DUAL CONTACT HSK SHANK

A/E/F Types

HSK Shank

C

BIG C

For High Speeds

MEGA MICRO CHUCK PAT.

Clamping diameter: ø0.45 - ø8.05

Ultra-slim design with world's smallest ø10 nut outer diameter.
Slim and high speed holder for less interference with the workpiece or jig.

World's Original

Max. 40,000min^{-1}

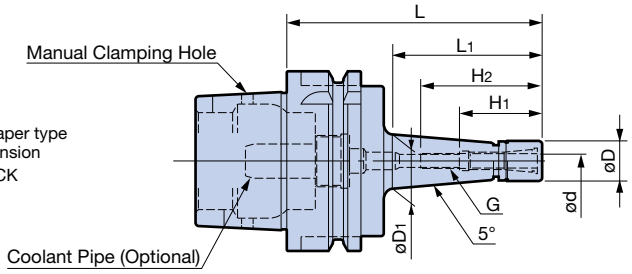
●Models for ultra-small endmilling are newly added!

[High Rigidity Taper Type]

● Model Description

HSK-A40 - MEGA 3 S - 75 T

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



Through hole type.

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

Model	Clamping diameter ød	øD	øD1	L	L1	H1	H2	G	Collet Model	Weight (kg)
HSK-A40-MEGA3S- 75T	0.45 - 3.25	10	16	75	44	22	38	M4 P0.7	NBC 3S-□	0.28
- 90T			18	90	60					0.31
-MEGA4S- 60T	0.45 - 4.05	12	14	60	27	26.5	44	M5 P0.8	NBC 4S-□	0.27
- 90T			20	90	60		47			0.33
-105T			23	105	76					0.37
-MEGA6S- 60T ※	0.45 - 6.05	14	16	60	29	28.5	(40)	—	NBC 6S-□	0.28
- 75T			19	75	45		49	M7 P0.75		0.31
- 90T			21.5	90	60					0.34
-105T			25	105	76					0.39
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. C63

[Straight Type]

● Straight type with less workpiece interference.

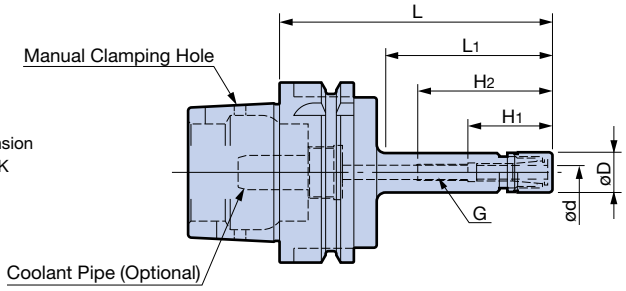
World's Original

MAX. 35,000min^{-1}

● Model Description

HSK-A40 - MEGA 3 S - 60

- 60: L dimension
- S: MICRO CHUCK
- MEGA: MEGA CHUCK
- 3: 3 Micro Collets
- HSK-A40: HSK Shank Type



Through hole type.

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

Model	Clamping diameter ød	øD	L	L_1	H_1	H_2	G	Collet Model	Weight (kg)
HSK-A40-MEGA3S- 60	0.45 - 3.25	10	60	26	22	39	M4 P0.7	NBC 3S-□	0.26
-MEGA4S- 60	0.45 - 4.05	12	60	27	26.5	44	M5 P0.8	NBC 4S-□	0.26
- 90			90	57		47			0.29
-MEGA6S- 60 ※	0.45 - 6.05	14	60	28	28.5	(40)	—	NBC 6S-□	0.27
- 90			90	58		49	M7 P0.75		0.30
HSK-A50-MEGA4S- 75	0.45 - 4.05	12	75	36	26.5	47	M5 P0.8	NBC 4S-□	0.5
-MEGA6S- 75	0.45 - 6.05	14	75	36	28.5	49	M7 P0.75	NBC 6S-□	0.6
HSK-A63-MEGA4S- 75	0.45 - 4.05	12	75	36	26.5	48	M5 P0.8	NBC 4S-□	0.8
-105			105	61		47			0.9
-MEGA6S- 75	0.45 - 6.05	14	75	36	28.5	48	M7 P0.75	NBC 6S-□	0.9
-105			105	61		49			0.9
-MEGA8S- 90	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_2 ( ) dimension is the max. tool shank length that can be inserted into the holder.
5. Coolant pipe is not included. C63

Standard Accessory	Optional Accessories				
MEGA NUT	Mega Wrench	Micro Collet	Micro Seal Nut (For 6S and 8S)	Collet Case	α Taper Cleaner
					
For Spares G3	G22	G2	G3	G3	G3

For High Speeds

MEGA NEW BABY CHUCK PAT.

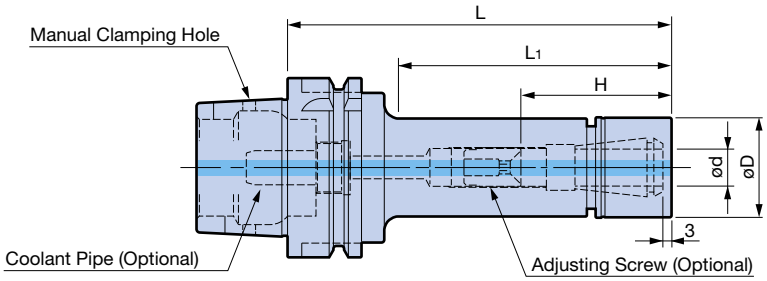
Clamping diameter: ø0.25 - ø20

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

World's Original

Center through

Max. 35,000min^{-1}



● Model Description

HSK-A40 - MEGA 6 N - 60

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

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

For HSK-A63 and A100, C5

Model	Clamping diameter ød	øD	L	L1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-A40-MEGA 6N- 60 ※	0.25 - 6	20	60	30	33	NBC 6-□	0.31
- 75			75	45	23 - 38		0.34
- 90			90	60	23 - 43		0.37
-MEGA 8N- 60 ※	0.5 - 8	25	60	30	41	NBC 8-□	0.35
- 90			90	60	26 - 44		0.44
-MEGA10N- 60 ※	1.5 - 10	30	60	26	40	NBC10-□	0.42
- 90			90	54	38 - 48		0.56
-MEGA13N- 75 ※	2.5 - 13	35	75	55	55	NBC13-□	0.55
- 90 ※			90	70	64		0.64
-MEGA16N- 75 ※	2.5 - 16	42	75	55	53	NBC16-□	0.65
- 90 ※			90	70	63		0.78
-MEGA20N- 90 ※	2.5 - 20	46	90	70	66	NBC20-□	0.86

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. C63

Standard Accessory	Optional Accessories				
MEGA NUT	MEGA NUT Flat Type	Mega Wrench	Collet	MEGA PERFECT SEAL	Adjusting Screw
					
For Spares G10	G10	G22	G4	G11	G10

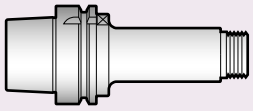
A Type (DIN 69893-1) (ISO 12164)

Model	Clamping diameter ød	øD	L	L_1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-A50-MEGA 6N- 75	0.25 - 6	20	75	37	23 - 43	NBC 6-□	0.6
-100			100	60			0.6
-135			135	93			0.7
-MEGA 8N- 75	0.5 - 8	25	75	37	26 - 37	NBC 8-□	0.6
-100			100	62	26 - 45		0.7
-135			135	96			0.8
-MEGA10N- 75 ※	1.5 - 10	30	75	38	46	NBC10-□	0.7
-100			100	63	38 - 48		0.8
-135			135	98			1.0
-MEGA13N- 75 ※	2.5 - 13	35	75	40	46	NBC13-□	0.7
-100			100	65	44 - 56		0.9
-135			135	100	44 - 63		1.1
-MEGA16N- 75 ※	2.5 - 16	42	75	49	48	NBC16-□	1.0
-100			100	74	48 - 55		1.1
-135			135	109	48 - 68		1.4
-MEGA20N- 75 ※▲	2.5 - 20	46	75	49	47	NBC20-□	0.9
-100			100	74	51 - 54		1.3
-135			135	109	51 - 68		1.8
-MEGA25N- 95 ※	15.5 - 25.4	60	95	69	65	NBC25-□	1.3

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. Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
7. 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.
8. Coolant pipe is not included. C63

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

MEGA NEW BABY CHUCK PAT.

Clamping diameter: ø0.25 - ø25.4

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

● Model Description

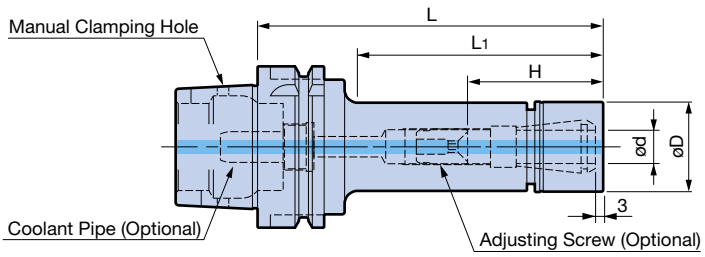
HSK-A63 - MEGA 6 N - 75

- 75: L dimension
- N: NEW BABY CHUCK
- 6: Maximum clamping diameter
- MEGA: MEGA CHUCK
- HSK-A63: HSK Shank Type

World's Original

Center through

Max. 35,000min^{-1}



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

Model	Clamping diameter ød	øD	L	L1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-A63-MEGA 6N- 75	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
-MEGA 8N- 75	0.5 - 8	25	75	35	26 - 38	NBC 8-□	0.9
- 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
-MEGA10N- 75 ※	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
-MEGA13N- 75 ※	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
-MEGA16N- 75 ※	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
-MEGA20N- 75 ※	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
-MEGA25N- 90 ※	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. C63

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

Model	Clamping diameter ød	øD	L	L_1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-A100-MEGA 6N- 90	0.25 - 6	20	90	43	23 - 43	NBC 6-□	2.5
-105			105	58			2.5
-120			120	73			2.5
-135			135	88			2.5
-165			165	113			2.6
-MEGA 8N- 90	0.5 - 8	25	90	43	26 - 45	NBC 8-□	2.5
-105			105	58			2.6
-120			120	73			2.6
-135			135	88			2.7
-165			165	113			2.7
-MEGA10N- 90	1.5 - 10	30	90	43	38 - 45	NBC10-□	2.6
-105			105	58	38 - 48		2.7
-120			120	73			2.7
-135			135	88			2.8
-165			165	113			3.0
-MEGA13N- 90 ※	2.5 - 13	35	90	43	55	NBC13-□	2.7
-105 ※			105	58	70		2.8
-120			120	73	44 - 63		2.9
-135			135	88			3.0
-165			165	118			3.2
-200			200	148			3.5
-MEGA16N- 90 ※	2.5 - 16	42	90	47	55	NBC16-□	2.8
-105 ※			105	58	70		2.9
-120			120	73	48 - 68		3.1
-135			135	88			3.2
-165			165	118			3.6
-200			200	151			4.0
-MEGA20N- 90 ※	2.5 - 20	46	90	47	55	NBC20-□	2.9
-105 ※			105	58	70		3.0
-120			120	73	51 - 68		3.2
-135			135	88			3.3
-165			165	118			3.8
-200			200	153			4.3
-MEGA25N-120 ※	15.5 - 25.4	60	120	78	85	NBC25-□	3.8
-165			165	123	64 - 74		4.6

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. C63

Standard Accessory

MEGA NUT

For Spares G10

Optional Accessories

MEGA NUT Flat Type

G10

Mega Wrench

G22

Collet

G4

MEGA PERFECT SEAL

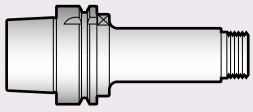
G11

Adjusting Screw

G10

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-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.

