1	4	7	12	120	51	—	16	0.10
-SRC 6SS-120	2	6	9			32	52	26	0.10
ST20-SRC 4SS-150-K40 ※	3	4	7	20	150	40	—	16	0.25
-SRC 6SS-150-K60						60	—	26	0.25
-200	1	6	9	20	200	110	—	26	0.30
-200-K60	3					60			0.30
-250	1					110			0.35
-250-K60	3					60			0.40
-SRC 8SS-150	1	8	11	20	150	90	—	26	0.25
-200					200				0.30
-250					250				0.40
-SRC10SS-150	2	10	13	20	150	71	60	32	0.25
-200					200				0.35
-250					250				0.40
-SRC12SS-150	2	12	15	20	150	52	70	36	0.25
-200					200				0.35
-250					250				0.45

1. Use a carbide shank cutter within a tolerance of h6.

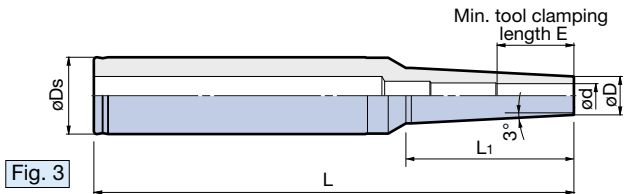
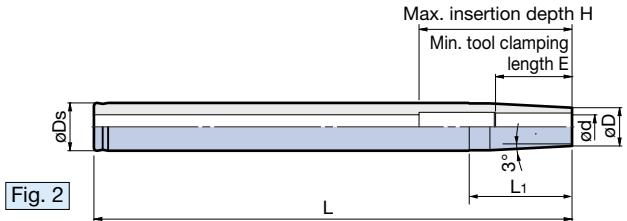
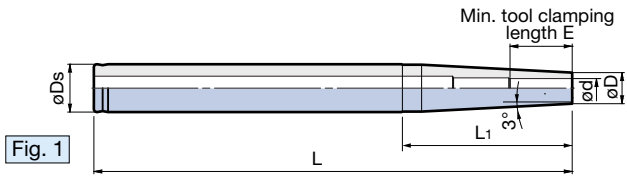
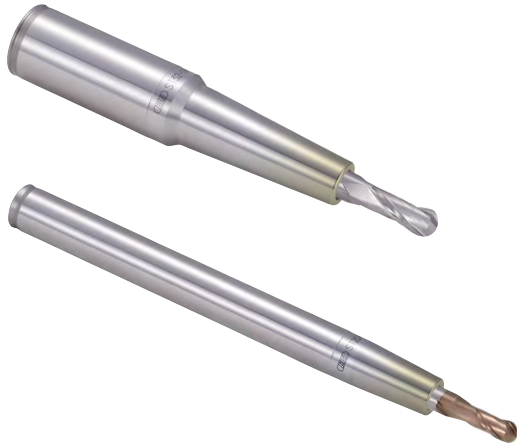
2. Center through coolant supply is available with tools with oil holes.

For ※ models, use a carbide shank with a tolerance within h5.

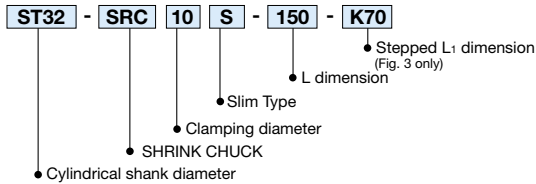
<Some shrink fit machines may not be compatible with the Shrink Chuck. Please refer to the shrink fit machine operation manual.>

Clamping diameter  
 $\varnothing 8 -$

Center through



● Model Description



**Slim Type**

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_s$	L	$L_1$	H	E	Weight (kg)
<b>ST20-SRC 8S-150</b>	1	8	13	20	150	71	-	26	0.25
-200					200				0.35
-250					250				0.45
<b>SRC10S-150</b>	2	10	16	20	150	43	60	32	0.25
-200					200				0.35
-250					250				0.45
<b>ST32-SRC10S-150-K70</b>	3	10	16	32	150	70	-	32	0.50
-200-K70					200				0.75
-300-K70					300				1.20
<b>-SRC12S-150-K70</b>	3	12	19	32	150	70	-	36	0.55
-200-K70					200				0.80
<b>-300</b>	1	12	19	32	300	129	-	36	1.20
<b>-300-K70</b>	3					70			1.25
<b>-SRC16S-150</b>	2	16	24	32	150	83	70	38	0.60
-200					200		80		0.85
-300					300		1.30		
<b>-SRC20S-150</b>	2	20	28	32	150	50	80	38	0.60
-200					200				0.85
-300					300				1.30

