

# HSK SHANK

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## A Type

■ COLLET CHUCK.....	C1
■ MILLING CHUCK .....	C12
■ HYDRAULIC CHUCK.....	C19
■ SHRINK CHUCK.....	C23
■ CK BORING SYSTEM .....	C25
■ GENERAL TOOLHOLDER.....	C27
■ TAPPER .....	C35
■ ANGLE HEAD .....	C38
■ HIGH-SPEED AIR SPINDLE .....	C51

## E Type

■ COLLET CHUCK.....	C53
■ HYDRAULIC CHUCK .....	C57

## F Type

■ COLLET CHUCK.....	C59
■ MILLING CHUCK .....	C63
■ HYDRAULIC CHUCK .....	C65
■ CK BORING SYSTEM .....	C66
■ GENERAL TOOLHOLDER.....	C66
■ HSK ACCESSORIES .....	C67

Ultra-slim design of  $\varnothing 10\text{mm}$  nut outer diameter.  
High speed collet chuck with minimized interference.

Center through

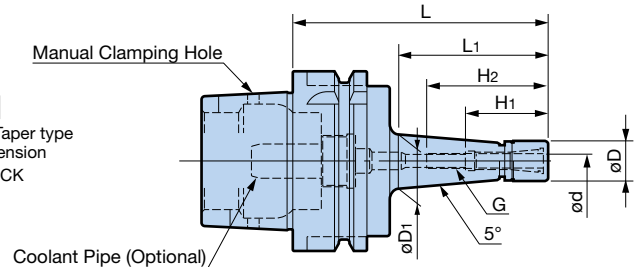
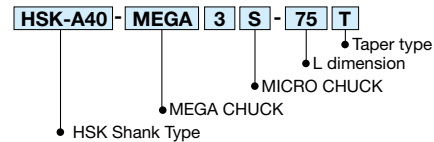
Max.  
**40,000min<sup>-1</sup>**

**[High Rigidity Taper Type]**

● Models for ultra-small endmilling are newly added!



● Model Description



**A Type**

Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-A40-MEGA3S- 75T</b>	0.45 - 3.25	10	16	75	44	22	38	M4 P0.7	NBC 3S-□	0.27
- 90T			18	90	60					0.29
<b>-MEGA4S- 60T</b>	0.45 - 4.05	12	14	60	27	26.5	44	M5 P0.8	NBC 4S-□	0.26
- 90T			20	90	60		47			0.31
-105T			23	105	76		0.35			
<b>-MEGA6S- 60T ※</b>	0.45 - 6.05	14	16	60	29	28.5	(40)	M7 P0.75	NBC 6S-□	0.26
- 75T			19	75	45		49			0.29
- 90T			21.5	90	60		0.32			
-105T			25	105	76		0.37			
<b>HSK-A50-MEGA6S-105T</b>	0.45 - 6.05	14	22.5	105	66	28.5	49	M7 P0.75	NBC 6S-□	0.6
<b>HSK-A63-MEGA3S- 75T</b>	0.45 - 3.25	10	14	75	36	22	38	M4 P0.7	NBC 3S-□	0.8
-120T			21.5	120	81					0.9
<b>-MEGA4S- 75T</b>	0.45 - 4.05	12	15.5	75	36	26.5	47	M5 P0.8	NBC 4S-□	0.9
- 90T			18	90	51					0.9
-120T			23.5	120	81					1.0
<b>-MEGA6S- 60T</b>	0.45 - 6.05	14	15.5	60	23	28.5	37	M7 P0.75	NBC 6S-□	0.8
- 75T			17	75	36		48			0.9
- 90T			20	90	51		49			0.9
-105T			22.5	105	66					0.9
-120T			25	120	81					1.0
-135T			27.5	135	96					1.0
<b>-MEGA8S- 90T</b>	2.95 - 8.05	18	23.5	90	51	31	50.5	M9 P0.75	NBC 8S-□	0.9
-120T			28.5	120	81					1.1

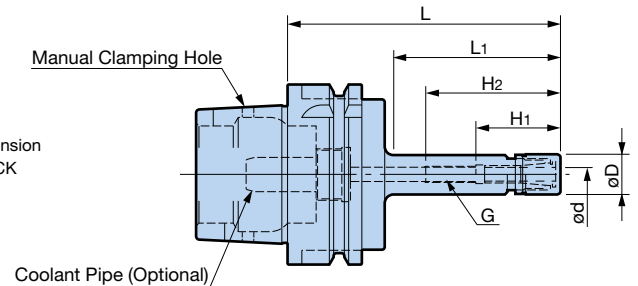
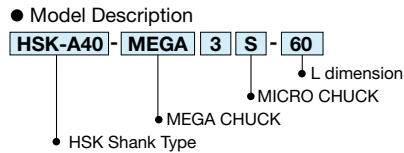
1. Nut is included. Collet and wrench must be ordered separately.
2. Weight includes the nut but not the collet.
3. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.  
When using, slowly ramp up to the appropriate speed starting from slow speeds.
4. Models marked with "※" do not have inner thread. H<sub>2</sub> ( ) dimension is the max. tool shank length that can be inserted into the holder.
5. Coolant pipe is not included. C67

COLLET CHUCK

**[Straight Type]**

- Straight type with less workpiece interference.

Center through

Max.  
**35,000min<sup>-1</sup>****A Type**

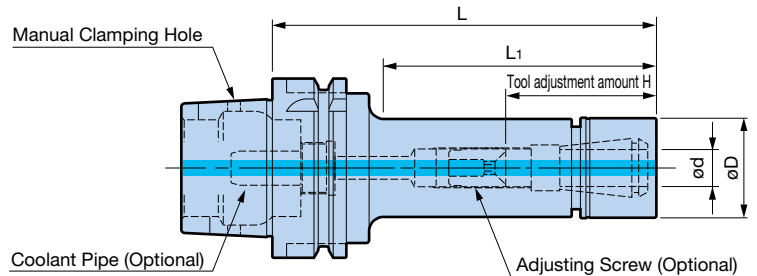
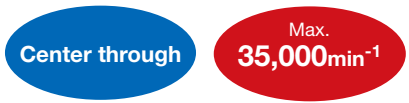
Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-A40-MEGA3S- 60</b>	0.45 - 3.25	10	60	26	22	39	M4 P0.7	NBC 3S-□	0.25
<b>-MEGA4S- 60</b>	0.45 - 4.05	12	60	27	26.5	44	M5 P0.8	NBC 4S-□	0.25
<b>- 90</b>			90	57		47			0.28
<b>-MEGA6S- 60</b> ※	0.45 - 6.05	14	60	28	—	(40)	—	NBC 6S-□	0.26
<b>- 90</b>			90	58					28.5
<b>HSK-A50-MEGA4S- 75</b>	0.45 - 4.05	12	75	36	26.5	47	M5 P0.8	NBC 4S-□	0.5
<b>-MEGA6S- 75</b>	0.45 - 6.05	14	75	36	28.5	49	M7 P0.75	NBC 6S-□	0.6
<b>HSK-A63-MEGA4S- 75</b>	0.45 - 4.05	12	75	36	26.5	48	M5 P0.8	NBC 4S-□	0.8
<b>-105</b>			105	61		47			0.9
<b>-MEGA6S- 75</b>	0.45 - 6.05	14	75	36	28.5	48	M7 P0.75	NBC 6S-□	0.9
<b>-105</b>			105	61		49			0.9
<b>-MEGA8S- 90</b>	2.95 - 8.05	18	90	48	31	50.5	M9 P0.75	NBC 8S-□	0.9

1. Nut is included. Collet and wrench must be ordered separately.
2. Weight includes the nut but not the collet.
3. 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.

4. Models marked with "※" do not have inner thread. H<sub>2</sub> ( ) dimension is the max. tool shank length that can be inserted into the holder.
5. Coolant pipe is not included. C67

Standard Accessory	Optional Accessories				
<b>MEGA NUT</b>  For Spares  G6	<b>Mega Wrench</b>  G33	<b>Micro Collet</b>  G4	<b>Mega Micro Seal Nut (For 6S and 8S)</b> <b>Mega Micro Coolant Nut (For 6S)</b>  G6	<b>Collet Case</b>  G6	<b>Adjusting Screw</b>  G23

The best selling MEGA CHUCK series pursues high speed capability for its body, nut, collet and wrench.



- Model Description
- HSK-A40** - **MEGA** **6** **N** - **60**
- HSK Shank Type
  - MEGA CHUCK
  - Maximum clamping diameter
  - NEW BABY CHUCK
  - L dimension

## A Type


Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A40-MEGA 6N- 60</b> ※	0.25 - 6	20	60	30	33	NBC 6-□	0.29
- 75			75	45	23 - 38		0.32
- 90			90	60	23 - 43		0.35
<b>-MEGA 8N- 60</b> ※	0.5 - 8	25	60	30	41	NBC 8-□	0.32
- 90			90	60	26 - 44		0.42
<b>-MEGA10N- 60</b> ※	1.5 - 10	30	60	26	40	NBC10-□	0.36
- 90			90	54	38 - 48		0.50
<b>-MEGA13N- 75</b> ※	2.5 - 13	35	75	55	55	NBC13-□	0.46
- 90			90	70	64		0.55
<b>-MEGA16N- 75</b> ※	2.5 - 16	42	75	55	53	NBC16-□	0.52
- 90			90	70	63		0.65
<b>-MEGA20N- 90</b> ※	2.5 - 20	46	90	70	66	NBC20-□	0.70

- Nut is included. Adjusting screw, collet and wrench must be ordered separately.
- Weight includes the nut but not the collet.
- Center through coolant supply is available.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
- ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- 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. C67

Standard Accessory		Optional Accessories				
<b>MEGA NUT</b>  For Spares  G12	<b>O-ring</b>  For Spares  G12	<b>MEGA NUT Flat Type</b>  G12	<b>Mega Wrench</b>  G33	<b>Collet</b>  G7	<b>MEGA PERFECT SEAL</b>  G13	<b>Adjusting Screw</b>  G23

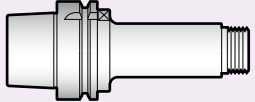
## A Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)	
<b>HSK-A50-MEGA 6N- 75</b>	0.25 - 6	20	75	37	23 - 43	NBC 6-□	0.6	
<b>-100</b>			100	60			0.6	
<b>-135</b>			135	93			0.7	
<b>-165</b>			165	123			0.8	
<b>-MEGA 8N- 75</b>	0.5 - 8	25	75	37	26 - 37	NBC 8-□	0.6	
<b>-100</b>			100	62	26 - 45		0.7	
<b>-135</b>			135	96	0.8			
<b>-165</b>			165	125	0.9			
<b>-MEGA10N- 75 ※</b>	1.5 - 10	30	75	38	38 - 48	NBC10-□	0.7	
<b>-100</b>			100	63			0.8	
<b>-135</b>			135	98			1.0	
<b>-165</b>			165	128			1.1	
<b>-MEGA13N- 75 ※</b>	2.5 - 13	35	75	40	44 - 56	NBC13-□	0.7	
<b>-100</b>			100	65			0.9	
<b>-135</b>			135	100			1.1	
<b>-165</b>			165	130			1.3	
<b>-MEGA16N- 75 ※</b>	2.5 - 16	42	75	49	48 - 55	NBC16-□	1.0	
<b>-100</b>			100	74			1.1	
<b>-135</b>			135	109			1.4	
<b>-165</b>			165	139			1.7	
<b>-MEGA20N- 75 ※▲</b>	2.5 - 20	46	75	49	47	NBC20-□	0.9	
<b>-100</b>			100	74			51 - 54	1.1
<b>-135</b>			135	109			51 - 68	1.5
<b>-165</b>			165	139				1.8
<b>-MEGA25N- 95 ※</b>	15.5 - 25.4	60	95	69	65	NBC25-□	1.3	

- Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
- Weight includes the nut but not the collet.
- Center through coolant supply is available.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
- Models with ※ indication cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
- 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. 

When ordering a **MEGA PERFECT SEAL**, the "Nut-Less Body" without the standard nut attached is also available.

● **Example** Attach **/NL** (Nut less) to the end of the holder model number and order the NBC Collet/MEGA PERFECT SEAL separately.

  
MEGA NEW BABY CHUCK Model + NL  
**HSK-A40-MEGA 6N-60/NL**  
(NL at the end of the model number means nut not attached)

+

  
NBC Collet  
**NBC6-3AA**

+

  
MEGA PERFECT SEAL Model  
**MPS6-03035**  
  
MEGA NUT Flat Type Model  
**MGN6F**

The best selling MEGA CHUCK series pursues high speed capability for its body, nut, collet and wrench.

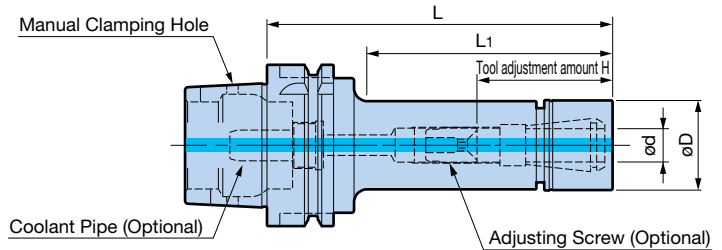


● Model Description

**HSK-A63** - **MEGA** **6** **N** - **75**

- L dimension
- NEW BABY CHUCK
- Maximum clamping diameter
- MEGA CHUCK
- HSK Shank Type

Center through Max. 35,000min<sup>-1</sup>



**A Type**


Model	Clamping diameter $\varnothing D$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A63-MEGA 6N- 75</b>	0.25 - 6	20	75	35	23 - 38	NBC 6-□	0.9
- 90			90	48	23 - 43		0.9
-105			105	63			0.9
-120			120	76			1.0
-135			135	91			1.0
-165			165	121			1.0
<b>-MEGA 8N- 75</b>			0.5 - 8	25	75		35
- 90	90	50			26 - 45	1.0	
-105	105	63				1.0	
-120	120	76				1.1	
-135	135	91				1.1	
-165	165	121				1.2	
<b>-MEGA10N- 75 ※</b>	1.5 - 10	30	75	36	50	NBC10-□	1.0
- 90			90	50	38 - 45		1.0
-105			105	65	38 - 48		1.1
-120			120	80			1.2
-135			135	93			1.3
-165			165	123			1.4
<b>-MEGA13N- 75 ※</b>	2.5 - 13	35	75	37	49	NBC13-□	1.0
- 90 ※			90	51	64		1.1
-105			105	66	44 - 56		1.2
-120			120	81	44 - 63		1.3
-135			135	96			1.4
-165			165	125			1.7
<b>-MEGA16N- 75 ※</b>	2.5 - 16	42	75	39	48	NBC16-□	1.1
- 90 ※			90	54	63		1.3
-105			105	69	48 - 54		1.4
-120			120	84	48 - 68		1.5
-135			135	99			1.7
-165			165	129			2.0
-200			200	164			2.4
<b>-MEGA20N- 75 ※</b>	2.5 - 20	46	75	39	51	NBC20-□	1.2
- 90 ※			90	54	61		1.4
-105			105	69	51 - 54		1.5
-120			120	84	51 - 68		1.7
-135			135	99			1.8
-165			165	129			2.3
-200			200	164			2.7
<b>-MEGA25N- 90 ※</b>	15.5 - 25.4	60	90	—	63	NBC25-□	1.6
-120 ※			120	—	90		2.2

1. Nut is included. Adjusting Screw, collet and wrench 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. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
6. 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.
7. Coolant pipe is not included. C67

## A Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A100-MEGA 6N- 90</b>	0.25 - 6	20	90	43	23 - 43	NBC 6-□	2.5
<b>-105</b>			105	58			2.5
<b>-120</b>			120	73			2.5
<b>-135</b>			135	88			2.5
<b>-165</b>			165	113			2.6
<b>-MEGA 8N- 90</b>			0.5 - 8	25			90
<b>-105</b>	105	58			2.6		
<b>-120</b>	120	73			2.6		
<b>-135</b>	135	88			2.7		
<b>-165</b>	165	113			2.7		
<b>-MEGA10N- 90</b>	1.5 - 10	30			90	43	38 - 45
<b>-105</b>			105	58	38 - 48	2.7	
<b>-120</b>			120	73	2.7		
<b>-135</b>			135	88	2.8		
<b>-165</b>			165	113	3.0		
<b>-MEGA13N- 90 ※</b>			2.5 - 13	35	90	43	55
<b>-105 ※</b>	105	58			70	2.8	
<b>-120</b>	120	73			44 - 63	2.9	
<b>-135</b>	135	88			3.0		
<b>-165</b>	165	118			3.2		
<b>-200</b>	200	148			3.5		
<b>-MEGA16N- 90 ※</b>	2.5 - 16	42	90	47	55	NBC16-□	2.8
<b>-105 ※</b>			105	58	70		2.9
<b>-120</b>			120	73	48 - 68		3.1
<b>-135</b>			135	88	3.2		
<b>-165</b>			165	118	3.6		
<b>-200</b>			200	151	4.0		
<b>-MEGA20N- 90 ※</b>	2.5 - 20	46	90	47	55	NBC20-□	2.9
<b>-105 ※</b>			105	58	70		3.0
<b>-120</b>			120	73	51 - 68		3.2
<b>-135</b>			135	88	3.3		
<b>-165</b>			165	118	3.8		
<b>-200</b>			200	153	4.3		
<b>-MEGA25N-120 ※</b>	15.5 - 25.4	60	120	78	85	NBC25-□	3.8
<b>-165</b>			165	123	64 - 74		4.6
<b>HSK-A125-MEGA20N-120</b>	2.5 - 20	46	120	78	51 - 61	NBC20-□	4.7
<b>-165</b>			165	118	51 - 68		5.2

- Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
- Weight includes the nut but not the collet.
- Center through coolant supply is available.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.

- ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- 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. 

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

When ordering a MEGA PERFECT SEAL, the "Nut-Less Body" without the standard nut attached is also available.

- **Example** Attach /NL (without nut) to the end of the holder model number and order the NBC Collet/MEGA PERFECT SEAL separately.

MEGA NEW BABY CHUCK Model + NL  
**HSK-A63-MEGA 6N-75/NL**  
 (NL at the end of the model number means nut not attached)

+



NBC Collet  
**NBC6-3AA**

+



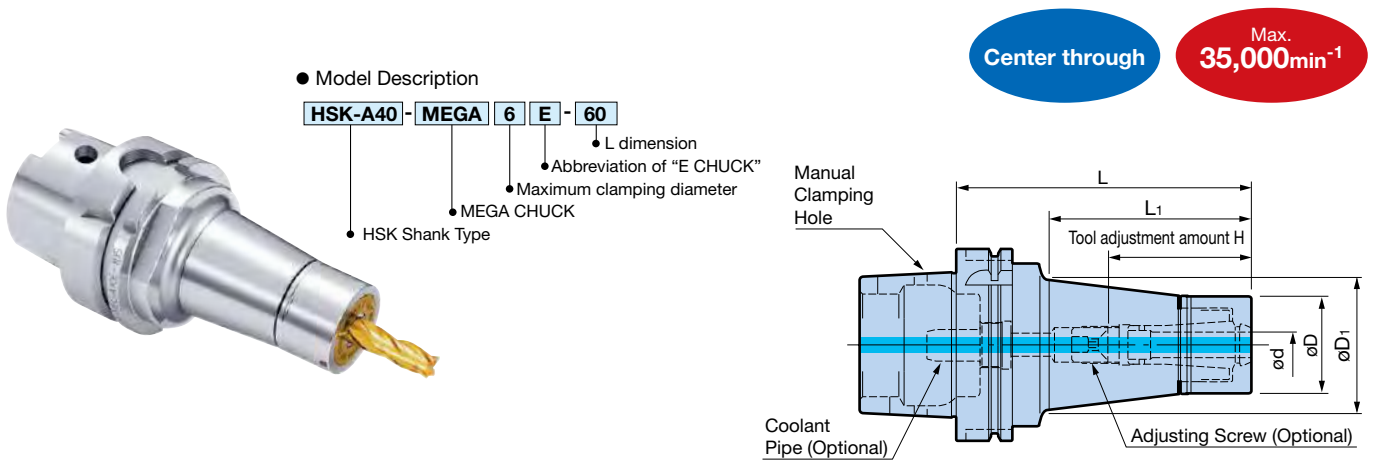
MEGA PERFECT SEAL Model  
**MPS6-03035**



MEGA NUT Flat Type Model  
**MGN6F**

A high precision, high speed and high rigidity collet chuck especially for endmilling.

- Tapered body enhances damping effect by varying vibration frequency.
- Uses the MEGA E Collet designed for endmilling, delivering optimal clamping performance.



### A Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A40-MEGA 6E- 60</b> ※	3 - 6	25	26	60	24	41	MEC 6-□	0.36
- 75 ※			28.5	75	39	55		0.42
<b>-MEGA 8E- 65</b> ※	3 - 8	30	34	65	30	44	MEC 8-□	0.41
- 75 ※			34	75	40	54		0.47
<b>-MEGA10E- 70</b> ※	3 - 10	35	35	70	35	48	MEC10-□	0.48
- 90			35	90	55	48 - 52		0.67
<b>-MEGA13E- 70</b> ※	3 - 12	42	42	70	35	50	MEC13-□	0.55
- 90 ※			42	90	55	67		0.69
<b>HSK-A50-MEGA 6E- 75</b>	3 - 6	25	28.5	75	37	37 - 43	MEC 6-□	0.6
<b>-MEGA 8E- 75</b> ※	3 - 8	30	33	75	40	42	MEC 8-□	0.7
<b>-MEGA10E- 75</b> ※	3 - 10	35	38	75	40	48	MEC10-□	0.8
<b>-MEGA13E- 75</b> ※	3 - 12	42	—	75	49	50	MEC13-□	0.9
-100			—	100	74	50 - 55		1.1
<b>HSK-A63-MEGA 6E- 65</b> ※	3 - 6	25	26.5	65	28	43	MEC 6-□	0.9
- 90			30	90	51	37 - 45		1.0
-105			33	105	66			1.1
-120			36	120	82			1.2
-135			39	135	99			1.4
<b>-MEGA 8E- 67</b> ※	3 - 8	30	31.5	67	30	45	MEC 8-□	0.9
- 90			35	90	52	37 - 45		1.1
-105			38	105	68	42 - 51		1.2
-120			40.5	120	83			1.4
-135			44	135	100			1.6
<b>-MEGA10E- 75</b> ※	3 - 10	35	37.5	75	37	48	MEC10-□	1.1
- 90 ※			40	90	53	64		1.2
-105			43	105	69	48 - 58		1.4
-120			46	120	85			1.5
-135			43	135	99			1.7
<b>-MEGA13E- 75</b> ※	3 - 12	42	44	75	31	49	MEC13-□	1.2
- 90 ※			45	90	46	64		1.4
-105			46	105	61	50 - 57		1.6
-120			47.5	120	77			1.8
-135			47	135	92			1.9

1. Nut is included. Adjusting Screw, collet and wrench must be ordered separately.

2. Center through coolant supply is available.

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

4. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.

5. 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.

6. Coolant pipe is not included. C67



**A Type**

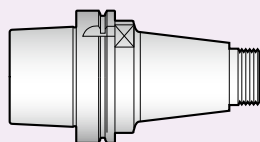
Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	$L_1$	H	Collet Model	Weight (kg)
<b>HSK-A100-MEGA 6E- 75</b> ※	3 - 6	25	28	75	33	46	MEC 6-□	2.5
- 90			29.5	90	48	37 - 45		2.6
-105			32.5	105	63			2.7
-120			35	120	78			2.8
-135			37.5	135	93			2.9
-165			43	165	123			3.2
<b>-MEGA 8E- 75</b> ※	3 - 8	30	33	75	33	46	MEC 8-□	2.5
- 90			34.5	90	48	42 - 51		2.6
-105			37	105	63			2.8
-120			39.5	120	78			2.9
-135			42.5	135	93			3.1
-165			47.5	165	123			3.4
<b>-MEGA 10E- 80</b> ※	3 - 10	35	37.5	80	38	51	MEC10-□	2.6
- 90 ※			39.5	90	48	61		2.7
-105			42	105	63	48 - 58		2.9
-120			44.5	120	78			3.1
-135			47	135	93			3.3
-165			52.5	165	123			3.7
<b>-MEGA 13E- 90</b> ※	3 - 12	42	46	90	48	50	MEC13-□	2.9
-105			48.5	105	63	50 - 61		3.1
-120			51.5	120	78			3.3
-135			54	135	93			3.6
-165			59	165	123			4.2

1. Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
2. Center through coolant supply is available.
3. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
4. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
5. 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.
6. Coolant pipe is not included.  C67

Standard Accessory		Optional Accessories			
<b>MEGA E Nut</b>  For Spares  G18	<b>O-ring</b>  For Spares  G18	<b>Mega Wrench</b>   G33	<b>MEGA E Collet</b>   G18	<b>MEGA E PERFECT SEAL</b>   G19	<b>Adjusting Screw</b>   G23

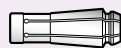
When ordering a **MEGA E PERFECT SEAL**, the "Nut-Less Body" without the standard nut attached is also available.

- **Example** Attach /NL (Nut less) to the end of the holder model number and order the MEC Collet/MEGA E PERFECT SEAL separately.



MEGA E CHUCK Model + /NL  
(Nut not attached)  
**HSK-A40-MEGA6E-60/NL**

+



MEC Collet  
**MEC6-3AA**

+

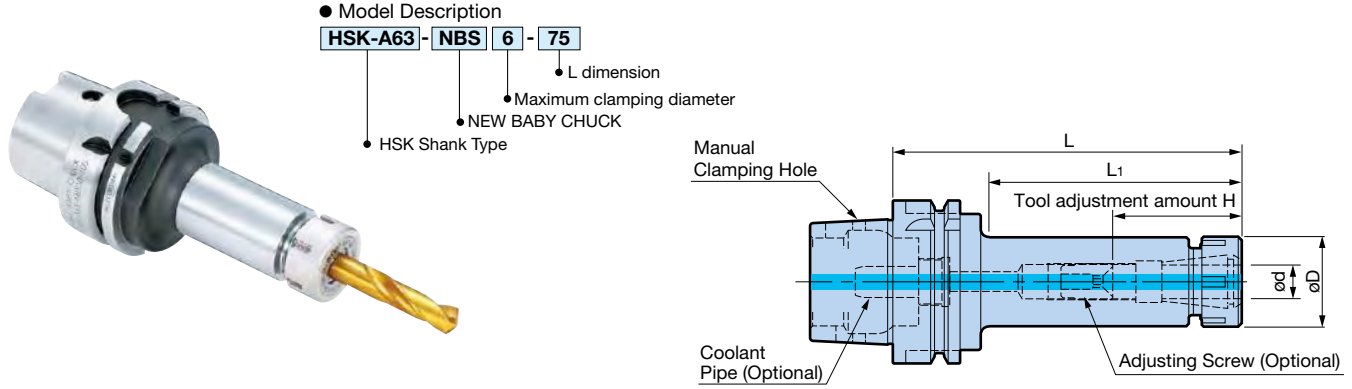


MEGA E PERFECT SEAL Model  
**EPS6-03**

A wide-ranging variety with sizes from short through long meets all the needs of high precision machining.



- Collet with an accuracy of 1 micron at nose enables increased productivity.
- A basic holder ideal for drilling, reaming and endmilling.



● Model Description  
**HSK-A63** - **NBS** **6** - **75**

- HSK Shank Type
- NEW BABY CHUCK
- Maximum clamping diameter
- L dimension

**A Type**


Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A63-NBS 6- 75</b>	0.25 - 6	20	75	35	20 - 35	NBC 6-□	0.9
-105			105	63	20 - 40		0.9
-135			135	91			1.0
-165			165	121	1.0		
<b>-NBS 8- 75</b>	0.5 - 8	25	75	35	23 - 37	NBC 8-□	0.9
-105			105	61	23 - 42		1.0
-135			135	91			1.1
-165			165	121	1.2		
<b>-NBS10- 75 ※</b>	1.5 - 10	30	75	35	48	NBC10-□	1.0
-105			105	63	35 - 45		1.1
-135			135	93			1.3
-165			165	123	1.4		
<b>-NBS13- 75 ※</b>	2.5 - 13	35	75	37	48	NBC13-□	1.0
-105			105	67	41 - 55		1.2
-135			135	97	41 - 60		1.5
-165			165	127			1.7
<b>-NBS16- 75 ※</b>	2.5 - 16	42	75	37	45	NBC16-□	1.1
-105			105	67	45 - 55		1.4
-135			135	97	45 - 65		1.8
-165			165	127			2.0
-200			200	162	2.4		
<b>-NBS20- 75 ※</b>	2.5 - 20	46	75	39	48	NBC20-□	1.2
-105			105	69	48 - 53		1.5
-135			135	99	48 - 65		1.9
-165			165	129			2.3
-200			200	164	2.7		

1. Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
2. Center through coolant supply is available.
3. Weight includes the nut but not the collet.
4. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).

5. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
6. Coolant pipe is not included. C67

**A Type**

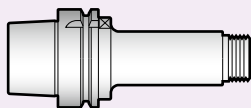
Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-A100-NBS 6- 90</b>	0.25 - 6	20	90	43	20 - 40	NBC 6-□	2.5
<b>-120</b>			120	68			2.5
<b>-165</b>			165	113			2.6
<b>-NBS 8- 90</b>	0.5 - 8	25	90	43	23 - 42	NBC 8-□	2.5
<b>-120</b>			120	73			2.6
<b>-165</b>			165	113			2.7
<b>-NBS10- 90</b>	1.5 - 10	30	90	43	35 - 45	NBC10-□	2.6
<b>-120</b>			120	73			2.7
<b>-165</b>			165	113			2.9
<b>-NBS13- 90 ※</b>	2.5 - 13	35	90	43	58	NBC13-□	2.7
<b>-120</b>			120	73	41 - 60		2.9
<b>-165</b>			165	113			3.2
<b>-200</b>			200	148	3.4		
<b>-NBS16- 90 ※</b>	2.5 - 16	42	90	43	58	NBC16-□	2.8
<b>-120</b>			120	73	45 - 65		3.1
<b>-165</b>			165	118			3.5
<b>-200</b>			200	151	3.9		
<b>-NBS20- 90 ※</b>	2.5 - 20	46	90	47	56	NBC20-□	2.9
<b>-120</b>			120	73	48 - 65		3.3
<b>-165</b>			165	118			3.8
<b>-200</b>			200	153	4.2		

- Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
- Center through coolant supply is available.
- Weight includes the nut but not the collet.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).
- ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- Coolant pipe is not included. 

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

When ordering a **BABY PERFECT SEAL**, the "Nut-Less Body" without the standard nut attached is also available.

- **Example** Attach **/NL** (Nut less) to the end of the holder model number and order the NBC Collet/BABY PERFECT SEAL separately.



MEGA NEW BABY CHUCK Model + NL  
**HSK-A100-NBS 6-90/NL**  
 (NL at the end of the model number means nut not attached)

+



NBC Collet  
**NBC6-3AA**

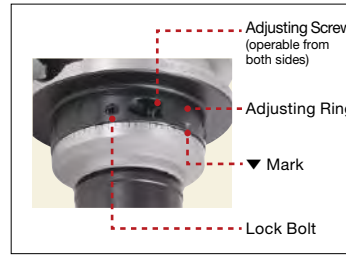
+



BABY PERFECT SEAL Model  
**BPS6-03035**

Compensates for increased runout of machine tool spindles caused by extended use.

Center through

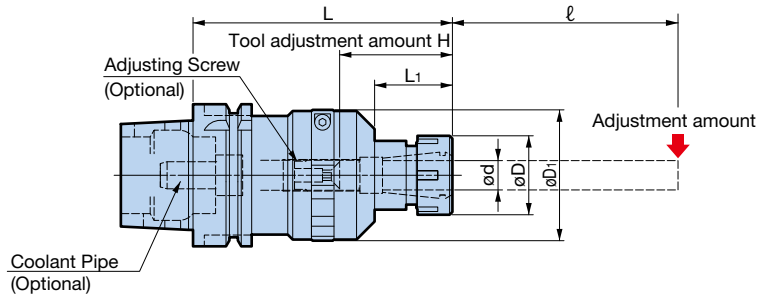


Simple structure allows for easy adjustment of runout accuracy!

1. Turn the adjusting ring and line up the ▼ mark with peak runout position.
2. Adjust the lock bolts in 3 locations to fix the ring.
3. The runout amount is adjusted by tightening the adjusting screw.

COLLET CHUCK

- Model Description
- HSK-A63** - **NBS** **8** - **105** **NRA**
- HSK Shank Type
  - NEW BABY CHUCK System
  - Maximum clamping diameter
  - L dimension
  - Runout Adjustable Type



**A Type**

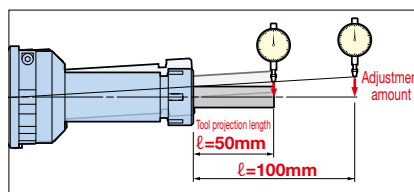
ℓ = Tool projection length

Model	∅d	∅D	∅D <sub>1</sub>	L	L <sub>1</sub>	H	Collet Model	Adjustment amount		Weight (kg)
								ℓ=50mm	ℓ=100mm	
<b>HSK-A63-NBS 8-105NRA</b>	0.5 - 8	25	45	105	43	23 - 42	NBC 8-□	23 μm	34 μm	1.2
<b>-NBS13-115NRA</b>	2.5 - 13	35	58	115	34.5	41 - 60	NBC13-□	18 μm	27 μm	1.8
<b>-NBS20-135NRA</b>	2.5 - 20	46	70	135	45	48 - 65	NBC20-□	17 μm	25 μm	2.4

1. Nut is included. 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. Coolant pipe is not included. C67

**Runout adjustment amount**

The adjustment amount depends on the length of the holder and the tool projection length. The maximum adjustment amount possible for 50mm and 100mm tool projection lengths is listed in the table. The maximum adjustment amount is a reference figure available when the Adjusting Screw is tightened with the listed allowable torque.



**Adjusting Screw allowable torque**

NEW BABY CHUCK Type	Wrench	Allowable Torque (N·m)
<b>NBS 8-NRA</b>	CK-T2.5	3
<b>NBS13-NRA</b>	CK-T3	6
<b>NBS20-NRA</b>		

Standard Accessory	Optional Accessories			
<p>New Baby Nut</p> <p>For Spares  G15</p>	<p>New Baby Wrench</p> <p> G36</p>	<p>Collet</p> <p> G7</p>	<p>BABY PERFECT SEAL</p> <p> G15</p>	<p>Adjusting Screw</p> <p> G23</p>

Complete contact with the nut and body.  
High rigidity equal to integration with the machine spindle.

Center through

Max.  
**28,000min<sup>-1</sup>****[Standard Type]**

## ● Model Description

<b>HSK-A40</b>	<b>MEGA</b>	<b>16</b>	<b>D</b>	<b>80</b>
● HSK Shank Type	● MEGA CHUCK	● Clamping diameter	● DOUBLE CHUCK	● L dimension

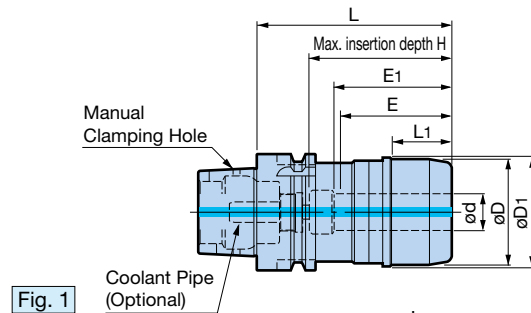


Fig. 1

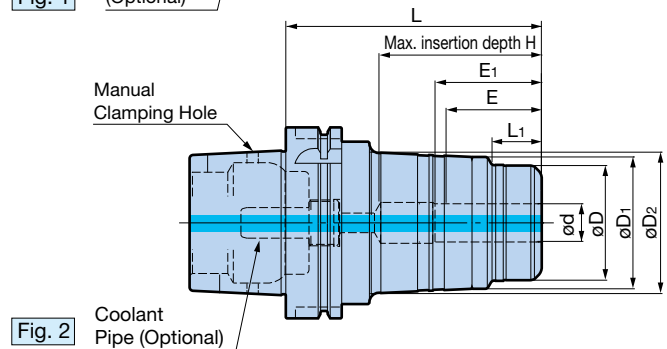


Fig. 2

**A Type**

Model	Fig.	Clamping diameter ød	øD	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	H	Min. clamping length		Mega Wrench	Weight (kg)
									E	E <sub>1</sub>		
<b>HSK-A 40-MEGA16D- 80</b>	1	16	46	—	—	80	25	62	48	50	MGR46L	0.69
<b>HSK-A 50-MEGA16D- 85</b>	1	16	46	—	—	85	25	62	48	50	MGR46L	1.0
<b>-MEGA20D- 85</b> ※		20	50	—	—	86	30	63	50	51	MGR50L	1.1
<b>HSK-A 63-MEGA16D- 80A</b>	2	16	42	53	—	80	25	55	48	55	MGR42L	1.3
<b>- 90A</b>						90		65				1.5
<b>-105A</b>						105		71				1.8
<b>-135A</b> ○						135		71				2.3
<b>-165A</b> ○						165		71				2.8
<b>-MEGA20D- 90A</b>	2	20	50	55	—	90	34	65	50	56	MGR50L	1.6
<b>-105A</b>						105		80				1.5
<b>-120A</b>						120		85				2.1
<b>-135A</b> ○						135		85				2.4
<b>-165A</b> △						165		69 - 79				3.0
<b>-MEGA25D-100A</b>	1	25	62	63	—	100	39	75	56	57	MGR62L	2.0
<b>-135A</b> △						135		66 - 76				2.8
<b>-MEGA32D-105A</b>						105		70				71
<b>-135A</b> ○	135	90	2.9									

1. Wrench is not included. Please order separately.

2. Center through coolant supply is available.

3. Models with △ indication can be used with optional axial adjusting screws. Models with ○ indication require the hex socket head screw (M8) for axial adjustment.

**Adjusting screws cannot be used with models without the symbols above.**


However, please contact us if using for center through applications.

4. H dimension is the max. tool shank length that can be inserted into the holder.


△ marked models show the adjustment amount when using an optional axial adjusting screw.

5. 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.





6. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.7. Coolant pipe is not included.  C67

● ※ marked models are not compatible with some Straight Collets.

Compatibility Table  G24**Optional Accessories**

## Straight Collet



- PJC Collet  G25
- PSC Collet  G26
- OCA Collet  G27
- C Collet  G28

## Mega Wrench

 G33

## Axial Adjusting Screw

 G30

Complete contact with the nut and body.  
High rigidity equal to integration with the machine spindle.

[Standard Type]

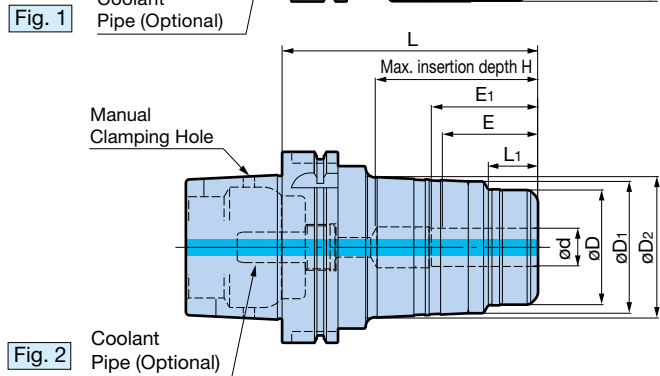
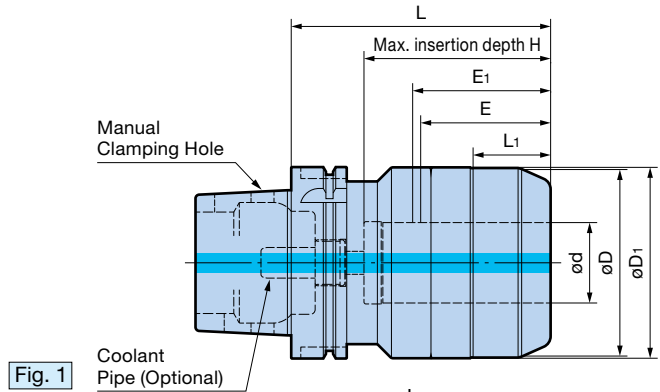


● Model Description

**HSK-A100** - **MEGA** **16** **D** - **105**

- L dimension
- DOUBLE CHUCK
- Clamping diameter
- MEGA CHUCK
- HSK Shank Type




Center through Max.  
28,000min<sup>-1</sup>



A Type

Model	Fig.	Clamping diameter ød	øD	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	H	Min. clamping length		Mega Wrench Model	Weight (kg)
									E	E <sub>1</sub>		
<b>HSK-A100-MEGA16D-105</b>	2	16	46	55	63	105	23	71	48	50	MGR46L	3.5
-135 ○						135						4.1
-165 ○						165						4.7
<b>-MEGA20D-105</b>	2	20	60	69	74	105	25	73	50	56	MGR60L	4.1
-135 □						135		85				5.0
-165 △						165		69 - 79				5.9
<b>-MEGA25D-105 ※</b>	2	25	70	77	85	105	32	73	56	65	MGR70L	4.5
-135 □						135		90				5.6
-165 △						165		76 - 86				6.8
<b>-MEGA32D-115</b>	2	32	80	86	—	115	39	83	60	71	MGR80L	5.0
-135 □						135		103				5.8
-165 □						165		105				7.1
<b>-MEGA42D-115 ※</b>	1	42	99	100	—	115	40	83	70	71	MGR99L	5.5
-135						135		97				6.9

1. Wrench is not included. Please order separately.
2. Center through coolant supply is available.
3. Models with △ indication can be used with optional axial adjusting screws. Models with ○ indication require the use of commercially available hex socket head screw (M8) for axial adjustment. Models with □ indication require the hex socket head screw (M12) for axial adjustment. **Adjusting screws cannot be used with models without the symbols above.** However, please contact us if using for center through applications.
4. H dimension is the max. tool shank length that can be inserted into the holder.
5. 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.
6. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.
7. Coolant pipe is not included. C67
- ※ marked models are not compatible with some Straight Collets. Compatibility Table G24

Optional Accessories		
<p>Straight Collet</p>  <ul style="list-style-type: none"> <li>PJC Collet  G25</li> <li>PSC Collet  G26</li> <li>OCA Collet  G27</li> <li>C Collet  G28</li> </ul>	<p>Mega Wrench</p>  <p> G33</p>	<p>Axial Adjusting Screw</p>  <p> G30</p>



Clamping diameter:  $\phi 12 - \phi 42$ **MEGA DOUBLE POWER CHUCK****HSK**  
SHANK

Complete contact with the nut and body.  
High rigidity equal to integration with the machine spindle.

**[Jet Through Type]**

## ● Model Description

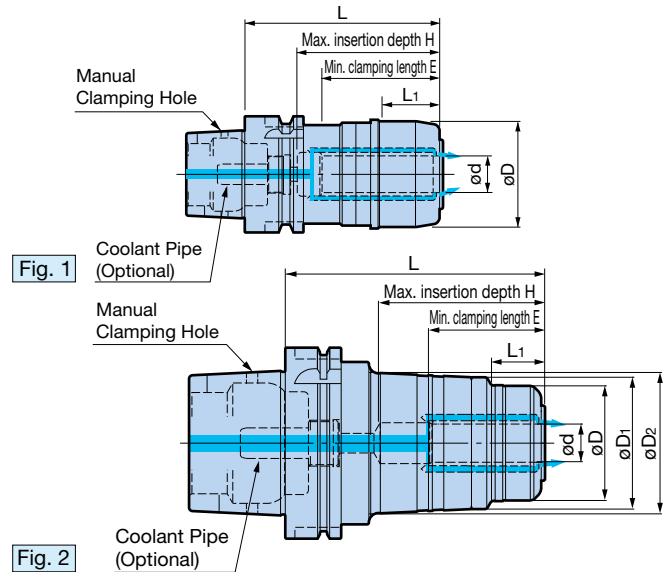
**HSK-A40** - **MEGA** **16** **DS** - **80**

- Jet through DOUBLE CHUCK
- Clamping diameter
- MEGA CHUCK
- HSK Shank Type

Center through

Max.  
**30,000min<sup>-1</sup>**

For Jet Through

**A Type**




Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	$\phi D_2$	L	L <sub>1</sub>	H	E	Mega Wrench Model	Weight (kg)
<b>HSK-A 40-MEGA16DS- 80</b>	1	16	46	—	—	81.5	27	63	48	MGR46L	0.7
<b>HSK-A 50-MEGA16DS- 85</b>	1	16	46	—	—	86.5	27	63	48	MGR46L	1.0
<b>-MEGA20DS- 85</b>		20	50	—	—	87.5	32	64	50	MGR50L	1.1
<b>HSK-A 63-MEGA12DS- 75</b>	1	12	38	43	45	76	25	51	43	MGR38	1.1
<b>-105</b> ○ <b>NEW</b>					48	106		65			1.5
<b>-MEGA16DS- 80A</b>	2	16	42	53	—	81	26	56	48	MGR42L	1.3
<b>-MEGA20DS- 90A</b>		20	50	55	—	91	35	66	50	MGR50L	1.6
<b>-120A</b> ○	1	25	62	—	—	101	40	76	56	MGR62L	2.0
<b>-MEGA25DS-100A</b>						106	34	81	60	MGR70L	2.2
<b>-MEGA32DS-105A</b>	1	32	70	—	—	106	34	81	60	MGR70L	2.2
<b>HSK-A100-MEGA12DS-105</b>						51	106	25	65	43	MGR38
<b>-135</b> ○ <b>NEW</b>	1	12	38	43	57	136	25	65	43	MGR38	3.5
<b>-MEGA16DS-105</b>					106.5	25		72			48
<b>-135</b> ○	2	16	46	55	63	136.5	25	72	48	MGR46L	4.1
<b>-MEGA20DS-105</b>						106.5		27			74
<b>-135</b> □	2	20	60	69	74	136.5	27	86	50	MGR60L	5.9
<b>-165</b> △						166.5		70 - 80			4.5
<b>-MEGA25DS-105</b>	2	25	70	77	85	106.5	33	74	56	MGR70L	5.6
<b>-135</b> □						136.5		77 - 87			6.8
<b>-165</b> △	1	32	80	86	—	166.5	41	84	60	MGR80L	5.0
<b>-MEGA32DS-115</b>						116.5		104			5.8
<b>-135</b> □	1	42	99	—	—	136.5	41	104	70	MGR99L	7.1
<b>-165</b> □						166.5		106			5.5
<b>-MEGA42DS-115</b> ※	1	42	99	—	—	116	41	84	70	MGR99L	5.5
<b>HSK-A125-MEGA20DS-135</b>						80		137.5			28
<b>-165</b> △	2	20	60	69	79	167.5	28	71 - 81	50	MGR60L	7.6
<b>-MEGA25DS-135</b>					83	137.5		34			92
<b>-MEGA32DS-135</b>	2	25	70	77	83	137.5	34	92	56	MGR70L	7.1
<b>-165</b> △								92			60
<b>-MEGA42DS-120</b>	2	32	80	86	93	137.5	42	107	60	MGR80L	9.1
<b>-165</b> △								167.5			85

- Wrench is not included. Please order separately.
- Center through coolant supply is available.
- Jet-through type provides coolant from the chuck nose, thus tools with oil holes cannot be used.**
- Models marked with △ can be used with optional axial adjusting screws. Models marked with ○ require the hex socket head screw (M8) for axial adjustment. Models marked with □ require the hex socket head screw (M12) for axial adjustment. **Adjusting screws cannot be used with models without the symbols above.**
- H dimension is the max. tool shank length that can be inserted into the holder. Models marked with △ show the adjustment amount when using an optional axial adjusting screw.
- 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.

7. Coolant pipe is not included. ☞ C67

- ※ marked models are not compatible with some Straight Collets.

Compatibility Table ☞ G24

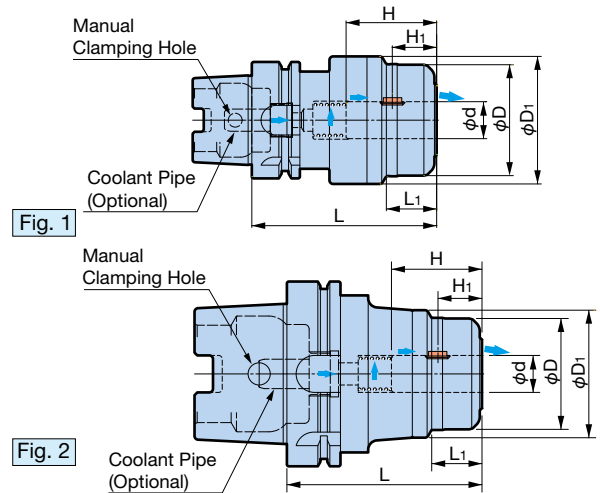
Optional Accessories		
<b>Straight Collet</b>  PJC Collet ☞ G25 PSC Collet ☞ G26 C Collet ☞ G28	<b>Mega Wrench</b>  ☞ G33	<b>Axial Adjusting Screw</b>  ☞ G30

A holder equipped with tool Non-Pullout mechanism.  
The unique Key Grip locking mechanism prevents the tool from slipping or pulling out during heavy machining.

Center through



Flood Jet-Through Coolant



**A Type**

Model	Fig.	$\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	H	H <sub>1</sub>	Mega Wrench	Weight (kg)
<b>HSK-A 63-MEGA16DPG- 90</b>	1	16	46	55	90	24	47	23	MGR46L	1.6
<b>-MEGA20DPG-100</b>		20	60	69	100	27	49	24	MGR60L	2.2
<b>HSK-A100-MEGA20DPG-105</b>	2	20	60	69	105	27	49	24	MGR60L	4.1
<b>-MEGA25DPG-105</b>		25	70	77		33	55	23	MGR70L	4.5
<b>-MEGA32DPG-115</b>		32	80	86		41	59	23	MGR80L	5.0
<b>HSK-A125-MEGA16DPG-135</b>	2	16	46	55	135	24	47	23	MGR46L	5.9
<b>-MEGA20DPG-135</b>		20	60	69		27	49	24	MGR60L	6.7
<b>-MEGA25DPG-135</b>		25	70	77		33	55	23	MGR70L	7.3
<b>-MEGA32DPG-135</b>		32	80	86		41	59	23	MGR80L	7.8

- Key Grip and Spring are included.
  - Wrench is not included. Please order separately.
  - H<sub>1</sub> is the dimension from the center of the Key Grip to the front end of the chuck.
  - Coolant pipe is not included. C67
- Key Grips are consumable products. Do not use a damaged Key Grip.
  - For coolant through tools, a seal bushing (optional) is required instead of a spring. Please contact us for details.

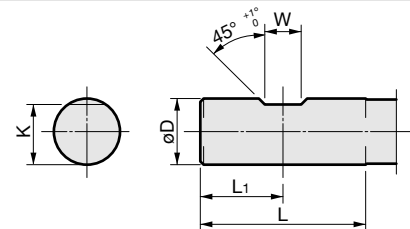
**Standard ACCESSORIES**

Chuck Size	Key Grip 2 pcs	Spring 
$\phi 16$	<b>PKG16-2P</b>	<b>PSP1519</b>
$\phi 20$	<b>PKG20-2P</b>	<b>PSP1823</b>
$\phi 25$	<b>PKG25-2P</b>	<b>PSP2420</b>
$\phi 32$	<b>PKG32-2P</b>	<b>PSP3128</b>

1. Key Grips are sold as 2-piece sets.

**Cylindrical Shank with Flat Section JIS B 4005 (ISO3338-2)**

The following standard shank is required for MEGA Perfect GRIP.



Precautions for additional machining of flat sections  
In case you are adding your own flat, the tool projection length in the MEGA Perfect GRIP will be decided by the flat position. Refer to H<sub>1</sub> in the MEGA Perfect GRIP chart, decide the flat position to add, and then cut the cutter at L<sub>1</sub> on cutter shank.

$\phi D$	Nominal Tolerance	L	L <sub>1</sub>	W		K	
				Nominal	Tolerance	Nominal	Tolerance
16	$\begin{matrix} 0 \\ -0.011 \end{matrix}$	48	24	10	$\begin{matrix} +0.2 \\ 0 \end{matrix}$	14.2	$\begin{matrix} 0 \\ -0.4 \end{matrix}$
20	$\begin{matrix} 0 \\ -0.013 \end{matrix}$	50	25	11		18.2	
25	$\begin{matrix} 0 \\ -0.013 \end{matrix}$	56	32	12		23	
32	$\begin{matrix} 0 \\ -0.016 \end{matrix}$	60	36	14		30	

- JIS Standards require sizes  $\phi 25$  or higher to be double-flat types. The MEGA Perfect GRIP does not use a rear flat surface, but is capable of clamping double flat shanks.
- JIS B4005 has the same dimensions as International Standard ISO3338-2 and German Standard DIN1835-1.

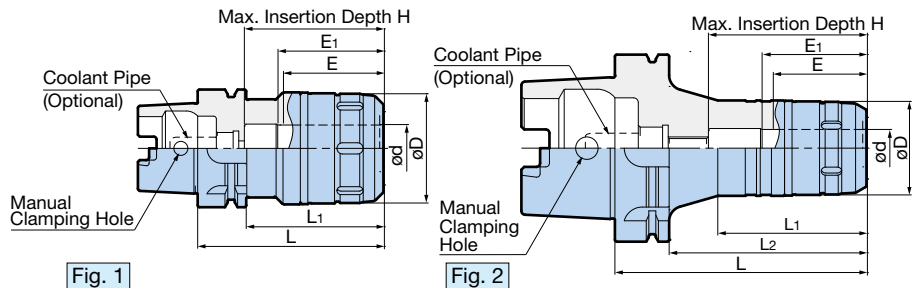
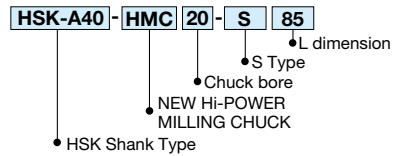


The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts.

Center through

[S Type]

● Model Description



A Type

Model	Fig.	$\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	L <sub>2</sub>	H	Min. Clamping Length		FK Wrench Model	MEGA WRENCH Model	Weight (kg)
								E	E <sub>1</sub>			
HSK-A 40-HMC20S- 85	1	20	50	85	65	—	66	50	56	FK45-50L	MGR50L	0.9
HSK-A 50-HMC20S- 90	1	20	50	90	64	—	66	50	56	FK45-50L	MGR50L	1.2
-HMC32S-115 ※		32	62	115	89	—	69	56	58	FK58-62L	MGR62L	1.6
HSK-A 63-HMC20S- 90	1	20	50	90	64	—	65	50	56	FK45-50L	MGR50L	1.5
-120 ○				120	94	—	85					1.9
-HMC25S-100	1	25	59	100	74	—	75	56	57	FK58-62L	MGR59L	1.9
-135 △				135	109	—	66 - 76					2.5
-HMC32S-110	1	32	68	110	84	—	85	60	64	FK68-75L	MGR68L	2.3
-135 ○				135	109	—	90					2.6
-165 △				165	139	—	79 - 89					3.2
HSK-A100-HMC20S-105	1	20	50	105	76	—	73	50	56	FK45-50L	MGR50L	3.0
-135 □	135			80	106	85	3.5					
-165 △	165			100	136	69 - 79	4.1					
-HMC25S-105 ※	1	25	59	105	76	—	73	56	57	FK58-62L	MGR59L	3.3
-135 □				135	106	—	90					3.9
-165 △	2	165	105	136	76 - 86	4.8						
-HMC32S-115	1	32	68	115	86	—	83	60	72	FK68-75L	MGR68L	3.9
-135				135	106	—	103					4.4
-165 □				165	105	136	105					5.4
-200 △	2	32	68	200	130	171	90 - 100	60	72	FK68-75L	MGR68L	6.4
-300 △				300	200	271						9.3
-HMC42S-115 ※	1	42	85	115	86	—	83	70	73	FK80-90L	MGR85L	4.9
-135				135	106	—	103					5.5
-165 □				165	136	—	107					6.8

- Wrench must be ordered separately.
- Center through coolant supply is available.
- Models marked with △ can be used with optional axial adjusting screws.  
Models marked with ○ require the hex socket head screw (M8) for axial adjustment.  
Models marked with □ require the hex socket head screw (M12) for axial adjustment.  
**Adjusting screws cannot be used with models without the symbols above.**  
However, for models marked with ○ and □, please contact us if using for center through applications.
- H dimension is the max. tool shank length that can be inserted into the holder.  
Models marked with △ show the adjustment amount when using an optional axial adjusting screw.
- Coolant pipe is not included.
- When using center through coolant, insert a tool shank into E<sub>1</sub> or more.

- ※ marked models are not compatible with some Straight Collets. Compatibility Table
- MEGA WRENCH can also be used to tighten/remove tools.