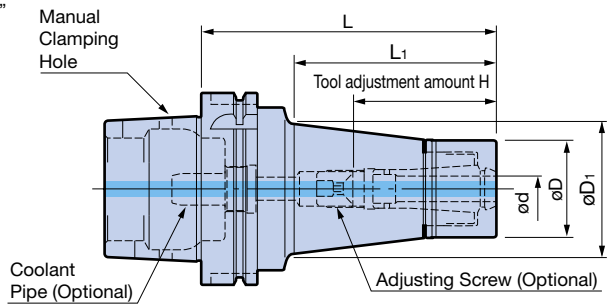
- Tapered body enhances damping effect by varying vibration frequency.
- Uses the MEGA E Collet designed for endmilling, delivering optimal clamping performance.

● Model Description

HSK-A40 - MEGA 6 E - 60

- 60: L dimension
- E: Abbreviation of "E CHUCK"
- 6: Maximum clamping diameter
- MEGA: MEGA CHUCK
- HSK-A40: HSK Shank Type

World's Original | Center through | Max. 35,000min^{-1}



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

Model	Clamping diameter ød	øD	øD1	L	L1	H	Collet Model	Weight (kg)
HSK-A40-MEGA 6E- 60 ※	3 - 6	25	26	60	24	41	MEC 6-□	0.39
- 75 ※			28.5	75	39	55		0.45
-MEGA 8E- 65 ※	3 - 8	30	34	65	30	44	MEC 8-□	0.46
- 75 ※			34	75	40	54		0.51
-MEGA10E- 70 ※	3 - 10	35	35	70	35	48	MEC10-□	0.52
- 90			35	90	55	48 - 52		0.67
-MEGA13E- 70 ※	3 - 12	42	42	70	35	50	MEC13-□	0.62
- 90 ※			42	90	55	67		0.81
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. When using, slowly ramp up to the appropriate speed starting from slow speeds.
6. Coolant pipe is not included. C63

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

Model	Clamping diameter ød	øD	øD1	L	L1	H	Collet Model	Weight (kg)
HSK-A100-MEGA 6E- 75 ※	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
-MEGA 8E- 75 ※	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
-MEGA 10E- 80 ※	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
-MEGA 13E- 82 ※	3 - 12	42	44.5	82	40	50	MEC13-□	2.8
- 90 ※			46	90	48			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. C63

Standard Accessory

MEGA E Nut

For Spares G13

Optional Accessories

Mega Wrench

G22

MEGA E Collet

G13

MEGA E PERFECT SEAL

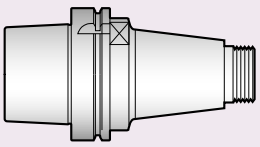
G14

Adjusting Screw

G13

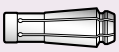
When ordering a MEGA E PERFECT SEAL, the "Nut-Less Body" without the standard nut attached is also available.

● 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

MEGA DOUBLE POWER CHUCK PAT.

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

World's Original | Center through | MAX. 28,000min^{-1}

For Through Tools

[Standard Type]

● Model Description

HSK-A40 - MEGA 16 D - 80

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

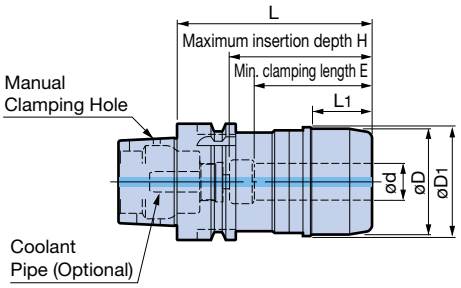


Fig. 1

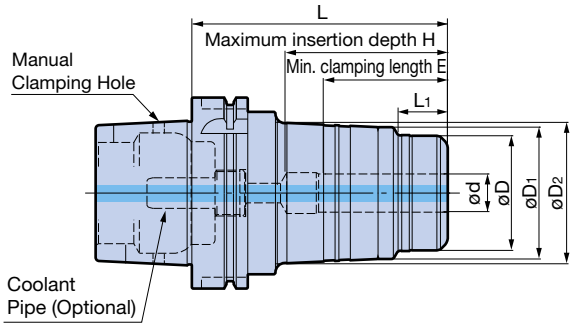


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	øD2	L	L1	H	E	Mega Wrench	Weight (kg)
HSK-A 40-MEGA16D- 80	1	16	46	—	—	80	25	62	50	MGR46L	0.75
HSK-A 50-MEGA16D- 85	1	16	46	—	—	85	25	62	50	MGR46L	1.0
-MEGA20D- 85 ※		20	50			86	30	63	51	MGR50L	1.1
HSK-A 63-MEGA16D- 80A	2	16	42	53	—	80	25	55	50	MGR42L	1.3
- 90A						90		65	55		1.5
-105A						105		71			1.8
-135A ○						135					2.3
-165A ○						165					2.8
-MEGA20D- 90A	2	20	50	55	—	90	34	65	56	MGR50L	1.6
-105A						105		80			1.5
-120A						120		85			2.1
-135A						135					2.4
-165A △						165					3.0
-MEGA25D-100A	1	25	62	63	—	100	39	75	57	MGR62L	2.0
-135A △						135		80			2.8
-MEGA32D-105A		32	70	71	—	105	33	80	64	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. However, please contact us if using for center through applications.
4. ※ HSK-A50-MEGA20D-85 cannot be used with the adjustable straight collet model AC.
5. 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. ☞ C63

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

Model	Fig.	Clamping diameter ød	øD	øD1	øD2	L	L1	H	E	Mega Wrench	Weight (kg)
HSK-A100-MEGA16D-105	2	16	46	55	63	105	23	71	50	MGR46L	3.5
-135 ○						135					4.1
-165 ○						165					4.7
-MEGA20D-105	2	20	60	69	74	105	25	73	56	MGR60L	4.1
-135						135		85			5.0
-165 △						165					5.9
-MEGA25D-105	2	25	70	77	85	105	32	73	65	MGR70L	4.5
-135						135		90			5.6
-165 △						165					6.8
-MEGA32D-115	2	32	80	86	—	115	39	83	71	MGR80L	5.0
-135						135		103			5.8
-165						165		105			7.1
-MEGA42D-115	1	42	99	100	—	115	40	83	78	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. 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. Coolant pipe is not included. ☞C63

Optional Accessories

Straight Collet

☞G19

Mega Wrench

☞G22

Axial Adjusting Screw

☞G21

MEGA DOUBLE POWER CHUCK PAT.

Clamping diameter: ø16 - ø42

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

World's Original | Center through | MAX. 28,000min^{-1}

For Jet Through

[Jet Through Type]

● Model Description

HSK-A40 - MEGA 16 DS - 80

- HSK-A40: HSK Shank Type
- MEGA: MEGA CHUCK
- 16: Clamping diameter
- DS: Jet through DOUBLE CHUCK
- 80

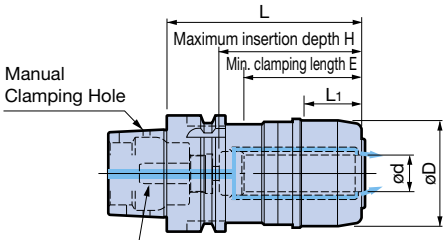


Fig. 1

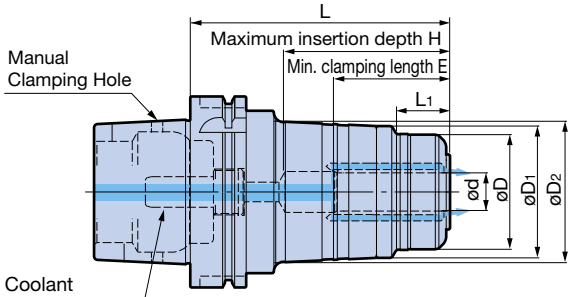


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	øD2	L	L1	H	E	Mega Wrench	Weight (kg)
HSK-A 40-MEGA16DS- 80	1	16	46	—	—	82.5	28	64	52	MGR46L	0.75
HSK-A 50-MEGA16DS- 85	1	16	46	—	—	87.5	28	64	52	MGR46L	1.0
-MEGA20DS- 85	1	20	50	—	—	88.5	33	65	53	MGR50L	1.1
HSK-A 63-MEGA16DS- 80A	2	16	42	53	—	82	27	57	52	MGR42L	1.3
-MEGA20DS- 90A	2	20	50	55	—	92	36	67	58	MGR50L	1.6
-120A	2	20	50	55	—	122	36	87	58	MGR50L	2.1
-MEGA25DS-100A	1	25	62	—	—	102	41	77	59	MGR62L	2.0
-MEGA32DS-105A	1	32	70	—	—	107.5	35	82	66	MGR70L	2.2
HSK-A100-MEGA16DS-105	2	16	46	55	63	107.5	26	73	52	MGR46L	3.5
-135 ○	2	16	46	55	63	137.5	26	73	52	MGR46L	4.1
-MEGA20DS-105	2	20	60	69	74	107.5	28	75	58	MGR60L	4.1
-135	2	20	60	69	74	137.5	28	87	58	MGR60L	5.0
-165 △	2	20	60	69	74	167.5	28	87	58	MGR60L	5.9
-MEGA25DS-105	2	25	70	77	85	107.5	34	75	67	MGR70L	4.5
-135	2	25	70	77	85	137.5	34	92	67	MGR70L	5.6
-165 △	2	25	70	77	85	167.5	34	92	67	MGR70L	6.8
-MEGA32DS-115	2	32	80	86	—	117.5	42	85	73	MGR80L	5.0
-135	2	32	80	86	—	137.5	42	105	73	MGR80L	5.8
-165	2	32	80	86	—	167.5	42	107	73	MGR80L	7.1
-MEGA42DS-115	1	42	99	—	—	117	42	85	80	MGR99L	5.5

1. Wrench is not included. Please order separately.
2. Center through coolant supply is available.
3. **DS types have jet-through coolant supply, thus tools with oil holes cannot be used.**
4. Models with △ indication can be used with optional axial adjusting screws. Models with ○ indication require the hex socket head screw (M8) for axial adjustment. However, please contact us if using for center through applications.
5. 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. ☞ C63

