

HSK SHANK

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.
40,000 min^{-1} **[High Rigidity Taper Type]**

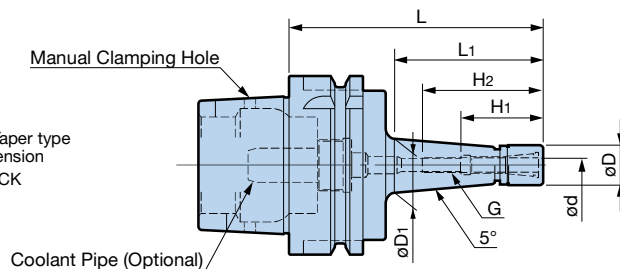
● Models for ultra-small endmilling are newly added!



● Model Description

HSK-A40- MEGA 3 S - 75 T

- HSK-A40: HSK Shank Type
- MEGA: MEGA CHUCK
- 3: L dimension
- S: MICRO CHUCK
- 75: Taper type
- T: Taper type

**A Type**

Model	Clamping diameter ød	øD	øD ₁	L	L ₁	H ₁	H ₂	G	Collet Model	Weight (kg)		
HSK-A40-MEGA3S- 75T	0.45 - 3.25	10	16	75	44	22	38	M4 P0.7	NBC 3S-□	0.27		
- 90T			18	90	60					0.29		
-MEGA4S- 60T	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		
-MEGA6S- 60T ※	0.45 - 6.05	14	16	60	29	—	(40)	—	NBC 6S-□	0.26		
- 75T			19	75	45	28.5	49	M7 P0.75		0.29		
- 90T			21.5	90	60					0.32		
-105T			25	105	76					0.37		
HSK-A50-MEGA6S-105T	0.45 - 6.05	14	22.5	105	66	28.5	49	M7 P0.75	NBC 6S-□	0.6		
HSK-A63-MEGA3S- 75T	0.45 - 3.25	10	14	75	36	22	38	M4 P0.7	NBC 3S-□	0.8		
-120T			21.5	120	81					0.9		
-MEGA4S- 75T	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		
-MEGA6S- 60T	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		
-MEGA8S- 90T	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.

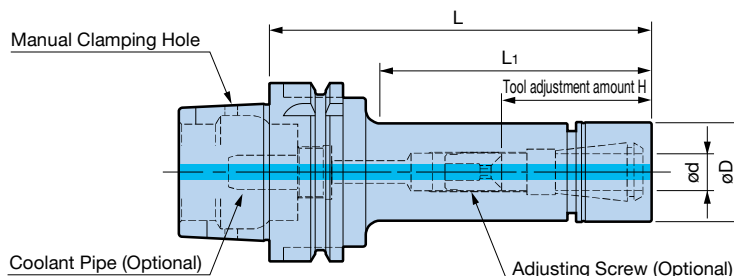
4. Models marked with "※" do not have inner thread. H₂ () dimension is the max. tool shank length that can be inserted into the holder.

5. Coolant pipe is not included.  C67

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



Center through

Max.
35,000min⁻¹

● Model Description

HSK-A40 - **MEGA** **6** **N** - **60**

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

A Type

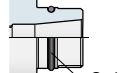
Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L ₁	H	Collet Model	Weight (kg)
HSK-A40-MEGA 6N- 60 ※	0.25 - 6	20	60	30	33	NBC 6-□	0.29
- 75			75	45	23 - 38		0.32
- 90			90	60	23 - 43		0.35
-MEGA 8N- 60 ※	0.5 - 8	25	60	30	41	NBC 8-□	0.32
- 90			90	60	26 - 44		0.42
-MEGA10N- 60 ※	1.5 - 10	30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

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

Standard Accessory**MEGA NUT**

For Spares

G12

O-ring

For Spares

G12

Optional Accessories**MEGA NUT Flat Type**

G12

Mega Wrench

G33

Collet

G7

MEGA PERFECT SEAL

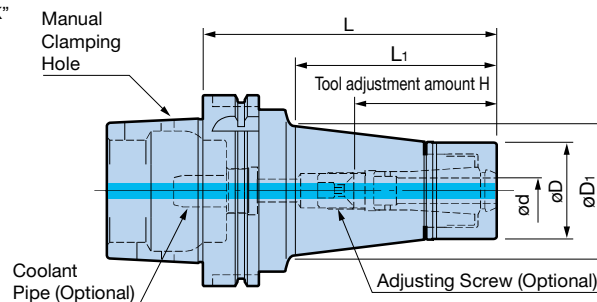
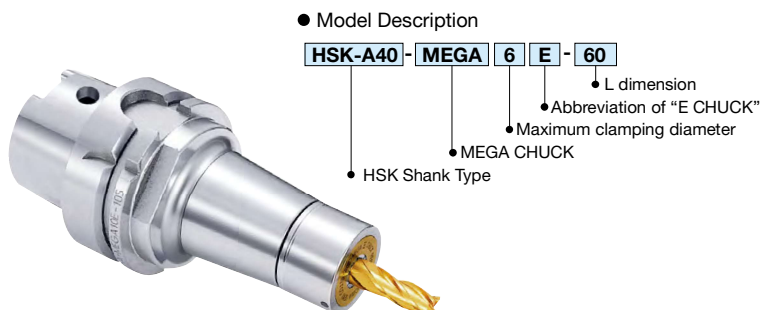
G13

Adjusting Screw

G23

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 ød	øD	øD ₁	L	L ₁	H	Collet Model	Weight (kg)
HSK-A40-MEGA 6E- 60 ※	3 - 6	25	26	60	24	41	MEC 6-□	0.36
- 75 ※			28.5	75	39	55		0.42
-MEGA 8E- 65 ※	3 - 8	30	34	65	30	44	MEC 8-□	0.41
- 75 ※			34	75	40	54		0.47
-MEGA10E- 70 ※	3 - 10	35	35	70	35	48	MEC10-□	0.48
- 90			35	90	55	48 - 52		0.67
-MEGA13E- 70 ※	3 - 12	42	42	70	35	50	MEC13-□	0.55
- 90 ※			42	90	55	67		0.69
HSK-A50-MEGA 6E- 75	3 - 6	25	28.5	75	37	37 - 43	MEC 6-□	0.6
-MEGA 8E- 75 ※	3 - 8	30	33	75	40	42	MEC 8-□	0.7
-MEGA10E- 75 ※	3 - 10	35	38	75	40	48	MEC10-□	0.8
-MEGA13E- 75 ※	3 - 12	42	—	75	49	50	MEC13-□	0.9
-100			—	100	74	50 - 55		1.1
HSK-A63-MEGA 6E- 65 ※	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
-MEGA 8E- 67 ※	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
-MEGA10E- 75 ※	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
-MEGA13E- 75 ※	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.
6. Coolant pipe is not included.

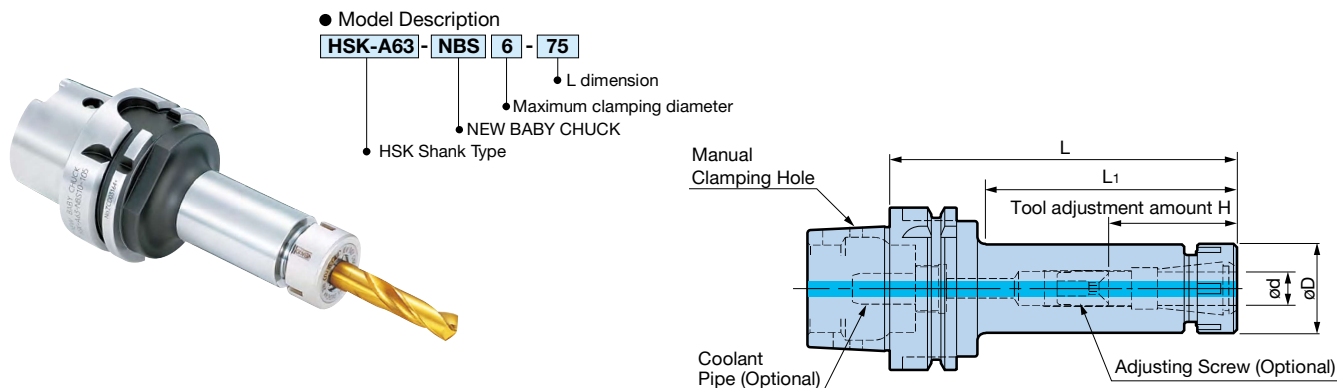
When using, slowly ramp up to the appropriate speed starting from slow speeds.



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

Center through

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



A Type

Model	Clamping diameter ød	øD	L	L ₁	H	Collet Model	Weight (kg)
HSK-A63-NBS 6- 75	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
-NBS 8- 75	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
-NBS10- 75 ※	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
-NBS13- 75 ※	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
-NBS16- 75 ※	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
-NBS20- 75 ※	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.

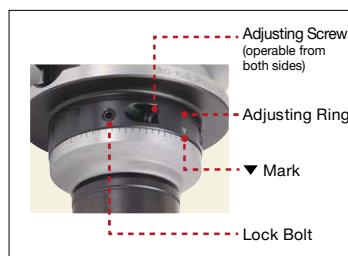
4. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).

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

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

Center through



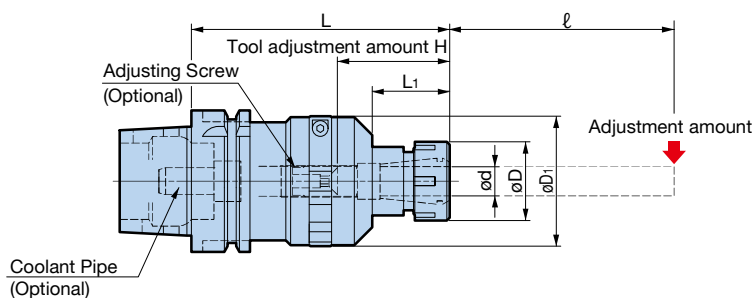
Simple structure allows for easy adjustment of runout accuracy!

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.

