

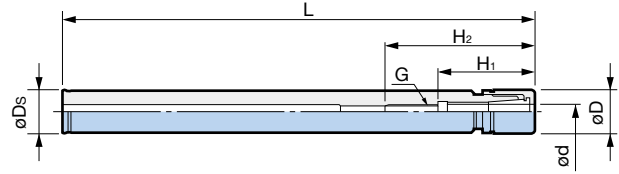
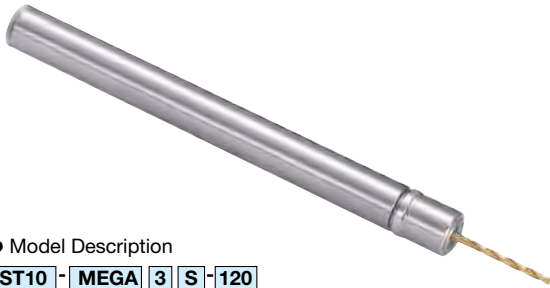
# CYLINDRICAL SHANK

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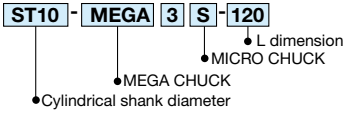
■ COLLET CHUCK.....	D1
■ MILLING CHUCK .....	D5
■ HYDRAULIC CHUCK .....	D6
■ SHRINK CHUCK.....	D7
■ CK BORING SYSTEM .....	D8
■ TAPPER .....	D11

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

Center through



● Model Description



Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_s$	L	$H_1$	$H_2$	G	Collet Model	Weight (kg)
<b>ST10-MEGA3S-120</b>	0.45 - 3.25	10	10	120			M4 P0.7	NBC3S-□	0.06
<b>ST12-MEGA4S-130</b> <b>-160</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> <b>-200</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> <b>-200</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**

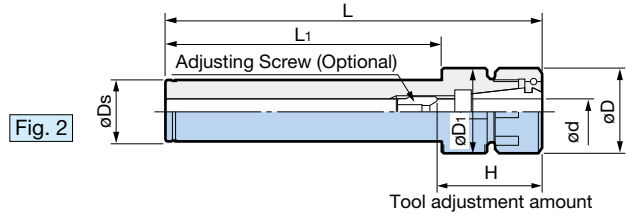
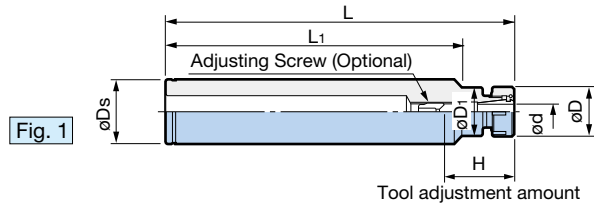
- < $\varnothing 14$  shank type accessories>
- Body/ST14-MEGA6S-160 (with MGN6S nuts)
  - Micro Collet/NBC6S-3, 4, 5 and 6 ( $\varnothing 3, \varnothing 4, \varnothing 5, \varnothing 6$ )
  - Mega Wrench/MGR14 ● Exclusive set box

Standard Accessory	Optional Accessories				
<p>MEGA NUT</p> <p>For Spares </p>	<p>Mega Wrench</p> <p></p>	<p>Micro Collet</p> <p></p>	<p>Mega Micro Seal Nut (for 6S and 8S) Mega Micro Coolant Nut (for 6S)</p> <p></p>	<p>Collet Case</p> <p></p>	<p>Adjusting Screw</p> <p></p>

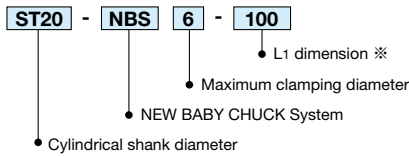
Handles interference issues flexibly when combined with the NEW Hi-POWER MILLING CHUCK.

Center through

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



● Model Description



※ 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		126	100	23 - 42	NBC 8-□	0.29						
-150						176	150			0.41						
-250						276	250			0.66						
<b>-NBS10-100</b>						2	1.5 - 10			30	29.5	128	100	35 - 45	NBC10-□	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
-NBS 8-150						176	150	0.62								
-200						226	200	0.81								
-250	2	0.5 - 8	25	24.5		276	250	23 - 42	NBC 8-□	1.00						
<b>-NBS10-150</b>						178	150			0.65						
-200						228	200			0.84						
-250						278	250			1.03						
-NBS13-150						2	2.5 - 13			35	34.5	184	150	41 - 60	NBC13-□	0.67
-200	234	200	0.86													
-250	284	250	1.05													

- The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.
- Weight includes the nut but not the collet.

- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).

- BIG** ST LOCK is available for mounting and removing tools. H4

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>

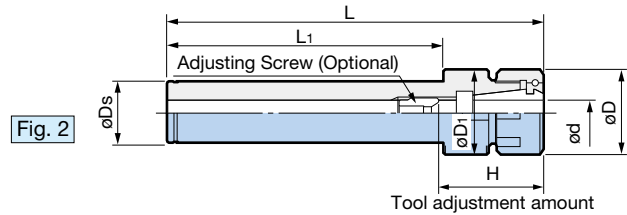
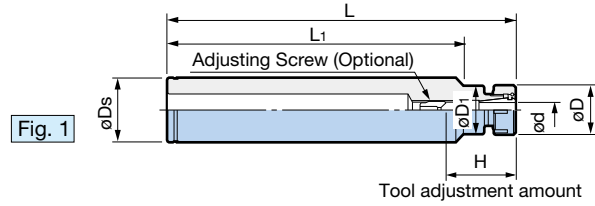
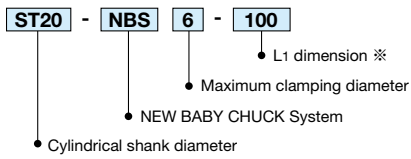
Handles interference issues flexibly when combined with the NEW Hi-POWER MILLING CHUCK.

Center through

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



● Model Description



※ 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>ST32-NBS 6-150</b>	1	0.25 - 6	20	19.5	32	174	150	20 - 40	NBC 6- □	0.96				
<b>-NBS 8-150</b>		0.5 - 8	25	24.5		176	150	23 - 42	NBC 8- □	0.99				
<b>-NBS10-150</b>		1.5 - 10	30	29.5		178	150	35 - 45	NBC10- □	1.02				
<b>-200</b>						228	200			1.33				
<b>-250</b>						278	250			1.64				
<b>-350</b>						378	350			1.95				
<b>-NBS13-150</b>	2	2.5 - 13	35	34.5	184	150	41 - 60	NBC13- □	1.04					
<b>-200</b>					234	200			1.35					
<b>-250</b>					284	250			1.67					
<b>-300</b>					334	300			2.30					
<b>-NBS16-150</b>					2.5 - 16	42			41.5	184	150	45 - 65	NBC16- □	1.05
<b>-200</b>										234	200			1.37
<b>-300</b>	334	300	2.00											
<b>-NBS20-150</b>	2.5 - 20	46	45.5	184			150	48 - 65		NBC20- □	1.05			
<b>-200</b>				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. Weight includes the nut but not the collet.

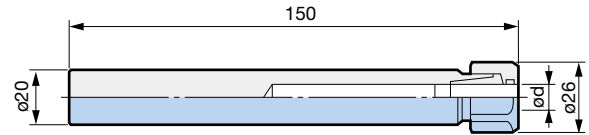
3. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).

4. **BIG** ST LOCK is available for mounting and removing tools. H4

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:  $\phi 6 - \phi 10$ **BABY CHUCK****ST**  
SHANK

- Small-diameter endmill holder that prevents interference.



## ● Model Description

- MB** - **20** - **6**
- Clamping diameter
  - Shank diameter
  - BABY CHUCK

Model	Standard Accessory (collet with nut)	
	Model	$\phi d$
<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.



## ■ BABY CHUCK Set

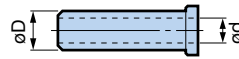
## ● Model Description

- SMB** - **20**
- 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

- C6** - **3**
- Collet inner diameter
  - Collet outer diameter

Model	$\phi d$	$\phi D$
<b>C6-3</b>	3	6
<b>-4</b>	4	
<b>-5</b>	5	

Model	$\phi d$	$\phi D$
<b>C10-4</b>	4	10

D

COLLET CHUCK

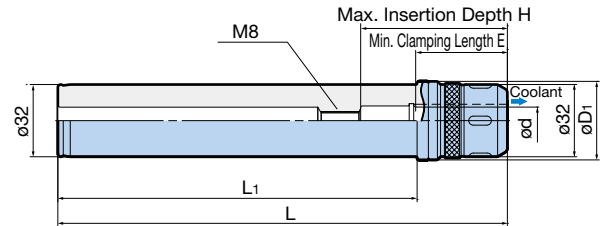


[HMC12J Type]

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



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 $\varnothing d$	$\varnothing D_1$	L	L <sub>1</sub>	H	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.
2. MEGA WRENCH cannot be used.