Optional Accessories

Straight Collet	Mega Wrench	Axial Adjusting Screw
 ☞ G19	 ☞ G22	 ☞ G21

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.P]

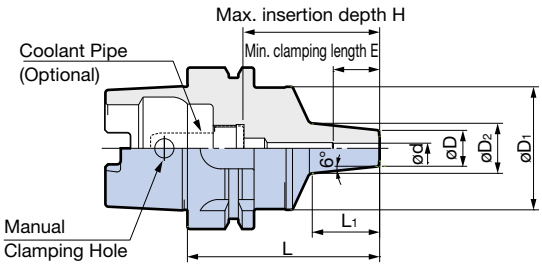


Fig. 1

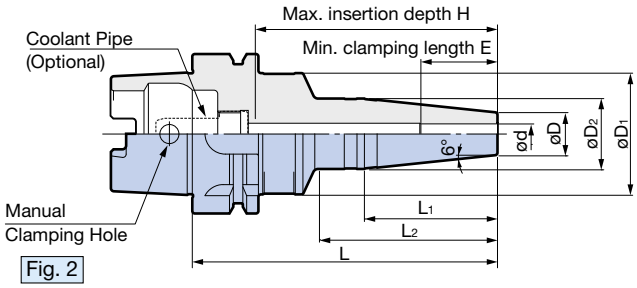


Fig. 2

● Model Description

HSK-A40 - HDC 4 S - 65
- 65: L dimension
- S: SUPER SLIM Type
- 4: Clamping diameter
- HDC: HYDRAULIC CHUCK
- HSK-A40: HSK Shank Type

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

Model	Fig.	Clamping diameter ød	øD	øD1	øD2	L	L1	L2	H	E	Weight (kg)
HSK-A40-HDC 4S- 65	1	4	14	33	21	65	28	—	49	19	0.33
HSK-A50-HDC 4S- 75	1	4	14	40	21	75	31	—	55	19	0.8
HSK-A63-HDC 3S- 90	1	3	14	48	24	90	43	—	68	16	1.1
-HDC 4S- 75		4			20	75	26		53	19	1.0
-120	2				26	120	57	72	98		1.1
-HDC 6S-120		6						70	98	25	
-150						150		85	128		1.3
-HDC 8S-120		8	17		28	120	52	70	95	31	1.2
-150						150		85	125		1.3
-HDC10S-120		10	19		30	120		70	94	33	1.2
-150						150		87	124		1.4
-HDC12S-120		12	21		32	120		70	93	36	1.2
-150						150		87	123		1.4

1. Adjusting Screw cannot be used.
2. Coolant pipe is not included. C63

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

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

Center through

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

[Jet Through Type PAT.P]

● Model Description

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

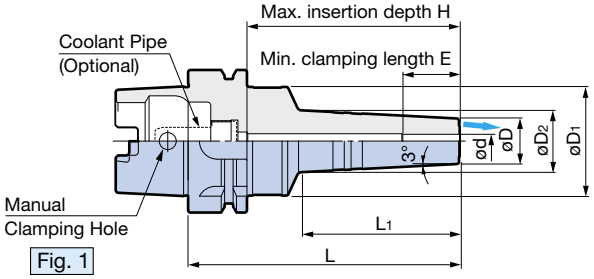


Fig. 1

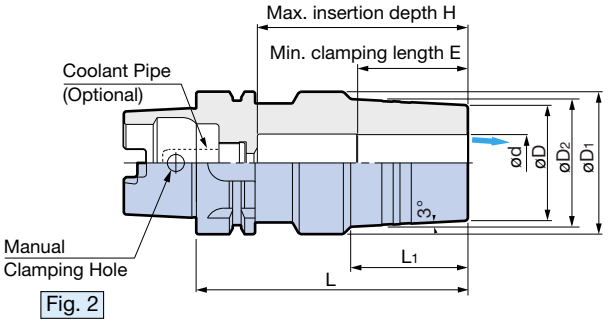


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	øD2	L	L1	H	E	Weight (kg)
HSK-A63-HDC 4J- 75	1	4	20	48	23	75	29	53	19	1.0
-HDC 6J-120		6			28	120	70	98	25	1.2
-HDC 8J-120		8	22		30			95	31	1.2
-HDC10J-120		10	24		32			94	33	1.3
-HDC12J-120		12	26		34			93	36	1.3
-HDC16J-120		16	34		43		76	92	43	1.5
-HDC20J-120		20	38					91		1.5
-HDC25J-120	2	25	51	63	57		50	93	49	2.1
-HDC32J-120		32	60	69	-		53		56	2.3

1. Adjusting Screw cannot be used.
2. Coolant pipe is not included. C63

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]

● Model Description

HSK-A40 - HDC 6 - 70
- 70: L dimension
- 6: Clamping diameter
- HDC: HYDRAULIC CHUCK
- HSK-A40: HSK Shank Type

Center through

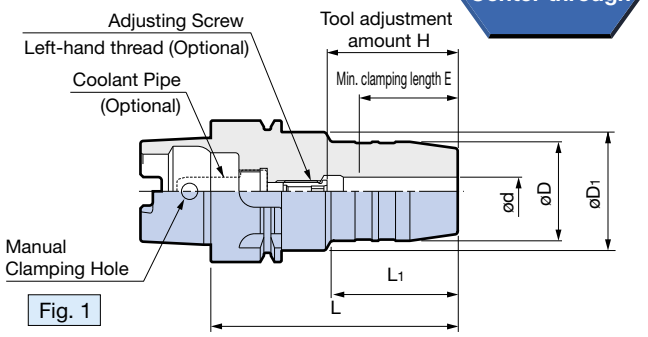


Fig. 1

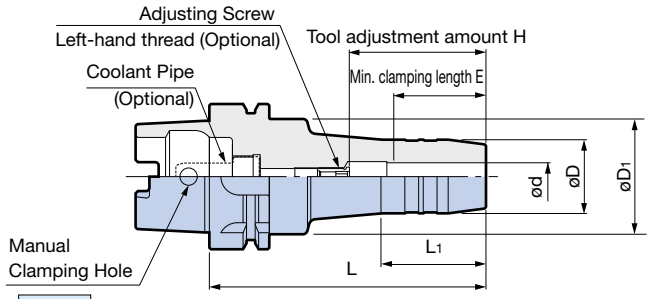


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	L	L1	H	E	Adjusting Screw (Optional)	Weight (kg)
HSK-A40-HDC 6- 70	1	6	26	34	70	36	28 - 36	28	HDA 6-05013	0.47
-HDC 8- 70		8	28						HDA 8-06013	0.48
-HDC10- 75		10	30		75	41	33 - 41	33		0.50
-HDC12- 80		12	32		80	46	38 - 45	38		0.55
HSK-A50-HDC 6- 75	1	6	26	42	75	32	28 - 37	28	HDA 6-05013	0.7
-HDC 8- 75		8	28						HDA 8-06013	0.7
-HDC10- 80		10	30		80	37	33 - 41	33	HDA10-08015	0.7
-HDC12- 85		12	32		85	42	38 - 46	38		0.8
-HDC16- 90 ▲		16	38		90	48	43 - 51	43		0.9
-HDC20- 90 ▲		20	42	—		64				0.9
-HDC25- 90 ※▲		25	55	63		23	62	52	—	1.3
HSK-A63-HDC 6- 70 ※	2	6	26	50	70	24	46	28	—	1.0
-120					120	44	28 - 48		HDA 6-05032	1.2
-150					150					1.4
-HDC 7-120		7	27		120					1.3
-HDC 8- 70 ※		8	28		70	24	46		-	1.0
-120					120	44	28 - 48		HDA 8-06032	1.3
-150					150					1.5
-HDC 9-120		9	29		120					1.3
-HDC10- 80 ※		10	30		80	35	55	33	-	1.1
-120					120	45	33 - 53		HDA10-08032	1.3
-150					150					1.6
-HDC11-120		11	31		120					1.4
-HDC12- 85 ※		12	32		85	40	60	38	-	1.1
-120					120	45	38 - 58		HDA12-10025	1.4
-150					150					1.6

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. Models with ▲ indication cannot use a Straight Collet.
3. Coolant pipe is not included. C63
4. 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)

For HSK-A63-HDC13 and beyond, refer to the next page

For Straight Collets, G18

α Wiper Cleaner & TK Cleaner PAT. are recommended for cleaning the holder bore. H4

Caution

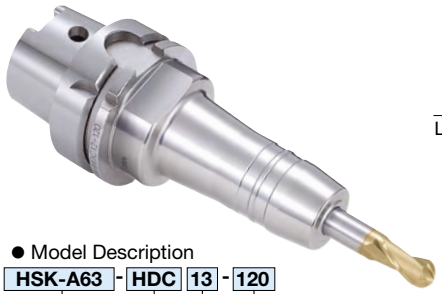
- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.
- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping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

HYDRAULIC CHUCK

Clamping diameter: ø6 - ø32

[Standard Type]

Center through



● Model Description

HSK-A63 - HDC 13 - 120

- 120: L dimension
- 13: Clamping diameter
- HDC: HYDRAULIC CHUCK
- HSK-A63: HSK Shank Type

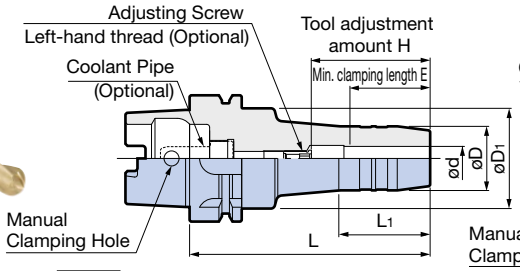


Fig. 1

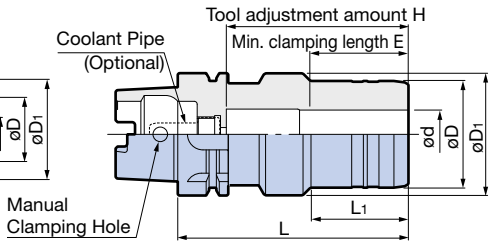


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	L	L1	H	E	Adjusting Screw (Optional)	Weight (kg)
HSK-A 63-HDC13-120	1	13	33	50	120	45	38 - 58	38	HDA12-10025	1.4
-HDC14- 85 ※		14	34		85	40	60		—	1.2
-120					120	45	38 - 58		HDA12-10025	1.4
-150					150					1.7
-HDC15-120		15	37		120		58 - 68	43	HDA16-12015	1.5
-HDC16- 90 ※		16	38		90	46	65	43	—	1.3
-120					120		58 - 68		HDA16-12015	1.5
-150					150		43 - 68		HDA16-12037	1.9
-HDC18- 90 ※		18	40		90	46	65		—	1.3
-120					120		58 - 68		HDA20-16015	1.6
-150					150		43 - 68		HDA25-16039	2.0
-HDC20- 90 ※		20	42		90	48	65		—	1.3
-120					120		58 - 68		HDA20-16015	1.6
-150					150		43 - 68		HDA25-16039	2.0
-HDC25-120 ※	2	25	55	63	120	51	95	52	—	2.1
-HDC32-125 ※		32	60	69	125	59	100	56		2.4
HSK-A100-HDC 6- 75 ※	1	6	26	50	75	26	46	28	—	2.4
-120					120	44	28 - 48		HDA 6-05032	2.6
-165					165					2.9
-HDC 8- 75 ※		8	28		75	26	46		—	2.4
-120					120	44	28 - 48		HDA 8-06032	2.6
-165					165					3.0
-HDC10- 90 ※		10	30		90	42	61	33	—	2.5
-120					120	45	33 - 53		HDA10-08032	2.7
-165					165					3.1
-HDC12- 95 ※		12	32		95	47	63	38	—	2.5
-120					120		38 - 58		HDA12-10025	2.7
-165					165				HDA12-10032	3.1
-HDC16-100 ※		16	38		100	53	68	43	—	2.6
-135					135		43 - 68		HDA16-12030	3.0
-165					165				HDA16-12037	3.3
-HDC20-105 ※		20	42		105	59	73		—	2.7
-135					135		58 - 68		HDA20-16015	3.1
-165					165		43 - 68		HDA25-16039	3.6
-HDC25-110 ※		25	55	63	110	62	78	52	—	3.3
-HDC32-110 ※		32	64	75				56		3.7