Optional Accessories			
<p>STRAIGHT COLLET</p> <ul style="list-style-type: none"> <li>PJC Collet </li> <li>PSC Collet </li> <li>OCA Collet </li> <li>C Collet </li> </ul>	<p>Wrench</p> <p></p>	<p>Mega Wrench</p> <p></p>	<p>Axial Adjusting Screw</p> <p></p>

## [HMC12J Type]

- A slim yet highly rigid milling chuck with  $\phi 32$  outer diameter nut for reduced interference.



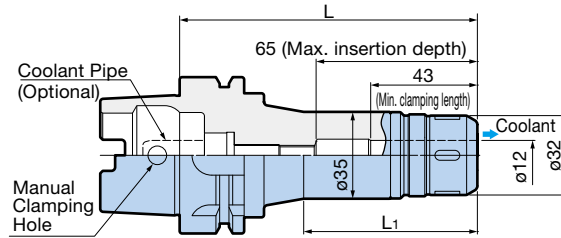
- Jet through coolant securely supplied from chuck nose to cutting edge.

Center through

### ● Model Description

**HSK-A63** - **HMC** **12** **J** - **90**



- L dimension
- Jet Through Type
- Chuck bore
- NEW HI-POWER MILLING CHUCK
- HSK Shank Type



## A Type

Model	L	L <sub>1</sub>	FK Wrench Model	Weight (kg)
<b>HSK-A63-HMC12J- 90</b>	90	52	FK31-33	1.1
<b>- 120</b> ※	120	70		1.4

1. Wrench must be ordered separately.
2. Coolant pipe is not included. C67
3. ※HSK-A63-HMC12J-120 requires the hex socket head screw (M8) for tool adjustment. However, please contact us if using for center through applications.
4. MEGA WRENCH cannot be used.

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

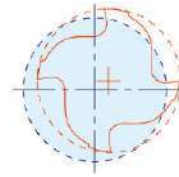
Compensates for increased runout of machine tool spindles caused by extended use.

Center through



**Tool edge runout**

Within **2 $\mu$ m!**

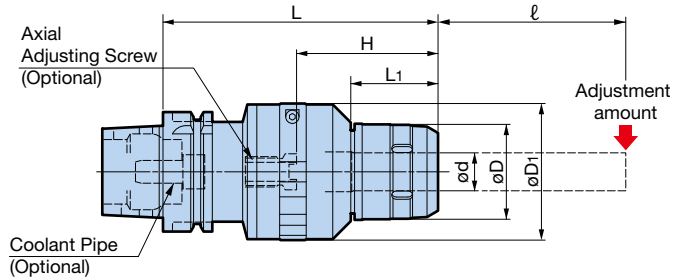


- Consistent hole diameter
- Improved surface roughness
- Extended tool life

● Model Description

**HSK-A63** - **HMC** **20** **S** - **145** **NRA**

- HSK Shank Type
- NEW HI-POWER MILLING CHUCK
- Chuck bore
- S Type
- L dimension
- Runout Adjustable Type



### A Type

$l$  = Tool projection length

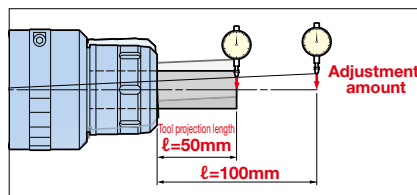
Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H	H Max.	Min. clamping length	Adjustment amount		FK Wrench Model	MEGA WRENCH Model	Weight (kg)
									$l=50\text{mm}$	$l=100\text{mm}$			
<b>HSK-A63-HMC20S-145NRA</b>	20	50	72	145	46	69 - 79	85	45	23 $\mu$ m	33 $\mu$ m	FK45-50L	MGR50L	2.9
<b>-HMC32S-155NRA</b> ※	32	68	86	155	55	—	120	53	20 $\mu$ m	28 $\mu$ m	FK68-75L	MGR68L	3.9

1. Wrench and axial adjusting screw must be ordered separately if required.
2. "H" indicates the adjustment amount with an axial adjusting screw (HMA).  
※marked models cannot be used with axial adjusting screws.
3. H max. is the maximum tool insertion length when the adjusting screw is removed.
4. Coolant pipe must be ordered separately.

● MEGA WRENCH can also be used to tighten/remove tools.

### Runout adjustment amount

The adjustment amount depends on the holder length and the tool projection length. The maximum adjustment amount possible for 50mm and 100mm tool projection lengths is listed in the table. The maximum adjustment amount is a reference figure available when the Adjusting Screw is tightened with the listed allowable torque.



### Adjusting Screw allowable torque

NEW HI-POWER MILLING CHUCK Type	Wrench	Allowable torque (N·m)
<b>HMC20S-NRA</b>	CK-T4	8
<b>HMC32S-NRA</b>		

### Optional Accessories

<p>Straight Collet</p> <ul style="list-style-type: none"> <li>PJC Collet </li> <li>PSC Collet </li> <li>C Collet </li> </ul>	<p>Wrench</p> <p></p>	<p>Mega Wrench</p> <p></p>	<p>Axial Adjusting Screw</p> <p></p>
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C  
MILLING CHUCK

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

Center through

● Slim design minimizes workpiece interference, ideal for mold making.

**[SUPER SLIM Type PAT.]**

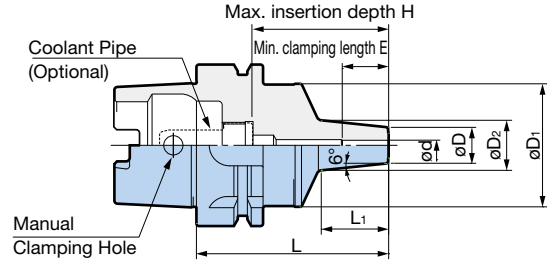


Fig. 1

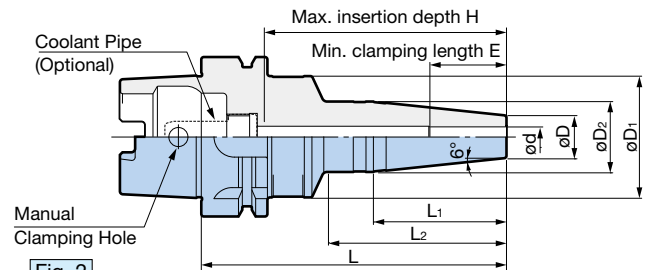
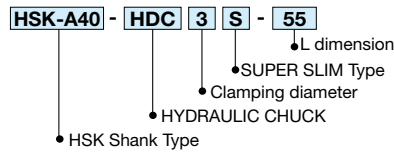


Fig. 2

● Model Description



**A Type**

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	L	L <sub>1</sub>	L <sub>2</sub>	H	E	Weight (kg)
<b>HSK-A40-HDC 3S- 55</b> <small>NEW</small>	1	3	14	33	18	55	18	-	39	16	0.29
<b>-HDC 4S- 65</b>		21			65	28	49		19	0.33	
<b>-HDC 6S- 75</b> <small>NEW</small>		23			75	39	25		0.34		
<b>-HDC 8S- 75</b> <small>NEW</small>		26			75	40	31		0.36		
<b>-HDC10S- 75</b> <small>NEW</small>		28			75	40	33		0.37		
<b>-HDC12S- 80</b> <small>NEW</small>		31			80	45	36		0.40		
<b>HSK-A50-HDC 4S- 75</b>	1	4	14	40	21	75	31	-	55	19	0.56
<b>HSK-A63-HDC 3S- 90</b> <small>NEW</small>	1	3	14	48	24	90	43	-	68	16	1.0
<b>-120</b> <small>NEW</small>	2				26	120	57	72	98		1.1
<b>-HDC 4S- 75</b>	1	4	14	48	20	75	26	-	53	19	1.0
<b>- 90</b> <small>NEW</small>					2	23	90	43	68		1.0
<b>-120</b>	2	5	14	48	26	120	57	72	98	22	1.1
<b>-HDC 5S-120</b> <small>NEW</small>								70			
<b>-HDC 6S-120</b>		6	17	48	28	150	52	85	128	25	1.3
<b>-150</b>								70			
<b>-HDC 8S-120</b>		8	17	48	28	150	52	70	95	31	1.2
<b>-150</b>								85			
<b>-HDC10S-120</b>		10	19	48	30	150	52	70	94	33	1.2
<b>-150</b>								87			
<b>-HDC12S-120</b>		12	21	48	32	150	52	70	93	36	1.2
<b>-150</b>								87			
<b>HSK-A100-HDC 4S-150</b> <small>NEW</small>	2	4	14	52	26	150	57	90	121	19	2.7
<b>-HDC 6S-150</b> <small>NEW</small>		6								25	
<b>-HDC 8S-150</b> <small>NEW</small>		8								31	
<b>-HDC10S-150</b> <small>NEW</small>		10								33	
<b>-HDC12S-150</b> <small>NEW</small>		12								36	
<b>-150</b> <small>NEW</small>		12								36	

- Adjusting Screw cannot be used.
  - Coolant pipe is not included. C67
  - When using coolant with models marked with ※, some coolant may leak from the inner diameter slits.
- 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.

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

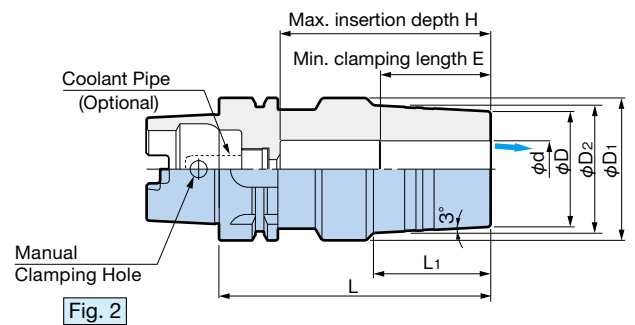
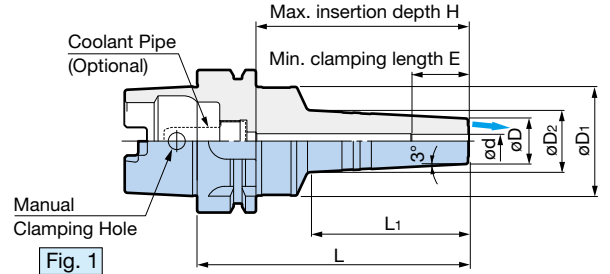


- Slim design minimizes workpiece interference, ideal for mold making.

**[Jet Through Type PAT.]**



- Model Description
- HSK-A63** - HSK Shank Type
- HDC** - HYDRAULIC CHUCK
- 4** - Clamping diameter
- J** - Jet Through Type
- 75** - L dimension



**A Type**

Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	$\phi D_2$	L	L <sub>1</sub>	H	E	Weight (kg)
<b>HSK-A63-HDC 4J- 75</b>	1	4	20	48	23	75	29	53	19	1.0
<b>-HDC 6J-120</b>		6			28			98	25	1.2
<b>-HDC 8J-120</b>		8			30			95	31	1.2
<b>-HDC10J-120</b>		10	24		32			94	33	1.3
<b>-HDC12J-120</b>		12	26		34			93	36	1.3
<b>-HDC16J-120</b>		16	34		43			92	43	1.5
<b>-HDC20J-120</b>		20	38					91	49	1.5
<b>-HDC25J-120</b>	2	25	51	63	57	120	50	93	49	2.1
<b>-HDC32J-120</b>		32	60	69	—		53	93	56	2.3

1. Adjusting Screw cannot be used.
  2. Coolant pipe is not included.
  3. HDC4J to 12J models allow jet through to be switched to center through by assembling the accessory plug.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck.

**Caution**

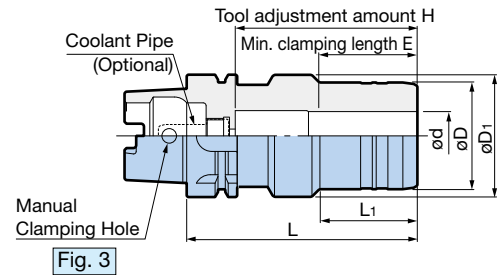
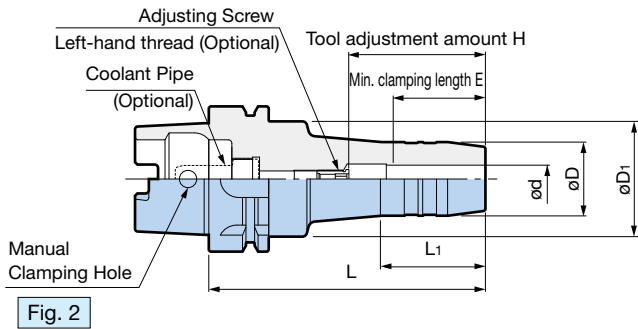
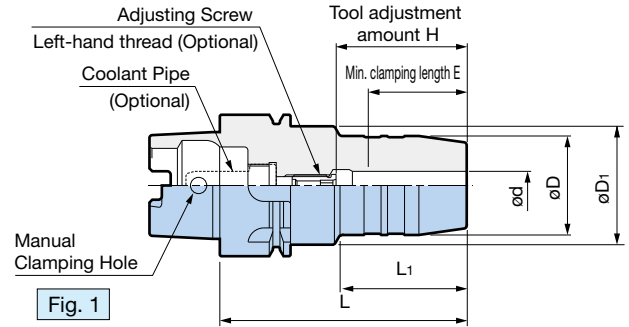
- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.
- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping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

[Standard Type]

Center through



- Model Description
- HSK-A40** - **HDC** **6** - **70**
- L dimension
- Clamping diameter
- HYDRAULIC CHUCK
- HSK Shank Type



HYDRAULIC CHUCK

A Type

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H	E	Adjusting Screw (Optional)	Weight (kg)				
<b>HSK-A40-HDC 6- 70</b>	1	6	26	34	70	36	28 - 36	28	HDA 6-05013	0.40				
<b>-HDC 8- 70</b>		8	28						HDA 8-06013	0.41				
<b>-HDC10- 75</b>		10	30						HDA 8-06013	0.45				
<b>-HDC12- 80</b>		12	32						HDA 8-06013	0.49				
<b>HSK-A50-HDC 6- 75</b>	1	6	26	42	75	32	28 - 37	28	HDA 6-05013	0.7				
<b>-HDC 8- 75</b>		8	28						HDA 8-06013	0.7				
<b>-HDC10- 80</b>		10	30						HDA10-08015	0.7				
<b>-HDC12- 85</b>		12	32						HDA10-08015	0.8				
<b>-HDC16- 90 <math>\Delta</math></b>		16	38						HDA10-08015	0.9				
<b>-HDC20- 90 <math>\Delta</math></b>		20	42						—	0.9				
<b>-HDC25- 90 <math>\ast \Delta</math></b>		25	55						63	—	1.3			
<b>HSK-A63-HDC 6- 70 <math>\ast</math></b>	2	6	26	50	70	24	46	28	—	1.0				
<b>-120</b>					120	44	28 - 48		HDA 6-05032	1.2				
<b>-150</b>					150				HDA 6-05032	1.4				
<b>-HDC 7-120</b>		120	—		1.3									
<b>-HDC 8- 70 <math>\ast</math></b>		8	28		70	24	46		—	1.0				
<b>-120</b>					120	44	28 - 48		HDA 8-06032	1.3				
<b>-150</b>					150				HDA 8-06032	1.5				
<b>-HDC 9-120</b>		9	29		120	35	55		—	1.1				
<b>-HDC10- 80 <math>\ast</math></b>					80						35	55	—	1.1
<b>-120</b>					120						45	33 - 53	HDA10-08032	1.3
<b>-150</b>		150	HDA10-08032		1.6									
<b>-HDC11-120</b>		120	—		1.4									
<b>-HDC12- 85 <math>\ast</math></b>		12	32		85	40	60		—	1.1				
<b>-120</b>					120	45	38 - 58		HDA12-10025	1.4				
<b>-150</b>					150				HDA12-10025	1.6				

- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw. Models marked with  $\ast$  cannot be used with Adjusting Screws. H dimension is the max. tool shank depth that can be inserted into the holder.
  - Coolant pipe is not included. C67
  - Adjusting Screw with hexagon sockets on both sides is also available, allowing adjustment from the shank side as well. Add the letter "W" at the end of the model number when ordering. (Example: HDA6-05013W)
- Models marked with  $\Delta$  cannot be used with a Straight Collet.
  - It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. G30

Straight Collets G25

**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.

**A Type**

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H	E	Adjusting Screw (Optional)	Weight (kg)		
<b>HSK-A 63-HDC13-120</b>	2	13	33	50	120	45	38 - 58	38	HDA12-10025	1.4		
<b>-HDC14- 85</b> ※		14	34		85	40	60		—	1.2		
<b>-120</b>					45	120	38 - 58		HDA12-10025	1.4		
<b>-150</b>						150	43 - 68	1.7				
<b>-HDC15-120</b>					15	37	120	46	58 - 68	43	HDA16-12015	1.5
<b>-HDC16- 90</b> ※		16	38		90	46	65	—	1.3			
<b>-120</b>					120	58 - 68	HDA16-12015	1.5				
<b>-150</b>					150	43 - 68	HDA16-12037	1.9				
<b>-HDC18- 90</b> ※		18	40		90	46	65	—	1.3			
<b>-120</b>					120	58 - 68	43	HDA20-16015	1.6			
<b>-150</b>					150	43 - 68	HDA25-16039	2.0				
<b>-HDC20- 90</b> ※		20	42		90	48	65	—	1.3			
<b>-120</b>					120	58 - 68	HDA20-16015	1.6				
<b>-150</b>					150	43 - 68	HDA25-16039	2.0				
<b>-HDC25-120</b> ※		3	25		55	63	120	51	95	52	—	2.1
<b>-HDC32-125</b> ※			32		60	69	125	59	100	56	—	2.4
<b>HSK-A100-HDC 6- 75</b> ※	2	6	26	50	75	26	46	28	—	2.4		
<b>-120</b>					120	44	28 - 48		HDA 6-05032	2.6		
<b>-165</b>					165	26	46		—	2.9		
<b>-HDC 8- 75</b> ※		8	28		75	26	46	—	2.4			
<b>-120</b>					120	44	28 - 48	HDA 8-06032	2.6			
<b>-165</b>					165	42	61	—	3.0			
<b>-HDC10- 90</b> ※		10	30		90	42	61	—	2.5			
<b>-120</b>					120	45	33 - 53	33	HDA10-08032	2.7		
<b>-165</b>					165	47	38 - 58	38	HDA12-10025	3.1		
<b>-HDC12- 95</b> ※		12	32		95	47	63	—	2.5			
<b>-120</b>					120	38 - 58	38	HDA12-10025	2.7			
<b>-165</b>					165	68	—	3.1				
<b>-HDC16-100</b> ※		16	38		100	53	68	—	2.6			
<b>-135</b>					135	43 - 68	43	HDA16-12030	3.0			
<b>-165</b>					165	73	—	3.3				
<b>-HDC20-105</b> ※		20	42		105	59	73	—	2.7			
<b>-135</b>					135	58 - 68	43	HDA20-16015	3.1			
<b>-165</b>					165	43 - 68	43	HDA25-16039	3.6			
<b>-HDC25-110</b> ※		25	55		63	110	62	78	52	—	3.3	
<b>-HDC32-110</b> ※									32	64	75	56


1. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.

※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank depth that can be inserted into the holder.


2. Coolant pipe is not included.  C67

3. Adjusting Screw with hexagon sockets on both sides is also available, allowing adjustment from the shank side as well.

Add the letter "W" at the end of the model number when ordering. (Example: HDA12-10025W)

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

 Straight Collets **G25**

 **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.

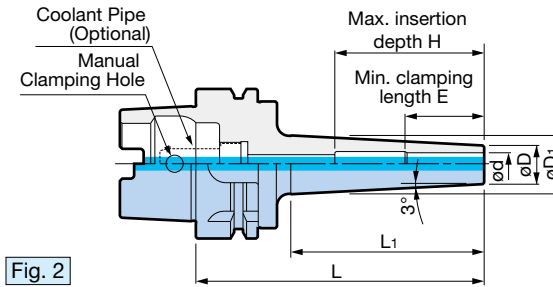
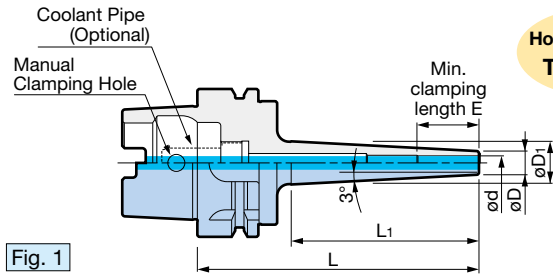


Optimal operation with eliminated workpiece/jig interference is achieved in deep endmilling, wall machining and precision mold machining.

Center through

Holder material  
Tool steel

[Slim Type]



● Model Description

**HSK-A63** - **SRC** **6** **S** - **120**

- L dimension
- Slim Type
- Clamping diameter
- SHRINK CHUCK
- HSK Shank Type

A Type

Model	Fig.	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	H	E	Weight (kg)
<b>HSK-A63-SRC 6S-120</b>	1	6	10	19	120	81	(98)	26	0.9
				23	165	121	(143)		1.0
<b>-SRC 8S-120</b>	2	8	13	22	120	81	(98)	32	1.0
				26	165	123	(143)		1.1
<b>-SRC10S-120</b>	2	10	16	25	120	81	62	36	1.0
				29	165	123			1.2
<b>-SRC12S-120</b>	2	12	19	28	120	81	72	36	1.0
				32	165	125			1.3

1. Use a carbide shank cutter within a tolerance of h6.
2. Center through coolant supply is available with tools with oil holes.
3. Coolant pipe is not included. C67
4. H dimensions in ( ) are reference length up to the Coolant Pipe.

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

SHRINK CHUCK



**[Standard Type]**

## ● Model Description

<b>HSK-A63</b>	-	<b>SRC</b>	-	<b>4</b>	-	<b>90</b>
				● L dimension		
				● Clamping diameter		
				● SHRINK CHUCK		
				● HSK Shank Type		

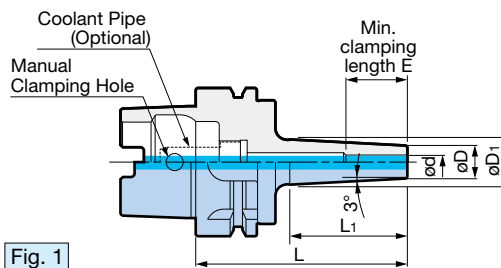


Fig. 1

Center through

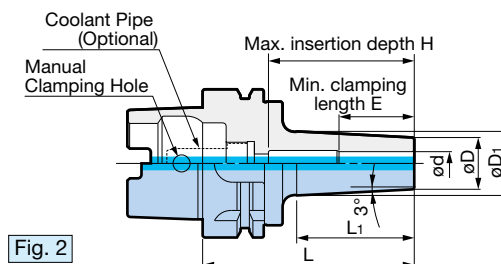

Holder material  
Tool steel

Fig. 2

**A Type**

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	H	E	Weight (kg)	
<b>HSK-A 63-SRC 4- 90</b> ※	1	4	10	15	90	46	(68)	16	0.9	
<b>-SRC 6- 90</b>		6	14	20		51	(68)		26	0.9
<b>-150</b>				26		108	(128)			1.1
<b>-SRC 8- 90</b>	2	8	18	24	90	51	(68)	32	1.0	
<b>-150</b>				30	150	110	(128)		1.2	
<b>-SRC10- 90</b>		10	22	28	90	51	62		1.0	
<b>-150</b>				34	150	111	62		1.3	
<b>-SRC12- 90</b>	12	24	30	90	51	65	36	1.0		
<b>-150</b>			36	150	112	72		1.4		
<b>-SRC16- 90</b>	16	28	34	90	51	65	38	1.1		
<b>-165</b>			41	165	119	80		1.8		
<b>-SRC20- 90</b>	20	34	40	90	53	65	42	1.2		
<b>-165</b>			47	165	122	100		1.9		

- 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.
- Coolant pipe is not included.  C67
- H dimensions in ( ) are reference length up to the Coolant Pipe.

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

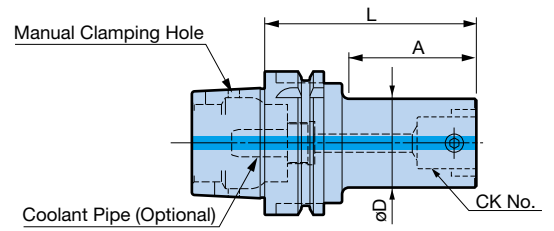
**BIG**+KAISER Boring System with a high reputation for many years.  
Basic holder for the high precision rough and finish boring head series.



**CK SHANK**



● Model Description  
**HSK-A40** - **CKB1** - **73**  
● CK No.  
● HSK Shank Type



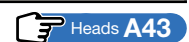
Select a head and holder with matching **CK No.**

**A Type**

Model	CK No.	øD	L	A	Weight (kg)
<b>HSK-A 40-CKB1- 73</b>	CK1	19	72.5	41	0.32
-CKB2- 85	CK2	24	84.5	56	0.41
-CKB3- 80	CK3	31	80	44	0.48
-CKB4- 73	CK4	39	73	(53)	0.57
<b>HSK-A 50-CKB1- 73</b>	CK1	19	72.5	33	0.5
-CKB2- 85	CK2	24	84.5	45	0.6
-CKB3- 80	CK3	31	80	45	0.7
-CKB4- 73	CK4	39	73	30	0.8
-CKB5- 83	CK5	50	83	(57)	1.0
<b>HSK-A 63-CKB1- 78</b>	CK1	19	77.5	38	0.9
-CKB2- 90	CK2	24	89.5	50	1.0
-CKB3-100	CK3	31	100	61	1.1
-130			130	91	1.3
-CKB4- 93	CK4	39	93	57	1.2
-123			123	87	1.5
-CKB5- 83	CK5	50	83	40	1.3
-113			113	70	1.8
-CKB6- 79	CK6	64	79	(53)	1.5
-109			109	(83)	2.3
<b>HSK-A100-CKB1-103</b>	CK1	19	102.5	60	2.5
-CKB2-115	CK2	24	114.5	72	2.6
-CKB3-125	CK3	31	125	83	2.8
-CKB4-118	CK4	39	118	76	3.0
-178			178	136	3.5
-CKB5-108	CK5	50	108	66	3.3
-183			183	141	4.4
-228			228	186	5.0
-CKB6- 94	CK6	64	94	54	3.4
-169			169	129	5.3
-229			229	189	6.7
-CKB7-123			CK7	90	123
-213	213	184			10.2
-273	273	244			13.2
<b>HSK-A125-CKB6- 94</b>	CK6	64	94	52	4.9
-CKB7-123	CK7	90	123	75	7.5

1. Center through coolant supply is available.  
2. Coolant pipe is not included. C67

3. Cutting edges and drive keys are aligned with boring heads mounted.  
For EWN and EWB BORING HEADS, the cutting edge is on the orientation notch side.



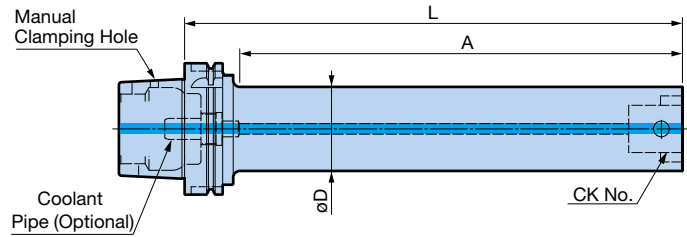
Center through

Built-in Damper SMART DAMPER PAT.

- Built-in damper eliminates chatter in deep hole boring.

● Model Description  
**HSK-A100** - **CKB4** **DP** - **241**

- HSK Shank Type
- CK No.
- Built-in Damper Type
- L dimension



A Type

Model	CK No.	øD	L	A	Weight (kg)
<b>HSK-A100-CKB4DP-241</b>	CK4	39	241	199	4.3
<b>-CKB5DP-303</b>	CK5	50	303	261	6.5
<b>-CKB6DP-379</b>	CK6	64	379	337	11.2

1. Cutting edges and drive keys are aligned with boring heads mounted.
2. Head and inserts are not included.
3. Extension should not be used due to possible chatter. Heads **A53**
4. Coolant pipe is not included. **C67**

SMART DAMPERS other than the above are also available.