1. Use a carbide shank cutter within a tolerance of h6.

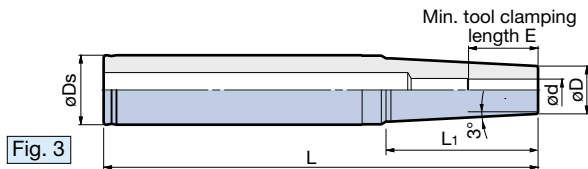
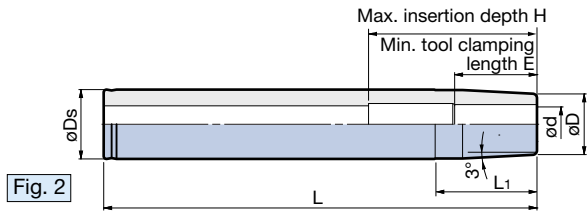
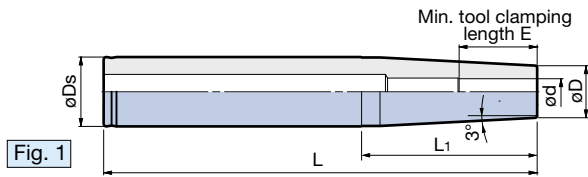
2. Center through coolant supply is available with tools with oil holes.

<Some shrink fit machines may not be compatible with the Shrink Chuck. Please refer to the shrink fit machine operation manual.>

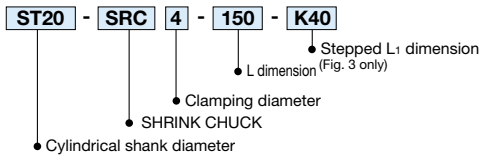


Clamping diameter  
 **$\phi 4 -$**

Center through



● Model Description



D  
SHRINK CHUCK

**Standard type**

Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_s$	L	$L_1$	H	E	Weight (kg)
<b>ST20-SRC 4-150-K40</b> ※	3	4	10	20	150	40	—	16	0.25
<b>-150-K80</b> ※						80			0.20
<b>-SRC 6-150</b>	1	6	14	20	150	62	—	26	0.30
<b>-200</b>					200				0.35
<b>-250</b>					250				0.45
<b>ST32-SRC10-150-K70</b>	3	10	22	32	150	70	—	32	0.65
<b>-200</b>	1				100	0.85			
<b>-200-K70</b>	3				200	70			0.90
<b>-300</b>	1				300	100			1.30
<b>-300-K70</b>	3				300	70			1.35
<b>SRC12-150</b>	1	12	24	32	150	81	—	36	0.65
<b>-200</b>					200				0.90
<b>-300</b>					300				1.35
<b>SRC16-150</b>	2	16	28	32	150	47	70	38	0.70
<b>-200</b>					200		0.90		
<b>-300</b>					300		80		1.35

1. Use a carbide shank cutter within a tolerance of h6.

2. Center through coolant supply is available with tools with oil holes.

For ※ models, use a carbide shank with a tolerance within h5.

<Some shrink fit machines may not be compatible with the Shrink Chuck. Please refer to the shrink fit machine operation manual.>

Improves thread quality and tap life by reducing thrust loads caused by synchronization errors up to 90%.



- Long tap holder now available as standard in addition to various tap sizes.

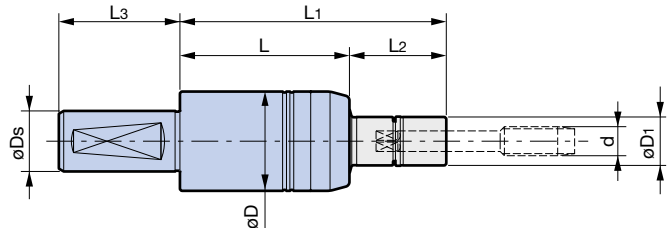
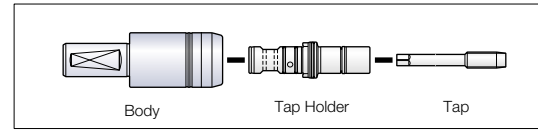


● Model Description (Body)

**ST20** - **MGT6** - **65**

● L1 dimension  
● MEGA SYNCHRO No.  
● Cylindrical shank No.

For tap holders **A122**.