● Model Description

HSK-A63 - NBS 8 - 105 NRA

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



A Type

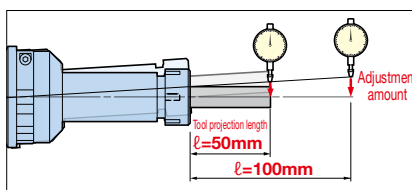
ℓ = Tool projection length

Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	H	Collet Model	Adjustment amount		Weight (kg)
								$\ell=50\text{mm}$	$\ell=100\text{mm}$	
HSK-A63-NBS 8-105NRA	0.5 - 8	25	45	105	43	23 - 42	NBC 8-□	23 μm	34 μm	1.2
-NBS13-115NRA	2.5 - 13	35	58	115	34.5	41 - 60	NBC13-□	18 μm	27 μm	1.8
-NBS20-135NRA	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)
NBS 8-NRA	CK-T2.5	3
NBS13-NRA	CK-T3	6
NBS20-NRA		

Standard Accessory		Optional Accessories		
New Baby Nut For Spares G15	 G36	Collet G7	BABY PERFECT SEAL G15	Adjusting Screw G23

Clamping diameter: $\phi 16 - \phi 42$ **MEGA DOUBLE POWER CHUCK**

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

Center through

Max.
28,000min⁻¹**[Standard Type]**

● Model Description

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

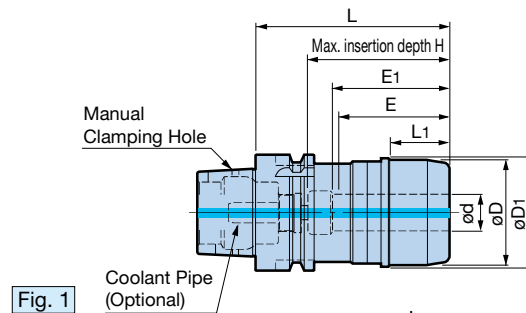


Fig. 1

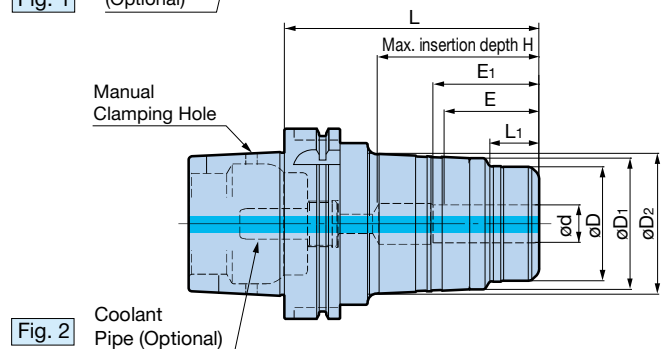


Fig. 2

A Type

Model	Fig.	Clamping diameter ød	øD	øD ₁	øD ₂	L	L ₁	H	Min. clamping length		Mega Wrench	Weight (kg)		
									E	E ₁				
HSK-A 40-MEGA16D- 80	1	16	46	—	—	80	25	62	48	50	MGR46L	0.69		
HSK-A 50-MEGA16D- 85	1	16	46	—	—	85	25	62	48	50	MGR46L	1.0		
-MEGA20D- 85 ※		20	50			86	30	63	50	51	MGR50L	1.1		
HSK-A 63-MEGA16D- 80A	2	16	42	53	—	80	25	55	48	50	MGR42L	1.3		
- 90A						90		65		55		1.5		
-105A						105		71					1.8	
-135A ○						135								2.3
-165A ○						165								
-MEGA20D- 90A	2	20	50	55	—	90	34	65	50	56	MGR50L	1.6		
-105A						105		80				1.5		
-120A						120		85					2.1	
-135A ○						135								3.0
-165A △						165								
-MEGA25D-100A	1	25	62	63	—	100	39	75	56	57	MGR62L	2.0		
-135A △						135		66 - 76				2.8		
-MEGA32D-105A		32	70	71	—	105	33	80			MGR70L	2.2		
-135A ○						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 E₁ or more.

7. Coolant pipe is not included.  **C67**

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

Compatibility Table  **G24**

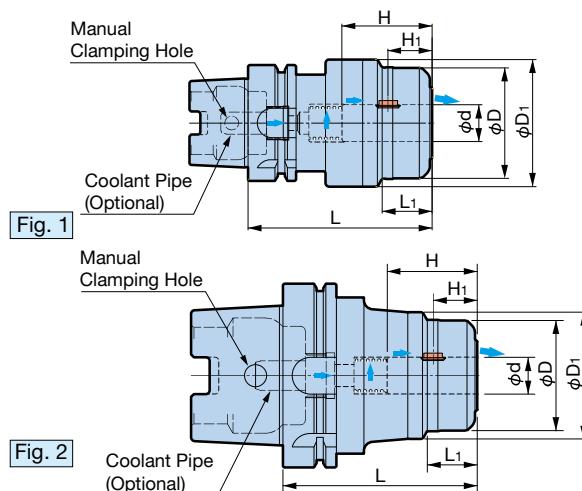
Optional Accessories**Straight Collet**

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

Mega Wrench **G33****Axial Adjusting Screw** **G30**

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.	ϕd	ϕD	ϕD_1	L	L ₁	H	H ₁	Mega Wrench	Weight (kg)
HSK-A 63-MEGA16DPG- 90	1	16	46	55	90	24	47	23	MGR46L	1.6
-MEGA20DPG-100		20	60	69	100	27	49	24	MGR60L	2.2
HSK-A100-MEGA20DPG-105	2	20	60	69	105	27	49	24	MGR60L	4.1
-MEGA25DPG-105		25	70	77		33	55	23	MGR70L	4.5
-MEGA32DPG-115		32	80	86		41	59		MGR80L	5.0
HSK-A125-MEGA16DPG-135	2	16	46	55	135	24	47	23	MGR46L	5.9
-MEGA20DPG-135		20	60	69		27	49	24	MGR60L	6.7
-MEGA25DPG-135		25	70	77		33	55	23	MGR70L	7.3
-MEGA32DPG-135		32	80	86		41	59		MGR80L	7.8

1. Key Grip and Spring are included.
 2. Wrench is not included. Please order separately.
 3. H₁ is the dimension from the center of the Key Grip to the front end of the chuck.
 4. 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.

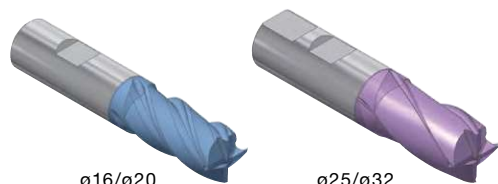
Standard ACCESSORIES

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

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

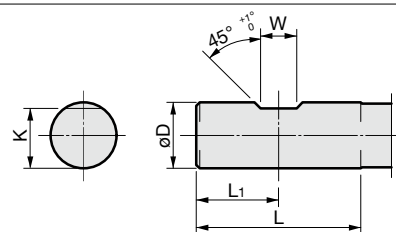
Cylindrical Shank with Flat Section JIS B 4005 (ISO3338-2)

The following standard shank is required for MEGA Perfect GRIP.

 $\phi 16/\phi 20$ $\phi 25/\phi 32$ 

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 H₁ in the MEGA Perfect GRIP chart, decide the flat position to add, and then cut the cutter at L₁ on cutter shank.



ϕD		L	L ₁	W		K	
Nominal	Tolerance			Nominal	Tolerance	Nominal	Tolerance
16	0 -0.011	48	24	10	$+0.2$ 0	14.2	0 -0.4
20	0 -0.013	50	25	11		18.2	
25	0 -0.016	56	32	12		23	
32	0 -0.016	60	36	14		30	

1. 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.
2. 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.

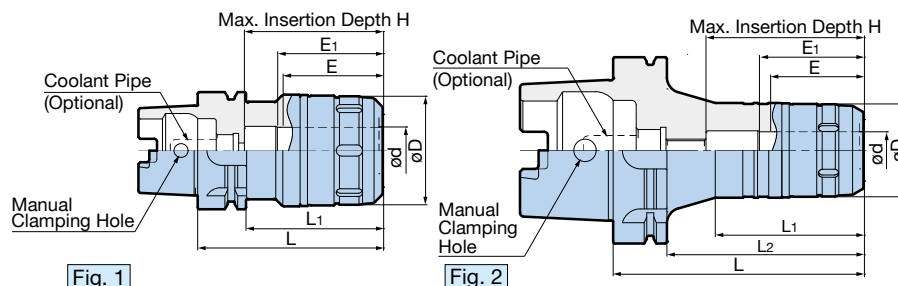
Center through

[S Type]

● Model Description

HSK-A40-HMC20-S85

- L dimension
- S Type
- Chuck bore
- NEW Hi-POWER MILLING CHUCK
- HSK Shank Type

**A Type**

Model	Fig.	ød	øD	L	L ₁	L ₂	H	Min. Clamping Length		FK Wrench Model	MEGA WRENCH Model	Weight (kg)
								E	E ₁			
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
-135 □	2	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
-HMC32S-115	1	32	68	115	86	—	83	60	72	FK68-75L	MGR68L	3.9
-135				135	106		103					4.4
-165 □	2			165	105	136	105					5.4
-200 △				200	130	171	90 - 100					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

1. Wrench must be ordered separately.
2. Center through coolant supply is available.
3. 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.
4. 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.
5. Coolant pipe is not included. C67
6. When using center through coolant, insert a tool shank into E₁ or more.

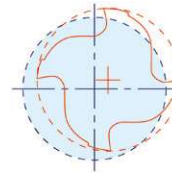
- ※ marked models are not compatible with some Straight Collets. Compatibility Table G24
- MEGA WRENCH can also be used to tighten/remove tools.

Optional Accessories			
STRAIGHT COLLET 	PJC Collet G25	Wrench 	Mega Wrench
	PSC Collet G26		
	OCA Collet G27		
	C Collet G28		
		G30	G33
		Axial Adjusting Screw G30	

Clamping diameter: $\varnothing 20 - \varnothing 32$ **Runout Adjustable RA Holder**

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

Center through

Tool edge
runoutWithin $2\mu\text{m}$!

Consistent
hole diameter

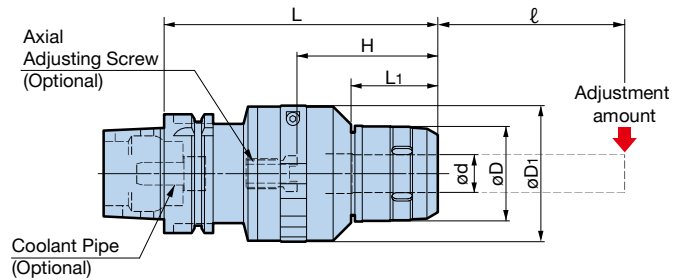
Improved surface
roughness

Extended
tool life

● Model Description

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

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

**A Type**

ℓ = Tool projection length

Model	ød	øD	øD ₁	L	L ₁	H	H Max.	Min. clamping length	Adjustment amount		FK Wrench Model	MEGA WRENCH Model	Weight (kg)
									ℓ=50mm	ℓ=100mm			
HSK-A63-HMC20S-145NRA	20	50	72	145	46	69 - 79	85	45	23 μm	33 μm	FK45-50L	MGR50L	2.9
-HMC32S-155NRA ※	32	68	86	155	55	—	120	53	20 μm	28 μm	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.