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. C63
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)

For Straight Collets, G18

α Wiper Cleaner & TK Cleaner PAT. are recommended for cleaning the holder bore. H4

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

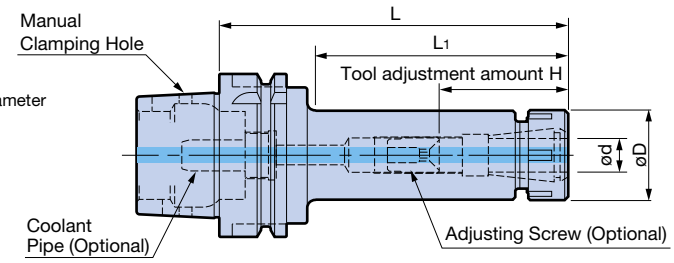
Center through

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

● Model Description

HSK-A63 - NBS 6 - 75

- 75: L dimension
- 6: Maximum clamping diameter
- NBS: NEW BABY CHUCK
- HSK-A63: HSK Shank Type



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

Model	Clamping diameter ød	øD	L	L1	Tool adjustment amount 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. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw (NBA).
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. Coolant pipe is not included. C63

Standard Accessory

New Baby Nut

For Spares G26

Optional Accessories

New Baby Wrench

G26

Collet

G4

BABY PERFECT SEAL

G24

Adjusting Screw

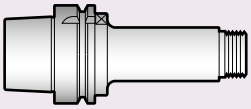
G10

Tap Adjusting Screw

G26

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-A63-NBS 6-75/NL
(NL at the end of the model number means nut not attached)

+

NBC Collet
NBC6-3AA

+

BABY PERFECT SEAL Model
BPS6-03035

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

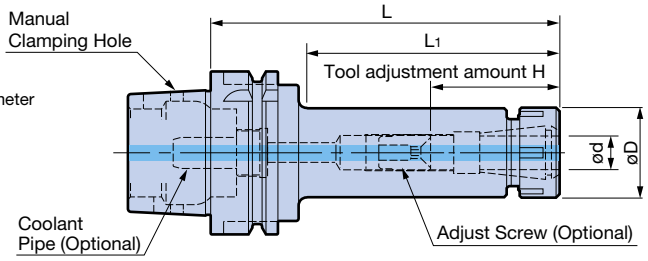
Center through

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

● Model Description

HSK-A100 - NBS 6 - 90

- 90: L dimension
- 6: Maximum clamping diameter
- NBS: NEW BABY CHUCK
- HSK-A100: HSK Shank Type



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

Model	Clamping diameter ød	øD	L	L1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-A100-NBS 6- 90	0.25 - 6	20	90	43	20 - 40	NBC 6-□	2.5
-120			120	68			2.5
-165			165	113			2.6
-NBS 8- 90	0.5 - 8	25	90	43	23 - 42	NBC 8-□	2.5
-120			120	73			2.6
-165			165	113			2.7
-NBS10- 90	1.5 - 10	30	90	43	35 - 45	NBC10-□	2.6
-120			120	73			2.7
-165			165	113			2.9
-NBS13- 90 ※	2.5 - 13	35	90	43	58	NBC13-□	2.7
-120			120	73	41 - 60		2.9
-165			165	113			3.2
-200			200	148			3.4
-NBS16- 90 ※	2.5 - 16	42	90	43	58	NBC16-□	2.8
-120			120	73	45 - 65		3.1
-165			165	118			3.5
-200			200	151			3.9
-NBS20- 90 ※	2.5 - 20	46	90	47	56	NBC20-□	2.9
-120			120	73	48 - 65		3.3
-165			165	118			3.8
-200			200	153			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 (NBA).
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. Coolant pipe is not included. C63

Standard Accessory

New Baby Nut

For Spares G26

Optional Accessories

New Baby Wrench

G26

Collet

G4

BABY PERFECT SEAL

G24

Adjusting Screw

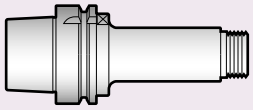
G10

Tap Adjusting Screw

G26

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

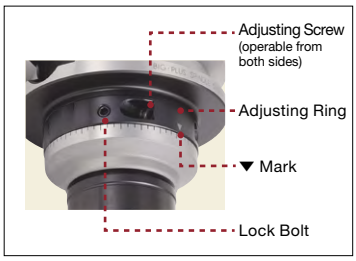
+

BABY PERFECT SEAL Model
BPS6-03035

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

Center through

Tool edge runout Within 2μm



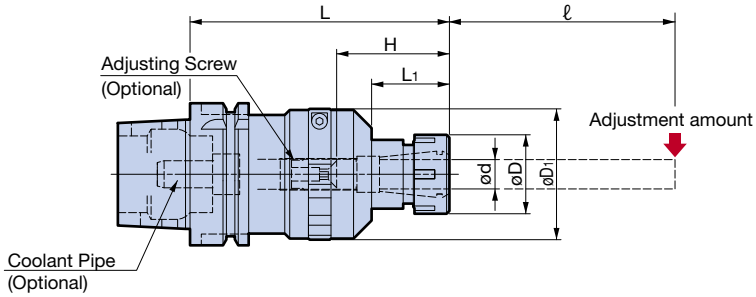
Simple structure allows for easy adjustment of runout accuracy!

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

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



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

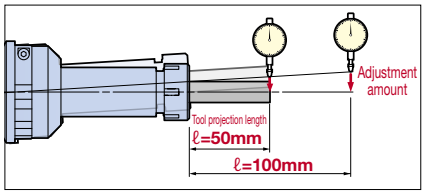
ℓ= Tool projection length

Model	ød	øD	øD1	L	L1	H	Collet Model	Adjustment amount ℓ=50mm	Adjustment amount ℓ=100mm	Weight (kg)
HSK-A63-NBS 8-105NRA	0.5 - 8	25	45	105	43	23 - 42	NBC 8-□	23 μm	34 μ m	1.2
-NBS13-115NRA	2.5 - 13	35	58	115	34.5	41 - 60	NBC13-□	18 μm	27 μ m	1.8
-NBS20-135NRA	2.5 - 20	46	70	135	45	48 - 65	NBC20-□	17 μm	25 μ m	2.4

1. Nut is included, but collet, wrench, and Adjusting Screw are not.
2. "H" indicates the adjustment length with an Adjusting Screw (NBA).
3. Coolant pipe is not included. C63

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 (Optional accessory)	Allowable Torque (N·m)
NBS 8-NRA	CK-T2.5	3
NBS13-NRA	CK-T3	6
NBS20-NRA		

Standard Accessory

New Baby Nut

For Spares G26

Optional Accessories

New Baby Wrench

G26

Collet

G4

BABY PERFECT SEAL

G24

Adjusting Screw

G10

NEW Hi-POWER MILLING CHUCK

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

Center through

[S Type] Clamping diameter: ø20 - ø42

● Model Description

HSK-A40 - HMC 20 - S 85
- HSK Shank Type
- NEW Hi- POWER MILLING CHUCK
- Chuck bore
- S Type
- L dimension

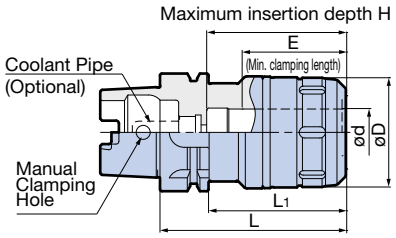


Fig. 1

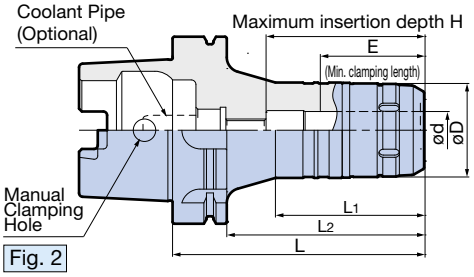


Fig. 2

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

Model	Fig.	ød	øD	L	L_1	L_2	H	E	Wrench	Weight (kg)
HSK-A 40-HMC20S- 85	1	20	50	85	65	—	66	56	FK45-50L	0.9
HSK-A 50-HMC20S- 90	1	20	50	90	64	—	66	56	FK45-50L	1.2
HSK-A 63-HMC20S- 90	1	20	50	90	64	—	65	56	FK45-50L	1.5
-120 ○				120	94		85			1.9
-HMC25S-100	1	25	59	100	74	—	75	57	FK58-62L	1.9
-135 △				135	109		80			2.5
-HMC32S-110	1	32	68	110	84	—	85	64	FK68-75L	2.3
-135 ○				135	109		90			2.6
-165 △				165	139					3.2
HSK-A100-HMC20S-105	1	20	50	105	76	—	73	56	FK45-50L	3.0
-135 □	2			135	80	106	85			3.5
-165 △				165	100	136				4.1
-HMC25S-105	1	25	59	105	76	—	73	57	FK58-62L	3.3
-135 □				135	106		90			3.9
-165 △	2			165	105	136				4.8
-HMC32S-115	1	32	68	115	86	—	83	72	FK68-75L	3.9
-135				135	106		103			4.4
-165 □	2			165	105	136	105			5.4
-200 △				200	130	171				6.4
-300 △				300	200	271				9.3
-HMC42S-115	1	42	85	115	86	—	83	73	FK80-90L	4.9
-135				135	106		103			5.5
-165 □				165	136		107			6.8

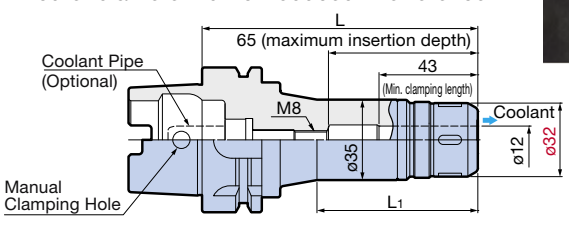
1. Wrench is not included. Please order separately.
2. Center through coolant supply is available.
3. Models with △ indication can be used with optional axial adjusting screws. Models with ○ indication require the hex socket head screw (M8) for axial adjustment.
   Models with □ indication require the hex socket head screw (M12) for axial adjustment.
   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. Coolant pipe is not included. C63

Optional Accessories

Straight Collet	Wrench	Mega Wrench	Axial Adjusting Screw
			
G18	G21	G22	G21

[HMC12J Type] Clamping diameter: ø12

●A slim yet highly rigid milling chuck with ø32 outer diameter nut for reduced interference.