Optional Accessories	
<p>Straight Collet</p>  <p>PJC Collet G25</p>	<p>Wrench</p>  <p>G30</p>

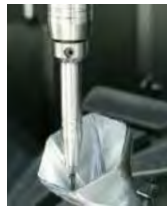
D  
MILLING CHUCK

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

Center through

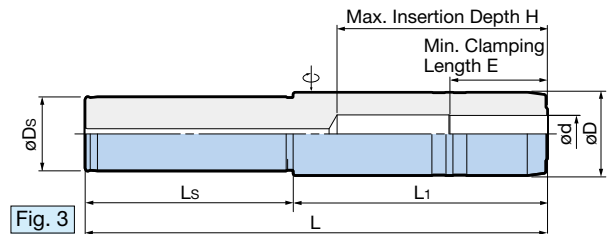
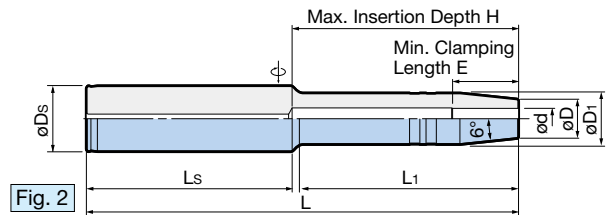
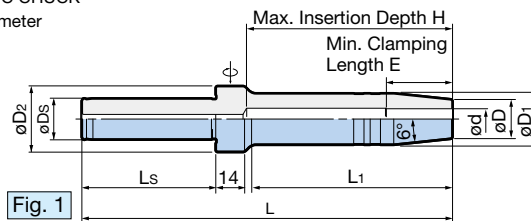
- Cylindrical shank type that prevents interference with workpieces.

[Super Slim Type]



● 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	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				25			0.43	
<b>-HDC 8S-180</b>		8	23	31				0.50				
<b>-HDC10S-180</b>		10	25	33				0.54				
<b>-HDC12S-180</b>		12	28	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	109				36		1.06		
<b>-HDC16 -200</b>	3	16	36	—	—	32	200	110	90	91	43	1.27
<b>-HDC20 -200</b>		20	38	90				43		1.28		

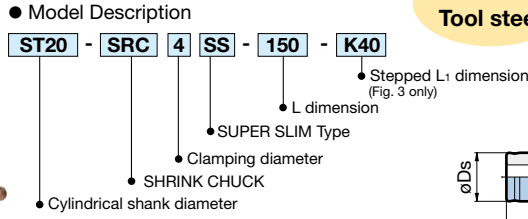
1. Adjusting Screw cannot be used.

- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. G30

**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.

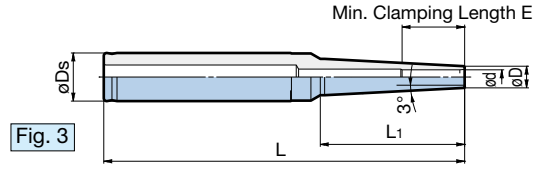
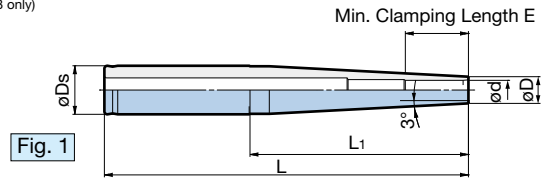
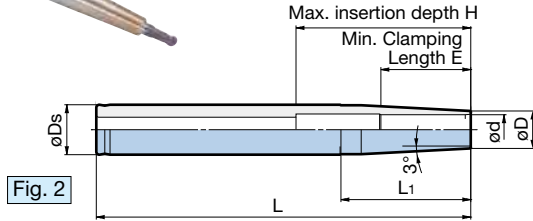
[SUPER SLIM Type] Clamping diameter:  $\phi 4 - \phi 12$