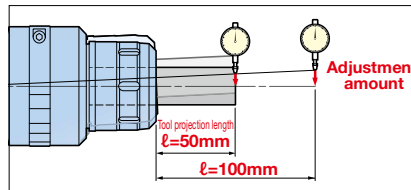
3. H max. is the maximum tool insertion length when the adjusting screw is removed.

4. Coolant pipe must be ordered separately. C67

● 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)
HMC20S-NRA	CK-T4	8
HMC32S-NRA		

Optional Accessories

Straight Collet	Wrench	Mega Wrench	Axial Adjusting Screw
- PJC Collet G25 - PSC Collet G26 - C Collet G28	G30	G33	G30

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.]

● Model Description

HSK-A40 - HDC 3 S - 55

- HSK-A40: HSK Shank Type
- HDC: HYDRAULIC CHUCK
- 3: Clamping diameter
- S: SUPER SLIM Type
- 55: L dimension

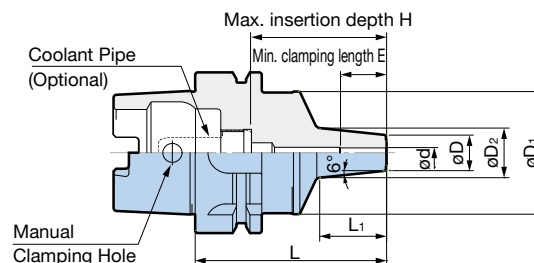


Fig. 1

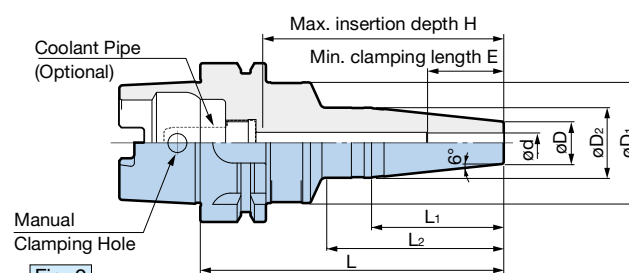


Fig. 2

A Type

Model	Fig.	Clamping diameter øD	øD	øD ₁	øD ₂	L	L ₁	L ₂	H	E	Weight (kg)		
HSK-A40-HDC 3S- 55※NEW	1	3	14	33	18	55	18	—	39	16	0.29		
-HDC 4S- 65		4			21	65	28		49	19	0.33		
-HDC 6S- 75NEW		6			23	75	39			25	0.34		
-HDC 8S- 75NEW		8			17		40		31	0.36			
-HDC10S- 75NEW		10			19				28	47	33	0.37	
-HDC12S- 80NEW		12			21	31	80		45		36	0.40	
HSK-A50-HDC 4S- 75	1	4	14	40	21	75	31	—	55	19	0.56		
HSK-A63-HDC 3S- 90※	1	3	14	48	24	90	43	—	68	16	1.0		
-120※NEW	2				26	120	57	72	98		1.1		
-HDC 4S- 75	1	4			20	75	26	—	53	19	1.0		
- 90NEW					23	90	43		68				
-120	2	5			26	120	57	72	98	22	1.1		
-HDC 5S-120NEW		6						150		85		128	25
-HDC 6S-120		8			28	120	52	70	95	31	1.2		
-150								150	85			125	33
-HDC 8S-120					10	30		120	70	94	36	1.2	
-150								150	87	124			36
-HDC10S-120		12			32	120		70	93	36	1.2		
-150						150		87	123			36	1.2
-HDC12S-120													
-150													
HSK-A100-HDC 4S-150NEW	2	4	14	52	26	150	57	90	121	19	2.7		
-HDC 6S-150NEW		6								25			
-HDC 8S-150NEW		8					31			2.8			
-HDC10S-150NEW		10					33						
-HDC12S-150NEW		12					36				2.9		

1. Adjusting Screw cannot be used.
 2. Coolant pipe is not included. 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.

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

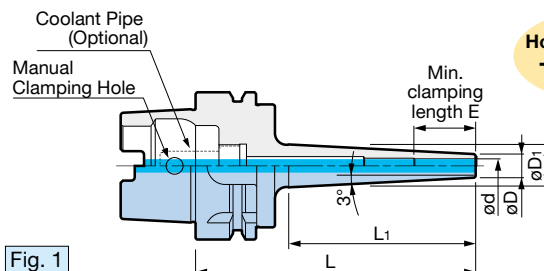


Fig. 1

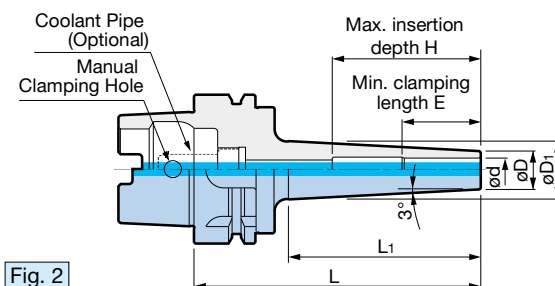


Fig. 2

A Type

Model	Fig.	Clamping diameter ϕd	ϕD	ϕD_1	L	L ₁	H	E	Weight (kg)
HSK-A63-SRC 6S-120	1	6	10	19	120	81	(98)	26	0.9
-165				23	165	121	(143)		1.0
-SRC 8S-120				22	120	81	(98)		1.0
-165	2	8	13	26	165	123	(143)	32	1.1
-SRC10S-120				25	120	81	(98)		1.0
-165		10	16	29	165	123	62	36	1.2
-SRC12S-120				28	120	81	72		1.0
-165		12	19	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.>

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

Center through

CK SHANK

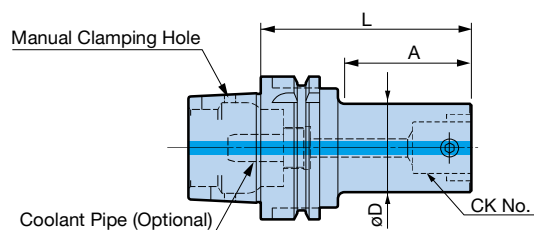


● Model Description

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)
HSK-A 40-CKB1- 73	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
HSK-A 50-CKB1- 73	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
HSK-A 63-CKB1- 78	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
HSK-A100-CKB1-103	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	94	5.8
-213			213	184	10.2
-273			273	244	13.2
HSK-A125-CKB6- 94	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.

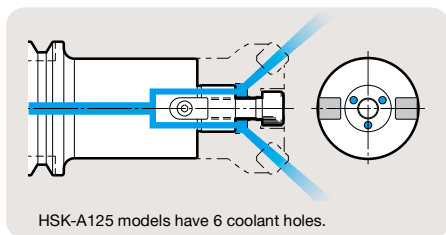
 Heads **A43**

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

Center through



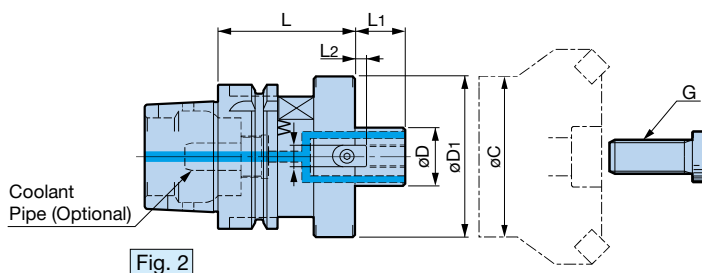
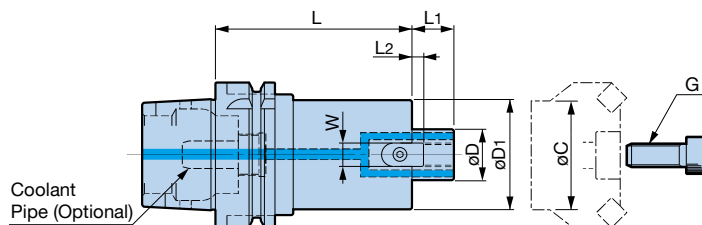
Securely supplies coolant/air to the cutting edge



Model Description

HSK-A50-FMH25.4-50-60

- HSK-A50: HSK SHANK No.
- FMH: FACE MILL ARBOR TYPE H
- 25.4: Spigot diameter
- 50: ϕD_1 dimension
- 60: L dimension



A Type

Model	Fig.	ϕD (h6)	ϕD_1	L	L ₁	Drive Key		G	Weight (kg)	Min. flange diameter ϕC
						L ₂	W			
HSK-A50-FMH25.4 -50- 60	2	25.4	50	60	22	5	9.5	M12	0.9	46
-FMH22 -47- 60	2	22	47	60	18	5	10	M10	0.8	36
- 90				90					1.2	
-FMH27 -60- 60				60					1.0	
- 90	2	27	60	90	20	6	12	M12	1.3	46
HSK-A63-FMH22.225-47- 60	1	22.225	47	60	17	3.5	8	M10	1.3	39
- 90				90					1.7	
-FMH25.4 -70- 60				60					1.8	
- 90	2	25.4	70	90	22	5	9.5	M12	2.5	46
-150				150					4.1	
-FMH31.75 -76- 60				60					2.0	
- 90	2	31.75	76	90	30	7	12.7	M16	2.7	56
-FMH16 -37- 45	1	16	37	45	16	5	8	M 8	1.0	28
-FMH22 -47- 60	1	22	47	60	18	5	10	M10	1.3	36
- 90				90					1.7	
-150				150					2.5	
-60- 60	2	22	60	60	18	5	10	M10	1.4	38
- 90				90					1.8	
-FMH27 -60- 60				60	20	6	12	M12	1.6	46
- 90	2	27	60	90					2.3	
-FMH32 -96- 60	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. ϕC 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.