FINISH BORING HEAD and SMART DAMPER have been integrated

**SMART DAMPER EWN BORING HEAD**

For details, **A54**



Instantly absorbs chatter even for rough boring with high load

**SMART DAMPER SW HEAD**

For details, **A43**



Standard CK Shanks can be used, allowing flexible tool layout

**SMART DAMPER Extension**

For details, **A80**

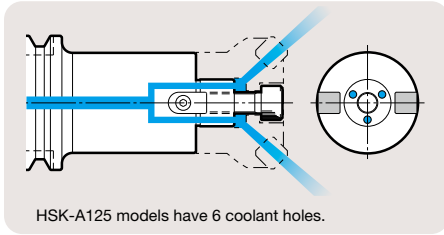
# FACE MILL ARBOR TYPE H

- Face mill arbor capable of securely supplying coolant/air to cutting edges through oil holes of cutters.

Center through



Securely supplies coolant/air to the cutting edge



● Model Description

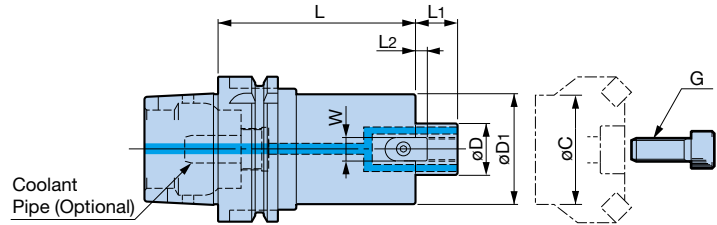
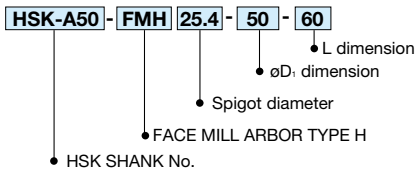


Fig. 1

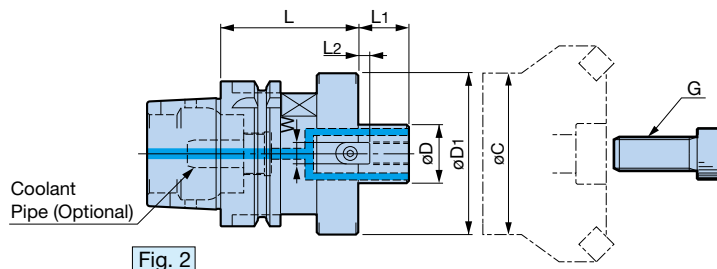


Fig. 2

## A Type

Model	Fig.	$\phi D$ (h6)	$\phi D_1$	L	L <sub>1</sub>	Drive Key		G	Weight (kg)	Min. flange diameter $\phi C$
						L <sub>2</sub>	W			
<b>HSK-A50-FMH25.4 -50- 60</b>	2	25.4	50	60	22	5	9.5	M12	0.9	46
<b>-FMH22 -47- 60</b>	2	22	47	60	18	5	10	M10	0.8	36
<b>- 90</b>				90						
<b>-FMH27 -60- 60</b>	2	27	60	60	20	6	12	M12	1.0	46
<b>- 90</b>				90						
<b>HSK-A63-FMH22.225-47- 60</b>	1	22.225	47	60	17	3.5	8	M10	1.3	39
<b>- 90</b>				90						
<b>-FMH25.4 -70- 60</b>	2	25.4	70	60	22	5	9.5	M12	1.8	46
<b>- 90</b>				90						
<b>-150</b>				150						
<b>-FMH31.75 -76- 60</b>	2	31.75	76	60	30	7	12.7	M16	2.0	56
<b>- 90</b>				90						
<b>-FMH16 -37- 45</b>	1	16	37	45	16	5	8	M 8	1.0	28
<b>-FMH22 -47- 60</b>	1	22	47	60	18	5	10	M10	1.3	36
<b>- 90</b>				90						
<b>-150</b>				150						
<b>-60- 60</b>	2	22	60	60	18	5	10	M10	1.4	38
<b>- 90</b>				90						
<b>-FMH27 -60- 60</b>	2	27	60	60	20	6	12	M12	1.6	46
<b>- 90</b>				90						
<b>-FMH32 -96- 60</b>	2	32	96	60	22	7	14	M16	2.0	58


1. The weight does not include the cutter.
2. Cutter clamping screw is included.  
If the standard clamping screw does not fit the cutter, select the suitable one from the clamping screw table and order it separately. C30
3. When using a cutter without oil holes, an optional clamp screw with an oil hole allows coolant supply.
4. Coolant pipe is not included. C67
5.  $\phi C$  indicates the smallest mounting surface diameter of the cutter that can be mounted on the arbor.  
Be careful when using a cutter with the mounting diameter considerably smaller than the cutting diameter, as it may not fit.

**FACE MILL ARBOR TYPE H****HSK**  
SHANK**A Type**


Model	Fig.	øD (h6)	øD <sub>1</sub>	L	L <sub>1</sub>	Drive Key		G	Weight (kg)	Min. flange diameter øC
						L <sub>2</sub>	W			
<b>HSK-A100-FMH22.225-</b> 47-105	1	22.225	47	105	17	3.5	8	M10	3.4	39
-150				150					4.0	
-200				200					4.7	
-250				250					5.3	
<b>-FMH22 - 47-105</b>				105					3.4	
-150	150	4.0								
-200	200	4.7								
-250	250	5.4								
<b>-FMH22 - 60- 60</b>	1	22	60	60	18	5	10	M10	2.9	38
-105				105					3.9	
-150				150					5.4	
-200				200					6.1	
-250				250					7.2	
<b>-FMH27 - 60- 60</b>	1	27	60	60	20	6	12	M12	2.9	46
- 90				90					3.7	
-150				150					5.0	
-200				200					5.9	
-250				250					7.0	
<b>-FMH27 - 76- 60</b>	1	27	76	60	20	6	12	M12	3.2	48
- 90				90					4.3	
-150				150					6.5	
<b>-FMH32 - 96- 60</b>				2					32	
- 90	90	5.5								
-150	150	8.9								
<b>-FMH40 -100- 75</b>	2	40	100	75	26	8.5	16	M20 (MBA-M20H)	4.9	70
-105				105					6.8	
<b>HSK-A125-FMH22A-</b> 49- 50	1	22	49	50	18	5	10	M10	4.1	40
-100				100					4.8	
-150				150					5.4	
-200				200					6.7	
<b>-FMH27A - 60- 90</b>				1					27	
-150	150	6.3								
<b>-FMH32A - 78- 60</b>	1	32	78	22	7	14	M16	4.8	58	
- 96-105	1		96					105		7.8
<b>-FMH40A - 80- 90</b>	1	40	80	90	26	8.5	16	M20 (MBA-M20H)	6.0	70


1. The weight does not include the cutter.

2. Cutter clamping screw is included.

If the standard clamping screw does not fit the cutter, select the suitable one from the clamping screw table and order it separately.  C30

3. When using a cutter without oil holes, an optional clamp screw with an oil hole allows coolant supply.

4. For the detailed dimensions of clamping screw MBA-M20H  C30

5. Coolant pipe is not included.  C67

6. øC indicates the smallest mounting surface diameter of the cutter that can be mounted on the arbor.

Be careful when using a cutter with the mounting diameter considerably smaller than the cutting diameter, as it may not fit.

## Built-in Damper SMART DAMPER

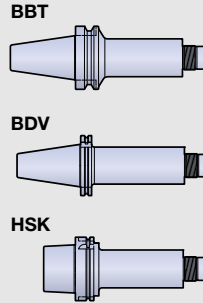
- Eliminates chatter in deep hole boring.

Center through

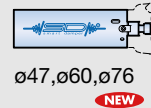


### System layout diagram

#### Basic Holder



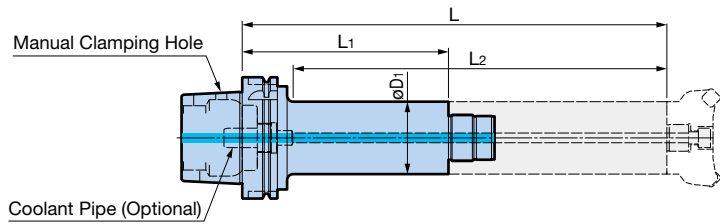
#### Damper head



#### Caution

Damper head becomes unremovable from the basic holder once they are used for machining after assembled.

### Basic Holder



#### Model Description

**HSK-A100** - **SDF36** - **47** - **170**

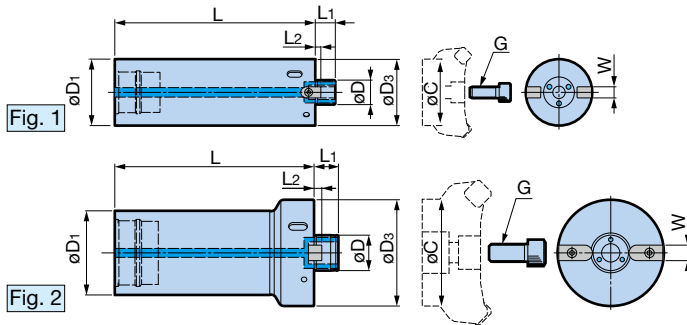
- HSK Shank Type
- Connection size
- øD<sub>1</sub> dimension
- L<sub>1</sub> dimension

### A Type

Model	øD <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	Weight (kg)	Compatible Damper Head
<b>HSK-A100-SDF36-47-170</b>	47	350	170	310	4.4	SDF36-FMH22DP-47
<b>-47-220</b>		400	220	360	5.0	
<b>-SDF36-60-170</b>	60	350	170	310	5.5	SDF36-FMH22DP-60 -FMH27DP-60
<b>-60-220</b>		400	220	360	6.5	
<b>-SDF57-76-170</b> <b>NEW</b>	76	350	170	310	7.7	SDF57-FMH27DP-76 -FMH32DP-96
<b>-76-220</b> <b>NEW</b>		400	220	360	9.4	

1. Coolant pipe is not included. C67

### Damper Head



#### Model Description

**SDF36** - **FMH** **22** **DP** - **47** - **180**

- Connection size
- FACE MILL ARBOR TYPE H
- Built-in damper type
- Spigot diameter
- øD<sub>1</sub> dimension
- L dimension

Model	Fig.	øD	øD <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	W	G	Weight (kg)	Wrench Model	Min. flange diameter øC
<b>SDF36-FMH22DP-47-180</b>	1	22	47	180	18	5	10	M10	3.0	FK45-50L	36
<b>-60-180</b>			60						4.5	FK58-62L	49
<b>-FMH27DP-60-180</b>			27						76	8.1	FK68-75L
<b>SDF57-FMH27DP-76-180</b> <b>NEW</b>	1	32	76	180	22	7	14	M16	8.7	FK92-100	58
<b>-FMH32DP-96-180</b> <b>NEW</b>	2		76						8.7	FK92-100	58

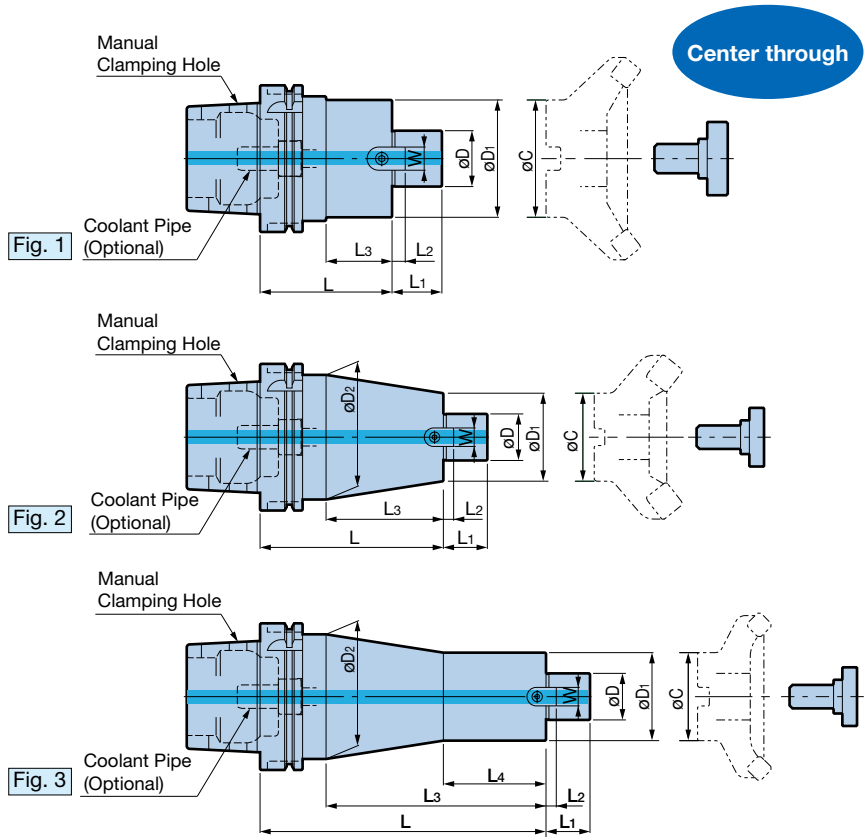
1. Refer to the operation manual for the basic holder mounting method.
2. The weight does not include the cutter.
3. Hook wrench and cutter tightening clamp screw are included.
4. If the standard clamping screw does not fit the cutter, select the suitable one from the clamping screw table and order it separately. C30
5. øC indicates the smallest mounting surface diameter of the cutter that can be mounted on the arbor. Be careful when using a cutter with mounting diameter considerably smaller than øD<sub>3</sub>, as it may not fit.



● Model Description

**HSK-A40** - **FMA** **25.4** - **50**

- L dimension
- Spigot diameter
- FACE MILL ARBOR TYPE A
- HSK Shank Type

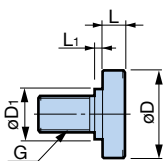


**A Type**

Model	Fig.	øD (h6)	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	Drive Key		L <sub>3</sub>	L <sub>4</sub>	Clamp Bolt	Weight (kg)	Min. flange diameter øC
							L <sub>2</sub>	W					
<b>HSK-A 40-FMA25.4 - 50</b>	1	25.4	50	—	50	22	5	9.5	15	—	MBA-M12	0.66	36
<b>HSK-A 50-FMA25.4 - 60</b>	1	25.4	50	—	60	22	5	9.5	14	—	MBA-M12	1.0	36
<b>- 90</b>					90							1.3	
<b>-FMA31.75- 60</b>	1	31.75	60	—	60	30	7	12.7	13	—	MBA-M16	1.2	47
<b>HSK-A 63-FMA25.4 - 60</b>	1	25.4	50	—	60	22	5	9.5	18	—	MBA-M12	1.3	36
<b>- 90</b>					90				48			1.7	
<b>-FMA31.75- 60</b>					60				30			7	
<b>-FMA38.1 - 60</b>	1	38.1	80	—	60	34	9	15.9	18	—	MBA-M20	2.3	75
<b>HSK-A100-FMA25.4 -105</b>	2	25.4	50	70	105	22	5	9.5	60	—	MBA-M12	4.5	36
<b>-135</b>				135	90				5.3				
<b>-195</b>				195	150				7.1				
<b>-FMA31.75-105</b>	3	31.75	60	85	105	30	7	12.7	60	20	MBA-M16	4.8	47
<b>-135</b>				135	90				5.6				
<b>-195</b>				195	150				7.0				
<b>-FMA38.1 - 90</b>	1	38.1	80	—	90	34	9	15.9	45	—	MBA-M20	4.9	70
<b>-FMA50.8 - 75</b>					75				36			10	

1. Cutter clamp screw is included.
2. A clamping screw with oil hole must be ordered separately for use with center through coolant/air.
3. Coolant pipe is not included. C67

■ Clamping Screw



Clamping Screw	Clamping screw with oil hole	Model	Model	øD	øD <sub>1</sub>	L	L <sub>1</sub>	G
<b>MBA-M12</b>		<b>TMBA-M12</b>		33	23	10	2	12
<b>-M12H</b>		—			—			
<b>-M16</b>		<b>-M16</b>		40	23	10	6	16
<b>-M16H</b>		—			—			
<b>-M20</b>		<b>-M20</b>		50	27	14	6	20
<b>-M20H</b>		—			—			
<b>-M24</b>		<b>-M24</b>		65	37	—	10	24

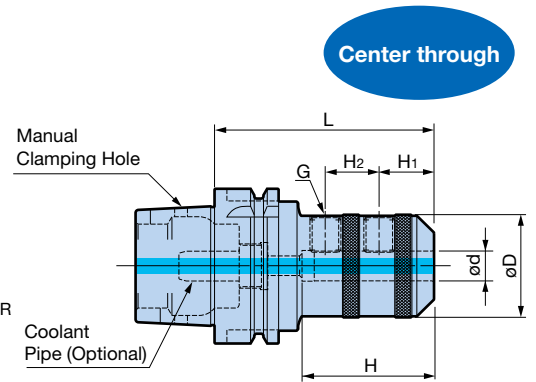




● Model Description

**HSK-A63** - **ISL** **6** - **80**

- HSK Shank Type
- SIDE LOCK ENDMILL HOLDER
- Clamping diameter
- L dimension



**A Type** Endmill holder in accordance with ISO5414

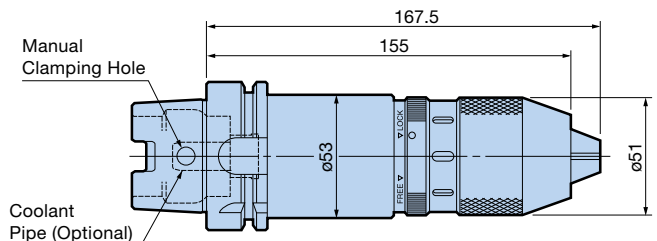
Model	Clamping diameter $\phi d$	$\phi D$	L	H	H <sub>1</sub>	H <sub>2</sub>	G	Weight (kg)
<b>HSK-A 63-ISL 6- 80</b>	6	25	80	58	18	-	M 6	0.9
<b>-ISL 8- 80</b>	8	28					M 8	1.0
<b>-ISL10- 80</b>	10	35					M10	1.1
<b>-ISL12- 80</b>	12	42					M12	1.2
<b>-ISL16- 80</b>	16	48					M14	1.4
<b>-ISL20- 80</b>	20	52					M16	1.5
<b>-ISL25-105</b>	25	65					105	60
<b>-ISL32-115</b>	32	72	115	64	24	28	M20	2.7
<b>HSK-A100-ISL20- 90</b>	20	52	90	54	25	-	M16	3.4
<b>-135</b>			135					4.1
<b>-195</b>			195					5.0
<b>-ISL25-105</b>	25	65	105	60	24	25	M18	4.3
<b>-135</b>			135					5.0
<b>-195</b>			195					6.4
<b>-ISL32-125</b>	32	72	125	90	30	32	M20	4.9
<b>-165</b>			165					6.3
<b>-195</b>			195					7.2
<b>-ISL40-125</b>	40	90	125	90	30	32	M20	5.8
<b>-165</b>			165					8.1
<b>-210</b>			210					10.2
<b>-ISL50-135</b>	50	99.5	135	90	35	35	M24	6.7
<b>-165</b>			165					8.5
<b>-210</b>			210					11.0

- Center through coolant supply is available.
- Coolant pipe is not included. C67

- Securely chucks the drill with simple operation.

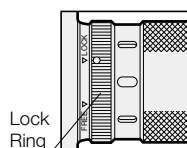


Integral holder type keyless chuck



**Reverse lock mechanism (SKL13)**

- No loosening even when the main spindle suddenly stops, by the reverse lock mechanism using a lock ring.
- Runout accuracy within 0.05mm



**A Type**

Model	Clamping diameter	Weight (kg)	Hook Wrench (Standard accessory)
<b>HSK-A63-SKL13-155</b>	$\phi 0.5 - \phi 13$	2.4	FS13LC

- Hook wrench is included.
- Coolant pipe is not included. (Cannot be used with center through) C67



Clamping diameter:  $\varnothing 16 - \varnothing 50$

# SIDE LOCK DRILL HOLDER

**HSK**  
SHANK

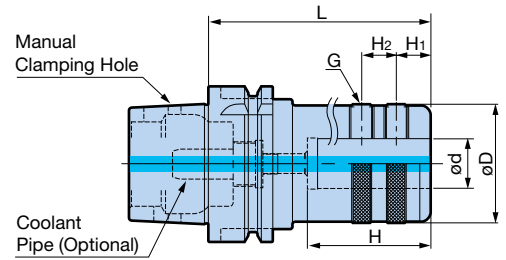


● Model Description

**HSK-A63** - **TSL** **16** - **90**

- L dimension
- Clamping diameter
- SIDE LOCK DRILL HOLDER
- HSK Shank Type

Center through



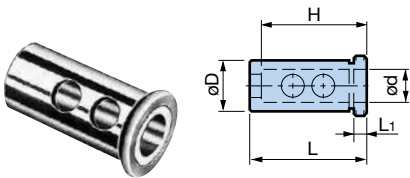
## A Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	H	H <sub>1</sub>	H <sub>2</sub>	G	Weight (kg)
<b>HSK-A 63-TSL16- 90</b>	16	48	90	48	14	14	M10	1.5
<b>-TSL20- 90</b>	20			50				1.4
<b>-TSL25- 90</b>	25	63	105	56	15	20	M16	1.4
<b>-TSL32-105</b>	32			60				2.0
<b>-TSL40-120</b>	40	68	120	70		25		2.4
<b>HSK-A100-TSL16- 90</b>	16	48	90	48	14	14	M10	3.0
<b>-TSL20- 90</b>	20			50				2.9
<b>-TSL25- 90</b>	25	63	105	56	15	20	M16	2.9
<b>-TSL32-105</b>	32			60				3.6
<b>-TSL40-105</b>	40	68	105	70	15	25	M16	3.6
<b>-TSL50-105</b>	50	84						4.2

- Center through coolant supply is available.
- Coolant pipe is not included.

For Side Lock type

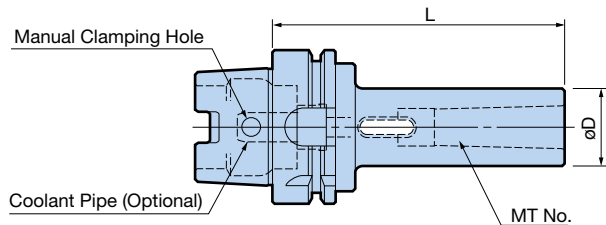
### SL Sleeve



Model	$\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H
<b>OSL25-16</b>	16	25	62	5.5	48
<b>-20</b>	20				50
<b>OSL32-20</b>	20	32	66	5.5	50
<b>-25</b>	25				56
<b>OSL40-25</b>	25	40	76	5.5	56
<b>-32</b>	32				60

# MORSE TAPER HOLDER TYPE A (Tang Type)

**HSK**  
SHANK



## A Type

Model	MT No.	$\varnothing D$	L	Weight (kg)
<b>HSK-A 63-MTA1-100</b>	1	25	100	1.0
<b>-MTA2-120</b>	2	32	120	1.2
<b>-MTA3-135</b>	3	40	135	1.6
<b>-MTA4-165</b>	4	50	165	2.4
<b>HSK-A100-MTA1-105</b>	1	25	105	2.6
<b>-MTA2-125</b>	2	32	125	2.8
<b>-MTA3-140</b>	3	40	140	3.2
<b>-MTA4-165</b>	4	50	165	3.9

● Model Description

**HSK-A63** - **MTA** **1** - **100**

- L dimension
- MT. No.
- MORSE TAPER HOLDER TYPE A
- HSK Shank Type

- Coolant pipe is not included.

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.

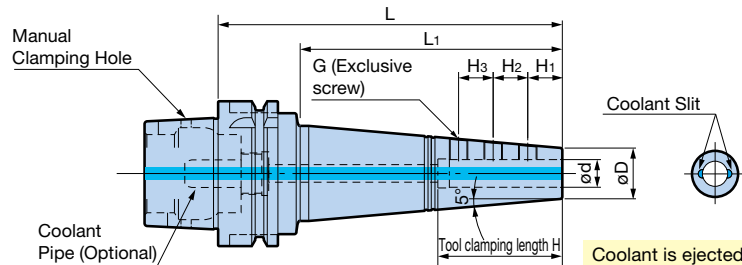
Center through



Model Description

**HSK-A63** - **SSL** **3** - **135**

• L dimension  
 • Clamping diameter  
 • MOLD CHUCK  
 • HSK Shank Type



Coolant is ejected from two grooves provided within the clamping bore.

A Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	G	Weight (kg)					
<b>HSK-A 63-SSL 3-135</b>	3	10	135	99	(113)	6	6	-	M 3	1.0					
-SSL 4-135	4	11								7	1.0				
-SSL 6-135	6	13								12	13	1.1			
-SSL 8-135	8	15								13.5	18	1.1			
-SSL10-150	10	17	150	114	48	15	20	-	M 6	1.3					
-SSL12-150	12	22								16	16	1.5			
-SSL16-150	16	26								20	22	1.6			
-SSL10-150	10	17								150	111	(121)	13.5	18	-
-SSL12-150	12	22	20	16	16	2.9									
-200	12	22	200	160	60	16	16	3.0							
-SSL16-150	16	26	150	110	65	15	20	22	M 8						
-200	16	26	200	160						65	20	22	4.0		
-SSL20-150	20	30	150	110						80	20	25	-	M 8	3.4
-200	20	30	200	160											80

- Center through coolant supply is available.
  - ( ) indications in H<sub>3</sub> 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. C67
  - H dimensions in ( ) are reference length up to the Coolant Pipe.
  - Exclusive screw is included.
- 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

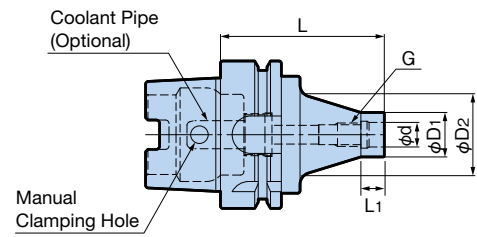
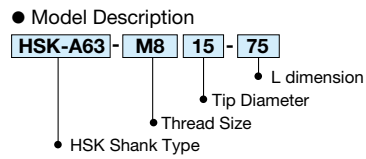
■ Side Lock Screw Set (Spare parts)

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

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

SCREW-ON HOLDER **NEW**

● Base Holders for Screw-On Cutter



**A Type**

Model	ød	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	G	Weight (kg)
<b>HSK-A 63-M 8-15-75</b>	8.5	15	30	75	10	M 8	0.9
<b>-M10-19-70</b>	10.5	19	35	70		M10	0.9
<b>-M12-24-65</b>	12.5	24	40	65		M12	0.9
<b>-M16-29-60</b>	17	29		60		M16	0.9

1. Coolant pipe is not included. C67

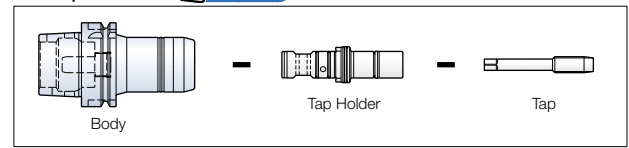
Improves thread quality and tap life by reducing thrust loads caused by synchronization errors up to 90%.

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

Center through



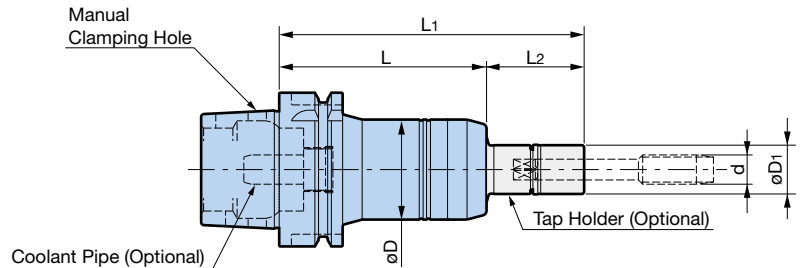
For tap holders **A134**



● Model Description (Body)

**HSK-A40** - **MGT6** - **80**

- L dimension
- MEGA SYNCHRO No.
- HSK Shank Type



## A Type

Model	Tap Holder Model	Tapping range d	øD	øD <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	Body weight (kg)
<b>HSK-A 40-MGT 6- 80</b>	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	80	110	30	0.54
	- 70					150	70	
	-100					180	100	
<b>-MGT12- 85</b>	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	0.63
	- 70					155	70	
	-100					185	100	
<b>HSK-A 50-MGT 6- 85</b>	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	0.8
	- 70					155	70	
	-100					185	100	
<b>-MGT12- 85</b>	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	0.9
	- 70					155	70	
	-100					185	100	
<b>-MGT20-125</b>	MGT20-□- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	125	160	35	1.6
	- 85					210	85	
	-115					240	115	
<b>HSK-A 63-MGT 6- 85</b>	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	1.1
	- 70					155	70	
	-100					185	100	
<b>-MGT12- 85</b>	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	1.2
	- 70					155	70	
	-100					185	100	
<b>-MGT20-110</b>	MGT20-□- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	110	145	35	1.8
	- 85					195	85	
	-115					225	115	
<b>HSK-A100-MGT 6- 95</b>	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	95	125	30	2.6
	- 70					165	70	
	-100					195	100	
<b>-MGT12- 95</b>	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	95	125	30	2.7
	- 70					165	70	
	-100					195	100	
<b>-MGT20-115</b>	MGT20-□- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	115	150	35	3.3
	- 85					200	85	
	-115					230	115	
<b>HSK-A125-MGT12-105</b>	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	105	135	30	4.1
	- 70					175	70	
	-100					205	100	
<b>-MGT20-120</b>	MGT20-□- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	120	155	35	4.7
	- 85					205	85	
	-115					235	115	

1. MGT Set Screw is included.
  2. Tap holder is not included. Please order separately.
  3. Coolant pipe is not included. **C67**
- Cannot be used with machining center without synchronized tapping function.

