

BBT A34
SHANK

HSK C22
SHANK

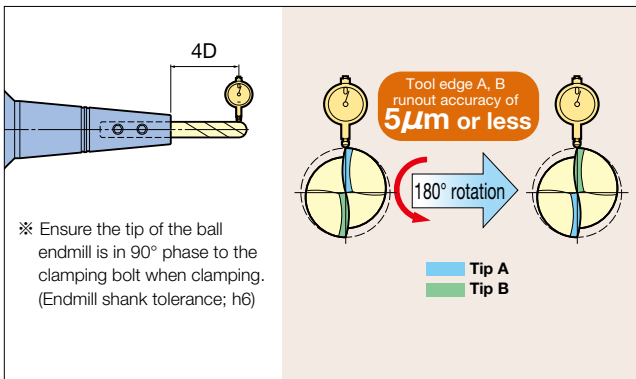


- Interference-free tool layout is available without special equipment with just one wrench.
- A side lock holder in a class above the rest with superior balance and BIG-PLUS effect.



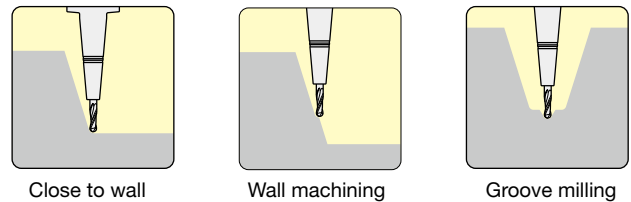
Runout accuracy within 5μm

2-flute ball endmills achieve a runout accuracy within 5μm. Both easy handling of side lock holder and high accuracy are realized.



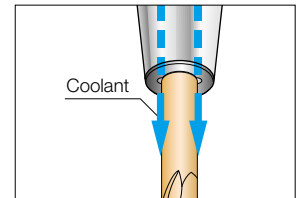
Slim and tapered design minimizes interference

Interference is minimized with mold making. Also useful in machining draft angles of molds.



Secure coolant supply to tool periphery

Center through coolant or oil mist can be ejected through the two coolant slits, allowing for a secure supply of coolant to the cutting edges. This helps in machining hard materials.



Balanced design realizes high speeds

With the entire outer diameter precision ground, stable machining is realized at high speeds.

Advice



When machining molds, it could be difficult to supply coolant to tool tip externally depending on the shape of workpiece. Center through specification Mold Chucks supply coolant to the tool periphery, allowing high pressure coolant to be supplied to tool tips even for ball endmills without coolant holes.

Clamping diameter: $\phi 3 - \phi 20$

MOLD CHUCK

BBT/BT SHANK

Slim design eliminates interference problems!



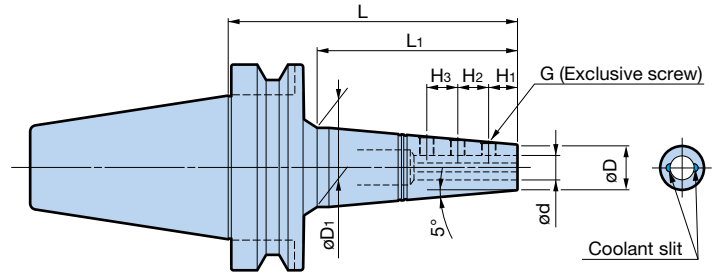
A
MOLD CHUCK



● Model Description

BBT40 - **SSL** **3** - **135**

- L dimension
- Clamping diameter
- MOLD CHUCK
- BIG-PLUS BT No.



BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional **BT spindles**.

BIG-PLUS BBT SHANK Model	ød	øD	øD ₁	L	L ₁	H ₁	H ₂	H ₃	G	Weight (kg)
BBT40-SSL 3-135	3	10	27.5	135	100	6	6	—	M3	1.2
-SSL 4-135	4	11	28.5			7	M4		1.2	
-SSL 6-135	6	13	30			12	13		M6	1.3
-SSL 8-135	8	15	32			13.5	18		M6	1.3
-SSL10-150	10	17	36.5	150	115	15	20	—	M6	1.5
-SSL12-150	12	22	41.5				16		16	M8
BBT50-SSL 6-150	6	13	31	150	104	12	13	—	M6	3.9
-200			39.5	200	154					4.4
-SSL 8-150	8	15	32.5	150	104	13.5	18	—	M6	3.9
-200			41.5	200	154					4.4
-SSL10-150	10	17	34.5	150	104	15	20	—	M6	4.0
-200			43.5	200	154					4.4
-SSL12-150	12	22	39.5	150	104	15	16	16	M8	4.2
-200			48	200	154					4.9
-SSL16-150	16	26	43	150	104	15	20	22	M8	4.5
-200			52	200	154					5.0
-SSL20-150	20	30	47	150	104	15	20	25	M8	4.6
-200			56	200	154					5.2

- Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance. When using, slowly ramp up to the appropriate speed starting from slow speeds.
- Ensure the tip of the ball endmill is in 90° phase to the clamping bolt when clamping.
 - Longer size is available as a special order.
 - BIG original side lock screws must be used as they are made to an exclusive design and different from other screws on the market.