Holder material  
**Tool steel**

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

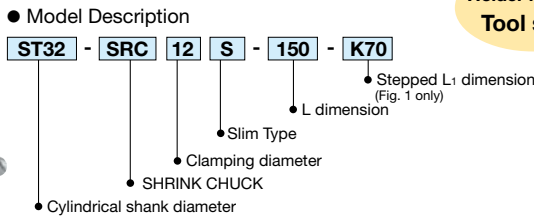
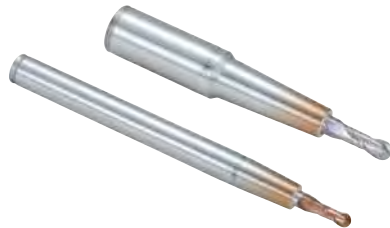
Center through



Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_s$	L	L <sub>1</sub>	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		150	60	—	26	0.25			
-200	1	6	9	20	200	110	—	26	0.30
-250					250				0.35
-SRC 8SS-150					150				—
-200	1	8	11	20	200	90	—	26	0.30
-250					250				0.40
-SRC10SS-150					150				—
-200	2	10	13	20	200	71	60	32	0.35
-250					250				0.40
-SRC12SS-150					150				—
-200	2	12	15	20	200	52	70	36	0.35
-250					250				0.45

- Use a carbide shank cutter within a tolerance of h6.  
For models marked with ※, use a carbide shank with a tolerance within h5.
  - 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.>

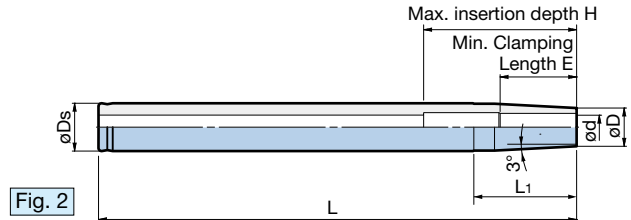
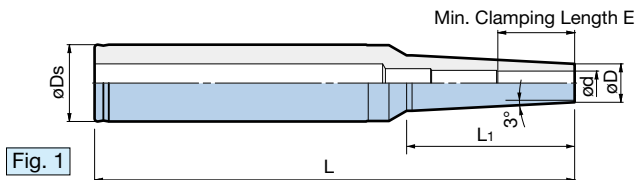
[Slim Type] Clamping diameter:  $\phi 12 - \phi 20$



Holder material  
**Tool steel**

Clamping diameter  
 **$\phi 12 -$**

Center through



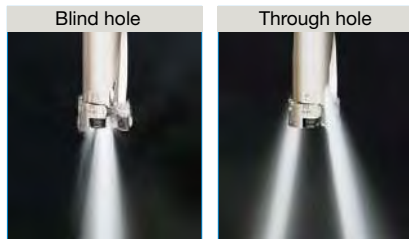
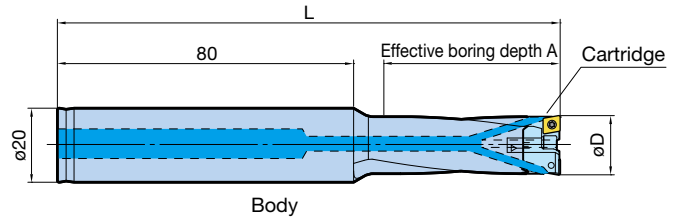
Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_s$	L	L <sub>1</sub>	H	E	Weight (kg)
ST32-SRC12S-150-K70	1	12	19	32	150	70	—	36	0.55
-200-K70					200				0.80
-300-K70					300				1.25
-SRC16S-150	2	16	24	32	150	83	70	38	0.60
-200					200		80		0.85
-300					300		1.30		
-SRC20S-150	2	20	28	32	150	50	80	38	0.60
-200					200				0.85
-300					300				1.30

- Use a carbide shank cutter within a tolerance of h6.
  - 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.>



**MW BORING HEAD PAT.** (for roughing)

Achieves high efficiency small diameter rough boring with 2 inserts.



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

Diameter $\phi D$	Model	Cartridge Model	L	A	Spare Clamp Bolt Set	Spare Belleville Spring(4pcs)	Weight (kg)
16 - 19	<b>ST20-MW1619-45</b>	<b>MW1619E</b>	136	45	MW16SS	MW16BS	0.24
	<b>-60</b>		151	60			0.26
18 - 21	<b>-MW1821-50</b>	<b>MW1821E</b>	141	50			0.26
	<b>-65</b>		156	65			0.28

Cartridge models are a 2-piece set.