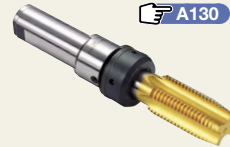
※ Use the **BIG** Side Lock Holder (TSL) **A117**

Model	Tap Holder Model	Tapping range d	øD	øD1	øDs	L	L1	L2	L3	Weight (kg)
<b>ST20-MGT 6-65</b>	MGT 6-d- 30	M2 - M6 No.3 - U1/4	36	16	20	65	95	30	40	0.5
	- 70						135	70		
	-100						165	100		
<b>ST25-MGT12-70</b>	MGT12-d- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	25	70	100	30	50	0.8
	- 70						140	70		
	-100						170	100		
<b>ST32-MGT20-90</b>	MGT20-d- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	32	90	125	35	55	1.5
	- 85						175	85		
	-115						205	115		

- MGT Set Screw is included.
- Tap holder and wrench are not included. Please order separately.

Cannot be used with machining center without synchronized tapping function.

**SYNCHRONIZED TAP HOLDER STD52**  
M39 - M52



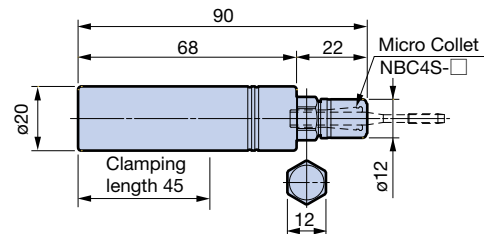
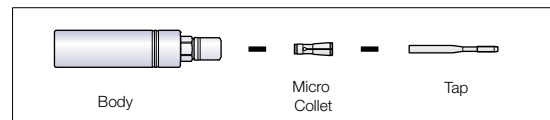
For Mega Wrench. **A126**

### [Small Diameter Tap MGT3] M1 - M3



Model **ST20-MGT3-90**

- Nut is included, but wrench and collet are not. Please order separately.
  - When attaching or detaching the tap, a commercially available flat wrench (12mm width) is also required. Prepare this on your own.
- Cannot be used with machining center without synchronized tapping function.
  - Cannot be used with center through.



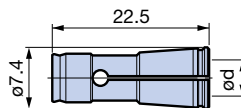
### ● Mega Wrench



Model **MGR12**

- When attaching or detaching the tap, a commercially available flat wrench (12mm width) is also required. Prepare this on your own.

### ● Micro Collet



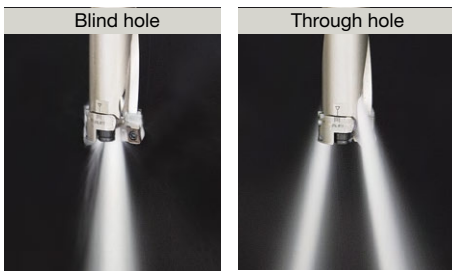
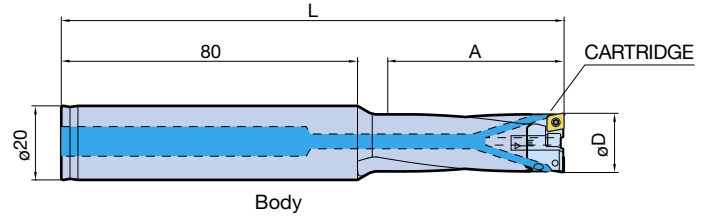
Model	Tapping range		Tap shank diameter ød
	Metric	Unify	
<b>NBC4S - 3.0AA</b>	M1 - M2.6	No.0 - 4	3
<b>NBC4S - 4.0AA</b>	M3	No.5, 6	4

Diameter:  $\phi 16 - \phi 21$ **CK BORING SYSTEM****MW BORING HEAD** (for roughing)

Center through

Achieves high efficiency small diameter rough boring with 2 inserts.

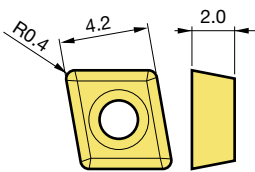
- Designed with versatile  $\phi 20$  cylindrical shank.



Threads for plug screws are prepared in the coolant holes to change the coolant directions.