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

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

# MEGA SYNCHRO TAPPING HOLDER PAT.

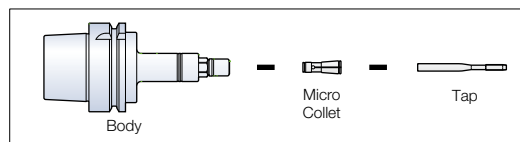
TAPPER

DUAL CONTACT

**HSK**  
SHANK

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

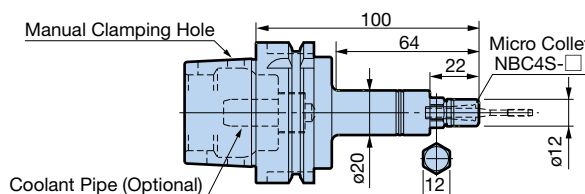
Stable small diameter tapping is achieved by the synchronization error compensation mechanism and minimized dynamic runout.



### A Type

Model	Body weight (kg)
<b>HSK-A63-MGT3-100</b>	1.0

1. Nut is included, but wrench and collet are not. Please order separately.
  2. When attaching or detaching the tap, a commercially available flat wrench (12mm width) is also required. Prepare this on your own.
  3. Coolant pipe is not included. **C67**
- Cannot be used with machining center without synchronized tapping function.
  - Cannot be used with center through.



Mega Wrench **G33**

Collets **A138**

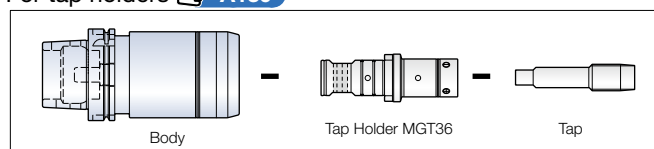
## [Large Diameter Tap MGT36 Type PAT.] M20 - M36

With a structure that smoothly tracks under high cutting torque of large diameter tapping, it compensates for axial deviation due to synchronization error, greatly reducing load during tapping.

**Center through**



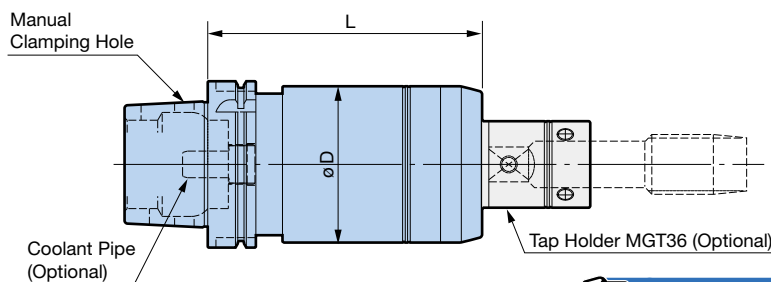
For tap holders **A139**



### A Type

Model	øD	L	Body weight (kg)
<b>HSK-A100-MGT36-165</b>	94	165	8.2
<b>HSK-A125-MGT36-170</b>	94	170	10.1

1. MGT Set Screw is included.
  2. Tap holder is not included. Please order separately.
  3. Coolant pipe is not included. **C67**
- Cannot be used with machining center without synchronized tapping function.

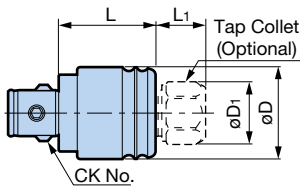
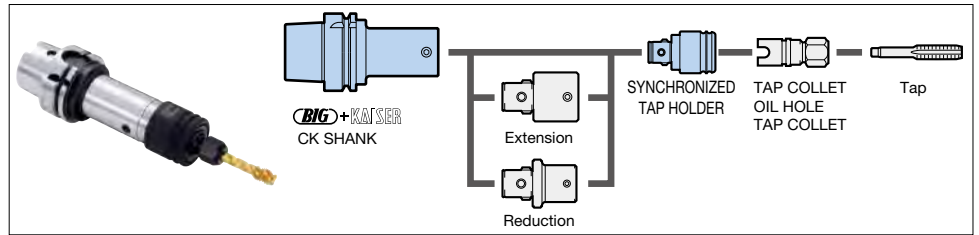


Tap Holder **A139**

MGT36 accessories **G32**

[STC]

- Flexible tool layout in combination with the **BIG** + **KAISER** CK Shanks.



Model	Tapping range	CK No.	øD	øD <sub>1</sub>	L	L <sub>1</sub>	Weight (kg)	Tap Collet
<b>CKB2-STC 8-47.5</b>	M 2 - M 4	CK2	25.5	15.8	30.5	17	0.10	TC 8-□
	M 5 - M 8			19				
<b>CKB3-STC12-66</b>	M 3 - M12	CK3	32	22	36	30	0.18	TC12-□
<b>CKB4-STC20-72</b>	M 7 - M12	CK4	44	22	47	25	0.42	TC20-□
	M14 - M20			31				
<b>CKB5-STC30-92</b>	M20 - M30	CK5	55	41	54	38	0.72	TC30-□

1. Tap Collet TC Type is not included but must be ordered separately if required.
2. Cannot be used with machining center without synchronized tapping function.
3. The extension can be used to allow tapping inside deep holes.
4. The L<sub>1</sub> dimension is 5mm longer with oil hole tap collets.

Tap Collets **A144**

Oil Hole Tap Collets **A145**

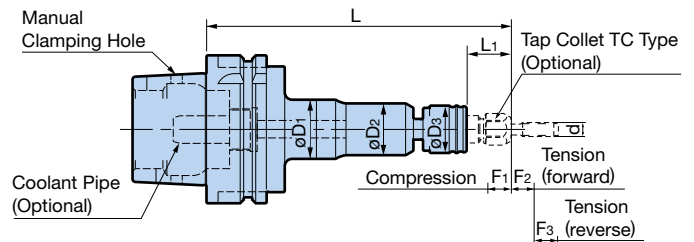
Holder **C25**

TAPPER

Simple and compact tapper with automatic depth control.

Automatic depth control

- Model Description
- HSK-A100** - **AUTO-B** **120** - **190**
- HSK Shank Type
- AUTO TAPPER B
- Tapping range
- L dimension



A Type

Model	Tapping range d	øD <sub>1</sub>	øD <sub>2</sub>	øD <sub>3</sub>	L	L <sub>1</sub>	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>	Weight (kg)	Applicable Tap Collet
<b>HSK-A100-AUTO-B120-190</b>	M 3 - M12	40	35	32	190	30	6	6	12.5	3.1	TC12-□
<b>-AUTO-B200-225</b>	M 7 - M20	54	48	44	225	25	6.5	6.5	13	4.1	TC20-□
<b>-AUTO-B300-255</b>	M20 - M30	63	58	55	255	38	7.5	7.5	14.5	5.1	TC30-□

1. Tap Collet is not included. TC Tap Collet must be ordered separately.
2. Cannot be used in left-hand thread tapping.
3. Be sure to include the approach amount (distance between the tap tip and workpiece) when programming the starting point of tapping.
4. Coolant pipe is not included. **C67**
5. F<sub>2</sub> in the table is the tension amount until it reaches neutral. Be sure to perform test tapping when accurate tapping depth is required, as it may fluctuate slightly depending on the tap size and cutting conditions.

Tap Collets **A144**

High runout accuracy is achieved through the adoption of the high-precision New Baby Chuck.

Spindle angle  
**90°**

## NEW BABY CHUCK Type



● Model Description

- HSK-A63** - **AG90** / **NBS** **6** - **185**
- HSK Shank Type
  - 90° Head Type
  - NEW BABY CHUCK System
  - Maximum clamping diameter
  - L dimension

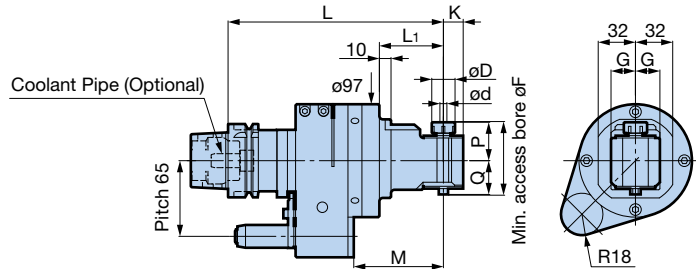


Fig. 1 Max.6,000min<sup>-1</sup>

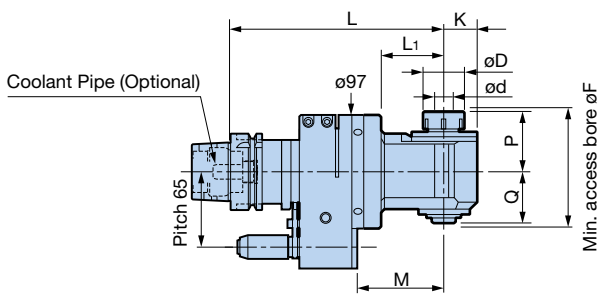


Fig. 2 Max.6,000min<sup>-1</sup>

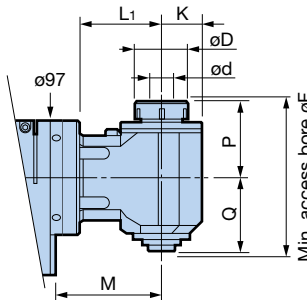


Fig. 3 Max.3,000min<sup>-1</sup>

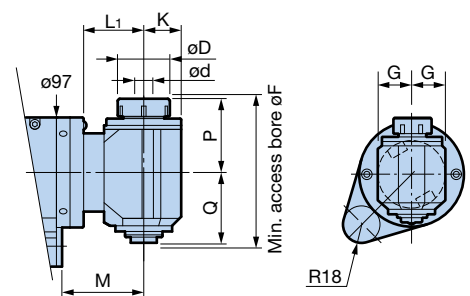


Fig. 4 High Rigidity Type Max.3,000min<sup>-1</sup>

- High rigidity S type with reinforced Locating Pin also available. Add the letter S at the end when ordering.
- Tap Collet with tension mechanism can also be used to perform tapping. (NBS10 or larger)

## A Type

Model	Fig.	$\phi d$	$\phi D$	G	K	L	L <sub>1</sub>	M	P	Q	$\phi F$	Collet Model	Speed Ratio Input:output	Weight (kg)	
														Standard	High Rigidity
HSK-A63-AG90/NBS 6 -185	1	0.25 - 6	20	21	17	185	55	77	33	29	67	NBC 6	1:1	5.0	5.9
						215	85	107						5.2	6.1
						245	115	137						5.4	6.3
						275	145	167						5.6	6.5
-AG90/NBS10 -185	2	1.5 - 10	30	30	25	185	55	77	45	43	91	NBC10	1:1	5.4	6.3
						215	85	107						5.8	6.7
						245	115	137						6.1	7.0
-AG90/NBS13 -185	2	2.5 - 13	35	31	28	185	55	77	52	45	101	NBC13	1:1	5.5	6.4
						215	85	107						5.9	6.8
						245	115	137						6.2	7.1
-AG90/NBS20 -200	3	2.5 - 20	46	35	35	200	70	92	65	62	132	NBC20	1:1	6.6	7.5
-AG90/NBS20S -180 S	4	2.5 - 20	46	35	33	180	53	72	65	62	132	NBC20	1:1	—	7.9

1. The cutting tool rotates in reverse to the machine spindle.
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Automatic tool change may not be available depending on machine tool models.
7. New Baby Endmill Collets cannot be used.
8. Coolant pipe is not included. (Cannot be used with center through)

Collets **G7**

Tap Collets **G17**

Insertion Length List **C42**

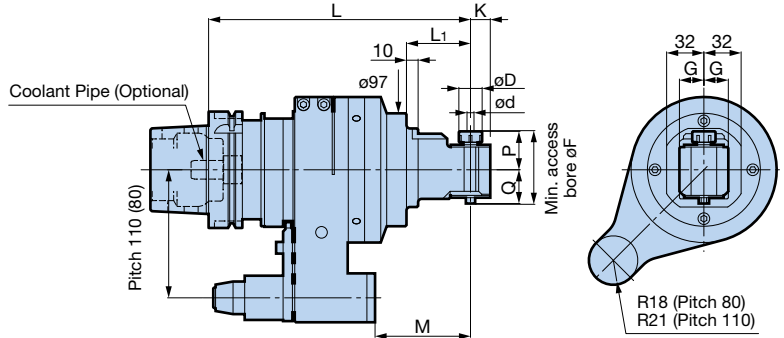
Stop Blocks **A170**



High runout accuracy is achieved through the adoption of the high-precision New Baby Chuck.

Spindle angle  
**90°**

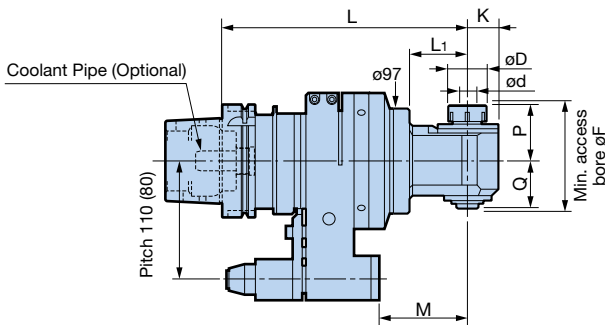
**NEW BABY CHUCK Type**



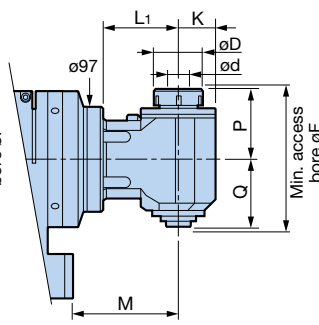
**Fig. 1** Max.6,000min<sup>-1</sup>

● Model Description

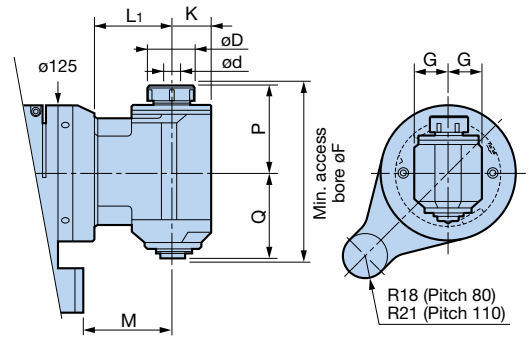
- HSK-A100 - AG90 / NBS 6 - 225**
- L dimension
  - Maximum clamping diameter
  - NEW BABY CHUCK System
  - 90° Head Type
  - HSK Shank Type



**Fig. 2** Max.6,000min<sup>-1</sup>



**Fig. 3** Max.3,000min<sup>-1</sup>



**Fig. 4** Double-speed Type  
Max.8,000min<sup>-1</sup>

- High rigidity S type with reinforced Locating Pin also available. Add the letter S at the end when ordering.
- Tap Collet with tension mechanism can also be used to perform tapping. (NBS10 or larger)

**A Type**

Model	Fig.	$\phi d$	$\phi D$	G	K	L	L <sub>1</sub>	M	P	Q	$\phi F$	Collet Model	Speed Ratio Input:output	Weight (kg)		
														Standard (pitch 110)	High Rigidity (pitch 110)	High Rigidity (pitch 80)
HSK-A100-AG90/NBS6-225	1	0.25 - 6	20	21	17	225	55	82	33	29	67	NBC 6	1:1	11.8	13.1	12.4
						255	85	112						12.0	13.3	12.6
						285	115	142						12.2	13.5	12.8
						315	145	172						12.4	13.7	13.0
-AG90/NBS10 -225	2	1.5 - 10	30	30	25	225	55	82	45	43	91	NBC10	1:1	12.2	13.5	12.8
						255	85	112						12.6	13.9	13.2
						285	115	142						12.9	14.2	13.5
-AG90/NBS13 -225	2	2.5 - 13	35	31	28	225	55	82	52	45	101	NBC13	1:1	12.3	13.6	12.9
						255	85	112						12.7	14.0	13.3
						285	115	142						13.0	14.3	13.6
-AG90/NBS20 -240	3	2.5 - 20	46	35	35	240	70	97	65	62	132	NBC20	1:1	13.4	14.7	14.0
-AG90/NBS16H-225	4	2.5 - 16	42	45	35	225	71	82	80	80	163	NBC16	1:2 (acceleration)	13.8	15.1	14.4

1. The cutting tool rotates in reverse to the machine spindle.
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Automatic tool change may not be available depending on machine tool models.
7. New Baby Endmill Collets cannot be used.
8. Coolant pipe is not included. (Cannot be used with center through)

Collets **G7**

Tap Collets **G17**

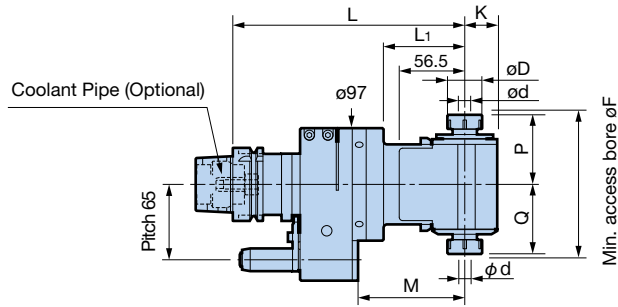
Insertion Length List **C42**

Stop Blocks **A170**

**[TWIN HEAD]** (180° diagonal)

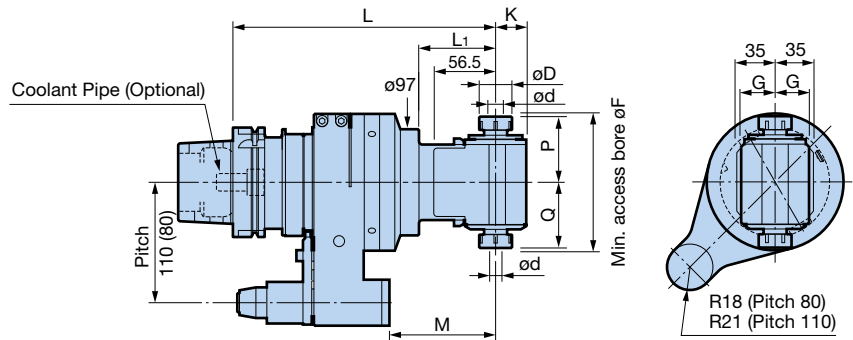
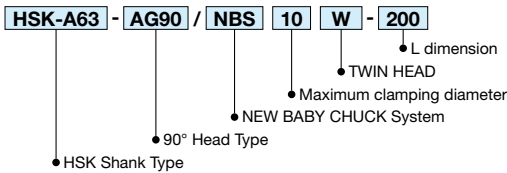
Spindle angle  
**90°**

- Twin spindle head with a compact design. Symmetrical machining can be performed using one unit, contributing to the reduction of the number of magazines.



**Fig. 1** Max.6,000min<sup>-1</sup>

● Model Description



**Fig. 2** Max.6,000min<sup>-1</sup>

- High rigidity S type with reinforced Locating Pin also available. Add the letter S at the end when ordering.
- Tap Collet with tension mechanism can also be used to perform tapping.

**A Type**

Model	Fig.	$\phi d$	$\phi D$	G	K	L	L <sub>1</sub>	M	P	Q	$\phi F$	Collet Model	Speed Ratio Input:output	Weight (kg)	
														Standard Type	High Rigidity Type
<b>HSK-A 63-AG90/NBS10W-200</b>	1	1.5 - 10	30	31	28	200	70	92	60	60	124	NBC10	1:1	6.2 (pitch 65)	7.1 (pitch 65)
<b>HSK-A100-AG90/NBS10W-240</b>	2	1.5 - 10	30	31	28	240	70	97	60	60	124	NBC10		13.0 (pitch 110)	14.3 (pitch 110)

- Output spindles do not rotate in forward direction simultaneously.
- Nut and wrench are included. Collet is not included.
- The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
- New Baby Endmill Collets cannot be used.
- A Stop Block is required when mounting on machines. Please order separately.
- Automatic tool change may not be available depending on machine tool models.
- When supplied through the Stop Block, coolant can be ejected from the housing.
- Coolant pipe is not included. (Cannot be used with center through) **C67**

- Collets **G7**
- Tap Collets **G17**
- Insertion Length List **C42**
- Stop Blocks **A170**

### Compact type

- Compact and lightweight while fully equipped with the functions and accuracy required in drilling!

Spindle angle  
**90°**

For drilling/tapping



Lightweight  
&  
Compact

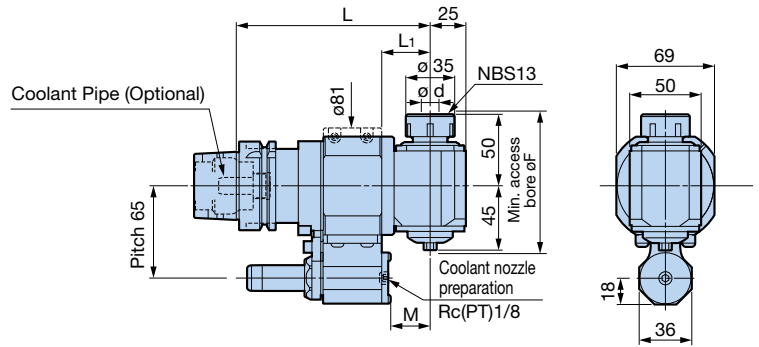


Fig. 1 Max.5,000min<sup>-1</sup>

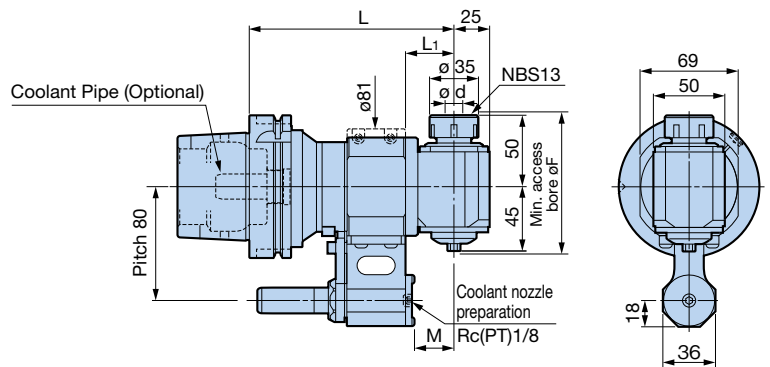


Fig. 2 Max.5,000min<sup>-1</sup>

● Model Description

**HSK-A63 - AG90 - 13 - 135**

- L dimension
- Maximum clamping diameter
- 90° Head Type
- HSK Shank Type

### A Type

- Tap Collet with tension mechanism can also be used to perform tapping.

Model	Fig.	$\varnothing d$	L	L <sub>1</sub>	M	$\varnothing F$	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-AG90-13-135 -185	1	2.5 - 13	135	34	27.85	99	NBC13	1:1	4.4
			185	84	77.85				5.4
HSK-A100-AG90-13-145 -195	2	2.5 - 13	145	34	27.85	99	NBC13	1:1	6.8
			195	84	77.85				7.8

1. The cutting tool rotates in reverse to the machine spindle.
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. A tapped hole (PT1/8) is prepared at the bottom cover of the Locating Pin housing so that a pipe for coolant can be connected.
6. Automatic tool change may not be available depending on machine tool models.
7. New Baby Endmill Collets cannot be used.
8. Coolant pipe is not included. (Cannot be used with center through)

Collets **G7**

Tap Collets **G17**

Insertion Length List **C42**

Stop Blocks **A170**



### Application example



Compact yet with high rigidity and runout accuracy, allowing stable machining.

	Drilling	Tapping
Tools used	$\varnothing 12$ carbide drill	M5 Tap
Workpiece material	S50C	A2017
Cutting speed	70m/min	7.5m/min
Feed	372mm/min	384mm/min
	0.2mm/rev	
Spindle speed	1,860min <sup>-1</sup>	450min <sup>-1</sup>

## Oil Hole Type

- Feeds coolant through the cutting tool via Stop Block.

Spindle angle  
**90°**

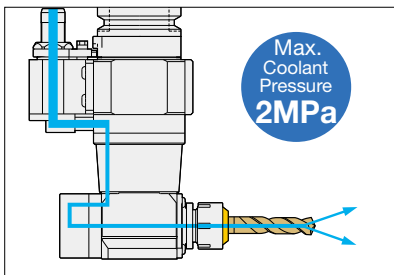
For drilling

Coolant through tool



● Model Description

- HSK-A63** - **O** **AG90** - **13** - **185**
- HSK Shank Type
  - Oil Hole
  - 90° Head Type
  - Maximum clamping diameter
  - L dimension



Feeds oil from the cutting edge via Stop Block

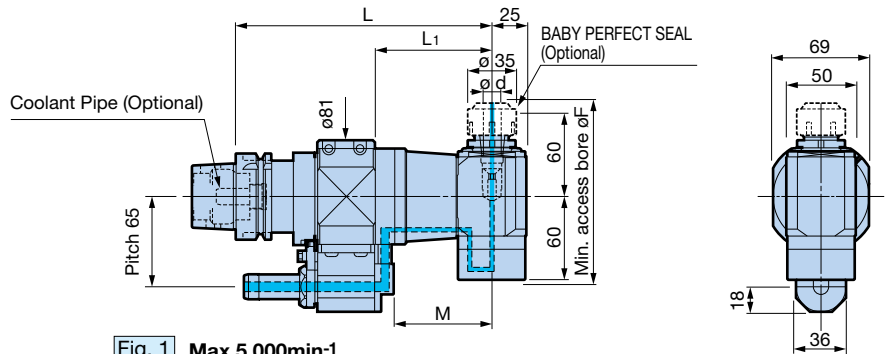


Fig. 1 Max.5,000min<sup>-1</sup>

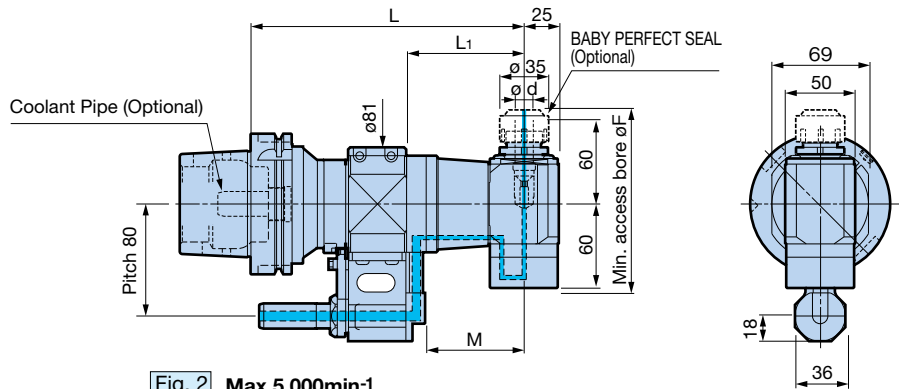


Fig. 2 Max.5,000min<sup>-1</sup>

## A Type

Model	Fig.	$\varnothing d$	L	L <sub>1</sub>	M	$\varnothing F$	Collet Model	Speed Ratio Input:output	Weight (kg)
<b>HSK-A 63-OAG90-13-185</b>	1	2.5 - 13	185	84	70.5	133	NBC13	1:1	5.9
<b>HSK-A100-OAG90-13-195</b>	2	2.5 - 13	195	84	70.5	133	NBC13	1:1	8.4

- The cutting tool rotates in reverse to the machine spindle.
- For use with an oil hole drill only. Never run without supplying coolant through the unit.
- Baby Perfect Seal nut with sealing mechanism is required. Please order separately.
- Collet is ordered separately.
- Wrench and Adjusting Screw are included.
- The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
- A Stop Block is required when mounting on machines. Please order separately.
- Automatic tool change may not be available depending on machine tool models.
- Coolant pipe is not included. (Cannot be used with center through) C67

Collets **G7**

Baby Perfect Seal **G15**

Stop Blocks **A170**



## NEW BABY CHUCK Insertion Length List

Model	Tool adjustment amount	Max. insertion length	Adjust Screw	Model	Tool adjustment amount	Max. insertion length	Adjust Screw
<b>HSK-A63-AG90/NBS6</b>	-	33	-	<b>HSK-A100-AG90/NBS6</b>	-	33	-
<b>HSK-A63-AG90/NBS10</b>		45		<b>HSK-A100-AG90/NBS10</b>		45	
<b>HSK-A63-AG90/NBS13</b>		52		<b>HSK-A100-AG90/NBS13</b>		52	
<b>HSK-A63-AG90/NBS20-200</b>		70		<b>HSK-A100-AG90/NBS20-240</b>		70	
<b>HSK-A63-AG90/NBS20S-180S</b>		70		<b>HSK-A100-AG90/NBS16H-225</b>		98	
<b>HSK-A63-AG90/NBS10W-200</b>		60		<b>HSK-A100-AG90/NBS10W-240</b>		60	
<b>HSK-A63-AG45/NBS10-230</b>		45		<b>HSK-A100-AG45/NBS10-270</b>		45	
<b>HSK-A63-AG45/NBS13-235</b>		52		<b>HSK-A100-AG45/NBS13-275</b>		52	
<b>HSK-A63-AGU/NBS13-285</b>		50		<b>HSK-A100-AGU/NBS20-325</b>		50	
<b>HSK-A63-AGU30/NBS13-255</b>		41 - 53		73		<b>NBA13B</b>	
<b>HSK-A63-AG90-13-135</b>	-	50	-	<b>HSK-A100-AG90-13-145</b>	-	50	-
<b>HSK-A63-AG90-13-185</b>				<b>HSK-A100-AG90-13-195</b>			
<b>HSK-A63-OAG90-13-185</b>				<b>HSK-A100-OAG90-13-195</b>			
	36 - 40	60	<b>NBA13B</b>		36 - 40	60	<b>NBA13B</b>

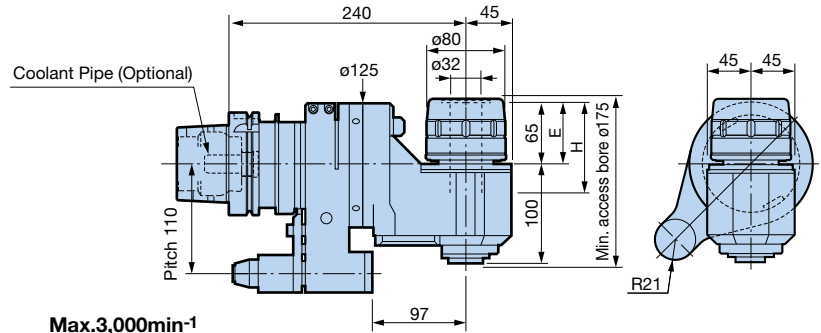
Highly versatile  $\phi 32$  milling chuck is used.  
Straight Collets allow the use of tools with various diameters.