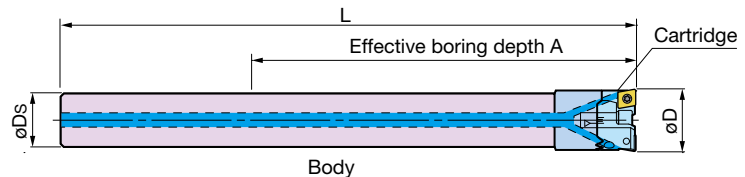
Cutting Conditions **A49**

Spare parts **A101**

1. Clamp Bolts and Belleville Springs are included with the body. However, cartridges are not included and must be ordered separately.
2. Cartridge includes insert clamping screws and wrench.
3. The weight is that of the body and cartridge combined.
4. Inserts must be ordered separately.
5. The spare Clamp Screw Set contains two clamping screws and two washers.

**[Carbide shank type]** **NEW**

- Carbide shank for enhanced deep hole boring performance (for through-hole)



is made of carbide.



Diameter $\phi D$	Model	Cartridge Model	$\phi D_s$	L	A	Spare Clamp Bolt Set	Spare Belleville Spring(4pcs)	Weight (kg)
16 - 19	<b>ST14W-MW16-110</b>	<b>MW1619E</b>	14	151	110	MW16SS	MW16BS	0.36
18 - 21	<b>ST16W-MW18-115</b>	<b>MW1821E</b>	16	172	115			0.54

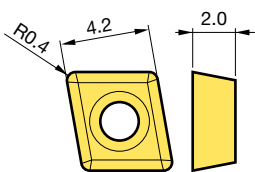
Cartridge models are a 2-piece set.

Cutting Conditions **A49**

Spare parts **A101**

1. Clamp Bolts and Belleville Springs are included with the body. However, cartridges are not included and must be ordered separately.
2. Cartridge includes insert clamping screws and wrench.
3. The weight is that of the body and cartridge combined.
4. Inserts must be ordered separately.
5. The carbide shank and boring head are integrated and cannot be sold separately.
6. **Exclusive for use with through holes. Do not use it with blind holes.**
7. The spare Clamp Screw Set contains two clamping screws and two washers.

**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 sold individually.

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.

For finishing

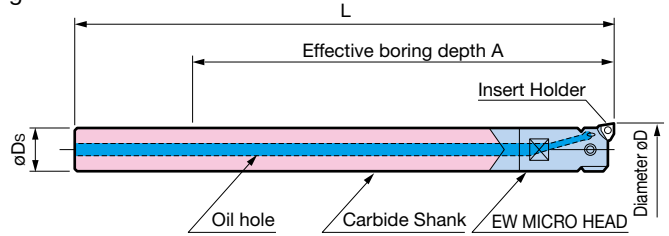
Carbide

Center through



EW15 Type

EW18 Type



● Model Description

**ST14** **W** - **EW** **15** - **110**

- Effective boring depth
- Min. diameter
- FINISH HEAD
- Carbide
- Cylindrical shank diameter

is made of carbide.

Model	$\phi D_s$	Diameter $\phi D$	L	A	Insert Holder	Insert	Insert Clamping Screw Set	Weight (kg)
<b>ST14W-EW15-110</b>	14	15 - 18	151	110	EN15	WC02	S2S-B	0.10
<b>-140</b>			181	140				0.29
<b>ST16W-EW18-100</b>	16	18 - 22	144	100				0.28
<b>-160</b>			204	160				0.43

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

Spare parts **A102**



A91



A99

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

EWN04-7/EWN04-15 BORING HEAD Diameter:  $\phi 1 - \phi 15$

- Micro-boring head with outer diameter of  $\phi 18.5\text{mm}$  (EWN04-7).
- $0.01\text{mm/scale}/\phi 2\mu\text{m}$  ultra-precision vernier.