GENERAL TOOLHOLDER FACE MILL ARBOR TYPE A

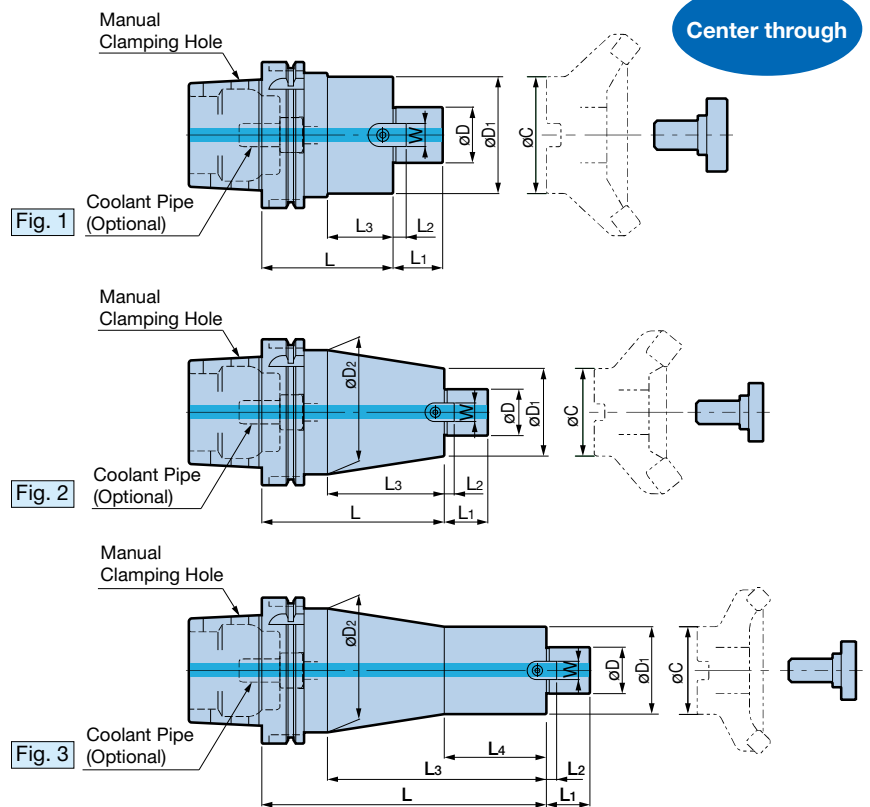
DUAL CONTACT
HSK
SHANK



Model Description

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

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

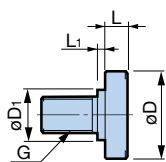


A Type

Model	Fig.	ϕD (h6)	ϕD_1	ϕD_2	L	L ₁	Drive Key		L ₃	L ₄	Clamp Bolt	Weight (kg)	Min. flange diameter ϕC
							L ₂	W					
HSK-A 40-FMA25.4 - 50	1	25.4	50	—	50	22	5	9.5	15	—	MBA-M12	0.66	36
HSK-A 50-FMA25.4 - 60	1	25.4	50	—	60	22	5	9.5	14	—	MBA-M12	1.0	36
- 90					90	22	5	9.5	14			1.3	
-FMA31.75- 60	1	31.75	60	—	60	30	7	12.7	13	—	MBA-M16	1.2	47
HSK-A 63-FMA25.4 - 60	1	25.4	50	—	60	22	5	9.5	18	—	MBA-M12	1.3	36
- 90					90	22	5	9.5	48			1.7	
-FMA31.75- 60					60	30	7	12.7	18			1.5	
-FMA38.1 - 60					60	34	9	15.9	18			2.3	
HSK-A100-FMA25.4 -105	2	25.4	50	70	105	22	5	9.5	60	—	MBA-M12	4.5	36
-135					135	22	5	9.5	90			5.3	
-195					195	22	5	9.5	150			7.1	
-FMA31.75-105	3	31.75	60	85	105	30	7	12.7	60	20	MBA-M16	4.8	47
-135					135	30	7	12.7	90			5.6	
-195					195	30	7	12.7	150			7.0	
-FMA38.1 - 90	1	38.1	80	—	90	34	9	15.9	45	—	MBA-M20	4.9	70
-FMA50.8 - 75					75	36	10	19	25			5.3	

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

Clamping Screw



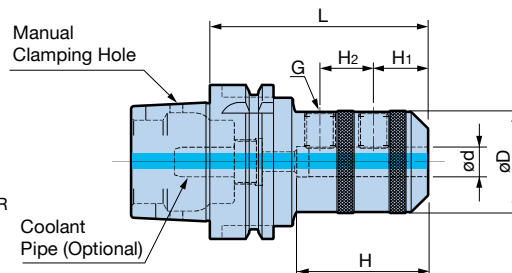
Clamping Screw		Clamping screw with oil hole		ϕD	ϕD_1	L	L ₁	G
Model	Model							
MBA-M12	TMBA-M12			33	23	10	2	12
-M12H	—			33	—	10	—	12
-M16	-M16			40	23	10	6	16
-M16H	—			40	—	10	—	16
-M20	-M20			50	27	14	6	20
-M20H	—			50	—	14	—	20
-M24	-M24			65	37	10	10	24



● Model Description

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

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

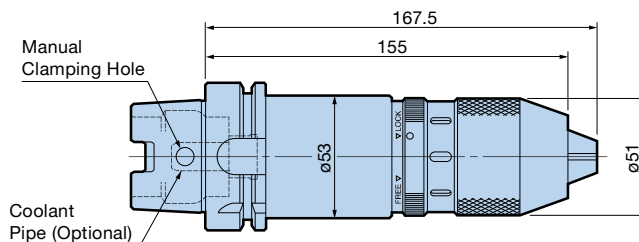
**A Type** Endmill holder in accordance with ISO5414

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	H	H ₁	H ₂	G	Weight (kg)
HSK-A 63-ISL 6- 80	6	25	80	58	18	—	M 6	0.9
-ISL 8- 80	8	28		44	20		M 8	1.0
-ISL10- 80	10	35			22.5		M10	1.1
-ISL12- 80	12	42			24		M12	1.2
-ISL16- 80	16	48			25		M14	1.4
-ISL20- 80	20	52			24		M16	1.5
-ISL25-105	25	65	105	60	24	25	M18	2.3
-ISL32-115	32	72	115	64		28	M20	2.7
HSK-A100-ISL20- 90	20	52	90	54	25	—	M16	3.4
-135			135					4.1
-195			195					5.0
-ISL25-105	25	65	105	60	24	25	M18	4.3
-135			135					5.0
-195			195					6.4
-ISL32-125	32	72	125	90	30	32	M20	4.9
-165			165					6.3
-195			195					7.2
-ISL40-125	40	90	125	90	30	32	M20	5.8
-165			165					8.1
-210			210					10.2
-ISL50-135	50	99.5	135	90	35	35	M24	6.7
-165			165					8.5
-210			210					11.0

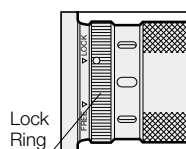
1. Center through coolant supply is available.

2. 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)
HSK-A63-SKL13-155	$\varnothing 0.5 - \varnothing 13$	2.4	FS13LC

1. Hook wrench is included.

2. Coolant pipe is not included. (Cannot be used with center through) C67

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

GENERAL TOOLHOLDER SIDE LOCK DRILL HOLDER

DUAL CONTACT
HSK
SHANK

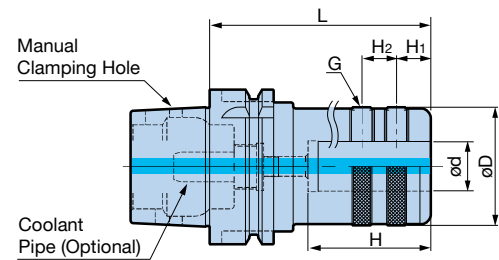


Model Description

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

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

Center through



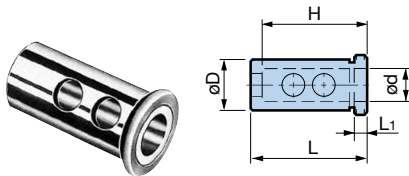
A Type

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

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

For Side Lock type

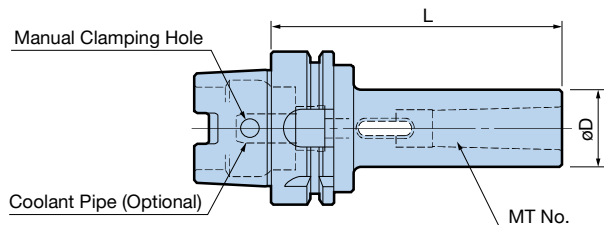
SL Sleeve



Model	ϕd	ϕD	L	L ₁	H
OSL25-16	16	25	62	5.5	48
-20	20			5.5	50
OSL32-20	20	32	66	5.5	50
-25	25			5.5	56
OSL40-25	25	40	76	5.5	56
-32	32			5.5	60

GENERAL TOOLHOLDER MORSE TAPER HOLDER TYPE A (Tang Type)

DUAL CONTACT
HSK
SHANK



A Type

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

- Coolant pipe is not included. C67

BIG C32

High performance side lock holder with slim design, high runout accuracy and high speed capability.

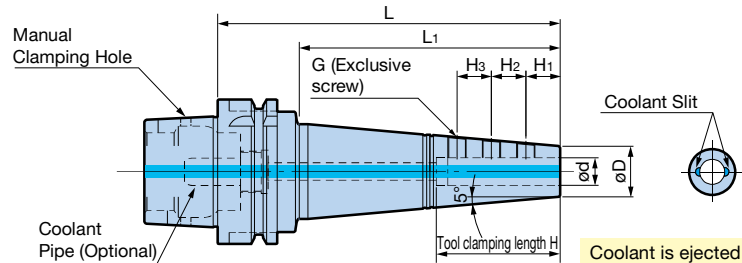
Runout accuracy of $5\mu\text{m}$ between cutting edges of 2-flute ball endmill.

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 ød	øD	L	L ₁	H	H ₁	H ₂	H ₃	G	Weight (kg)		
HSK-A 63-SSL 3-135	3	10	135	99	(113)	6	6	—	M 3	1.0		
-SSL 4-135	4	11					7		M 4	1.0		
-SSL 6-135	6	13				12	13		M 6	1.1		
-SSL 8-135	8	15			40	13.5	18			1.1		
-SSL10-150	10	17	150	114	48	15	20	16	M 8	1.3		
-SSL12-150	12	22		115	60		16			16	1.5	
-SSL16-150	16	26			70		20			22	1.6	
HSK-A100-SSL 8-150	8	15		150	111	(121)	13.5			18	—	M 6
-SSL10-150	10	17	60				20	16	16	M 8		
-SSL12-150	12	22				200	161	15	20		22	3.7
-200	16	26				150	110		65		20	25
-SSL16-150			200	160	4.0							
-200			20	30	150	110	80		20		25	3.4
-SSL20-150	200	160			4.2							
-200												

- Center through coolant supply is available.
 - () indications in H₃ 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
H0304FS-2P	M3 P0.5	4mm x 2pcs	SSL3
H0404FS-2P	M4 P0.5	4mm x 2pcs	SSL4
H06FSA	M6 P0.75	4.5, 5mm x 1pc each	SSL6
H06FSB		4.5, 6mm x 1pc each	SSL8, 10
H08FSA	M8 P0.75	6mm x 2pcs, 8mm x 1pc	SSL12
H08FSB		6, 8, 10mm x 1pc each	SSL16, 20

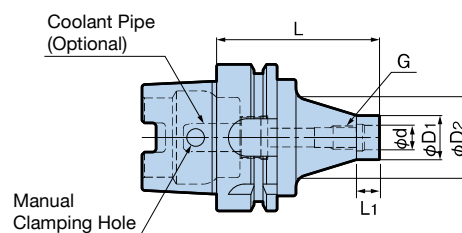
- Each model consists of one set of screws required for each holder.