MOLD CHUCK

Exclusive Side Lock Screw (Standard Accessory)

Model	Thread size	Screw length / quantity	Body Model
H0304FS-2P	M3 P0.5	4mm x 2pcs	SSL3
H0404FS-2P	M4 P0.5	4mm x 2pcs	SSL4
H06FSA	M6 P0.75	4.5, 5mm x 1pc each	SSL6
H06FSB		4.5, 6mm x 1pc each	SSL8, 10
H08FSA	M8 P0.75	6mm x 2pcs, 8mm x 1pc	SSL12
H08FSB		6, 8, 10mm x 1pc each	SSL16, 20

1. Each model consists of one set of screws required for each holder.

Clamping diameter: $\phi 3 - \phi 20$

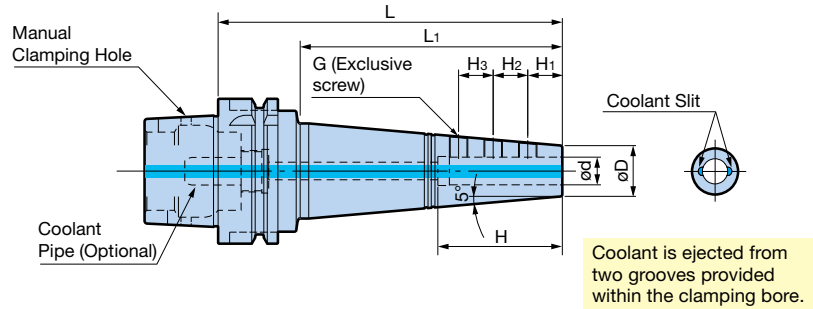
MOLD CHUCK

HSK
SHANK

High performance side lock holder with slim design, high runout accuracy and high speed capability.
Runout accuracy of $5\mu\text{m}$ between cutting edges of 2-flute ball endmill.



- Model Description
- HSK-A63** - **SSL** **3** - **135**
- L dimension
- Clamping diameter
- MOLD CHUCK
- HSK Shank Type



A Type (DIN 69893-1) (ISO 12164)

Model	Clamping diameter ϕd	ϕD	L	L ₁	Tool clamping length H	H ₁	H ₂	H ₃	G	Weight (kg)
HSK-A 63-SSL 3-135	3	10	135	99	(113)	6	6	-	M 3	1.0
-SSL 4-135	4	11				7	M 4		1.0	
-SSL 6-135	6	13				12	13		1.1	
-SSL 8-135	8	15				40	13.5		18	M 6
-SSL10-150	10	17	150	114	48	15	20	-	M 8	1.3
-SSL12-150	12	22		60	16		16		1.5	
-SSL16-150	16	26		70	20		22		1.6	
HSK-A100-SSL 8-150	8	15		150	111		(121)		13.5	18
-SSL10-150	10	17	20			20		2.9		
-SSL12-150	12	22	60			16		16	3.0	
-200	16	26	150			110		65	15	20
-SSL16-150			200	160	4.0					
-200			150	110	80	20	25			
-SSL20-150	20	30	200	160	80	20	25	M 8	4.2	

- Center through coolant supply is available.
 - () indications in H dimension mean inner bore beyond the clamping bore of those models is larger than the chucking bore.
 - Ensure the tip of the ball endmill is in 90° phase to the clamping bolt when clamping.
 - Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.
When using, slowly ramp up to the appropriate speed starting from slow speeds.
 - Coolant pipe is not included. C65
 - H dimensions in () are reference length up to the Coolant Pipe.
- BIG original side lock screws must be used as they are made to an exclusive design and different from other screws on the market.

Exclusive Side Lock Screw (Standard Accessory)

Model	Thread size	Screw length / quantity	Body Model
H0304FS-2P	M3 P0.5	4mm x 2pcs	SSL3
H0404FS-2P	M4 P0.5	4mm x 2pcs	SSL4
H06FSA	M6 P0.75	4.5, 5mm x 1pc each	SSL6
H06FSB		4.5, 6mm x 1pc each	SSL8, 10
H08FSA	M8 P0.75	6mm x 2pcs, 8mm x 1pc	SSL12
H08FSB		6, 8, 10mm x 1pc each	SSL16, 20

- Each model consists of one set of screws required for each holder.

C
MOLD CHUCK