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

Center through

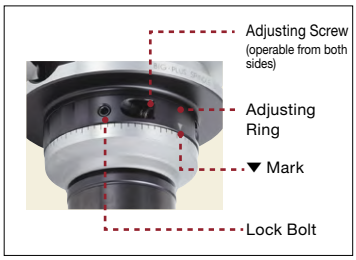
A Type (DIN 69893-1) (ISO 12164)

Model	L	L_1	Wrench	Weight (kg)
HSK-A63-HMC12J- 90	90	52	FK31-33	1.1
- 120	120	70		1.4

1. Wrench is not included. Please order separately.
2. Coolant pipe is not included. C63

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

Center through



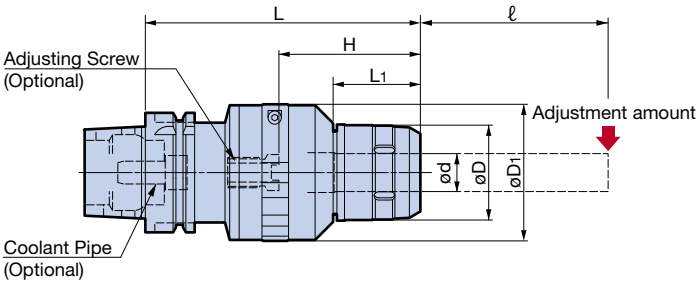
Simple structure allows for easy adjustment of runout accuracy!

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 - HMC 20 S - 145 NRA

- NRA: Runout Adjustable Type
- 145: L dimension
- S: S Type
- 20: Chuck bore
- HMC: NEW Hi- POWER MILLING CHUCK
- HSK-A63: HSK Shank Type



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

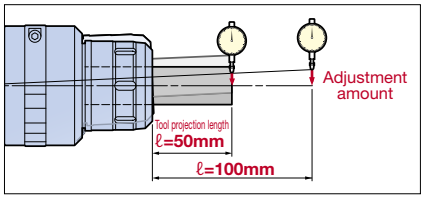
ℓ= Tool projection length

Model	ød	øD	øD1	L	L1	H	H max.	Min. clamping length	Adjustment amount ℓ=50mm	Adjustment amount ℓ=100mm	Wrench	Weight (kg)
HSK-A63-HMC20S-145NRA	20	50	72	145	46	69 - 79	85	45	23 μ m	33 μ m	FK45-50L	2.9
-HMC32S-155NRA ※	32	68	86	155	55	—	120	53	20 μ m	28 μ m	FK68-75L	3.9

1. Wrench and axial adjusting screw are not included.
2. "H" indicates the adjustment length 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 is not included. ☞ C63

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 Hi- POWER MILLING CHUCK Type	Wrench (Optional accessory)	Allowable torque (N·m)
HMC20S-NRA	CK-T4	8
HMC32S-NRA		

Optional Accessories

Straight Collet	Wrench	Mega Wrench	Axial Adjusting Screw
			
☞ G18	☞ G21	☞ G22	☞ G21

MEGA PERFECT GRIP PAT.P

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

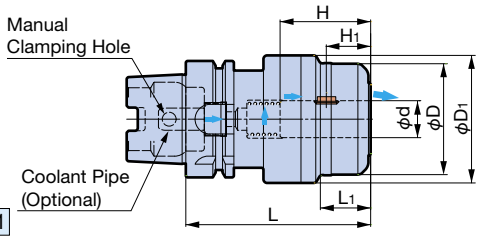


Fig. 1

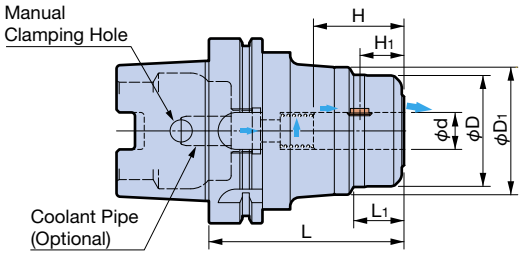


Fig. 2

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

Model	Fig.	ød	øD	øD1	L	L1	H	H1	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	105	33	55	23	MGR70L	4.5
-MEGA32DPG-115		32	80	86	115	41	59	23	MGR80L	5.0

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. C63

※ Key Grips are consumable products. Do not use a damaged Key Grip.

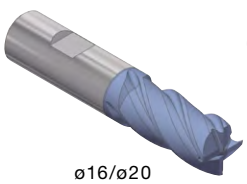
Standard ACCESSORIES

Chuck Size	Key Grip (2 pcs)	Spring
ø16	**PKG16-2P**	**PSP1519**
ø20	**PKG20-2P**	**PSP1823**
ø25	**PKG25-2P**	**PSP2420**
ø32	**PKG32-2P**	**PSP3128**

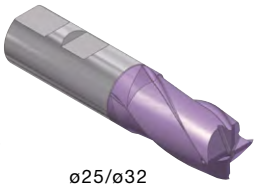
1. Key Grips are sold as 2-piece sets.

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

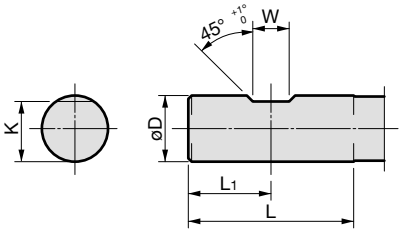
The following standard shank is required for MEGA Perfect GRIP.



ø16/ø20



ø25/ø32



øD Nominal	øD Tolerance	L	L1	W Nominal	W Tolerance	K Nominal	K 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		56	32	12		23	
32	0 -0.016	60	36	14		30	

1. JIS Standards require sizes ø25 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.

CAUTION

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.

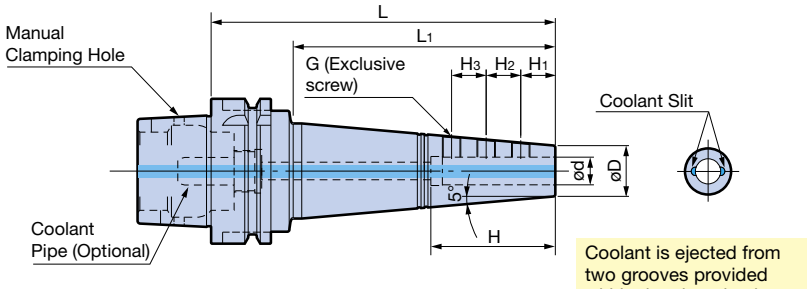
High performance side lock holder with slim design, high runout accuracy and high speed capability.
Runout accuracy of 5µm between cutting edges of 2-flute ball endmill.

Center through

● Model Description

HSK-A63 - SSL 3 - 135

- 135 : L dimension
- 3 : Clamping diameter
- SSL : MOLD CHUCK
- HSK-A63 : HSK Shank Type



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

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

Model	Clamping diameter ød	øD	L	L1	Tool clamping length H	H1	H2	H3	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			1.3
-SSL12-150	12	22		115	60		16	16	M 8	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	2.8
-SSL10-150	10	17				15	20			2.9
-SSL12-150	12	22			60		16	16	M 8	3.0
-200			200	161						3.7
-SSL16-150	16	26	150	110	65		20	22		3.3
-200			200	160						4.0
-SSL20-150	20	30	150	110	80		20	25		3.4
-200			200	160						4.2

1. Center through coolant supply is available.
2. ( ) indications in H dimension mean inner bore beyond the clamping bore of those models is larger than the chucking bore.
3. Ensure the tip of the ball endmill is in 90° phase to the clamping bolt when clamping.
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. ☞ C63
6. H dimensions in ( ) are reference length up to the Coolant Pipe.

● BIG original side lock screws must be used as they are made to an exclusive design and different from other screws on the market.

Exclusive Side Lock Screw (Standard Accessory)

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

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

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

Center through

[Slim Type]

● Model Description

HSK-A63 - SRC 6 S - 120
- 120: L dimension
- S: Slim Type
- 6: Clamping diameter
- SRC: SHRINK CHUCK
- HSK-A63: HSK Shank Type

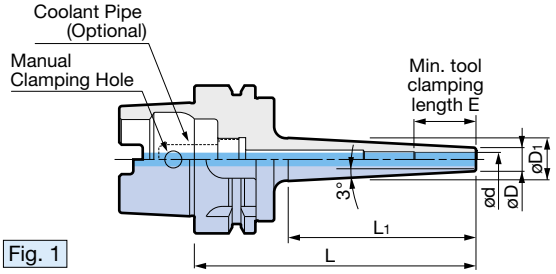


Fig. 1

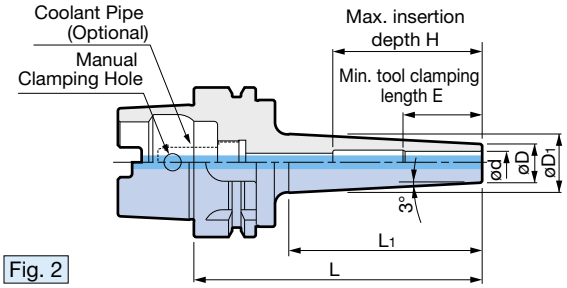


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	L	L1	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	2	8	13	22	120	81	(98)		1.0
-165				26	165	123	(143)		1.1
-SRC10S-120		10	16	25	120	81	62	32	1.0
-165				29	165	123			1.2
-SRC12S-120		12	19	28	120	81	72	36	1.0
-165				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. ☞ C63
4. H dimensions in ( ) are reference length up to the Coolant Pipe.