Diameter $\phi D$	Model	Cartridge Model	L	Effective boring depth A
16 - 19	<b>ST20-MW1619-45</b>	<b>MW1619E</b>	136	45
	<b>-60</b>		151	60
18 - 21	<b>-MW1821-50</b>	<b>MW1821E</b>	141	50
	<b>-65</b>		156	65

1. Insert clamp screw and wrench are included.
2. Inserts must be ordered separately.

● **Insert** (optional)

Workpiece material	Insert Model	Materials
Steel/Stainless steel	<b>MW0404F Z30P</b>	P30 equivalent carbide substrate TiAlN + AlCrN coating
Cast iron/Ductile	<b>MW0404S Z30K</b>	K20 equivalent carbide substrate TiAlN + AlCrN coating
Non-ferrous metal/Aluminum	<b>MW0404E D15N</b>	K15 equivalent carbide substrate DLC coating

1. Inserts sold in packets of 10 pcs.  
Example: MW0404F Z30P... 10 pcs

● **Insert Clamping Screw Set** (optional)

Set Model	Thread size	Wrench
<b>S1.6S-T6</b>	M1.6 x 4.2	FA-T6

1. The set contains ten screws and a wrench.  
※ Wrenches are also available separately.

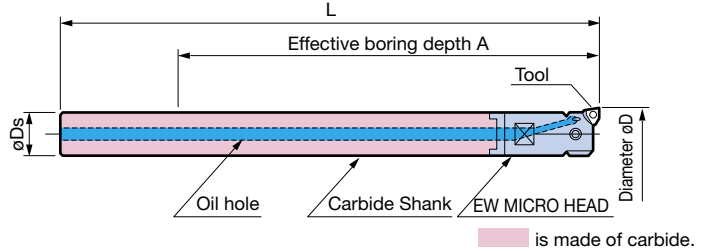
With Carbide Shank

EW MICRO HEAD Diameter:  $\phi 15 - \phi 22$

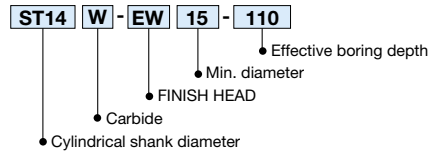


Smaller head while maintaining popular  $\phi 0.01\text{mm/div.}$  adjusting mechanism.

- Adjustment with only micro-quill eccentricity preserves high speed capability.
- The solid carbide cylindrical shank allows high-rigidity boring.



● Model Description



Model	$\phi D_s$	Diameter $\phi D$	L	A	Tool Model	Insert	Insert Clamping Screw Set
ST14W-EW15-110	14	15 - 18	151	110	EN15	WC02	S2S-B
			181	140			
ST16W-EW18-100	16	18 - 22	144	100			
			204	160			

**Caution** -  
The maximum boring depth differs depending on the workpiece material.

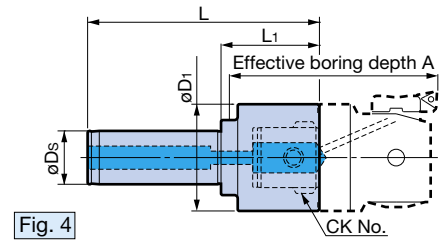
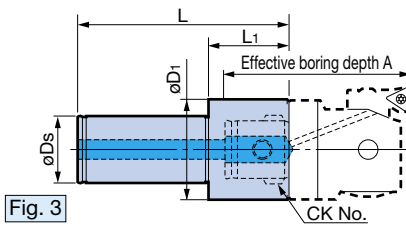
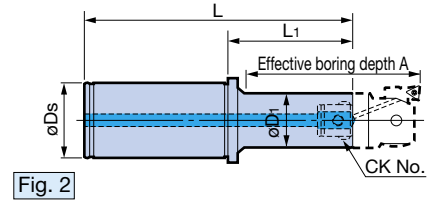
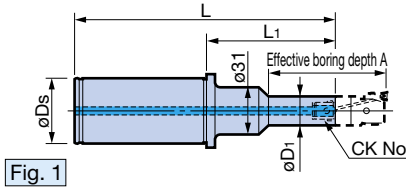
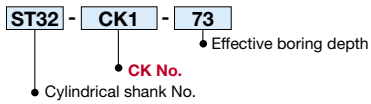
1. The carbide shank and micro head are integrated and cannot be sold separately.
2. Inserts must be ordered separately.