SCREW-ON HOLDER **NEW**

- Base Holders for Screw-On Cutter



- Model Description
- HSK-A63** - **M8** **15** - **75**
- HSK Shank Type
 - Thread Size
 - Tip Diameter
 - L dimension



A Type

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



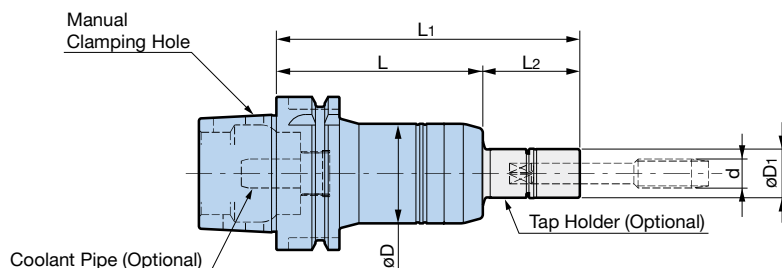
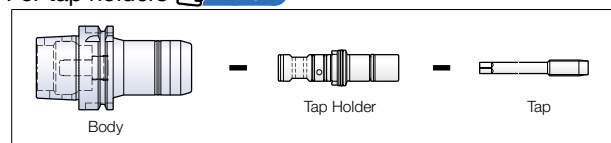
● Model Description (Body)

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

● HSK Shank Type

● MEGA SYNCHRO No.

● L dimension

For tap holders **A134****A Type**

Model	Tap Holder Model	Tapping range d	øD	øD ₁	L	L ₁	L ₂	Body weight (kg)
HSK-A 40-MGT 6- 80	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	80	110	30	0.54
	- 70					150	70	
	-100					180	100	
-MGT12- 85	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	0.63
	- 70					155	70	
	-100					185	100	
HSK-A 50-MGT 6- 85	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	0.8
	- 70					155	70	
	-100					185	100	
-MGT12- 85	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	0.9
	- 70					155	70	
	-100					185	100	
-MGT20-125	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	
HSK-A 63-MGT 6- 85	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	1.1
	- 70					155	70	
	-100					185	100	
-MGT12- 85	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	1.2
	- 70					155	70	
	-100					185	100	
-MGT20-110	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	
HSK-A100-MGT 6- 95	MGT 6-□- 30	M2 - M6 No.3 - U1/4	36	16	95	125	30	2.6
	- 70					165	70	
	-100					195	100	
-MGT12- 95	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	95	125	30	2.7
	- 70					165	70	
	-100					195	100	
-MGT20-115	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	
HSK-A125-MGT12-105	MGT12-□- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	105	135	30	4.1
	- 70					175	70	
	-100					205	100	
-MGT20-120	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.

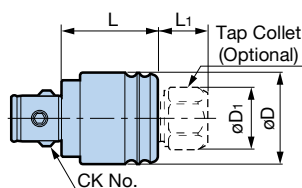
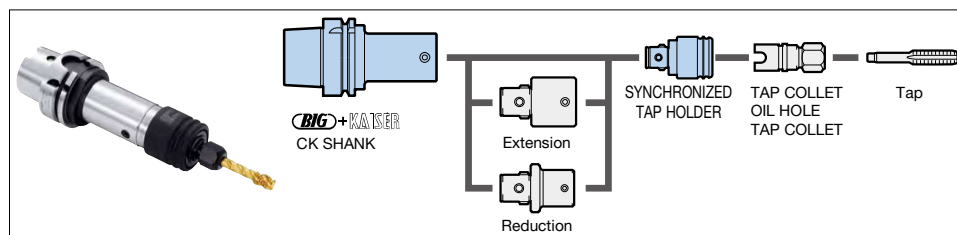
L₂ = 150, 200mm

long tap holders are also available.

For details, **A134**Tap holders **A134**Accessories **G31**

[STC]

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



Model	Tapping range	CK No.	øD	øD ₁	L	L ₁	Weight (kg)	Tap Collet
CKB2-STC 8-47.5	M 2 - M 4	CK2	25.5	15.8	30.5	17	0.10	TC 8-□
	M 5 - M 8			19				
CKB3-STC12-66	M 3 - M12	CK3	32	22	36	30	0.18	TC12-□
CKB4-STC20-72	M 7 - M12	CK4	44	22	47	25	0.42	TC20-□
	M14 - M20			31				
CKB5-STC30-92	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 L₁ dimension is 5mm longer with oil hole tap collets.

Tap Collets **A144**

Oil Hole Tap Collets **A145**

Holder **C25**

Simple and compact tapper with automatic depth control.

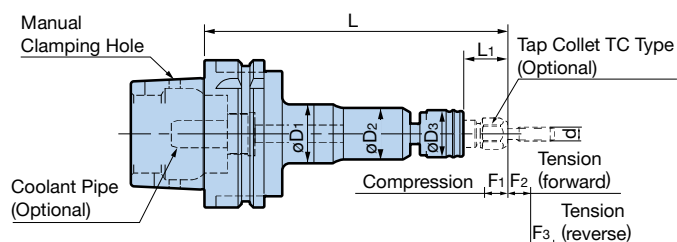
● Model Description

HSK-A100 - **AUTO-B** **120** - **190**

- L dimension
- Tapping range
- AUTO TAPPER B
- HSK Shank Type



Automatic depth control

**A Type**

Model	Tapping range d	øD ₁	øD ₂	øD ₃	L	L ₁	F ₁	F ₂	F ₃	Weight (kg)	Applicable Tap Collet
HSK-A100-AUTO-B120-190	M 3 - M12	40	35	32	190	30	6	6	12.5	3.1	TC12-□
-AUTO-B200-225	M 7 - M20	54	48	44	225	25	6.5	6.5	13	4.1	TC20-□
-AUTO-B300-255	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. F₂ 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**

- L dimension
- Maximum clamping diameter
- NEW BABY CHUCK System
- 90° Head Type
- HSK Shank Type

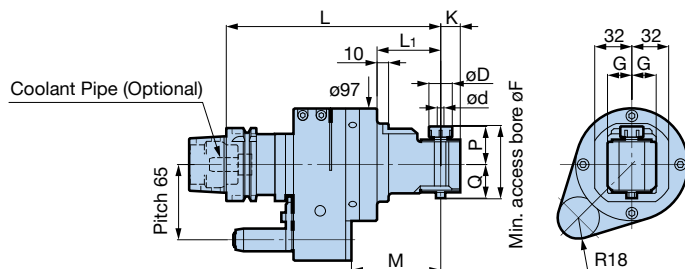


Fig. 1 Max.6,000min⁻¹

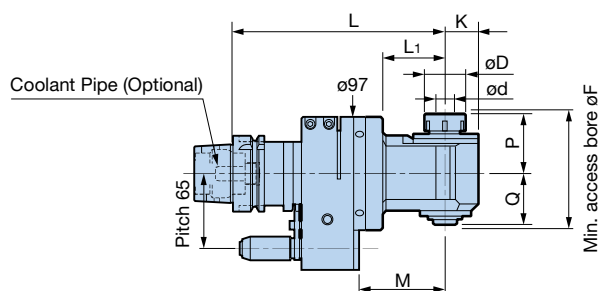


Fig. 2 Max.6,000min⁻¹

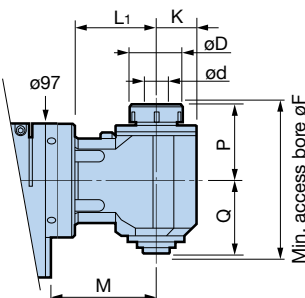


Fig. 3 Max.3,000min⁻¹

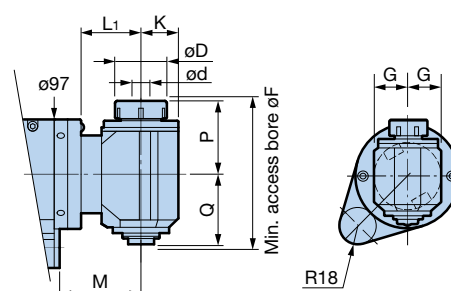


Fig. 4 High Rigidity Type
Max.3,000min⁻¹

- 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.	ød	øD	G	K	L	L ₁	M	P	Q	øF	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						215	85	107						5.2	6.1
-245						245	115	137						5.4	6.3
-275						275	145	167						5.6	6.5
-AG90/NBS10 -185	2	1.5 - 10	30	30	25	185	55	77	45	43	91	NBC10		5.4	6.3
-215						215	85	107						5.8	6.7
-245						245	115	137						6.1	7.0
-AG90/NBS13 -185	2	2.5 - 13	35	31	28	185	55	77	52	45	101	NBC13		5.5	6.4
-215						215	85	107						5.9	6.8
-245						245	115	137						6.2	7.1
-AG90/NBS20 -200	3	2.5 - 20	46	35	35	200	70	92	65	62	132	NBC20		6.6	7.5
-AG90/NBS20S -180 S	4	2.5 - 20	46	35	33	180	53	72	65	62	132	NBC20		—	7.9

- The cutting tool rotates in reverse to the machine spindle.
- 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.
- 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.
- New Baby Endmill Collets cannot be used.
- Coolant pipe is not included. (Cannot be used with center through) 