α Wiper Cleaner & TK Cleaner PAT. are recommended for cleaning the holder bore. ☞ H4

[Standard Type]

Center through

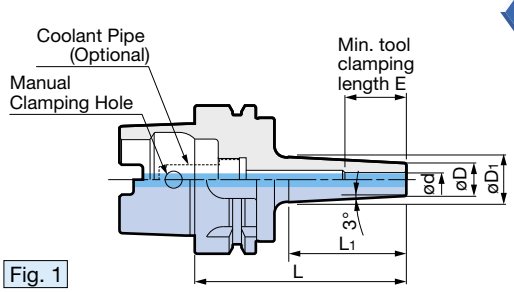


Fig. 1

● Model Description

HSK-A63 - SRC 4 - 90

- 90: L dimension
- 4: Clamping diameter
- SRC: SHRINK CHUCK
- HSK-A63: HSK Shank Type

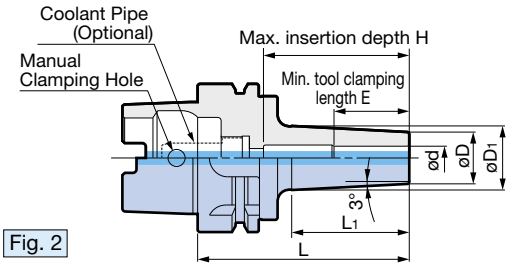


Fig. 2

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

Model	Fig.	Clamping diameter ød	øD	øD1	L	L1	H	E	Weight (kg)
HSK-A 63-SRC 4- 90 ※	2	4	10	15	90	46	(68)	16	0.9
-SRC 6- 90	1	6	14	20		51	(68)	26	0.9
-150				26	150	108	(128)		1.1
-SRC 8- 90	2	8	18	24	90	51	(68)		1.0
-150				30	150	110	(128)		1.2
-SRC10- 90		10	22	28	90	51	62	32	1.0
-150				34	150	111			1.3
-SRC12- 90		12	24	30	90	51	65	36	1.0
-150				36	150	112	72		1.4
-SRC16- 90		16	28	34	90	51	65	38	1.1
-165				41	165	119	80		1.8
-SRC20- 90		20	34	40	90	53	65	42	1.2
-165				47	165	122	100		1.9

1. Use a carbide shank cutter within a tolerance of h6.
   For ※ models, use a carbide shank with a tolerance within h5.
2. Center through coolant supply is available with tools with oil holes.
3. Coolant pipe is not included. C63
4. H dimensions in ( ) are reference length up to the Coolant Pipe.

α Wiper Cleaner & TK Cleaner PAT. are recommended for cleaning the holder bore. H4

CK BORING SYSTEM

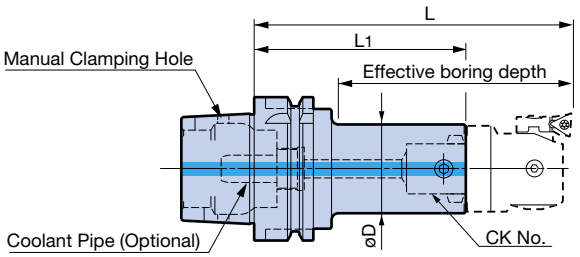
BIG DAISHOWA + KAISER Boring System with a high reputation for many years.
Basic holder for the high precision rough and finish boring head series.

Center through

● Model Description

HSK-A40 - CK1 - 73

- 73: HSK Shank Type
- CK1: CK No.



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

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

Model	CK No.	øD	L	L1	A	Weight (kg)
HSK-A 40-CK1- 73	CK1	19	105	72.5	73	0.38
-CK2- 85	CK2	24	120	84.5	89	0.41
-CK3- 80	CK3	31	120	80	92	0.48
-CK4- 73	CK4	39	120	73	—	0.57
HSK-A 50-CK1- 73	CK1	19	105	72.5	65	0.5
-CK2- 85	CK2	24	117	84.5	80	0.6
-CK3- 80	CK3	31	120	80	82	0.7
-CK4- 73	CK4	39		73	76	0.8
-CK5- 83	CK5	50	140	83	—	1.0
HSK-A 63-CK1- 78	CK1	19	110	77.5	73	0.9
-CK2- 90	CK2	24	125	89.5	88	1.0
-CK3-100	CK3	31	140	100	103	1.1
-130			170	130	133	1.3
-CK4- 93	CK4	39	140	93	103	1.2
-123			170	123	133	1.5
-CK5- 83	CK5	50	140	83	105	1.3
-113			170	113	135	1.8
-CK6- 79	CK6	64	150	79	—	1.5
-109			180	109		2.3
HSK-A100-CK1-103	CK1	19	135	102.5	73	2.5
-CK2-115	CK2	24	150	114.5	107	2.6
-CK3-125	CK3	31	165	125	122	2.8
-CK4-118	CK4	39	165	118	122	3.0
-178			225	178	182	3.5
-CK5-108	CK5	50	165	108	122	3.3
-183			240	183	197	4.4
-228			285	228	242	5.0
-CK6- 94	CK6	64	165	94	122	3.4
-169			240	169	197	5.3
-229			300	229	257	6.7
-CK7-123	CK7	90	210	123	181	5.8
-213			300	213	271	10.2
-273			360	273	331	13.2

1. Center through coolant supply is available.
2. Coolant pipe is not included. C63
3. The L and A diameters in the table are the reference values when EWN BORING HEAD is attached.
4. 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.

For boring heads, refer to the Roughing and Finishing pages.

Built-in Damper SMART DAMPER PAT.

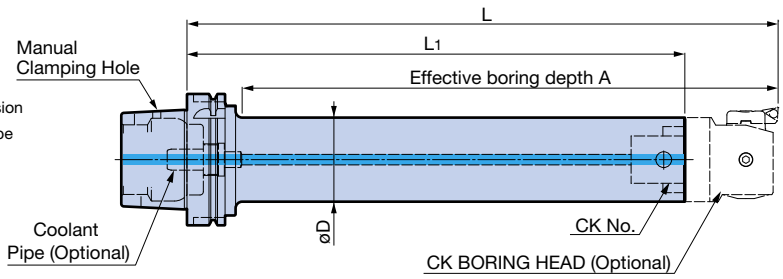
Center through

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

● Model Description

HSK-A100 - CK4 DP - 241

- 241: L1 dimension
- DP: Built-in Damper Type
- CK4: CK No.
- HSK-A100: HSK Shank Type



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

Model	CK No.	øD	L	L1	A	Weight (kg)
HSK-A100-CK4DP-241	CK4	39	288	241	246	4.3
-CK5DP-303	CK5	50	360	303	318	6.5
-CK6DP-379	CK6	64	450	379	408	11.2

1. The L and A dimensions in the table are the reference values when EWN BORING HEAD is attached.
2. Cutting edges and drive keys are aligned with boring heads mounted.
3. Head and inserts are not included.
4. Extension should not be used due to possible chatter.
5. Coolant pipe is not included. C63

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, A50

Standard CK Shanks can be used, allowing flexible tool layout

SMART DAMPER
Extension

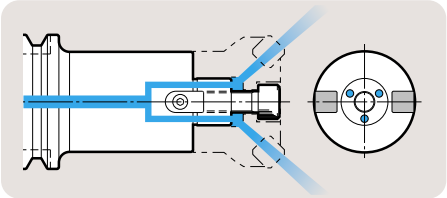
For details, A74

FACE MILL ARBOR TYPE FMH

● 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 - FMH 22 - 47 - 60

- 60: L dimension
- 47: Body diameter
- 22: Spigot diameter
- FMH: FACE MILL ARBOR TYPE FMH
- HSK-A50: HSK SHANK No.

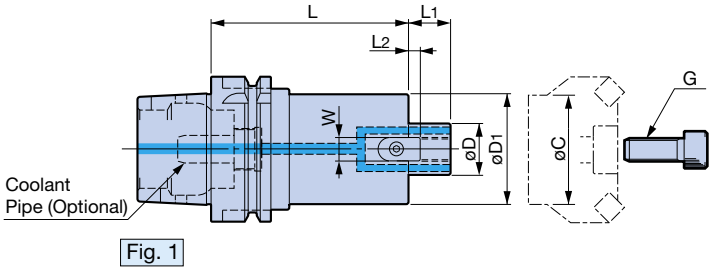


Fig. 1

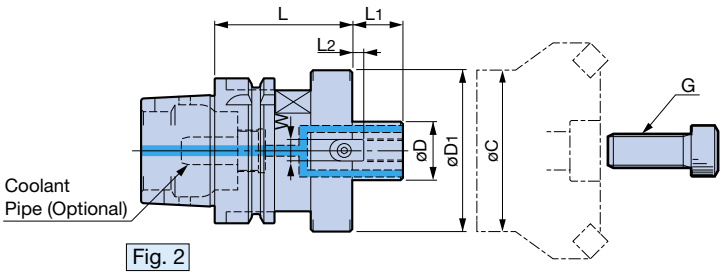


Fig. 2

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

Model	Fig.	øD (h6)	øD1	L	L1	Drive Key L2	Drive Key W	G	Weight (kg)	Min. flange diameter øC
HSK-A50-FMH22 -47- 60	2	22	47	60	18	5	10	M10	0.8	36
- 90				90					1.2	
-FMH27 -60- 60	2	27	60	60	20	6	12	M12	1.0	46
- 90				90					1.3	
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	2	25.4	70	60	22	5	9.5	M12	1.8	46
- 90				90					2.5	
-150				150					4.1	
-FMH31.75 -76- 60	2	31.75	76	60	30	7	12.7	M16	2.0	63
- 90				90					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	2	27	60	60	20	6	12	M12	1.6	46
- 90				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 provided clamping screw is not compatible, separately select one from the clamping screw table on C30.
3. When using a cutter without oil holes, an optional clamping screw with a through hole allows coolant supply.
4. Coolant pipe is not included. C63
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 the mounting diameter considerably smaller than the cutting diameter, as it may not fit.

FACE MILL ARBOR TYPE FMH

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

Model	Fig.	øD (h6)	øD1	L	L1	Drive Key L2	Drive Key W	G	Weight (kg)	Min. flange diameter øC
HSK-A100-FMH22.225- 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	
-FMH22 - 47-105	1	22	47	105	18	5	10	M10	3.4	36
-150				150					4.0	
-200				200					4.7	
-250				250					5.4	
-FMH22 - 60- 60	1	22	60	60	18	5	10	M10	2.9	49
-105				105					3.9	38
-150				150					5.4	
-200				200					6.1	
-250				250					7.2	
-FMH27 - 60- 60	1	27	60	60	20	6	12	M12	2.9	46
- 90				90					3.7	
-150				150					5.0	
-FMH27 - 76- 60	1	27	76	60	20	6	12	M12	3.2	48
- 90				90					4.3	62
-150				150					6.5	
-FMH32 - 96- 60	2	32	96	60	22	7	14	M16	3.8	58
- 90				90					5.5	80
-150				150					8.9	
-FMH40 -100- 75	2	40	100	75	26	8.5	16	M20 (MBA-M20H)	4.9	80
-105				105					6.8	

1. The weight does not include the cutter.
2. Cutter clamping screw is included.
   If the provided clamping screw is not compatible, separately select one from the clamping screw table on C30.
3. When using a cutter without oil holes, an optional clamping screw with a through hole allows coolant supply.
4. For the detailed dimensions of clamping screw MBA-M20H, see C30.
5. Coolant pipe is not included. C63
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.