**CK Cylindrical Shank**

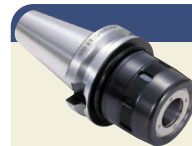


● Model Description



Model	Fig.	CK No.	$\phi D_1$	$\phi D_s$	L	$L_1$	A	Weight (kg)
ST32-CK1- 73	1	CK1	19	32	157	77	73	0.7
-CK2-100	2	CK2	24		152.5	72.5	100	0.7
-CK3-100		CK3	31		149	69		0.8
-CK4-100	3	CK4	39		138	58	0.9	
-CK5-100	4	CK5	50		128	48	0.9	
-CK6-125		CK6	64		139	59	125	1.5
ST42-CK1- 73	1	CK1	19	42	157	77	73	1.0
-CK2-100	2	CK2	24		152.5	72.5	100	1.0
-CK3-100		CK3	31		149	69		1.1
-CK4-100	3	CK4	39		143	63	1.2	
-CK5-100		CK5	50		128	48	1.3	
-CK6-125	4	CK6	64		139	59	125	1.8

1. Head and insert must be ordered separately.



For chucking

When using a cylindrical shank tool, we recommend

**BIG** NEW Hi- POWER MILLING CHUCK for its high accuracy and rigidity.

For details, A29

Diameter:  $\phi 20$  -  $\phi 60$

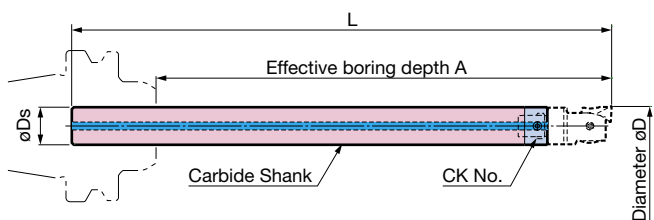
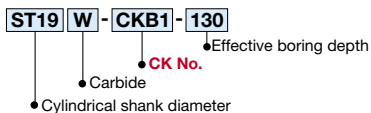
# CK BORING SYSTEM

## CK Carbide Cylindrical Shank

- The solid carbide bar realizes efficient deep hole boring which was conventionally impossible.



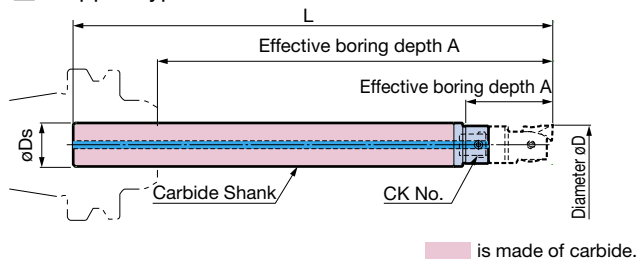
### Model Description



Model	CK No.	$\phi D_s$	Diameter $\phi D$	L	A
<b>ST19W-CKB1-130</b>	CK1	19	20 - 36	172.5	130
				222.5	180
				272.5	230
<b>ST24W-CKB2-150</b>	CK2	24	25 - 47	195.5	150
				255.5	210
				325.5	280
<b>ST31W-CKB3-160</b>	CK3	31	32 - 60	240	160
				320	240
				390	310

Refer to the remarks in the table below.

### Stepped type



is made of carbide.

Model	CK No.	$\phi D_s$	Diameter $\phi D$	L	A
<b>ST22W-CKB1-45 / 200</b>	CK1	22	20 - 22	242.5	45
			22 - 36		200
<b>ST28W-CKB2-55 / 235</b>	CK2	28	25 - 28	280.5	55
			28 - 47		235

- The L and A dimensions in the table are the reference values when EWN BORING HEAD is attached.
- Head and inserts are not included.

For heads, **A39**

**Caution** - The maximum boring depth differs depending on the workpiece material.

## Other Cylindrical Shank Products

### MEASURING TOOLS



Touch Probe & Edge Finder  
**Compact Sensor Series**

Flexible  
arm stand



Locks securely with  
powerful cam mechanism  
**Accu Stand**

### CUTTING TOOLS

Ultra High Feed  
Chamfer Mill



Smaller diameter for  
higher feed rate  
**C-CUTTER MINI**

Wide Range  
Chamfering Tool



High-efficiency chamfering cutter capable  
of covering wide range with 1 tool  
**C-Cutter**



Ultra-small diameter allows both front  
and back chamfering on complex  
workpieces!  
**C-CUTTER MICRO**

R-CUTTER



Automated rounded chamfering  
**R-Cutter**

Chamfering Tool  
for Drilling Machine



Carbide guide eliminates chatter  
**C-CUTTER BOY**



Centering +  
chamfering tool  
Simultaneous centering and  
chamfering before drilling.  
**CENTER BOY**

Back spot facing tool



Optimal design that  
matches cap bolt size  
**BF-CUTTER**

Back spot facing tool



Achieves automatic back spot facing  
in machining centers  
**Automatic Back Spot Facer**

Indexable  
Insert Endmill



Low cutting resistance!  
High-efficiency endmill cutter.  
**FULLCUT MILL  
FCR/FCM**

OTHER TOOLS