 Collets **G7**

 Tap Collets **G17**

 Insertion Length List **C42**

 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

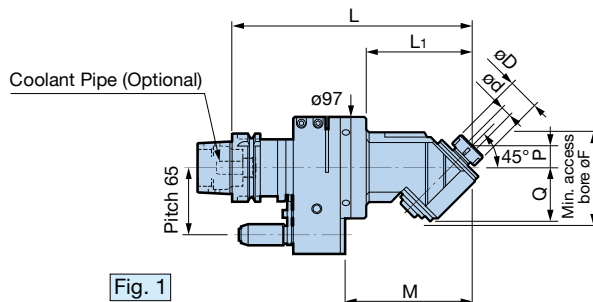


Fig. 1

Max.6,000min⁻¹

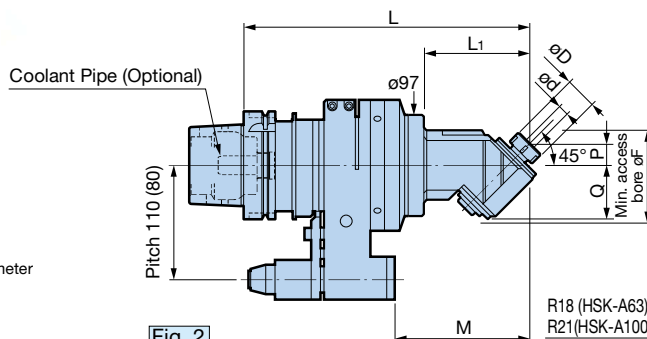


Fig. 2

Max.6,000min⁻¹

● Model Description

HSK-A63	-	AG45	/	NBS	10	-	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 ₁	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)	—
-AG45/NBS13-235 ☐		2.5 - 13	35		235	105	127	25			NBC13		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
-AG45/NBS13-275 ☐		2.5 - 13	35		275	105	132	25			NBC13		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**



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



- Model Description

HSK-A63 - AGU / NBS 13 - 285
 • HSK Shank Type
 • Universal type
 • NEW BABY CHUCK System
 • Maximum clamping diameter
 • L dimension



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 $\pm 5'$)

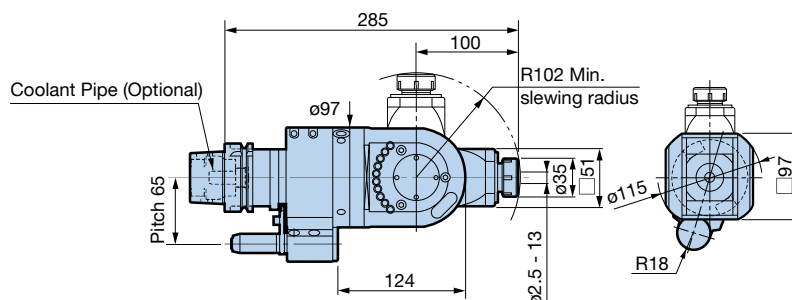


Fig. 1 Max. 6,000min⁻¹

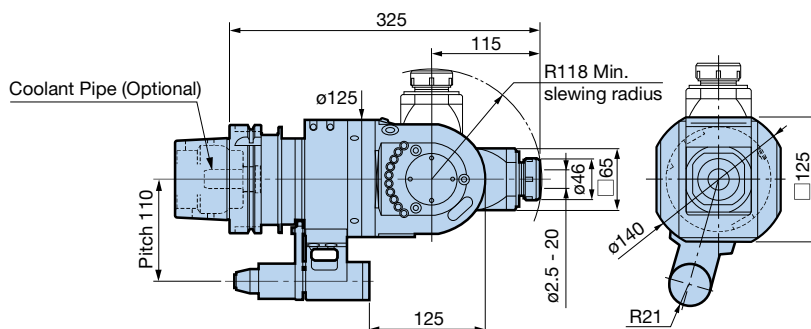


Fig. 2 Max. 4,000min⁻¹

A Type

Model	Fig.	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-AGU/NBS13-285	1	NBC13	1:1	9.6
HSK-A100-AGU/NBS20-325	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)  **C67**

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

 Collets **G7**

 Tap Collets **G17**

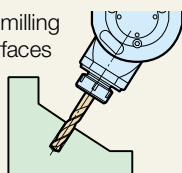
Insertion Length List **C42**

 Stop Blocks **A170**

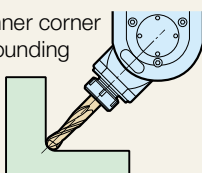


Machining examples Easy angle setup

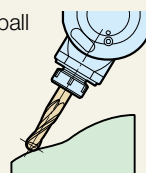
- Drilling or endmilling on angled surfaces



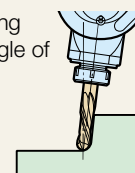
- Inner corner rounding



- Profiling with ball endmill

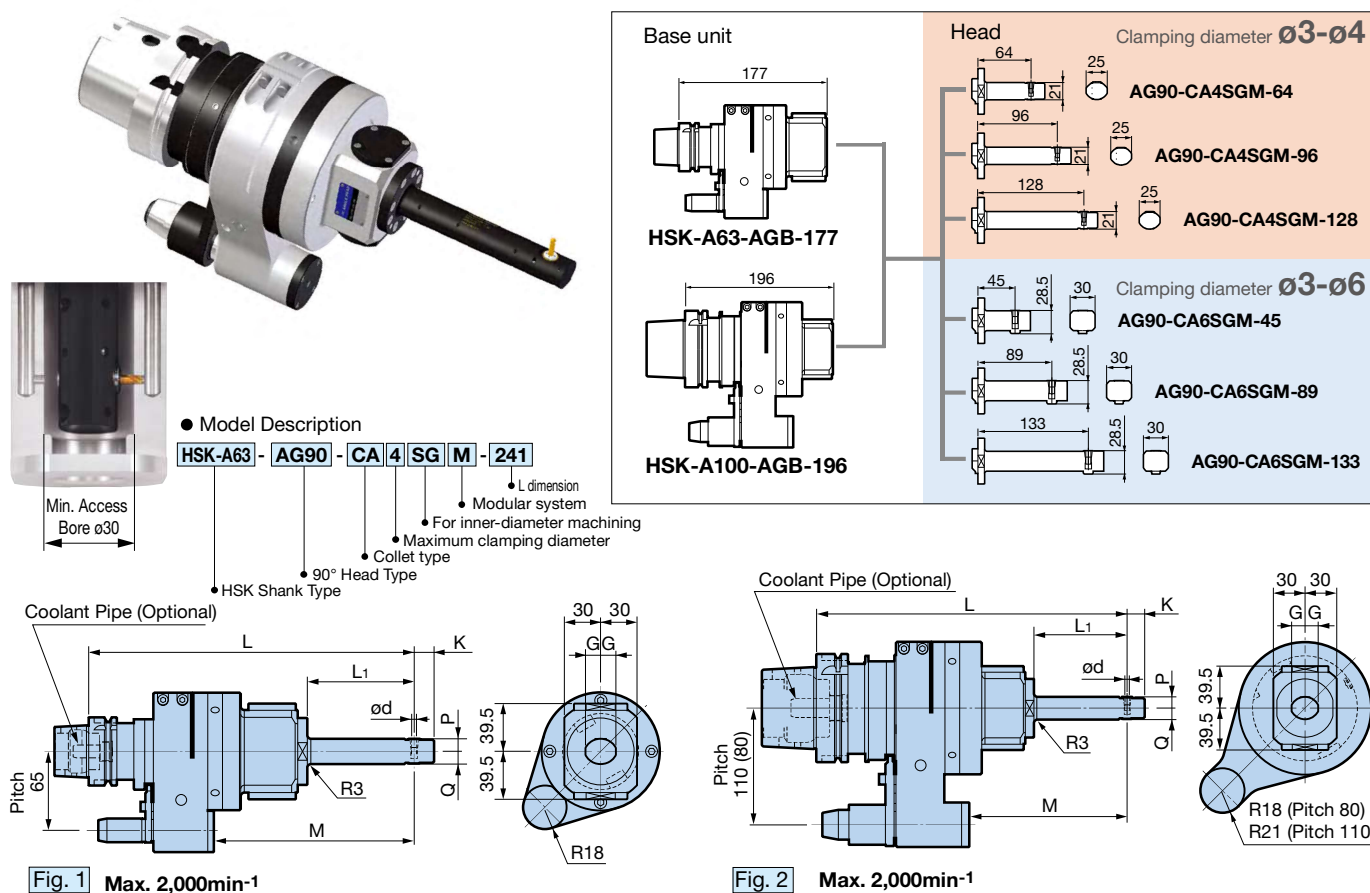


- Machining draft angle of molds



Small bore type

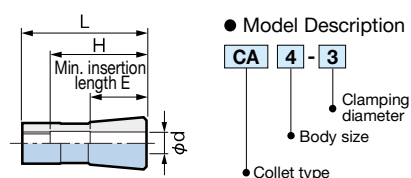
- Achieves inner-diameter lateral drilling with minimum access bore of $\phi 30$. (For CA6SGM, min. access bore $\phi 40$)
- Prevents interference through flexible combination of base units and heads.
- The head is positioned at the center of the spindle, enabling easy programming.

**A Type**

Set Model	Base Model	Head Model	Fig.	ϕd	G	K	L	L ₁	M	P	Q	Speed Ratio Input:output	Weight (kg)		
													Pitch 65	Pitch 80	Pitch 110
HSK-A 63-AG90-CA4SGM-241	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		
HSK-A 63-AG90-CA6SGM-222		AG90-CA6SGM- 45	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		
HSK-A100-AG90-CA4SGM-260	HSK-A100-AGB-196	AG90-CA4SGM- 64	2	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
HSK-A100-AG90-CA6SGM-241		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

1. The cutting tool rotates in forward to the machine spindle.
2. Models with pitch 80 carry "S" at the end of the model number.
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. Wrench is included. Exclusive collet is not included. Please order separately.
7. Coolant cannot be supplied through the Locating Pin.
8. Coolant pipe is not included. (Cannot be used with center through) C67


 Stop Blocks **A170**
Exclusive collet

Model	Clamping diameter ϕd	H	E	L
CA4-3	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 ϕd	H	E	L
CA6-3	3	16	7.5	22
-4	4			
-5	5			
-6	6			

The ultra-precision spindle enables challenging micromachining!