FACE MILL ARBOR TYPE FMH

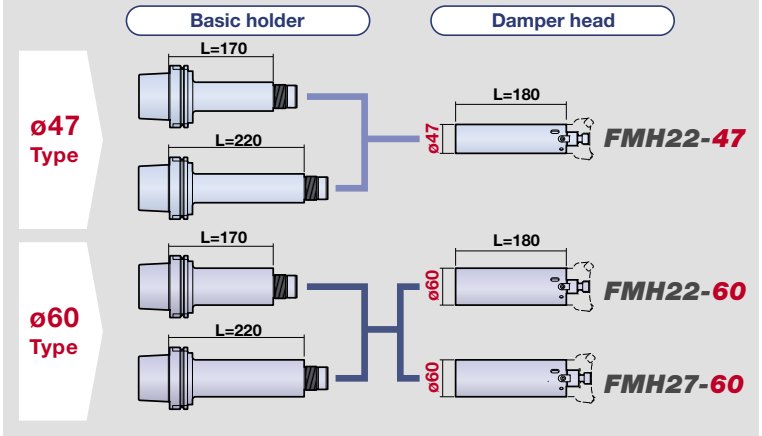
Built-in Damper SMART DAMPER

● Eliminates chatter in deep hole boring.

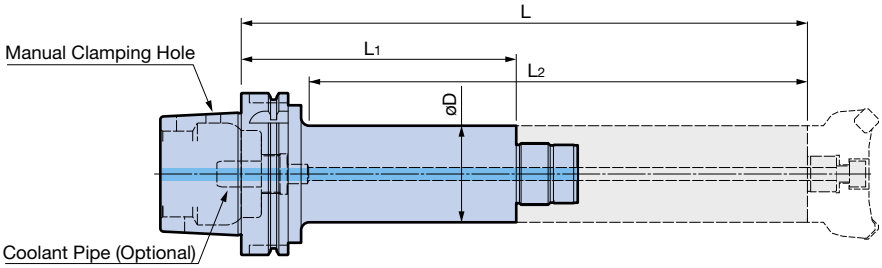
Center through

System layout diagram
(for HSK-100 Shank)

Basic holders of different lengths can be used with one damper head (for BBT/HSK Shank in common).



[Basic Holder]



● Model Description

HSK-A100 - SDF36 - 47 - 170

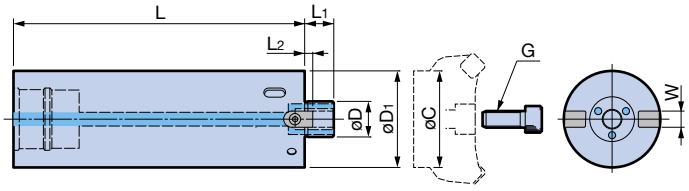
- 170: L1 dimension
- 47: Body diameter
- SDF36: Connection size
- HSK-A100: HSK Shank Type

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

Model	øD	L	L1	L2	Weight (kg)	Compatible Damper Head
HSK-A100-SDF36-47-170	47	350	170	310	4.4	FMH□□DP-47
-47-220		400	220	360	5.0	
-SDF36-60-170	60	350	170	310	5.5	FMH□□DP-60
-60-220		400	220	360	6.5	

1. Coolant pipe is not included. C63

[Damper Head]



● Model Description

SDF36 - FMH 22 DP - 47 - 180

- 180: L dimension
- 47: Body diameter
- DP: Built-In Damper Type
- 22: Spigot diameter
- FMH: FACE MILL ARBOR TYPE FMH
- SDF36: Connection size

Model	øD	øD1	L	L1	L2	W	G	Weight (kg)	Wrench Model	Min. flange diameter øC
SDF36-FMH22DP-47-180	22	47	180	18	5	10	M10	3.0	FK45-50L	36
-60-180	22	60	180	18	5	10	M10	4.5	FK58-62L	49
-FMH27DP-60-180	27	60	180	20	6	12	M12	4.5		46

1. Refer to the operation manual regarding the mounting method to the basic holder.
2. The weight does not include the cutter.
3. Hook wrench and cutter clamping screw are included.
4. If the provided clamping screw is not compatible, separately select one from the clamping screw table on 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 the mounting diameter considerably smaller than the cutting diameter, as it may not fit.

FACE MILL ARBOR TYPE A

● Model Description

HSK-A40 - FMA 25.4 - 50

- 50: L dimension
- 25.4: Spigot diameter
- FMA: FACE MILL ARBOR TYPE A
- HSK-A40: HSK Shank Type

Center through

Fig. 1

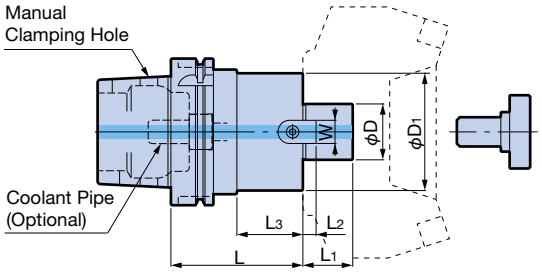


Fig. 2

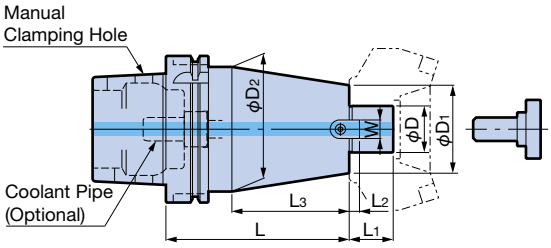
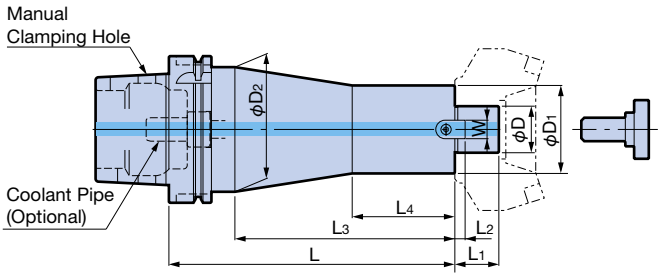


Fig. 3



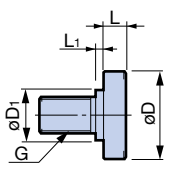
A Type (DIN 69893-1) (ISO 12164)

Model	Fig.	øD	øD1	øD2	L	L1	Drive Key L2	Drive Key L3	Drive Key L4	Drive Key W	Clamp Bolt	Weight (kg)
HSK-A 40-FMA25.4 - 50	1	25.4	50	—	50	22	5	15	—	9.5	MBA-M12	0.6
HSK-A 50-FMA25.4 - 60	1	25.4	50	—	60	22	5	14	—	9.5	MBA-M12	1.0
- 90					90							1.3
-FMA31.75- 60		31.75	60		60	30	7	13		12.7	MBA-M16	1.2
HSK-A 63-FMA25.4 - 60	1	25.4	50	—	60	22	5	18	—	9.5	MBA-M12	1.3
- 90					90			48				1.7
-FMA31.75- 60		31.75	60		60	30	7	18		12.7	MBA-M16	1.5
-FMA38.1 - 60		38.1	80		60	34	9			15.9	MBA-M20	2.3
HSK-A100-FMA25.4 -105	2	25.4	50	70	105	22	5	60	—	9.5	MBA-M12	4.5
-135				85	135			90				5.3
-195					195			150				7.1
-FMA31.75-105	3	31.75	60		105	30	7	60	20	12.7	MBA-M16	4.8
-135					135			90				5.6
-195					195			150	70			7.0
-FMA38.1 - 90	1	38.1	80	—	90	34	9	45	—	15.9	MBA-M20	4.9
-FMA50.8 - 75		50.8	100		75	36	10	25		19.05	MBA-M24	5.3

1. Clamping 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. C63

※ Sizes and arbor types other than the above are also available. Please contact us for details.

Clamping Screw



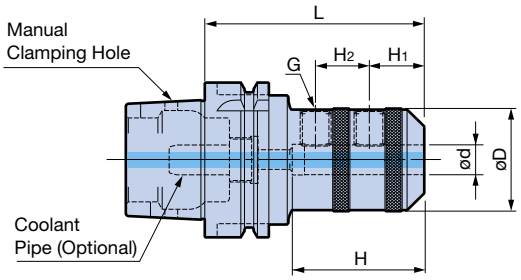
Clamping Screw	Clamping screw with oil hole					
Model	Model	øD	øD1	L	L1	G
MBA-M12	TMBA-M12	33	23	10	2	12
-M12H	—		—		—	
-M16	-M16	40	23	10	6	16
-M16H	—		—		—	
-M20	-M20	50	27	14	6	20
-M20H	—		—		—	
-M24	-M24	65	37		10	24

General Toolholder

SIDE LOCK ENDMILL HOLDER

Clamping diameter: ø20 - ø50

Center through



● Model Description

HSK-A63 - ISL 20 - 80

- 80: L dimension
- 20: Clamping diameter
- ISL: SIDE LOCK ENDMILL HOLDER
- HSK-A63: HSK Shank Type

A Type (DIN 69893-1) (ISO 12164) Endmill holder in accordance with ISO5414

Model	Clamping diameter ød	øD	L	H	H1	H2	G	Weight (kg)
HSK-A 63-ISL20- 80	20	52	80	54	25	—	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		28	M20	4.9
-165			165					6.3
-195			195					7.2
-ISL40-125	40	90	125	90	30	32		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. C63

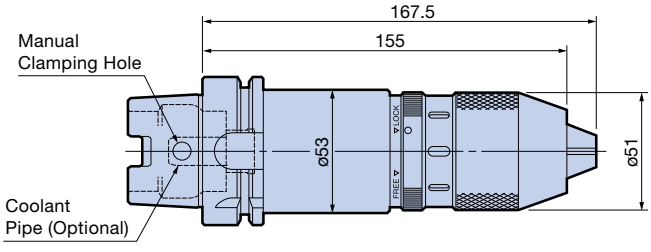
General Toolholder

SUPER KEYLESS CHUCK

Clamping diameter: ø0.5 - ø13

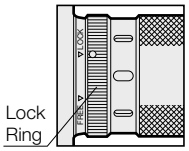
● Securely chucks the drill with simple operation.