Spindle angle  
**90°**

**HMC32 Type**

**[Standard type]**

- High-rigidity milling chuck type that allows the most commonly used cylindrical shanks to be mounted.

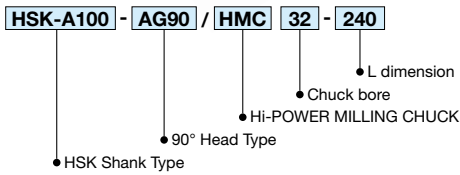


Max.3,000min<sup>-1</sup>

Model	Max. insertion depth H	Min. clamping Length E	Speed ratio Input:output	Weight (kg)
<b>HSK-A100-AG90/HMC32-240</b>	95	65	1:1	16.0

1. The cutting tool rotates in forward to the machine spindle.
2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
3. A Stop Block is required when mounting on machines. Please order separately.
4. Automatic tool change may not be available depending on machine tool models.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Coolant pipe is not included.
7. Wrench is included. (Model: **FK80-90**)

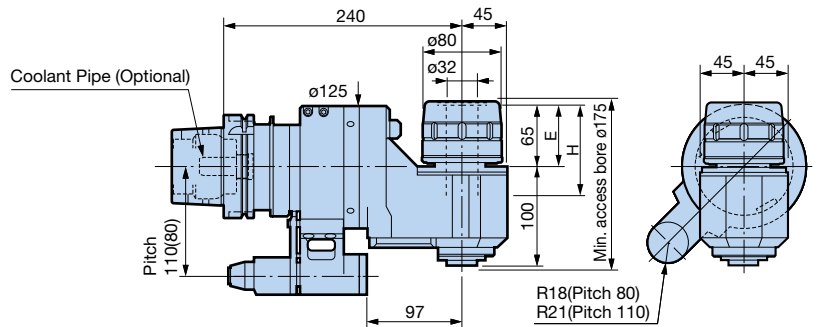
● Model Description



Straight Collets **G28**  
Stop Blocks **A170**

**[High rigidity S type]**

- About 30% higher rigidity compared to standard type

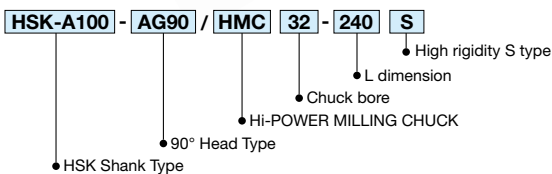


Max.3,000min<sup>-1</sup>

Model	Max. insertion depth H	Min. clamping Length E	Speed ratio Input:output	Weight (kg)	
				Pitch 110	Pitch 80
<b>HSK-A100-AG90/HMC32-240S</b>	95	65	1:1	17.3	16.6

1. The cutting tool rotates in forward to the machine spindle.
2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
3. A Stop Block is required when mounting on machines. Please order separately.
4. Automatic tool change may not be available depending on machine tool models.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Coolant pipe is not included.
7. Wrench is included. (Model: **FK80-90**)

● Model Description



Straight Collets **G28**  
Stop Blocks **A170**



Offset design provides optimum tool projection with each adapter.

Spindle angle  
**90°**

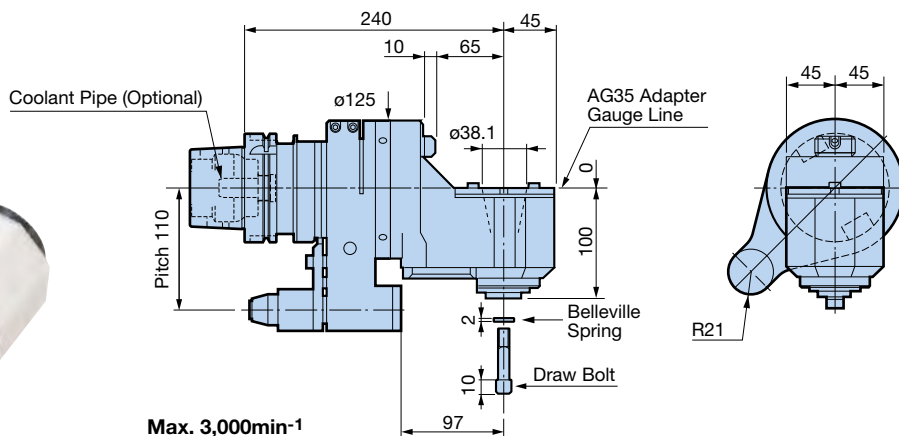
## BUILD-UP Type [Standard type]



### Model Description

**HSK-A100** - **AG90** / **AGH35** - **240**

- HSK Shank Type
- 90° Head Type
- For AG35 Adapter
- L dimension



## A Type

Model	Speed ratio Input:output	Weight (kg)
<b>HSK-A100-AG90/AGH35-240</b>	1:1	14.2

1. The cutting tool rotates in forward to the machine spindle.
2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
3. A Stop Block is required when mounting on machines. Please order separately.
4. Automatic tool change may not be available depending on machine tool models.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Coolant pipe is not included.  
(Cannot be used with center through coolant/air) C67
7. Wrench is included. (Model: **FK80-90**)



The AG35 adapter series **A164**

Stop Blocks **A170**

## [High rigidity S type]

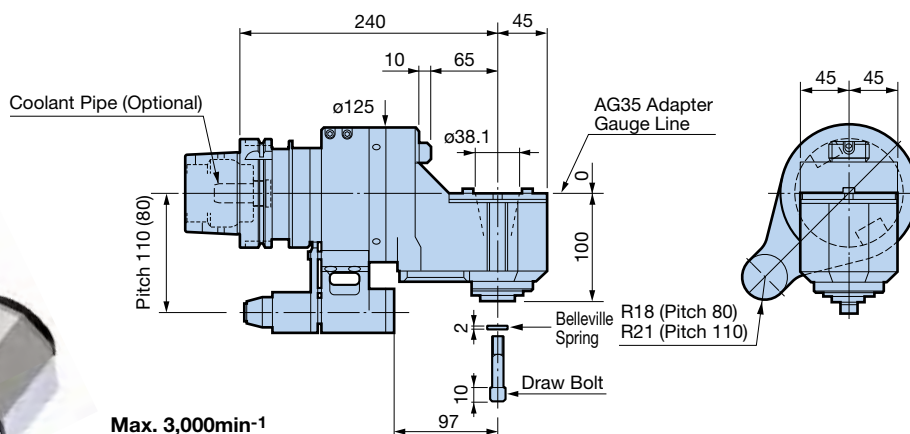
- About 30% higher rigidity compared to standard type



### Model Description

**HSK-A100** - **AG90** / **AGH35** - **240** **S**

- HSK Shank Type
- 90° Head Type
- For AG35 Adapter
- L dimension
- High rigidity S type



## A Type

Model	Speed ratio Input:output	Weight (kg)	
		Pitch 110	Pitch 80
<b>HSK-A100-AG90/AGH35-240S</b>	1:1	15.5	14.8

1. The cutting tool rotates in forward to the machine spindle.
2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
3. A Stop Block is required when mounting on machines. Please order separately.
4. Automatic tool change may not be available depending on machine tool models.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Coolant pipe is not included.  
(Cannot be used with center through coolant/air) C67
7. Wrench is included. (Model: **FK80-90**)



The AG35 adapter series **A164**

Stop Blocks **A170**

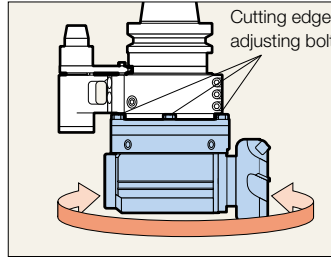
Spindle angle  
**90°**

Face Milling Type

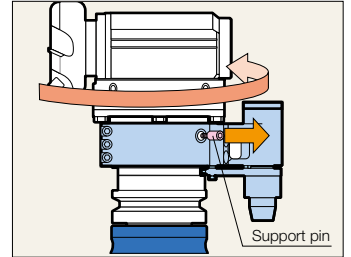
- Tool life is improved by high-rigidity bearings and optimum spindle dimensions!
- Series' highest rotation transmission force of 20kw (at 1,500min<sup>-1</sup>)
- 90° indexing mechanism is used to allow index of 90° increments after adjustment. (Indexing accuracy ±5')



■ Cutting edge direction freely adjustable in 360°  
· The cutting edge direction can be easily set at any angle through 360 degrees simply by loosening its adjustment bolts (8 positions).

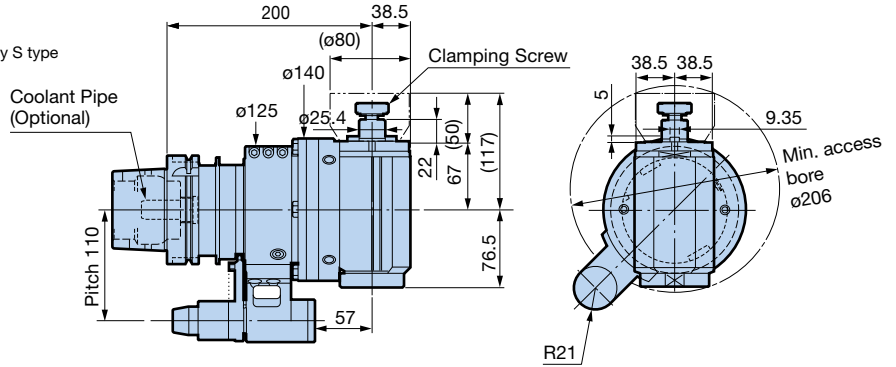
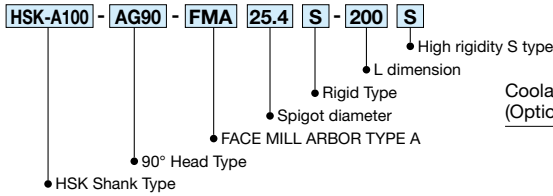


■ Cutting edge direction indexable in 90° increments  
· Indexing can be done in 90° increments after the cutting edge is adjusted. (Remove the support pin to adjust the cutting edge direction in 90° increments)



▲ Note: Be sure to remove from the machine before setting in 90° increments.

● Model Description



Max. 1,500min<sup>-1</sup>

A Type

Model	Speed ratio Input/output	Weight (kg)
<b>HSK-A100-AG90-FMA25.4S-200S</b>	1:1	18.4

Figures in ( ) indicate dimensions when 80mm diameter and 50mm high face mill cutter is mounted.

1. The cutting tool rotates in reverse to the machine spindle.
2. Coolant cannot be supplied through the Locating Pin.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. Automatic tool change may not be available depending on machine tool models.
6. Coolant pipe is not included. (Cannot be used with center through)



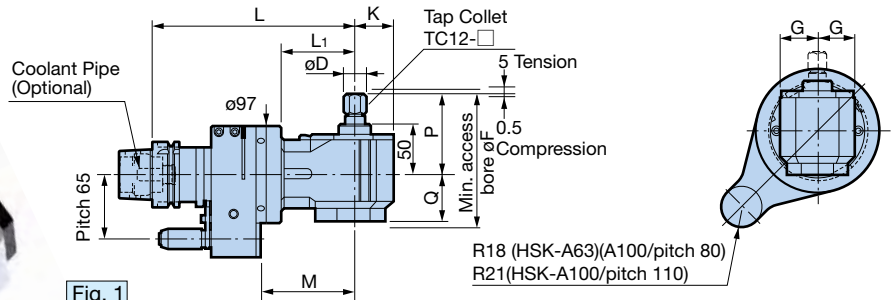
Stop Blocks **A170**



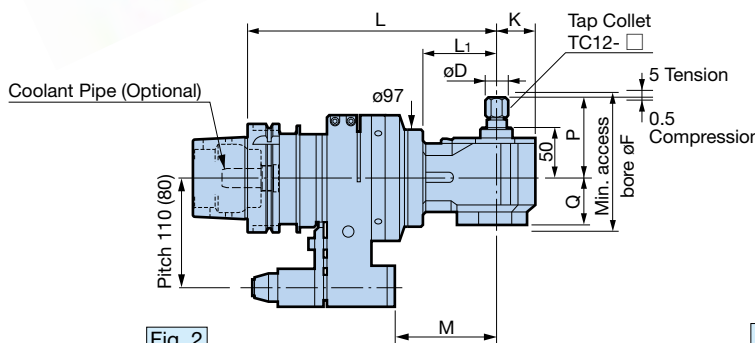
## Tapper Type

Spindle angle  
**90°**

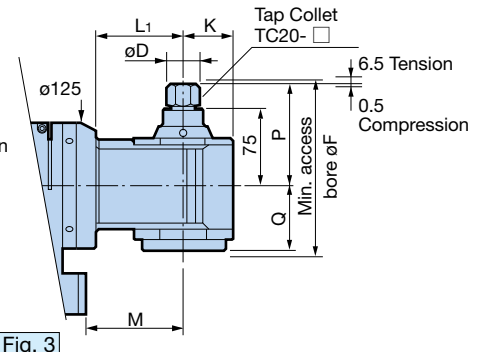
- Tapping depth is adjusted with automatic depth control.
- Spindle speed is reduced by half to achieve increased transmission torque.



**Fig. 1**  
Max. 2,000min<sup>-1</sup>

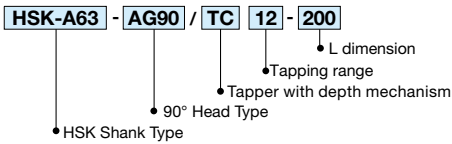


**Fig. 2**  
Max. 2,000min<sup>-1</sup>



**Fig. 3**  
Max. 1,000min<sup>-1</sup>

● Model Description



● High rigidity S type with reinforced Locating Pin is also available. Add the letter S at the end when ordering.

## A Type

Model	Fig.	Tapping range d	øD	G	K	L	L <sub>1</sub>	M	P	Q	øF	Collet Model	Speed ratio Input:output	Weight (kg)		
														Standard (pitch)	High Rigidity (pitch)	High Rigidity (pitch 80)
HSK-A 63-AG90/TC12-200□	1	M3 - M12	22	38	39	200	70	92	80	46	135	TC12-□	2:1 (Deceleration)	6.9 ( 65)	7.8 ( 65)	—
HSK-A100-AG90/TC12-240□	2	M3 - M12	22	38	39	240	70	97	80	46	135	TC12-□		13.7 (110)	15.0 (110)	14.3
-AG90/TC20-240□	3	M7 - M20	22/31	49	49	240	86	97	100	66.5	178	TC20-□		15.5 (110)	16.8 (110)	16.1

- The cutting tool rotates in reverse to the machine spindle.
- TC Tap Collet is not included. Please order separately.
- The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
- Note that tap rotation is reduced to half the speed of the machine spindle.

- A Stop Block is required when mounting on machines. Please order separately.
- When supplied through the Stop Block, coolant can be ejected from the housing.
- Automatic tool change may not be available depending on machine tool models.
- Coolant pipe is not included. (Cannot be used with center through) **C67**



TC Tap Collets **A144**

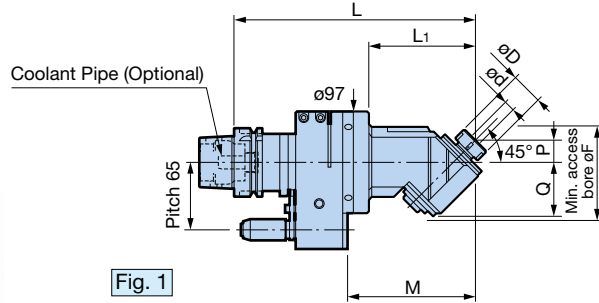
Stop Blocks **A170**

45° exclusive fixing housing brings about secure diagonal machining.

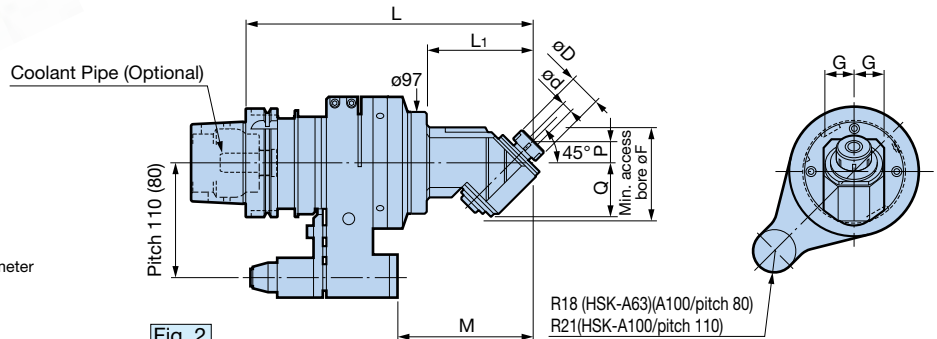
- Highly versatile NEW BABY CHUCK enables high-accuracy machining.

Spindle angle  
**45°**

**NEW BABY CHUCK Type**



**Fig. 1**  
Max.6,000min<sup>-1</sup>



**Fig. 2**  
Max.6,000min<sup>-1</sup>

● Model Description

**HSK-A63 - AG45 / NBS10 - 230**

- L dimension
- Maximum clamping diameter
- NEW BABY CHUCK System
- 45° Head Type
- HSK Shank Type

- High rigidity S type with reinforced Locating Pin also available. Add the letter S at the end when ordering.
- Tap Collet with tension mechanism can also be used to perform tapping.

**A Type**

Model	Fig.	ød	øD	G	L	L <sub>1</sub>	M	P	Q	øF	Collet Model	Speed ratio Input:output	Weight (kg)		
													Standard Type (pitch)	High Rigidity Type (pitch)	High Rigidity Type (pitch 80)
HSK-A 63-AG45/NBS10-230	1	1.5 - 10	30	30	230	100	122	20	51.5	90	NBC10	1:1	5.6 ( 65)	6.5 ( 65)	—
		2.5 - 13	35		235	105	127	25					5.7 ( 65)	6.6 ( 65)	—
HSK-A100-AG45/NBS10-270	2	1.5 - 10	30	30	270	100	127	20	51.5	90	NBC10	1:1	12.4 (110)	13.7 (110)	13.0
		2.5 - 13	35		275	105	132	25					12.5 (110)	13.8 (110)	13.1

1. The cutting tool rotates in reverse to the machine spindle.
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. When supplied through the Stop Block, coolant can be ejected from the housing.
6. Automatic tool change may not be available depending on machine tool models.
7. New Baby Endmill Collets cannot be used.
8. Coolant pipe is not included. (Cannot be used with center through)

Collets **G7**

Tap Collets **G17**

Insertion Length List **C42**

Stop Blocks **A170**



Clamping diameter:  $\phi 2.5 - \phi 20$

The cutting edge angle can be freely adjusted, making it ideal for machining the corners of molds in deep areas.

- The original 1° indexing mechanism allows easy angle adjustment.
- Robust clamping mechanism allows secure endmilling.

Spindle angle  
**0° - 90°**

## Universal Type



Indexing mechanism in 1° increments

Accurate angle adjustment is possible simply by tightening the angle setting pin.

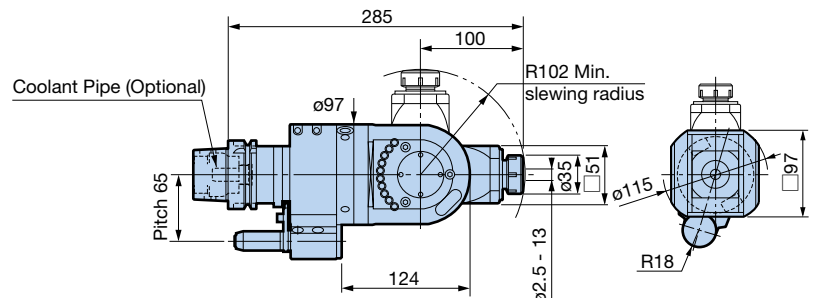
The spindle angle can be adjusted in the range of 0° to 90°

The 1° angle indexing mechanism allows the angle to be easily set. (Indexing accuracy  $\pm 5'$ )

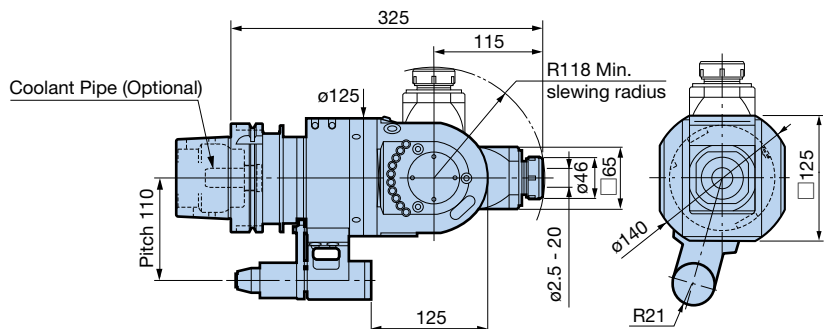
● Model Description

**HSK-A63** - **AGU** / **NBS 13** - **285**

- HSK Shank Type
- Universal type
- NEW BABY CHUCK System
- Maximum clamping diameter
- L dimension



**Fig. 1 Max. 6,000min<sup>-1</sup>**



**Fig. 2 Max. 4,000min<sup>-1</sup>**

## A Type

Model	Fig.	Collet Model	Speed ratio Input:output	Weight (kg)
<b>HSK-A 63-AGU/NBS13-285</b>	1	NBC13	1:1	9.6
<b>HSK-A100-AGU/NBS20-325</b>	2	NBC20	1:1	20.0

1. The cutting tool rotates in reverse to the machine spindle.
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. Automatic tool change may not be available depending on machine tool models.
6. Coolant pipe is not included. (Cannot be used with center through)

● Tap Collet with tension mechanism can also be used to perform tapping.

Collets **G7**

Tap Collets **G17**

Insertion Length List **C42**

Stop Blocks **A170**



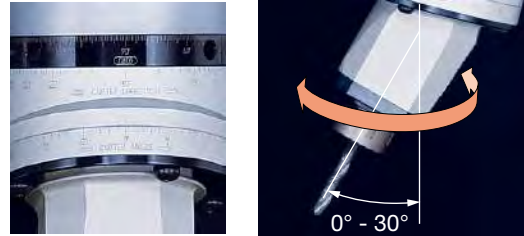
## Machining examples Easy angle setup

- Drilling or endmilling on angled surfaces
- Inner corner rounding
- Profiling with ball endmill
- Machining draft angle of molds

Spindle angle  
**0° - 30°**

**AGU30 Type**

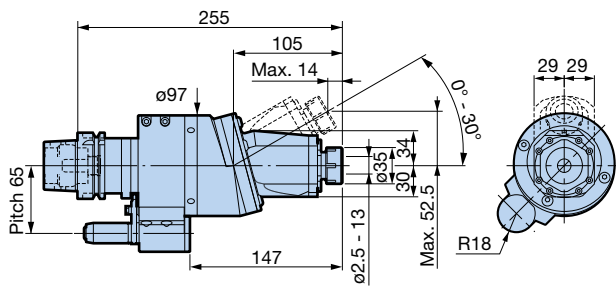
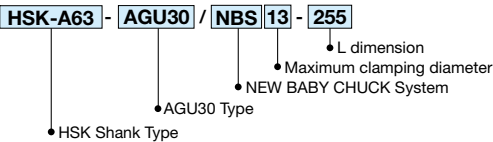
- Spindle angle adjustable 0°- 30°.
- Rigidity is improved by the flange coupling in the swivel!
- The new drive system achieves high transmission torque, low vibration and noise.



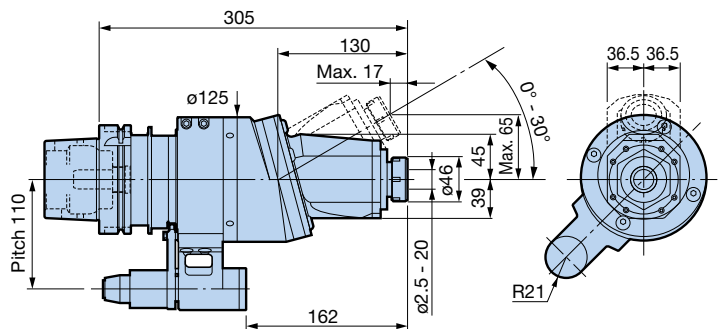
**Angle adjustment by scale alignment**

The angle spindle can be easily adjusted between 0° and 30° just by aligning to the scale provided on the swivel.

● Model Description



**Fig. 1** Max. 6,000min<sup>-1</sup>



**Fig. 2** Max. 4,000min<sup>-1</sup>

**A Type**

Model	Fig.	Collet Model	Speed Ratio Input:output	Weight (kg)
<b>HSK-A 63-AGU30/NBS13-255</b>	1	NBC13	1:1	6.8
<b>HSK-A100-AGU30/NBS20-305</b>	2	NBC20	1:1	15.3

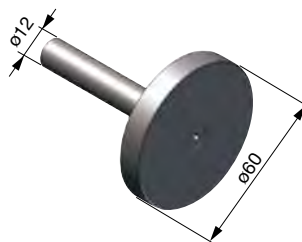
● Tap Collet with tension mechanism can also be used to perform tapping.