Machine spindle
rotation **zero**

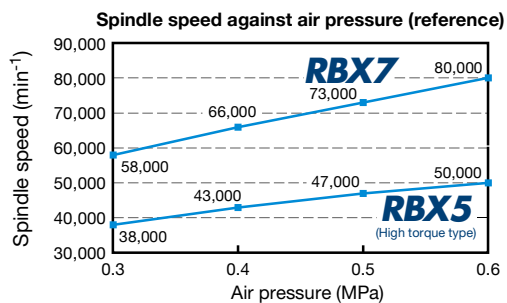
Max.
80,000min⁻¹

Ceramic ball bearing type

RBX Series

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

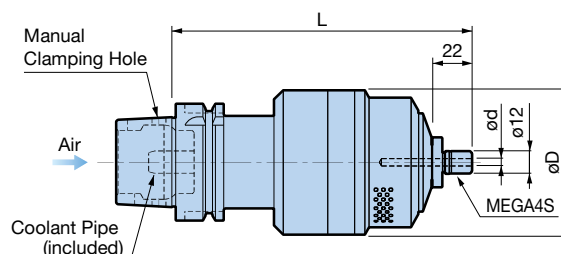
	RBX5 (High torque type)	RBX7
Operating spindle speed (min ⁻¹)	40,000 - 50,000	60,000 - 80,000
Clamping diameter	ø0.45 - 4.05mm (MEGA4S)	
Spindle nose runout accuracy	Within 1 μm	
Air pressure	0.3 - 0.6MPa	
Air flow rate	300L/min [ANR] (at 0.6MPa)	



[Center Through Type]



ATC compatible



A Type

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

Micro Collets G4



Caution

• 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.

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

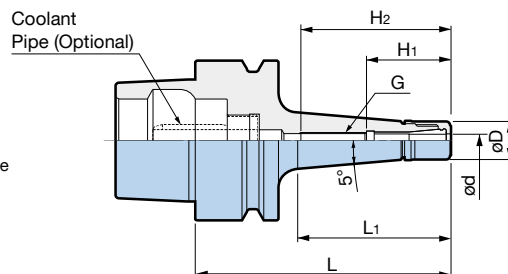
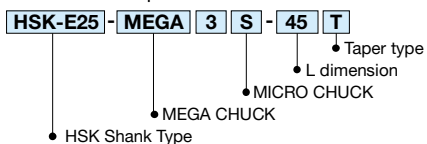
Center through

Max.
60,000min⁻¹**[High Rigidity Taper Type]**

- Ultra-fine endmilling supported.



● Model Description

**E Type**

Model	Clamping diameter øD	øD	L	L ₁	H ₁	H ₂	G	Collet Model	Weight (kg)
HSK-E25-MEGA3S- 45T ※	0.45 - 3.25	10	45	32	22	(32)	—	NBC3S-□	0.06
- 60T			60	48		38	M4 P0.7		0.08
-MEGA4S- 45T ※	0.45 - 4.05	12	45	33	26.5	(32)	—	NBC4S-□	0.07
- 60T			60	49		41	M5 P0.8		0.09
-MEGA6S- 45T ※	0.45 - 6.05	14	45	33	28.5	(31)	—	NBC6S-□	0.07
- 60T			60	49		40	M7 P0.75		0.09
HSK-E32-MEGA3S- 60T	0.45 - 3.25	10	60	35	22	38	M4 P0.7	NBC3S-□	0.15
- 75T			75	50		38			0.17
-MEGA4S- 45T ※	0.45 - 4.05	12	45	23	26.5	(26)	—	NBC4S-□	0.14
- 60T			60	35		46	M5 P0.8		0.16
-MEGA6S- 45T ※	0.45 - 6.05	14	45	23	28.5	(28)	—	NBC6S-□	0.14
- 60T			60	36		38	M7 P0.75		0.17
-MEGA8S- 60T ※	2.95 - 8.05	18	60	38	31	(43)	—	NBC8S-□	0.18
HSK-E40-MEGA3S- 60T	0.45 - 3.25	10	60	35	22	39	M4 P0.7	NBC3S-□	0.23
- 75T			75	50		38			0.25
-MEGA4S- 60T	0.45 - 4.05	12	60	35	26.5	44	M5 P0.8	NBC4S-□	0.24
- 75T			75	50		47			0.27
-MEGA6S- 60T ※	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
HSK-E50-MEGA3S- 80T	0.45 - 3.25	10	80	49	22	38	M4 P0.7	NBC3S-□	0.5
-MEGA4S- 80T	0.45 - 4.05	12		48	26.5	47	M5 P0.8	NBC4S-□	0.5
-MEGA6S- 80T	0.45 - 6.05	14		49	28.5	49	M7 P0.75	NBC6S-□	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. H₂ () 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

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

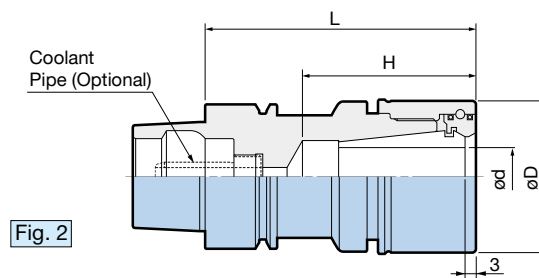
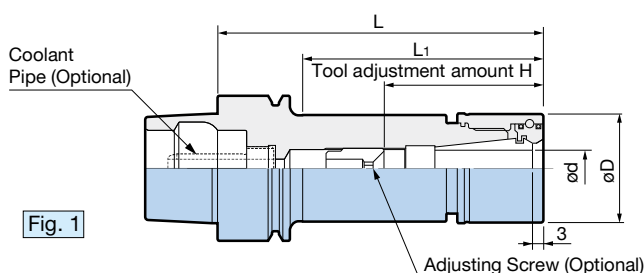
Center through

Max.
50,000min⁻¹

● Model Description

HSK-E25 - **MEGA** **6** **N** - **40**

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

**E Type**

Model	Fig.	Clamping diameter øD	øD	L	L ₁	H	Collet Model	Weight (kg)
HSK-E25-MEGA 6N- 40 ※	1	0.25 - 6	20	40	29	25	NBC 6-□	0.09
8N- 45 ※	2	0.5 - 8	25	45	—	30	NBC 8-□	0.12
10N- 60 ※▲		1.5 - 10	30	60	—	45	NBC10-□	0.19
HSK-E32-MEGA 6N- 45 ※	1	0.25 - 6	20	45	24	28	NBC 6-□	0.17
- 60				60	37	23 - 27		0.20
-MEGA 8N- 50 ※	1	0.5 - 8	25	50	29	33	NBC 8-□	0.20
- 65				65	44	26 - 32		0.25
-MEGA10N- 65 ※	2	1.5 - 10	30	65	—	47	NBC10-□	0.28
-MEGA13N- 70 ※		2.5 - 13	35	70	—	44	NBC13-□	0.32
HSK-E40-MEGA 6N- 50 ※	1	0.25 - 6	20	50	26	31	NBC 6-□	0.26
- 60				60	34	23 - 26		0.28
- 75				75	49	23 - 41		0.31
- 90				90	64	23 - 43		0.34
-120				120	94			0.40
-MEGA 8N- 55 ※	1	0.5 - 8	25	55	31	36	NBC 8-□	0.30
- 75				75	51	26 - 41		0.36
- 90				90	66	26 - 45		0.41
-MEGA10N- 60 ※	1	1.5 - 10	30	60	37	40	NBC10-□	0.35
- 75 ※				75	52	55		0.42
- 90				90	67	38 - 48		0.49
-MEGA13N- 65 ※	1	2.5 - 13	35	65	44	44	NBC13-□	0.42
- 75 ※				75	54	55		0.48
- 90				90	69	44 - 48		0.57
-120				120	99	44 - 63		0.80
-150				150	129			0.95
-MEGA16N- 65 ※▲	2	2.5 - 16	42	65	—	46	NBC16-□	0.46
- 75 ※				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

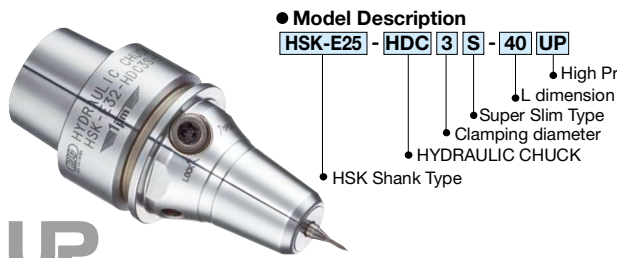
8. For machines which cannot be used with a through hole, order a plug separately. C67

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

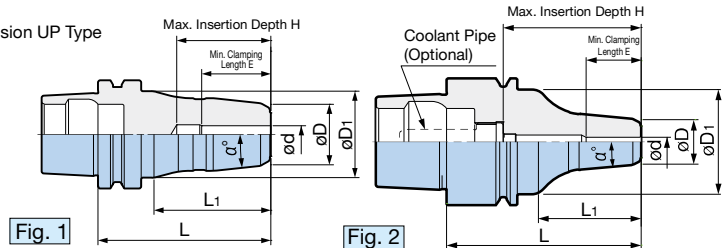
[Super Slim Type PAT.]

1 μm
ULTRA PRECISION

Max.
60,000 min^{-1}



- 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



Center through

E Type

Model	Fig.	Clamping Diameter ϕd	ϕD	ϕD_1	L	L ₁	α°	H	E	Max. min^{-1}	Weight (kg)
HSK-E25-HDC3S -40UP	1	3	14	20	40	27	6°	22	16	60,000	0.09
-HDC3.175S-40UP		3.175						21			
-HDC4S -40UP		4						26			
-HDC6S -45UP※		6			45	31		26	21		0.10
HSK-E32-HDC3S -52UP	1	3	14	26	52	29	6°	28	16	45,000	0.19
-HDC3.175S-52UP		3.175						33	19		
-HDC4S -52UP		4						33	25		
-HDC6S -57UP		6			57	34		33	25		0.20
HSK-E40-HDC3S -55UP▲	2	3	14	33	55	29	6°	39	16	42,000	0.29
-HDC3.175S-55UP▲		3.175						40	19		
-HDC4S -55UP▲		4						40	25		
-HDC6S -60UP		6			60	34		40	25		0.30

1. HSK-E25 and -E32 cannot be used with center through.
2. Coolant pipe is not included. C67
3. Adjusting Screw cannot be used.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. G30

4. ※ 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.
5. For HSK-E40, which cannot be used with a through hole, order a plug separately. C67
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.

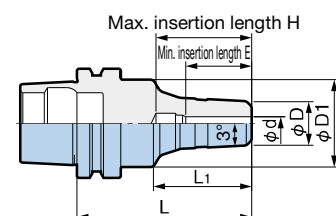
Even slimmer and lighter-weight. Tip outer diameter of $\phi 10\text{mm}$ with Hydraulic Chuck.