Center through

MAX.  
**30,000** $\text{min}^{-1}$

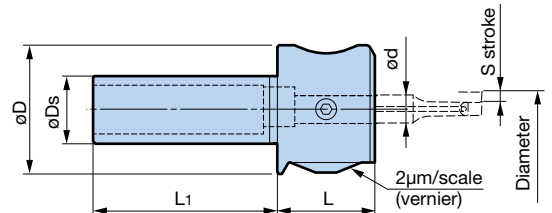
For finishing



● Model Description

**EWN** **04** - **7** **ST10**

- Cylindrical shank No.
- Diameter
- FINISH BORING HEAD



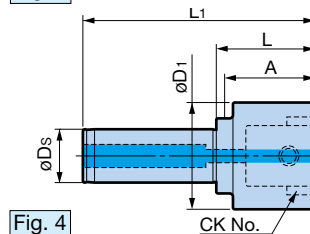
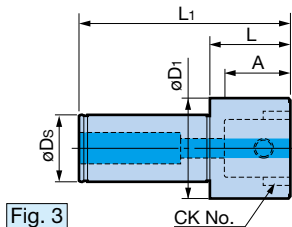
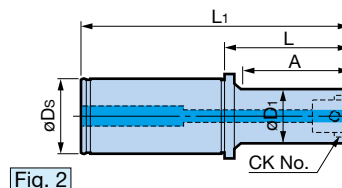
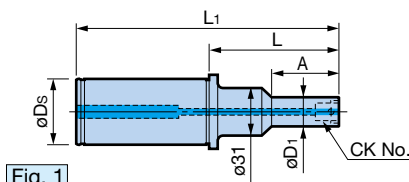
Model	Diameter	$\phi D$	$\phi D_s$	$\phi d$	L	L <sub>1</sub>	S	Max. spindle speed	Weight(kg)
<b>EWN04- 7ST10</b>	1.0 - 7	18.5	10	4	14	25	-0.1 - +1.05	30,000	0.04
<b>EWN04-15ST16</b>	1.0 - 15	30	16	7	22	34	-0.2 - +2.0	20,000	0.13

1. Center through coolant supply is available.

Cylindrical Tool for EWN04 **A61**

Spare parts **A103**

## CK Cylindrical Shank



Center through

### Model Description

**ST32** - **CKB1** - **77**  
 • L dimension  
 • CK No.  
 • Cylindrical shank No.

Model	Fig.	CK No.	øD1	øDs	L	L1	A	Weight (kg)
<b>ST32-CKB1- 77</b>	1	CK1	19	32	77	157	41	0.7
<b>-CKB2- 73</b>	2	CK2	24		72.5	152.5	64	0.7
<b>-CKB3- 69</b>		CK3	31		69	149	63	0.8
<b>-CKB4- 58</b>	3	CK4	39		58	138	(53)	0.9
<b>-CKB5- 48</b>	4	CK5	50		48	128	(43)	0.9
<b>-CKB6- 59</b>		CK6	64		59	139	(54)	1.5
<b>ST42-CKB1- 77</b>	1	CK1	19	42	77	157	40	1.0
<b>-CKB2- 73</b>	2	CK2	24		72.5	152.5	62	1.0
<b>-CKB3- 69</b>		CK3	31		69	149	59	1.1
<b>-CKB4- 63</b>	3	CK4	39		63	143	57	1.2
<b>-CKB5- 48</b>	4	CK5	50		48	128	(43)	1.3
<b>-CKB6- 59</b>		CK6	64		59	139	(54)	1.8