1. The cutting tool rotates in forward to the machine spindle.
2. Nut and wrench are included. Collet and Adjust Screw are not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. Automatic tool change may not be available depending on machine tool models.
6. When supplied through the Stop Block, coolant can be ejected from the housing.
7. Coolant pipe is not included. (Cannot be used with center through)

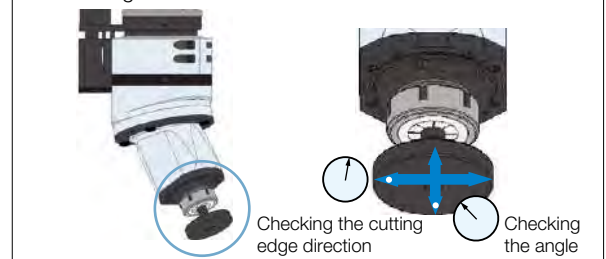
- Collets **G7**
- Tap Collets **G17**
- Insertion Length List **C42**
- Stop Blocks **A170**

■ **SETTING DISK** (Standard accessory)

· Use when accurate angle setting or fine adjustment of the cutting edge direction is required.



The angle and cutting edge direction can be adjusted using the setting disk.



## Small bore type

- Achieves inner-diameter lateral drilling with minimum access bore of  $\phi 30$ . (For CA6SGM, min. access bore  $\phi 40$ )
- Prevents interference through flexible combination of base units and heads.
- The head is positioned at the center of the spindle, enabling easy programming.

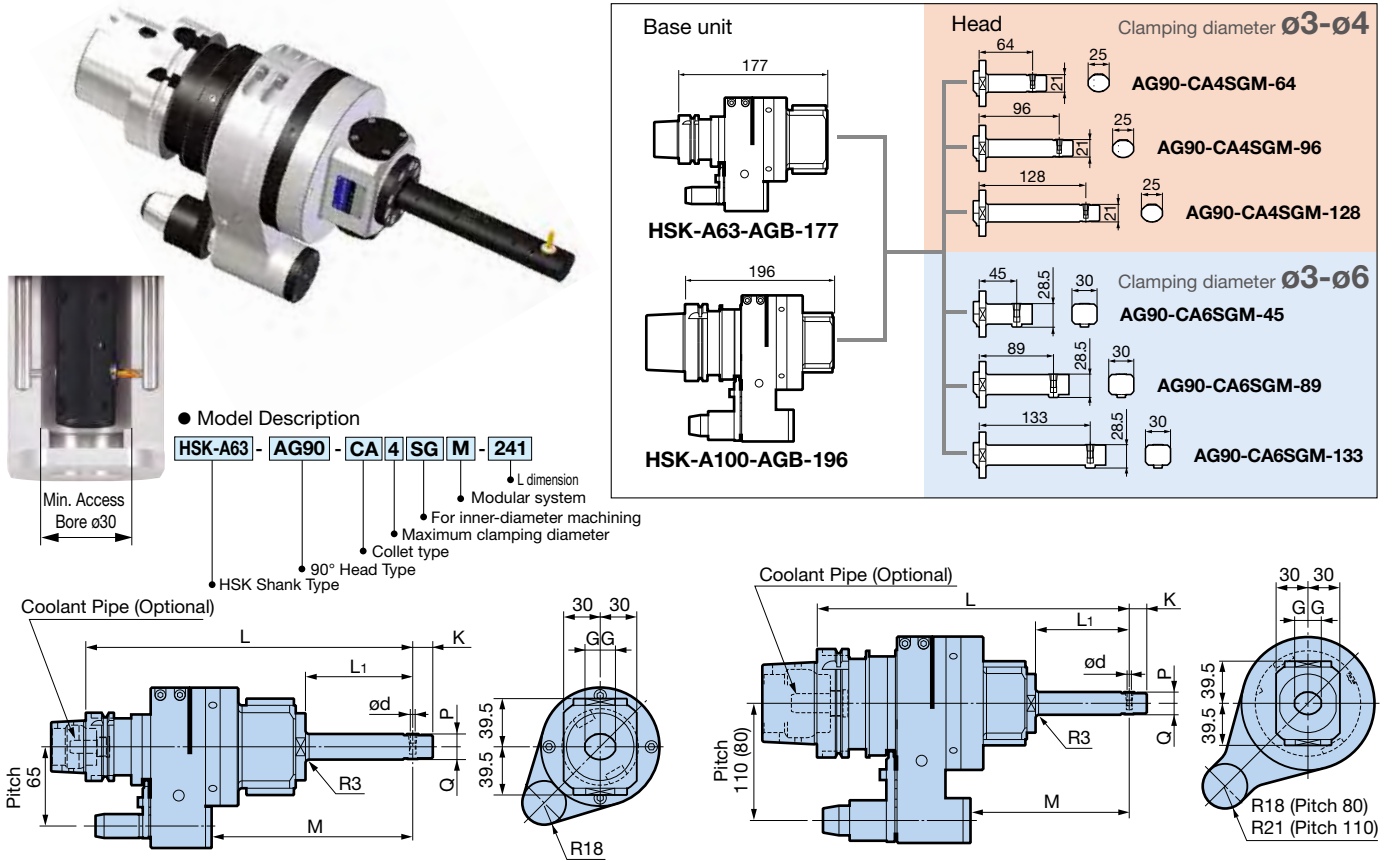


Fig. 1 Max. 2,000min<sup>-1</sup>

Fig. 2 Max. 2,000min<sup>-1</sup>

## A Type

Set Model	Base Model	Head Model	Fig.	$\phi d$	G	K	L	L <sub>1</sub>	M	P	Q	Speed Ratio Input:output	Weight (kg)									
													Pitch 65	Pitch 80	Pitch 110							
<b>HSK-A 63-AG90-CA4SGM-241</b>	HSK-A63-AGB-177	AG90-CA4SGM- 64	1	3 - 4	12.5	16.5	241	56	133	10.5	10.5	1:1.06 (Acceleration)	5.5									
-273		- 96					273	88	165				5.6									
-305		-128					305	120	197				5.7									
<b>-CA6SGM-222</b>		AG90-CA6SGM- 45					2	3 - 6	15				20	222	37	114	12.5	16	1:0.77 (Deceleration)	5.6		
-266		- 89												266	81	158				5.8		
-310		-133												310	125	202				6.0		
<b>HSK-A100-AG90-CA4SGM-260</b>	AG90-CA4SGM- 64	HSK-A100-AGB-196	3 - 4	12.5	16.5	260				56	117	10.5		10.5	1:1.06 (Acceleration)	11.7				11.1		
-292	- 96					292	88	149	11.8	11.2												
-324	-128					324	120	181	11.9	11.3												
<b>-CA6SGM-241</b>	AG90-CA6SGM- 45					3 - 6	15	20	241	37	98		12.5			16	1:0.77 (Deceleration)	11.8	11.2			
-285	- 89								285	81	142							12.0	11.4			
-329	-133								329	125	186							12.2	11.6			

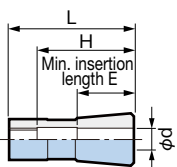
- The cutting tool rotates in forward to the machine spindle.
- Models with pitch 80 carry "S" at the end of the model number.
- The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
- A Stop Block is required when mounting on machines. Please order separately.
- Automatic tool change may not be available depending on machine tool models.

- Wrench is included. Exclusive collet is not included. Please order separately.
- Coolant cannot be supplied through the Locating Pin.
- Coolant pipe is not included. (Cannot be used with center through)



Stop Blocks **A170**

### Exclusive collet



- Model Description**  
**CA 4 - 3**  
 Clamping diameter | Body size | Collet type

Model	Clamping diameter $\phi d$	H	E	L
<b>CA4-3</b>	3	12.8	7.5	16.5
-3.5	3.5			
-4	4			

1. Use only cutting tools that have a shank tolerance within h7.

Model	Clamping diameter $\phi d$	H	E	L
<b>CA6-3</b>	3	16	7.5	22
-4	4			
-5	5			
-6	6			



The ultra-precision spindle enables challenging micromachining!

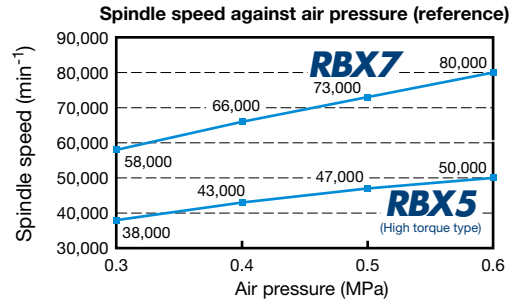
Machine spindle rotation **zero**

Max. **80,000**min<sup>-1</sup>

Ceramic ball bearing type  
**RBX Series**

- Achieves efficient and accurate micromachining with excellent runout accuracy in the max. spindle speed range.

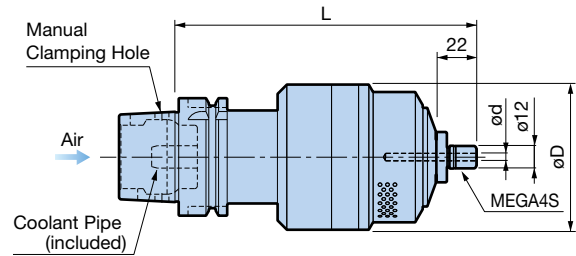
	<b>RBX5</b> (High torque type)	<b>RBX7</b>
Operating spindle speed (min <sup>-1</sup> )	40,000 - 50,000	60,000 - 80,000
Clamping diameter	ø0.45 - 4.05mm (MEGA4S)	
Spindle nose runout accuracy	Within 1 μm	
Air pressure	0.3 - 0.6MPa	
Air flow rate	300L/min [ANR] (at 0.6MPa)	



## [Center Through Type]



ATC compatible



## A Type

Model	Operating spindle speed (min <sup>-1</sup> )	Clamping diameter ød	Usable tool diameter	øD	L	Mega Nut	Collet Model	Weight (kg)
<b>HSK-A 63-RBX5C-4S-160</b>	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	160	MGN4S	NBC4S	3.9
<b>-RBX7C-4S-160</b>	60,000 - 80,000		ø1.0 or smaller	78				2.9
<b>HSK-A100-RBX5C-4S-165</b>	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	165	MGN4S	NBC4S	5.9
<b>-RBX7C-4S-165</b>	60,000 - 80,000		ø1.0 or smaller	78				4.9

1. Nut, exclusive wrench (RBX5,7 → **XW27**) and Mega Wrench (**MGR12**) are included. Collet is not included. Please order separately.

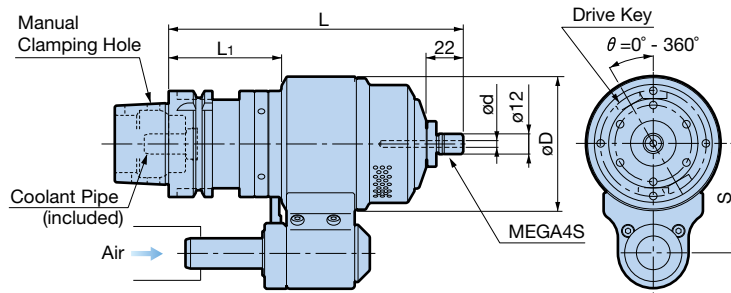
2. Air filter regulator (XF1) is required. **A178**

**G4** Micro Collets



• Clean air is an essential condition for the use of this product. Therefore, coolant should never be supplied through the spindle of the machine using the Air Turbine Spindle.

## [Side Through Type]



Max.  
**80,000min<sup>-1</sup>**

Machine spindle  
rotation **ZERO**

**ATC compatible**

## A Type

Model	Operating spindle speed (min <sup>-1</sup> )	Clamping diameter ød	Usable tool diameter	øD	L	L <sub>1</sub>	S	Mega Nut	Collet Model	Weight (kg)
HSK-A 63-RBX5-4S-175-65 -RBX7-4S-175-65	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	175	67	65	MGN4S	NBC4S	4.8
	60,000 - 80,000		ø1.0 or smaller	80						3.8
HSK-A100-RBX5-4S-180-80 -RBX7-4S-180-80	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	100	180	72	80	MGN4S	NBC4S	9.4
	60,000 - 80,000		ø1.0 or smaller							80

1. Nut, exclusive wrench (RBX5,7 → XW27) and Mega Wrench (MGR12) are included. Collet is not included. Please order separately.

2. Air filter regulator (XF1) is required. **A178**

RBX5, RBX7 nut **G6**

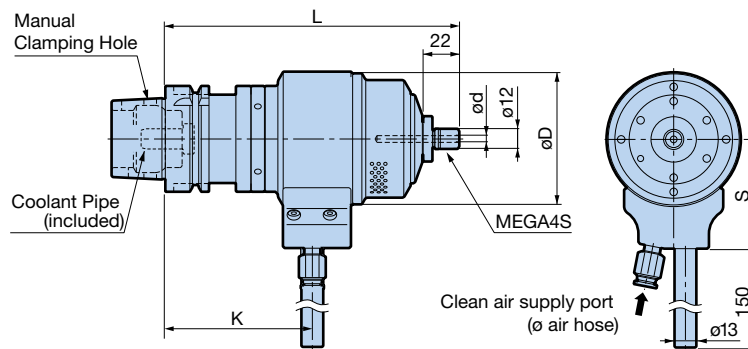
Micro Collets **G4**

Stop Blocks **A170**



## [Manual Tool Change Type]

- Easy installation as Stop Block is not needed.



Max.  
**80,000min<sup>-1</sup>**

Machine spindle  
rotation **ZERO**

## A Type

Model	Operating spindle speed (min <sup>-1</sup> )	Clamping diameter ød	Usable tool diameter	øD	L	K	S	Mega Nut	Collet Model	Weight (kg)
HSK-A 63-RBX5-4S-175H -RBX7-4S-175H	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	175	87	71	MGN4S	NBC4S	4.8
	60,000 - 80,000		ø1.0 or smaller	80			65			3.8
HSK-A100-RBX5-4S-180H -RBX7-4S-180H	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	100	180	92	80	MGN4S	NBC4S	9.4
	60,000 - 80,000		ø1.0 or smaller							80

1. Nut, exclusive wrench (RBX5,7 → XW27) and Mega Wrench (MGR12) are included. Collet is not included. Please order separately.

2. Air filter regulator (XF1) is required. **A178**

RBX5, RBX7 nut **G6**

Micro Collets **G4**



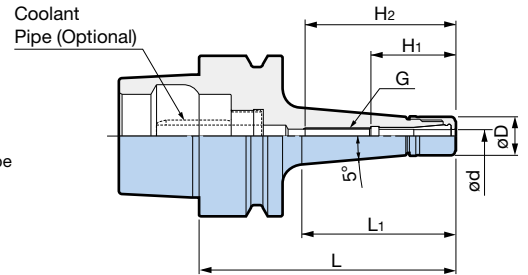
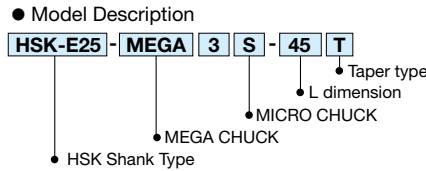
Ultra-slim design with  $\varnothing 10$  nut outer diameter.  
Slim and high speed holder for less interference with the workpiece or jig.

Center through

Max.  
**60,000min<sup>-1</sup>**

**[High Rigidity Taper Type]**

- Ultra-fine endmilling supported.



**E Type**

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-E25-MEGA3S- 45T</b> ※	0.45 - 3.25	10	45	32	22	(32)	—	NBC3S-□	0.06
- 60T			60	48		38	M4 P0.7		0.08
<b>-MEGA4S- 45T</b> ※	0.45 - 4.05	12	45	33	26.5	(32)	—	NBC4S-□	0.07
- 60T			60	49		41	M5 P0.8		0.09
<b>-MEGA6S- 45T</b> ※	0.45 - 6.05	14	45	33	28.5	(31)	—	NBC6S-□	0.07
- 60T			60	49		40	M7 P0.75		0.09
<b>HSK-E32-MEGA3S- 60T</b>	0.45 - 3.25	10	60	35	22	38	M4 P0.7	NBC3S-□	0.15
- 75T			75	50		38			0.17
<b>-MEGA4S- 45T</b> ※	0.45 - 4.05	12	45	23	26.5	(26)	—	NBC4S-□	0.14
- 60T			60	35		46	M5 P0.8		0.16
<b>-MEGA6S- 45T</b> ※	0.45 - 6.05	14	45	23	28.5	(28)	—	NBC6S-□	0.14
- 60T			60	36		38	M7 P0.75		0.17
<b>-MEGA8S- 60T</b> ※	2.95 - 8.05	18	60	38	31	(43)	—	NBC8S-□	0.18
<b>HSK-E40-MEGA3S- 60T</b>	0.45 - 3.25	10	60	35	22	39	M4 P0.7	NBC3S-□	0.23
- 75T			75	50		38			0.25
<b>-MEGA4S- 60T</b>	0.45 - 4.05	12	60	35	26.5	44	M5 P0.8	NBC4S-□	0.24
- 75T			75	50		47			0.27
<b>-MEGA6S- 60T</b> ※	0.45 - 6.05	14	60	35	28.5	(42)	—	NBC6S-□	0.24
- 75T			75	50		49	M7 P0.75		0.27
- 90T			90	65		49	0.32		
<b>HSK-E50-MEGA3S- 80T</b>	0.45 - 3.25	10	80	49	22	38	M4 P0.7	NBC3S-□	0.5
<b>-MEGA4S- 80T</b>	0.45 - 4.05	12		48	26.5	47	M5 P0.8	NBC4S-□	0.5
<b>-MEGA6S- 80T</b>	0.45 - 6.05	14		49	28.5	49	M7 P0.75	NBC6S-□	0.5

- Nut is included. Collet and wrench must be ordered separately.
- Weight includes the nut but not the collet.
- Models marked with "※" do not have inner thread. H<sub>2</sub> ( ) dimension is the max. tool shank length that can be inserted into the holder.
- 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. C67
- For machines which cannot be used with a through hole, order a plug separately. C67

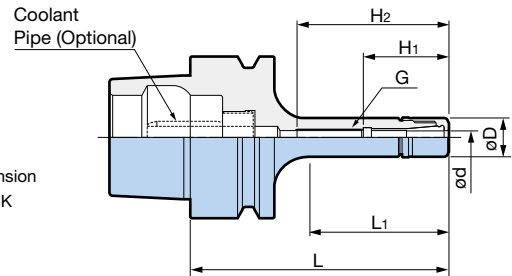
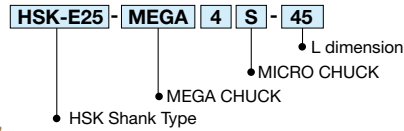
**[Straight Type]**

- Straight type with less workpiece interference.

Center through

Max.  
**60,000min<sup>-1</sup>**

## ● Model Description

**E Type**

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-E25-MEGA4S-45</b> ※	0.45 - 4.05	12	45	31	26.5	(32)	—	NBC4S-□	0.06
<b>-60</b>			60	46		42	M5 P0.8		0.08
<b>-MEGA6S-45</b> ※	0.45 - 6.05	14	45	32	28	(31)	—	NBC6S-□	0.07
<b>-60</b>			60	47		41	M7 P0.75		0.08
<b>HSK-E32-MEGA3S-45</b> ※	0.45 - 3.25	10	45	23	22	(31)	—	NBC3S-□	0.14
<b>-MEGA4S-45</b>	0.45 - 4.05	12	45	22	26.5	31	M5 P0.8	NBC4S-□	0.14
<b>-60</b>			60	34		46			0.15
<b>-MEGA6S-45</b> ※	0.45 - 6.05	14	45	22	28.5	(28)	—	NBC6S-□	0.14
<b>-60</b>			60	35		38	M7 P0.75		0.16
<b>HSK-E40-MEGA3S-40</b> ※	0.45 - 3.25	10	40	19	22	(24)	—	NBC3S-□	0.21
<b>-MEGA4S-60</b>	0.45 - 4.05	12	60	34	26.5	44	M5 P0.8	NBC4S-□	0.23
<b>-MEGA6S-45</b> ※	0.45 - 6.05	14	45	23	27.5	(27)	—	NBC6S-□	0.22
<b>-60</b> ※			60	35		42	—		0.24
<b>HSK-E50-MEGA3S-50</b> ※	0.45 - 3.25	10	50	20	22	(30)	—	NBC3S-□	0.5
<b>-MEGA4S-50</b> ※	0.45 - 4.05	12	50	21	26.5	(30)	—	NBC4S-□	0.5
<b>-80</b>			80	44		47	M5 P0.8		0.5
<b>-MEGA6S-55</b> ※	0.45 - 6.05	14	55	26	28.5	(35)	—	NBC6S-□	0.5
<b>-80</b>			80	44		49	M7 P0.75		0.5


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


2. Weight includes the nut but not the collet.

3. Models marked with "※" do not have inner thread. H<sub>2</sub> ( ) dimension is the max. tool shank length that can be inserted into the holder.

4. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

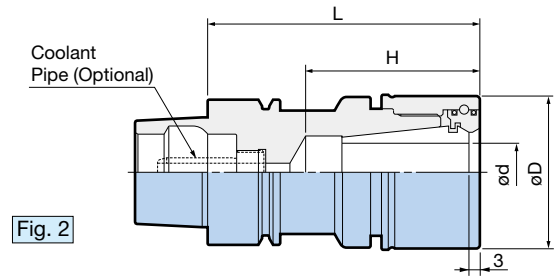
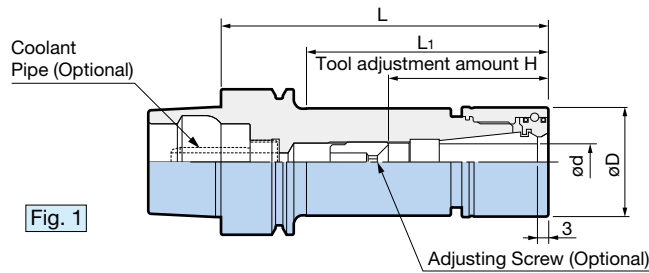
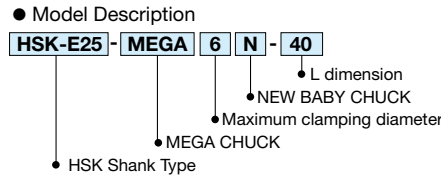
When using, slowly ramp up to the appropriate speed starting from slow speeds.

5. Coolant pipe is not included.  C67

6. For machines which cannot be used with a through hole, order a plug separately.  C67

Standard Accessory	Optional Accessories				
<b>MEGA NUT</b>  For Spares  G6	<b>Mega Wrench</b>   G33	<b>Micro Collet</b>   G4	<b>Mega Micro Seal Nut (for 6S and 8S)</b> <b>Mega Micro Coolant Nut (for 6S)</b>   G6	<b>Collet Case</b>   G6	<b>Adjusting Screw</b>   G23

High-speed small-diameter drilling and endmilling are achieved with the exceptional tool balance and high-precision collet chuck system.




## E Type

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-E25-MEGA 6N- 40</b> ※	1	0.25 - 6	20	40	29	25	NBC 6-□	0.09
<b>8N- 45</b> ※	2	0.5 - 8	25	45	—	30	NBC 8-□	0.12
<b>10N- 60</b> ※▲		1.5 - 10	30	60	—	45	NBC10-□	0.19
<b>HSK-E32-MEGA 6N- 45</b> ※	1	0.25 - 6	20	45	24	28	NBC 6-□	0.17
<b>- 60</b>				60	37	23 - 27		0.20
<b>-MEGA 8N- 50</b> ※	1	0.5 - 8	25	50	29	33	NBC 8-□	0.20
<b>- 65</b>				65	44	26 - 32		0.25
<b>-MEGA10N- 65</b> ※	2	1.5 - 10	30	65	—	47	NBC10-□	0.28
<b>-MEGA13N- 70</b> ※				70	—	44		0.32
<b>HSK-E40-MEGA 6N- 50</b> ※	1	0.25 - 6	20	50	26	31	NBC 6-□	0.26
<b>- 60</b>				60	34	23 - 26		0.28
<b>- 75</b>				75	49	23 - 41		0.31
<b>- 90</b>				90	64	23 - 43		0.34
<b>-120</b>				120	94			0.40
<b>-MEGA 8N- 55</b> ※				1	0.5 - 8	25		55
<b>- 75</b>	75	51	26 - 41				0.36	
<b>- 90</b>	90	66	26 - 45				0.41	
<b>-MEGA10N- 60</b> ※	1	1.5 - 10	30	60	37	40	NBC10-□	0.35
<b>- 75</b> ※				75	52	55		0.42
<b>- 90</b>				90	67	38 - 48		0.49
<b>-MEGA13N- 65</b> ※	1	2.5 - 13	35	65	44	44	NBC13-□	0.42
<b>- 75</b> ※				75	54	55		0.48
<b>- 90</b>				90	69	44 - 48		0.57
<b>-120</b>				120	99	44 - 63		0.80
<b>-150</b>				150	129			0.95
<b>-MEGA16N- 65</b> ※▲	2	2.5 - 16	42	65	—	46	NBC16-□	0.46
<b>- 75</b> ※				75	—	48		0.55

1. Nut is included. Adjusting Screw, collet and wrench 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.
4. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
5. Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
6. 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.
7. Coolant pipe is not included. C67
8. For machines which cannot be used with a through hole, order a plug separately. C67

**E Type**

Model	Fig.	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)
<b>HSK-E50-MEGA 6N- 55</b> ※	1	0.25 - 6	20	55	27	35	NBC 6-□	0.5
- 70				70	38	23 - 39		0.5
-100				100	64	23 - 43		0.6
<b>-MEGA 8N- 60</b> ※	1	0.5 - 8	25	60	30	37	NBC 8-□	0.6
- 90				90	56	26 - 45		0.7
<b>-MEGA10N- 60</b> ※ ▲	1	1.5 - 10	30	60	30	35	NBC10-□	0.6
- 90				90	58	38 - 48		0.7
<b>-MEGA13N- 70</b> ※	1	2.5 - 13	35	70	40	45	NBC13-□	0.7
- 90				90	60	44 - 47		0.8
-120				120	90	44 - 63		1.0
-150				150	120			1.3
<b>-MEGA16N- 75</b> ※	1	2.5 - 16	42	75	48	52	NBC16-□	0.9
- 90 ※				90	63	65		1.0
<b>-MEGA20N- 75</b> ※ ▲	2	2.5 - 20	46	75	—	49	NBC20-□	0.8
-100				100	—	51 - 54		1.1
-130				130	—	51 - 68		1.5

- Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
- Weight includes the nut but not the collet.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
- ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
- 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. 

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

When ordering a **MEGA PERFECT SEAL**, the "Nut-Less Body" without the standard nut attached is also available.

- **Example** Attach **/NL** (Nut less) to the end of the holder model number and order the NBC Collet/MEGA PERFECT SEAL separately.

MEGA NEW BABY CHUCK Model + NL  
**HSK-E50-MEGA 6N-55/NL**  
 (NL at the end of the model number means nut not attached)

NBC Collet  
**NBC6-3AA**

MEGA PERFECT SEAL Model  
**MPS6-03035**

MEGA NUT Flat Type Model  
**MGN6F**

The ultimate precision hydraulic chuck.  
Amazing runout accuracy within  $1\mu\text{m}$  at 4D.

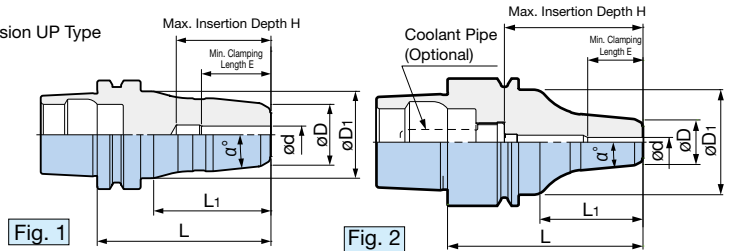
**1  $\mu\text{m}$**   
ULTRA PRECISION

Max.  
**60,000min<sup>-1</sup>**

[Super Slim Type PAT.]