[Extra Slim Type]

Max.
60,000 min^{-1}



- 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 ϕd	ϕD	ϕD_1	L	L ₁	H	E	Weight (kg)
HSK-E25-HDC3XS- 40	3	10	20	40	22.5	22	16	0.07
-HDC4XS- 40	4							

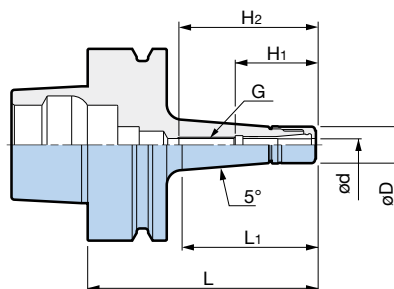
1. Cannot be used with center through.
2. Adjusting Screw cannot be used.
- It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. G30

Caution

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

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

Center through

Max.
32,000 min^{-1} **[High Rigidity Taper Type]**

● Model Description

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

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

F Type

Model	Clamping diameter $\varnothing d$	$\varnothing D$	L	L ₁	H ₁	H ₂	G	Collet Model	Weight (kg)
HSK-F63-MEGA4S-75T	0.45 - 4.05	12	75	44	26.5	41	M5 P0.8	NBC4S-□	0.7
-MEGA6S-75T	0.45 - 6.05	14	75	44	28.5	41	M7 P0.75	NBC6S-□	0.7
-MEGA8S-75T	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. 

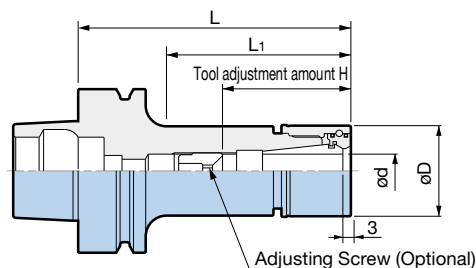
High-speed small-diameter drilling and endmilling are achieved with the exceptional tool balance and high-precision collet chuck system.

Center through

Max.
35,000min⁻¹

● 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 øD	øD	L	L ₁	H	Collet Model	Weight (kg)
HSK-F63-MEGA 6N- 75	0.25 - 6	20	75	42	23 - 31	NBC 6-□	0.7
- 90			90	53	23 - 43		0.8
-105			105	69			0.8
-135			135	99			0.9
-MEGA 8N- 75	0.5 - 8	25	75	43	26 - 38	NBC 8-□	0.8
- 90			90	54	26 - 45		0.9
-105			105	69			0.9
-120			120	84			0.9
-135			135	99			1.0
-165			165	129			1.1
-MEGA10N- 75 ※	1.5 - 10	30	75	43	48	NBC10-□	0.9
- 90			90	54	38 - 48		0.9
-105			105	69			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

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

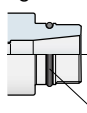
2. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.

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.

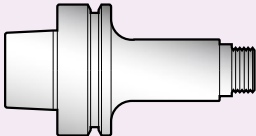
When using, slowly ramp up to the appropriate speed starting from slow speeds.

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

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

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.

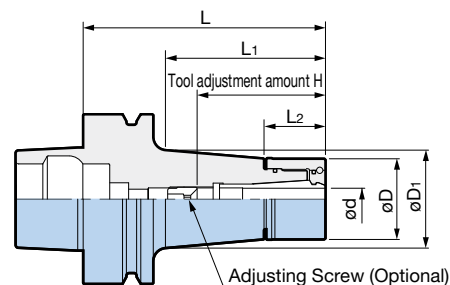
Center through

Max.
30,000min⁻¹

● Model Description

HSK-F63 - MEGA 6 E - 65

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



F Type

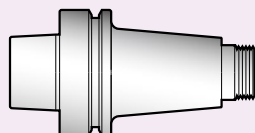
Model	Clamping diameter ϕ d	ϕ D	ϕ D ₁	L	L ₁	L ₂	H	Collet Model	Weight (kg)
HSK-F63-MEGA 6E- 65 ※	3 - 6	25	28.5	65	34	21	39	MEC 6-□	0.8
- 90			31.5	90	58		37 - 45		0.9
-MEGA 8E- 65 ※	3 - 8	30	33	65	34	22.5	41	MEC 8-□	0.8
- 90			36.5	90	59		42 - 47		1.0
-MEGA10E- 75 ※	3 - 10	35	38.5	75	44	23	48	MEC10-□	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
-MEGA13E- 75 ※	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.

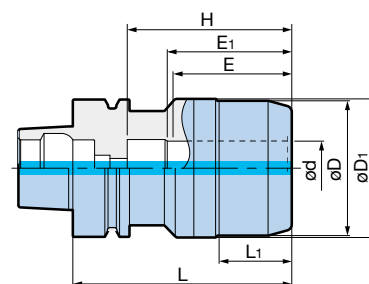
Center through

Max.
28,000_{min}⁻¹**[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 $\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	H	Min. clamping length		Mega Wrench	Weight (kg)
							E	E ₁		
HSK-F63-MEGA16D- 80A	16	42	53	80	25	55	48	50	MGR42L	1.2
-MEGA20D- 90A	20	50	55	90	34	65	50	56	MGR50L	1.4
-MEGA25D-100A	25	62	63	100	39	75	56	57	MGR62L	1.8
-MEGA32D-105A	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 E₁ or more.

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.

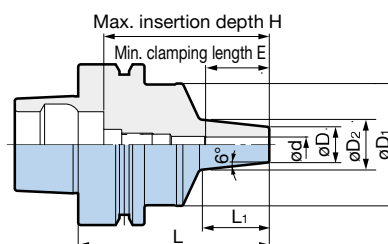
- Slim design minimizes workpiece interference, ideal for mold making.

Center through

[SUPER SLIM Type PAT.]



- Model Description
- HSK-F63** - **HDC** **3** **S** - **75**
- L dimension
- SUPER SLIM Type
- Clamping diameter
- HYDRAULIC CHUCK
- HSK Shank Type



F Type

Model	Clamping diameter ød	øD	øD ₁	øD ₂	L	L ₁	H	E	Weight (kg)
HSK-F63-HDC 3S- 75※	3	14	48	20	75	26	65	16	1.0
-HDC 4S- 75	4							19	1.0
-HDC 6S- 75	6							25	1.0
-HDC 8S- 75	8	17		27		31		1.0	
-HDC10S- 75	10	19				33		1.0	
-HDC12S- 75	12	21				28		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**

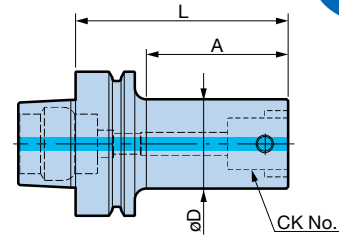
Caution

- 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.

CK SHANK



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



Center through

F Type

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

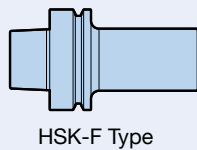
Model	CK No.	ØD	L	A	Weight (kg)
HSK-F63-CKB1- 78	CK1	19	77.5	40	0.8
CKB2- 90	CK2	24	89.5	58	0.8
CKB3-100	CK3	31	100	69	1.0
CKB4- 93	CK4	39	93	62	1.2
CKB5- 83	CK5	50	83	55	1.3

Heads **A41**

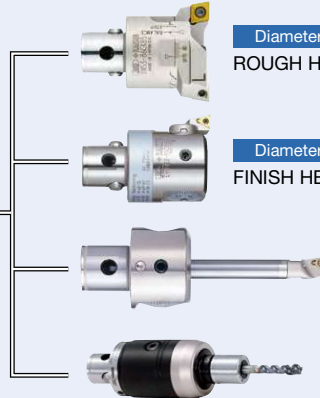
- Supports various applications from rough to finish boring with abundant heads and accessories.

BIG + **KAISER**
BIG DAI SHOWA

CK BORING SYSTEM Diagram



CK1 - CK5



Diameter: Ø20 - Ø86
ROUGH HEAD A41

Diameter: Ø20 - Ø95
FINISH HEAD A53

Diameter: Ø1 - Ø32
FINISH HEAD (Cylindrical tool type) A61

M2 - M36
MEGA SYNCHRO TAPPING HOLDER A87

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

Back boring available

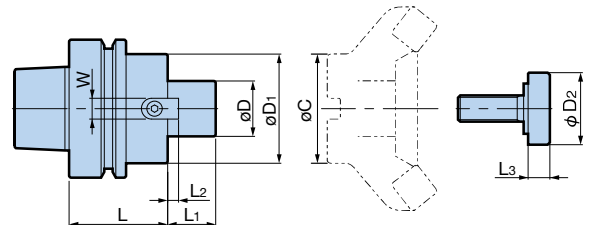
Diameter: Ø30 - Ø95

GENERAL TOOLHOLDER FACE MILL ARBOR TYPE A

DUAL CONTACT
HSK
SHANK



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



F Type

Model	ØD	ØD1	ØD2	L	L1	Drive Key		L3	Clamp Screw	Weight (kg)	Min. flange diameter ØC
HSK-F63-FMA25.4-45	25.4	50	33	45	22	L2	W	10	MBA-M12	1.0	36

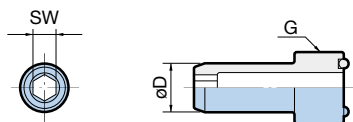
1. Cutter clamp screw is included.

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.



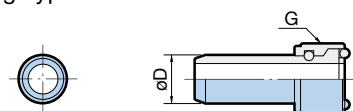
Caution

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

[1° Swing Type]

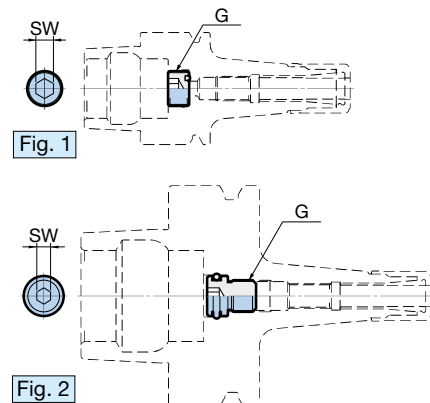
- The DIN and ISO standards require movement range of $\pm 1^\circ$. An exclusive wrench (optional) is required when attaching the 1° Swing Type to a holder.



Model	øD	G	Wrench Model (Optional)
HSK 40-CPM	8	M12xP1	CPW- 40
50-CPM	10	M16xP1	CPW- 50
63-CPM	12	M18xP1	CPW- 63
80-CPM	14	M20xP1.5	CPW- 80
100-CPM	16	M24xP1.5	CPW-100
125-CPM	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
HSK25-PG	1	HSK-A25	M 8xP1	4
		HSK-E25		
HSK32-PG		HSK-A32	M10xP1	5
		HSK-E32		
HSK40-PG	2	HSK-A40	M12xP1	6
		HSK-E40		
HSK-F63-PG	2	HSK-F63	M 9xP0.75	4

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