### For chucking

When using a cylindrical shank tool, we recommend

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

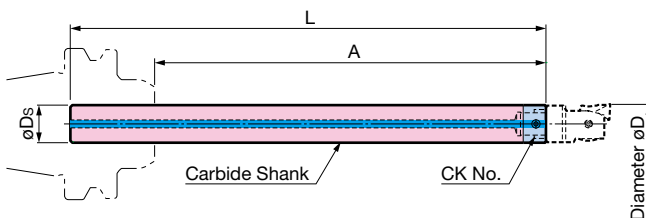
Details **A20**

1. Head and insert must be ordered separately.

Heads **A41**

## CK Carbide Cylindrical Shank Diameter: ø20 - ø60

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



### Model Description

**ST19** **W** - **CKB1** - **140**  
 • L dimension  
 • Carbide  
 • Cylindrical shank diameter

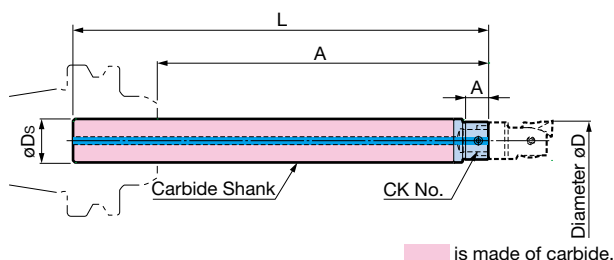
Carbide

Center through

Model	CK No.	øDs	Diameter øD	L	A	Weight (kg)
<b>ST19W-CKB1-140</b>	CK1	19	20 - 36	140	97	0.5
<b>-190</b>				190	147	0.7
<b>-240</b>				240	197	0.9
<b>ST24W-CKB2-160</b>	CK2	24	25 - 47	160	114	0.9
<b>-220</b>				220	174	1.3
<b>-290</b>				290	244	1.7
<b>ST31W-CKB3-200</b>	CK3	31	32 - 60	200	144	1.8
<b>-280</b>				280	224	2.6
<b>-350</b>				350	294	3.3

1. The A dimension in the table is the reference value when used with Hydraulic Chuck.  
 2. Head and inserts are not included.

### [Stepped type]



is made of carbide.

Model	CK No.	øDs	Diameter øD	L	A	Weight (kg)
<b>ST22W-CKB1-210</b>	CK1	22	20 - 22	210	12	1.1
			22 - 36		167	
<b>ST28W-CKB2-245</b>	CK2	28	25 - 28	245	19	1.9
			28 - 47		199	

1. The A dimension in the table is the reference value when used with Hydraulic Chuck.  
 2. Head and inserts are not included.

Heads **A41**

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

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

Center through

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

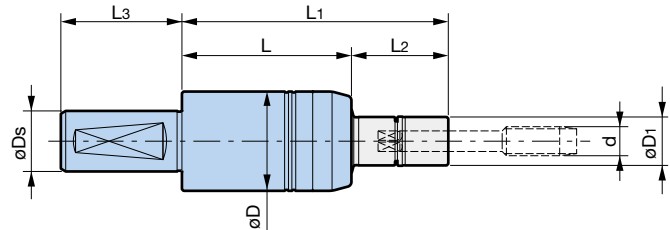
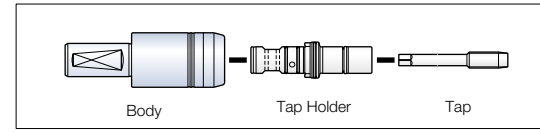


● Model Description (Body)

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

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

For tap holders **A134**

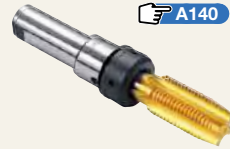


※ Use the **BIG** Side Lock Holder (TSL). **A127**

Model	Tap Holder Model	Tapping range d	øD	øD <sub>1</sub>	øD <sub>s</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Weight (kg)
<b>ST20-MGT 6-65</b>	MGT 6-□- 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-□- 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-□- 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 is not included. Please order separately.
- Cannot be used with machining center without synchronized tapping function.

M39 - M52  
**SYNCHRONIZED  
TAP HOLDER  
STD52**



Tap holders **A134** Accessories **G31**

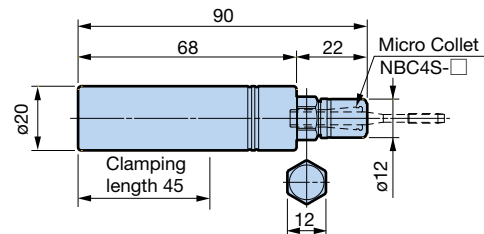
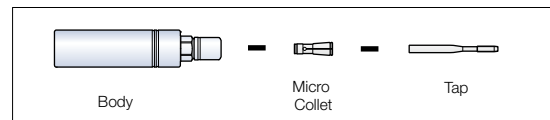
L<sub>2</sub>=150, 200mm tap holders are also available. For details, see **A134 - A135**

## [Small Diameter Tap MGT3 Type PAT.] M1 - M3



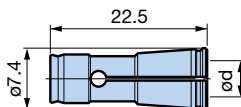
Model **ST20-MGT3-90**

- Nut is included. Wrench and collet must be ordered 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 **G33**

## Micro Collet



Model	Tapping range			Tap shank diameter ød
	JIS-M	JIS-U	DIN371	
<b>NBC4S - 2.5AA</b>			M1-M1.8	2.5
<b>2.8AA</b>			M2-M2.6	2.8
<b>3.0AA</b>	M1 - M2.6	No.0 - 4		3.0
<b>3.5AA</b>			M3	3.5
<b>4.0AA</b>	M3	No.5, 6		4.0