- Model Description  
**HSK-E25 - HDC 3 S - 40 UP**
- High Precision UP Type
  - L dimension
  - Super Slim Type
  - Clamping diameter
  - HYDRAULIC CHUCK
  - HSK Shank Type



**UP**

E Type

Model	Fig.	Clamping Diameter $\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	$\alpha^\circ$	H	E	Max. min <sup>-1</sup>	Weight (kg)	
<b>HSK-E25-HDC3S -40UP</b>	1	3	14	20	40	27	6°	22	16	60,000	0.09	
<b>-HDC3.175S-40UP</b>		3.175										
<b>-HDC4S -40UP</b>		4		23								
<b>-HDC6S -45UP*</b>		6										
<b>HSK-E32-HDC3S -52UP</b>	1	3	14	26	52	29	6°	28	16	45,000	0.19	
<b>-HDC3.175S-52UP</b>		3.175										
<b>-HDC4S -52UP</b>		4		57				34				
<b>-HDC6S -57UP</b>		6										
<b>HSK-E40-HDC3S -55UP▲</b>	2	3	14	33	55	29	6°	39	16	42,000	0.29	
<b>-HDC3.175S-55UP▲</b>		3.175										
<b>-HDC4S -55UP▲</b>		4						60				34
<b>-HDC6S -60UP</b>		6										

- HSK-E25 and -E32 cannot be used with center through.
- Coolant pipe is not included.
- Adjusting Screw cannot be used.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck.

- \* HSK-E25-HDC6S-45UP has a body diameter of  $\phi 23$  (ISO standard:  $\phi 20$  or less). Note that it may not be usable depending on the machine.
- For HSK-E40, which cannot be used with a through hole, order a plug separately.
- When using coolant with models marked with ▲, some coolant may leak from the inner diameter slits.

**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.

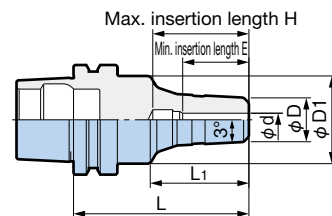
Even slimmer and lighter-weight. Tip outer diameter of  $\phi 10\text{mm}$  with Hydraulic Chuck.

Max.  
**60,000min<sup>-1</sup>**

[Extra Slim Type]



- Model Description  
**HSK-E25 - HDC 3 XS - 40**
- L dimension
  - Extra Slim Type
  - Clamping diameter
  - HYDRAULIC CHUCK
  - HSK Shank Type



E Type

Model	Clamping Diameter $\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	H	E	Weight (kg)
<b>HSK-E25-HDC 3XS- 40</b>	3	10	20	40	22.5	22	16	0.07
<b>-HDC 4XS- 40</b>	4							

- Cannot be used with center through.
- Adjusting Screw cannot be used.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck.

**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.

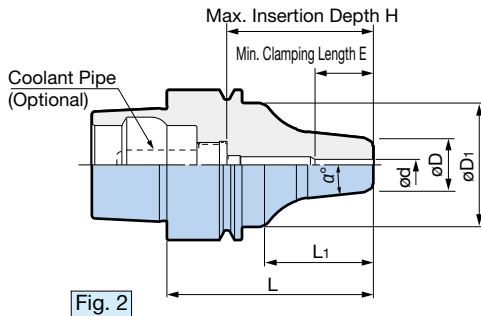
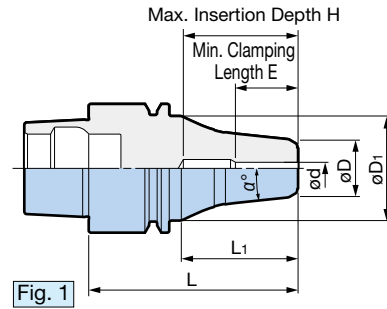
High-precision and ultra-compact design. New hydraulic chuck suitable for small machining centers.

Max.  
**60,000min<sup>-1</sup>**

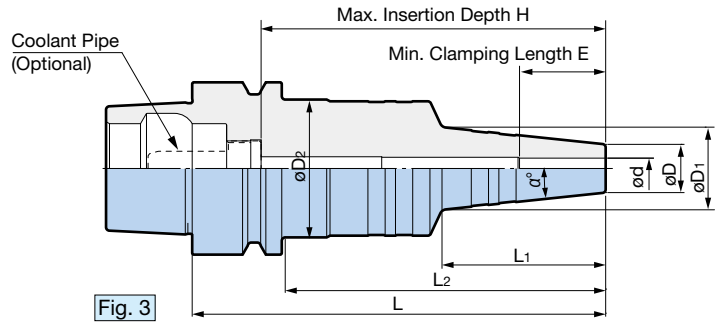
[Super Slim Type PAT.]



- **Model Description**
- HSK-E25 - HDC 3 S - 40**
- L dimension
  - Super Slim Type
  - Clamping diameter
  - HYDRAULIC CHUCK
  - HSK Shank Type



Center through



Center through

**E Type**

Model	Fig.	Clamping Diameter $\phi d$	$\phi D$	$\phi D_1$	$\phi D_2$	L	L <sub>1</sub>	L <sub>2</sub>	$\alpha^\circ$	H	E	Max. min <sup>-1</sup>	Weight (kg)
<b>HSK-E25-HDC 3S - 40</b>	1	3	14	20	-	40	27	-	6°	22	16	60,000	0.09
<b>-HDC 3.175S- 40</b>		3.175											
<b>-HDC 4S - 40</b>		4											
<b>-HDC 6S - 45*</b>		6								23			
<b>HSK-E32-HDC 3S - 52</b>	1	3	14	26	-	52	29	-	6°	28	16	45,000	0.19
<b>-HDC 3.175S- 52</b>		3.175											
<b>-HDC 4S - 52</b>		4											
<b>-HDC 6S - 57</b>		6								34			
<b>HSK-E40-HDC 3S - 55▲</b>	2	3	14	-	-	55	29	-	6°	39	16	42,000	0.29
<b>-HDC 3.175S- 55▲</b>		3.175											
<b>-HDC 4S - 55▲</b>		4											
<b>- 75▲ NEW</b>		4								40			
<b>-HDC 6S - 60</b>		6	33	60	34	6°	40	25	42,000	0.30			
<b>- 75 NEW</b>		6	33	75	40	6°	48	25	40,000	0.36			
<b>-HDC 8S - 65 NEW</b>		8	17	65	39	6°	39	31	40,000	0.33			
<b>-HDC10S - 70 NEW</b>		10	19	70	40	6°	42	33	38,000	0.36			
<b>-HDC12S - 70 NEW</b>		12	21	70	40	6°	42	36	38,000	0.37			
<b>HSK-E50-HDC 4S -120</b>		3	4	14	24	-	-	47	-	6°	100	19	30,000
<b>-HDC 6S -120</b>	6		25										
<b>-HDC 8S -120</b>	8		17	28	40	120	48	93	6°	85	31	30,000	0.92
<b>-HDC10S -120</b>	10		19	30	40	120	48	93	6°	85	33	30,000	0.92
<b>-HDC12S -120</b>	12		21	32	40	120	49	93	6°	85	36	30,000	0.93

1. HSK-E25 and -E32 cannot be used with center through.
2. Coolant pipe is not included.
3. Adjusting Screw cannot be used.

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

4. ※ HSK-E25-HDC6S-45 has a body diameter of  $\phi 23$  (ISO standard:  $\phi 20$  or less).

Note that it may not be usable depending on the machine.

5. For machines with HSK-E40 spindle which cannot be used with a through hole, order a plug separately.

6. When using coolant with models marked with ▲, some coolant may leak from the inner diameter slits.

**Caution**

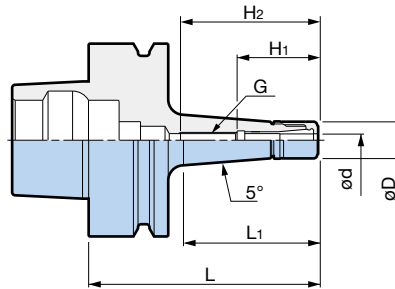
- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.
- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping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

Ultra-slim design with  $\varnothing 10\text{mm}$  nut outer diameter.  
High speed collet chuck with minimized interference.

Center through

Max.  
**32,000**min<sup>-1</sup>

**[High Rigidity Taper Type]**



● Model Description

**HSK-F63** - **MEGA** **4** **S** - **75** **T**

- Taper type
- L dimension
- MICRO CHUCK
- MEGA CHUCK
- HSK Shank Type

COLLET CHUCK

**F Type**

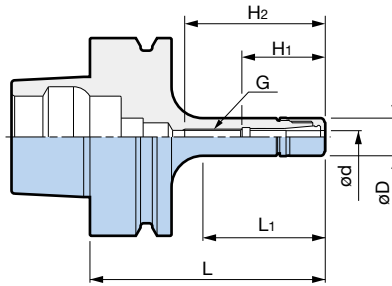
Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-F63-MEGA4S-75T</b>	0.45 - 4.05	12	75	44	26.5	41	M5 P0.8	NBC4S-□	0.7
<b>-MEGA6S-75T</b>	0.45 - 6.05	14	75	44	28.5	41	M7 P0.75	NBC6S-□	0.7
<b>-MEGA8S-75T</b>	2.95 - 8.05	18	75	44	31	58	M9 P0.75	NBC8S-□	0.7

1. Nut is included. Collet and wrench must be ordered separately.
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.
3. For machines which cannot be used with a through hole, order a plug separately. C67



Clamping diameter:  $\varnothing 0.45 - \varnothing 6.05$ **MEGA MICRO CHUCK****HSK**  
SHANK**[Straight Type]**

Center through

Max.  
**30,000min<sup>-1</sup>**

## ● Model Description

**HSK-F63** - **MEGA** **4** **S** - **75**

- HSK Shank Type
- MEGA CHUCK
- L dimension
- MICRO CHUCK

**F Type**

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	G	Collet Model	Weight (kg)
<b>HSK-F63-MEGA4S- 75</b>	0.45 - 4.05	12	75	39	26.5	41	M5 P0.8	NBC4S-□	0.7
<b>-105</b>			105	76		47			0.7
<b>-MEGA6S- 75</b>	0.45 - 6.05	14	75	46	28.5	41	M7 P0.75	NBC6S-□	0.7
<b>- 90</b>			90	61		49			0.8
<b>-105</b>			105	76		49			0.8

- Nut is included. Collet and wrench must be ordered separately.
- 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.
- For machines which cannot be used with a through hole, order a plug separately. C67

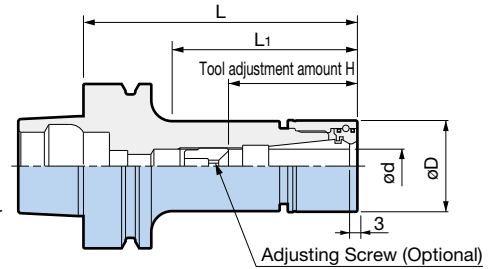
Standard Accessory	Optional Accessories				
<b>MEGA NUT</b>  For Spares  G6	<b>Mega Wrench</b>  G33	<b>Micro Collet</b>  G4	<b>Mega Micro Seal Nut (for 6S and 8S)</b> <b>Mega Micro Coolant Nut (for 6S)</b>  G6	<b>Collet Case</b>  G6	<b>Adjusting Screw</b>  G23

High-speed small-diameter drilling and endmilling are achieved with the exceptional tool balance and high-precision collet chuck system.



● Model Description

- HSK-F63** - **MEGA** **6** **N** - **75**
- L dimension
  - NEW BABY CHUCK
  - Maximum clamping diameter
  - MEGA CHUCK
  - HSK Shank Type



## F Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	H	Collet Model	Weight (kg)	
<b>HSK-F63-MEGA 6N- 75</b>	0.25 - 6	20	75	42	23 - 31	NBC 6-□	0.7	
- 90			90	53			0.8	
-105			105	69	23 - 43		0.8	
-135			135	99			0.9	
-MEGA 8N- 75			75	43			26 - 38	0.8
- 90	90	54	0.9					
-105	0.5 - 8	25	105	69	NBC 8-□	0.9		
-120			120	84		26 - 45		0.9
-135			135	99				1.0
-165			165	129				1.1
-MEGA10N- 75 ※			75	43		38 - 48	0.9	
- 90	90	54	0.9					
-105	105	69	NBC10-□	1.0				
-120	120	84		1.1				
-MEGA13N- 75 ※	2.5 - 13	35	75	43	47	NBC13-□	0.9	
- 90 ※			90	56			61	1.0
-105			105	71	44 - 53		1.1	
-120			120	86			44 - 63	1.2
-165			165	131				1.6
-MEGA16N- 75 ※	2.5 - 16	42	75	43	48	NBC16-□	1.0	
- 90 ※			90	58			61	1.2
-105			105	73			48 - 56	1.3
-MEGA20N- 75 ※	2.5 - 20	46	75	45	51	NBC20-□	1.1	
- 90 ※			90	60			61	1.3
-105			105	75			51 - 58	1.4

- Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
- Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
- ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
- 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.
- For machines which cannot be used with a through hole, order a plug separately. C67

Standard Accessory		Optional Accessories				
<b>MEGA NUT</b>  For Spares  G12	<b>O-ring</b>  For Spares  G12	<b>MEGA NUT Flat Type</b>  G12	<b>Mega Wrench</b>  G33	<b>Collet</b>  G7	<b>MEGA PERFECT SEAL</b>  G13	<b>Adjusting Screw</b>  G23

When ordering a MEGA PERFECT SEAL, the "Nut-Less Body" without the standard nut attached is also available.

● **Example** Attach /NL (without nut) to the end of the holder model number and order the NBC Collet/Collet MEGA PERFECT SEAL separately.

MEGA NEW BABY CHUCK Model + NL  
**HSK-F63-MEGA 6N-75/NL**  
(NL at the end of the model number means nut not attached)

+
   
 NBC Collet  
**NBC6-3AA**

+
   
 MEGA PERFECT SEAL Model  
**MPS6-03035**  
 MEGA NUT Flat Type Model  
**MGN6F**

Clamping diameter:  $\varnothing 3 - \varnothing 12$ **MEGA E CHUCK****HSK**  
SHANK

High precision holder with superior collet chuck technology and the pursuit of high-speed and powerful endmilling.

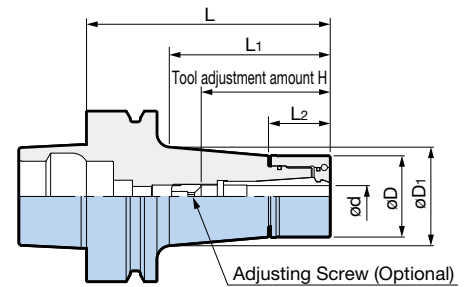
Center through

Max.  
**30,000min<sup>-1</sup>**

## ● Model Description

**HSK-F63** - **MEGA** **6** **E** - **65**

- HSK Shank Type
- MEGA CHUCK
- Maximum clamping diameter
- Abbreviation of "E CHUCK"
- L dimension

**F Type**

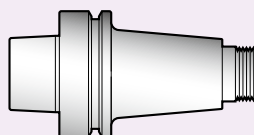
Model	Clamping diameter $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L <sub>1</sub>	L <sub>2</sub>	H	Collet Model	Weight (kg)
<b>HSK-F63-MEGA 6E- 65</b> ※	3 - 6	25	28.5	65	34	21	39	MEC 6-□	0.8
- 90			31.5	90	58		37 - 45		0.9
<b>-MEGA 8E- 65</b> ※	3 - 8	30	33	65	34	22.5	41	MEC 8-□	0.8
- 90			36.5	90	59		42 - 47		1.0
<b>-MEGA10E- 75</b> ※	3 - 10	35	38.5	75	44	23	48	MEC10-□	1.0
- 90 ※			41.5	90	59		67		1.2
-105			44	105	75		48 - 58		1.3
-120			47	120	91				1.6
-135			49	135	107				1.8
<b>-MEGA13E- 75</b> ※	3 - 12	42	46	75	47	25	50	MEC13-□	1.1
- 90 ※			48.5	90	62		64		1.4
-105			51	105	78		50 - 58		1.6
-135			52	135	108		50 - 60		2.0

1. Nut is included. Adjusting Screw, collet and wrench must be ordered separately.
2. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.
3. ※ marked models cannot be used with Adjusting Screws. H dimension is the max. tool shank length that can be inserted into the holder.
4. 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.
5. For machines which cannot be used with a through hole, order a plug separately. C67

Standard Accessory		Optional Accessories			
MEGA E Nut  For Spares  G18	O-ring  For Spares  G18	Mega Wrench  G33	MEGA E Collet  G18	MEGA E PERFECT SEAL  G19	Adjusting Screw  G23

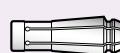
When ordering a MEGA E PERFECT SEAL, the "Nut-Less Body" without the standard nut attached is also available.

- **Example** Attach /NL (without nut) to the end of the holder model number and order the MEC Collet/MEGA E PERFECT SEAL separately.



MEGA E CHUCK Model + NL  
(Nut not attached)  
**HSK-F63-MEGA 6E-65/NL**

+



MEC Collet  
**MEC6-3AA**

+



MEGA E PERFECT SEAL Model  
**EPS6-03**

Complete contact with the nut and body.  
High rigidity equal to integration with the machine spindle.

Center through

Max.  
**28,000**min<sup>-1</sup>

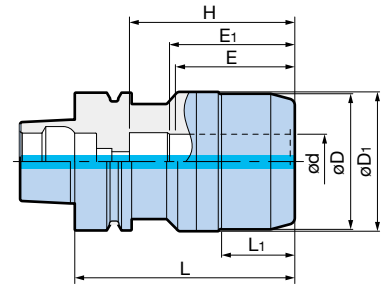
## [Standard Type]



● Model Description

**HSK-F63** - **MEGA** **16** **D** - **80A**

- DOUBLE POWER Standard Type
- Clamping diameter
- MEGA CHUCK
- HSK Shank Type



## F Type

Model	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	H	Min. clamping length		Mega Wrench	Weight (kg)
							E	E <sub>1</sub>		
<b>HSK-F63-MEGA16D- 80A</b>	16	42	53	80	25	55	48	50	MGR42L	1.2
<b>-MEGA20D- 90A</b>	20	50	55	90	34	65	50	56	MGR50L	1.4
<b>-MEGA25D-100A</b>	25	62	63	100	39	75	56	57	MGR62L	1.8
<b>-MEGA32D-105A</b>	32	70	71	105	33	80	60	64	MGR70L	2.0

1. Wrench is not included. Please order separately.
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.
3. H dimension is the max. tool shank length that can be inserted into the holder. **Adjusting screws cannot be used.**
4. For machines which cannot be used with a through hole, order a plug separately. **C67**
5. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.

### Optional Accessories

#### Straight Collet



- PJC Collet **G25**
- PSC Collet **G26**
- OCA Collet **G27**
- C Collet **G28**

#### Mega Wrench



**G33**

Clamping diameter:  $\phi 16 - \phi 32$ **MEGA DOUBLE POWER CHUCK****HSK**  
SHANK**[Jet Through Type]** Coolant to tool periphery

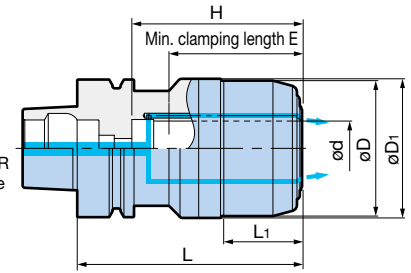
Center through

Max.  
**28,000min<sup>-1</sup>**

## ● Model Description

**HSK-F63** - **MEGA** **16** **DS** - **80A**

- DOUBLE POWER Jet Through Type
- Clamping diameter
- MEGA CHUCK
- HSK Shank Type

**F Type**

Model	Clamping diameter $\phi d$	$\phi D$	$\phi D_1$	L	L <sub>1</sub>	H	E	Mega Wrench	Weight (kg)
<b>HSK-F63-MEGA16DS- 80A</b>	16	42	53	82	27	57	48	MGR42L	1.2
<b>-MEGA20DS- 90A</b>	20	50	55	92	36	67	50	MGR50L	1.4
<b>-MEGA25DS-100A</b>	25	62	63	102	41	77	56	MGR62L	1.8
<b>-MEGA32DS-105A</b>	32	70	71	107	35	82	60	MGR70L	2.0

1. Wrench is not included. Please order separately.
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.
3. **Jet-through type provides coolant from the chuck nose, thus tools with oil holes cannot be used.**

4. H dimension is the max. tool shank length that can be inserted into the holder. **Adjusting screws cannot be used.**
5. For machines which cannot be used with a through hole, order a plug separately. **C67**

**Optional Accessories**

## Straight Collet



- PJC Collet **G25**
- PSC Collet **G26**
- OCA Collet **G27**
- C Collet **G28**

## Mega Wrench

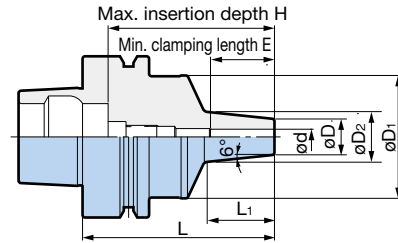
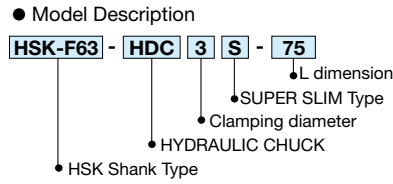
 **G33**

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

- Slim design minimizes workpiece interference, ideal for mold making.

Center through

[SUPER SLIM Type PAT.]



F Type

Model	Clamping diameter $\varnothing D$	$\varnothing D$	$\varnothing D_1$	$\varnothing D_2$	L	L <sub>1</sub>	H	E	Weight (kg)
<b>HSK-F63-HDC 3S- 75</b> ※	3	14	48	20	75	26	65	16	1.0
<b>-HDC 4S- 75</b>	4							19	1.0
<b>-HDC 6S- 75</b>	6							25	1.0
<b>-HDC 8S- 75</b>	8							31	1.0
<b>-HDC10S- 75</b>	10							33	1.0
<b>-HDC12S- 75</b>	12							36	1.0

1. Adjusting Screw cannot be used.
  2. For machines which cannot be used with a through hole, order a plug separately. **C67**
  3. When using coolant with models marked with ※, some coolant may leak from the inner diameter slits.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. **G30**

**Caution**

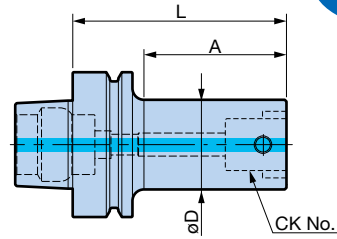
- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.
- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping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

HYDRAULIC CHUCK

## CK SHANK



● Model Description  
**HSK-F63** - **CKB1** - **78**  
 ● HSK Shank Type  
 ● CK No.  
 ● L dimension



Center through

## F Type

Select a head and holder with matching **CK No.**

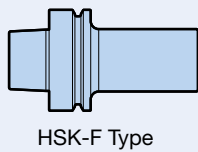
Model	CK No.	øD	L	A	Weight (kg)
<b>HSK-F63-CKB1- 78</b>	CK1	19	77.5	40	0.8
<b>CKB2- 90</b>	CK2	24	89.5	58	0.8
<b>CKB3-100</b>	CK3	31	100	69	1.0
<b>CKB4- 93</b>	CK4	39	93	62	1.2
<b>CKB5- 83</b>	CK5	50	83	55	1.3

Heads **A41**

● Supports various applications from rough to finish boring with abundant heads and accessories.

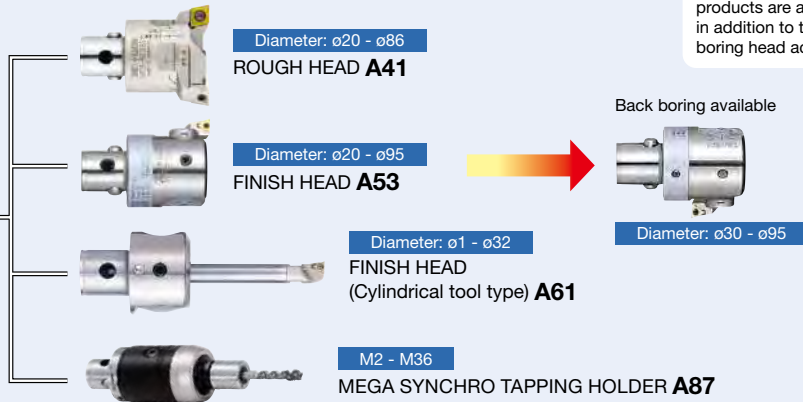


CK BORING SYSTEM Diagram



HSK-F Type

CK1 - CK5



A wide variety of products are available in addition to the listed boring head accessories.

Back boring available

Diameter: ø30 - ø95

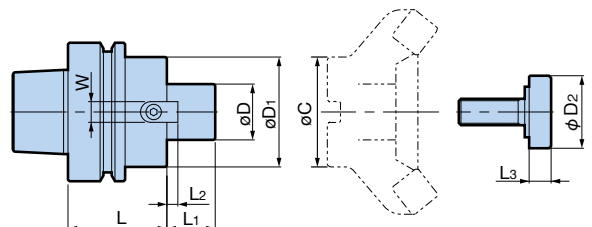
GENERAL TOOLHOLDER

## FACE MILL ARBOR TYPE A

DUAL CONTACT  
**HSK**  
 SHANK



● Model Description  
**HSK-F63** - **FMA** - **25.4** - **45**  
 ● HSK Shank Type  
 ● Spigot diameter  
 ● FACE MILL ARBOR TYPE A  
 ● L dimension



## F Type

Model	øD	øD <sub>1</sub>	øD <sub>2</sub>	L	L <sub>1</sub>	Drive Key		L <sub>3</sub>	Clamp Screw	Weight (kg)	Min. flange diameter øC
						L <sub>2</sub>	W				
<b>HSK-F63-FMA25.4-45</b>	25.4	50	33	45	22	5	9.5	10	MBA-M12	1.0	36

1. Cutter clamp screw is included.

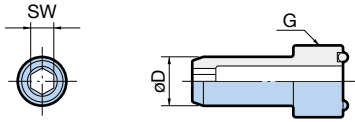


## Coolant Pipe (Compatible for form A & E)

Contact us for the Coolant Pipe for the HSK-F type.

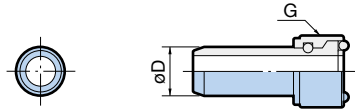
### [Mono Block Type]

- Some machine tool builders may recommend the Mono Block Type. Check with the machine when selecting Mono Block or 1° Swing Type.



### [1° Swing Type]

- The DIN and ISO standards require movement range of  $\pm 1^\circ$ . An exclusive wrench (optional) is required when attaching the 1° Swing Type to a holder.



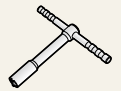
### ⚠ Caution

For machines capable of supplying coolant through the spindle, the Coolant Pipe should be fitted to all the holders to protect against accidental selection of coolant.

Model	øD	G	SW
<b>HSK 25-CP</b>	5	M 8xP1	2.5
<b>32-CP</b>	6	M10xP1	3
<b>40-CP</b>	8	M12xP1	4
<b>50-CP</b>	10	M16xP1	5
<b>63-CP</b>	12	M18xP1	6
<b>80-CP</b>	14	M20xP1.5	8
<b>100-CP</b>	16	M24xP1.5	8
<b>125-CP</b>	18	M30xP1.5	10

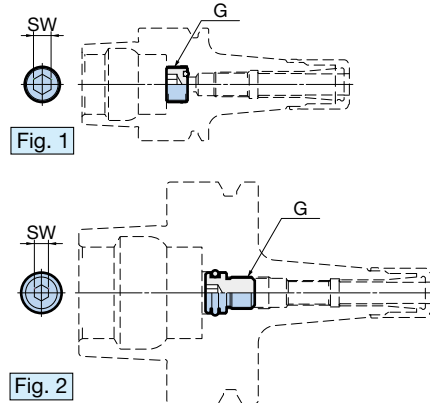


Model	øD	G	Wrench Model (Optional)
<b>HSK 40-CPM</b>	8	M12xP1	CPW- 40
<b>50-CPM</b>	10	M16xP1	CPW- 50
<b>63-CPM</b>	12	M18xP1	CPW- 63
<b>80-CPM</b>	14	M20xP1.5	CPW- 80
<b>100-CPM</b>	16	M24xP1.5	CPW-100
<b>125-CPM</b>	18	M30xP1.5	CPW-125



## HSK Plug

For machines which cannot be used with a through hole, use a plug.



### ⚠ Caution

For machines which cannot be used with a through hole, use a plug.

Model	Fig.	Shank	G	SW
<b>HSK25-PG</b>	1	HSK-A25	M 8xP1	4
		HSK-E25		
<b>HSK32-PG</b>	1	HSK-A32	M10xP1	5
		HSK-E32		
<b>HSK40-PG</b>	1	HSK-A40	M12xP1	6
		HSK-E40		
<b>HSK-F63-PG</b>	2	HSK-F63	M 9xP0.75	4

1. HSK-F63-PG cannot be used with other manufacturers' tooling.