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 (DIN 69893-1) (ISO 12164)

Model	Clamping diameter	Weight (kg)	Hook Wrench (Standard accessory)
HSK-A63-SKL13-155	ø0.5 - ø13	2.4	FS13LC

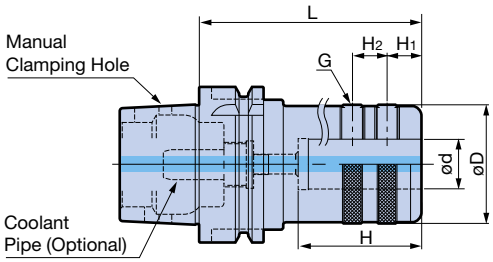
1. Hook wrench is included.
2. Coolant pipe is not included. C63
(Cannot be used with center through)

SIDE LOCK DRILL HOLDER

Center through

● Model Description

HSK-A63 - TSL 16 - 90
- 90: L dimension
- 16: Clamping diameter
- TSL: SIDE LOCK DRILL HOLDER
- HSK-A63: HSK Shank Type



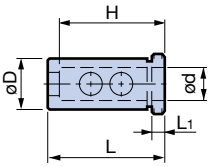
A Type (DIN 69893-1) (ISO 12164)

Model	Clamping diameter ød	øD	L	H	H1	H2	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	15	20	M16	1.4
-TSL32-105	32	63	105	60				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	15	20	M16	2.9
-TSL32-105	32	63	105	60				3.6
-TSL40-105	40	68		70		25		3.6
-TSL50-105	50	84						4.2

1. Center through coolant supply is available.
2. Coolant pipe is not included. C63

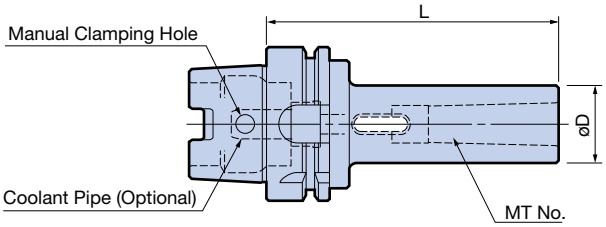
For Side Lock type

SL Sleeve



Model	ød	øD	L	L1	H
OSL25-16	16	25	62	5.5	48
-20	20				50
OSL32-20	20	32	66	5.5	50
-25	25				56
OSL40-25	25	40	76	5.5	56
-32	32				60

MORSE TAPER HOLDER TYPE A *(Tang Type)*



● Model Description

HSK-A63 - MTA 1 - 100
- 100: L dimension
- 1: MT. No.
- MTA: MORSE TAPER HOLDER TYPE A
- HSK-A63: HSK Shank Type

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

Model	MT No.	øD	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

1. Coolant pipe is not included. C63

MEGA SYNCHRO TAPPING HOLDER PAT.

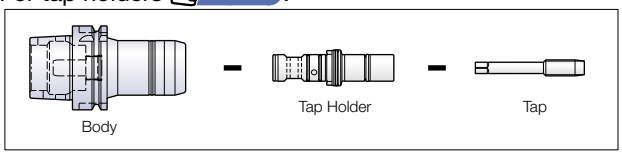
M2 - M20

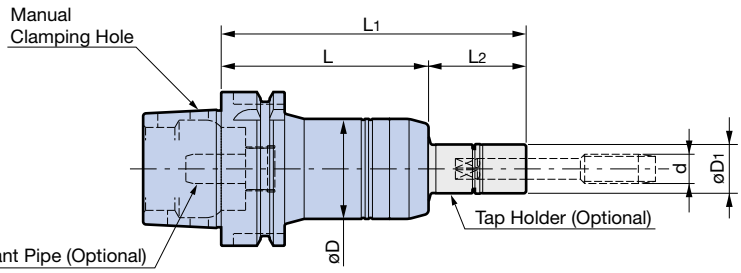
Improves thread quality and tap life by reducing thrust loads caused by synchronization errors up to 90%.

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

Center through

For tap holders A122.





● Model Description (Body)

HSK-A40 - MGT6 - 80

- 80: L dimension
- MGT6: MEGA SYNCHRO No.
- HSK-A40: HSK Shank Type

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

Model	Tap Holder Model	Tapping range d	øD	øD1	L	L1	L2	Body weight (kg)
HSK-A 40-MGT 6- 80	MGT 6-d- 30	M2 - M6 No.3 - U1/4	36	16	80	110	30	0.6
	- 70					150	70	
	-100					180	100	
-MGT12- 85	MGT12-d- 30	M6 - M12 U1/4 - U7/16 P1/8	41	20	85	115	30	0.7
	- 70					155	70	
	-100					185	100	
HSK-A 50-MGT 6- 85	MGT 6-d- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	0.8
	- 70					155	70	
	-100					185	100	
-MGT12- 85	MGT12-d- 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-d- 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-d- 30	M2 - M6 No.3 - U1/4	36	16	85	115	30	1.1
	- 70					155	70	
	-100					185	100	
-MGT12- 85	MGT12-d- 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-d- 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-d- 30	M2 - M6 No.3 - U1/4	36	16	95	125	30	2.6
	- 70					165	70	
	-100					195	100	
-MGT12- 95	MGT12-d- 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-d- 35	M12 - M20 U1/2 - U3/4 P1/4 - P3/8	54	30	115	150	35	3.3
	- 85					200	85	
	-115					230	115	

1. MGT Set Screw is included.
2. Tap holder and wrench are not included. Please order separately.
3. Coolant pipe is not included. C63

Cannot be used with machining center without synchronized tapping function.

For tap holders, A122
For Mega Wrench, A126

MEGA SYNCHRO TAPPING HOLDER PAT.

[Small Diameter Tap MGT3] M1 - M3

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

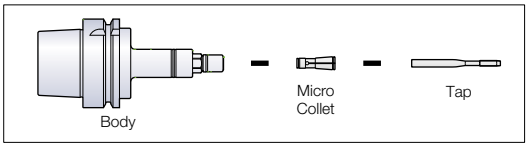
A Type (DIN 69893-1) (ISO 12164)

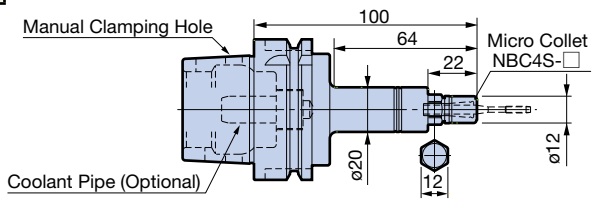
Model	Body weight (kg)
HSK-A63-MGT3-100	1.0

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.

· **Cannot be used with machining center without synchronized tapping function.**
· **Cannot be used with center through.**

For Mega Wrench and Collets, A129



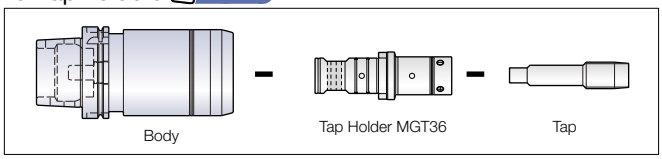


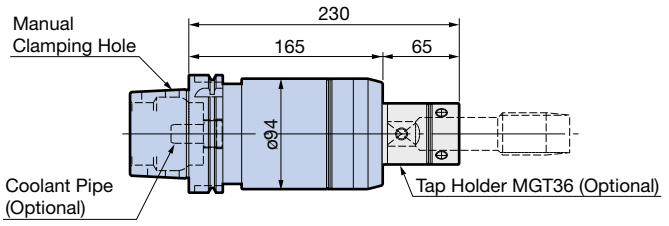
[Large Diameter Tap MGT36] M20 - M36

Center through

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.

For tap holders A128.





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

Model	Body weight (kg)
HSK-A100-MGT36-165	8.2

1. MGT Set Screw is included.
2. Tap holder and wrench are not included. Please order separately.
3. Coolant pipe is not included. C63

Cannot be used with machining center without synchronized tapping function.

For MGT36 accessories, A128

AUTO TAPPER B

M3 - M30

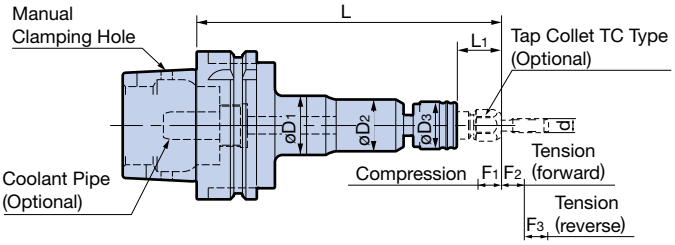
Simple and compact tapper with automatic depth control.

Automatic depth control

● Model Description

HSK-A100 - AUTO-B 80 - 160

- HSK-A100: HSK Shank Type
- AUTO-B: AUTO TAPPER B
- 80: Tapping range
- 160: L dimension



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

Model	Tapping range d	øD1	øD2	øD3	L	L1	F1	F2	F3	Weight (kg)	Applicable Tap Collet
HSK-A100-AUTO-B 80-160	M 3 - M8	35	30	25.5	160	17	5	5	10.5	2.9	TC 8-d
-AUTO-B120-190	M 3 - M12	40	35	32	190	30	6	6	12.5	3.1	TC12-d
-AUTO-B200-225	M 8 - M20	54	48	44	225	25	6.5	6.5	13	4.1	TC20-d
-AUTO-B300-255	M20 - M30	63	58	55	255	38	7.5	7.5	14.5	5.1	TC30-d

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. C63
5. F_2 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.

For Tap Collets, A135

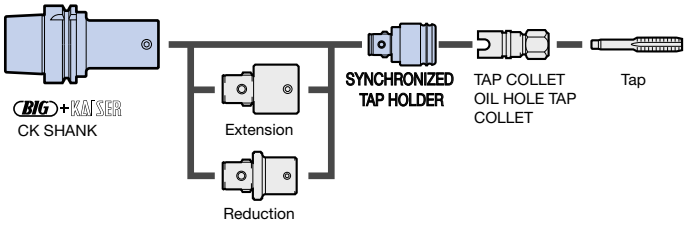
BIG DAISHOWA + KAISER

SYNCHRONIZED TAP HOLDER (STC) SET

Tapper for machining centers with synchronized tapping function.

Center through

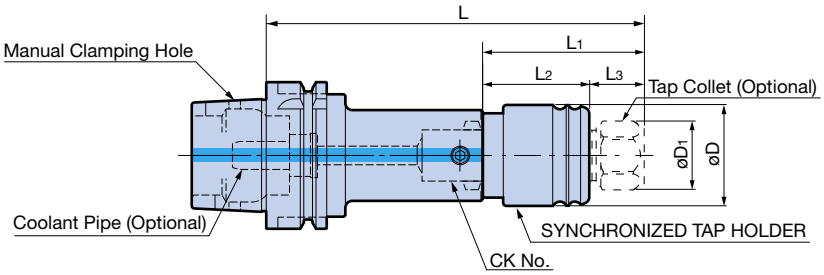
- Flexible tool layout in combination with the BIG DAISHOWA + KAISER CK Shanks.
- TC Collet with oil hole can be used to allow oil hole tapping.



● Model Description

HSK-A40 - CK2 - STC 8 - 85

- HSK-A40: HSK Shank Type
- CK2: CK No.
- STC: SYNCHRONIZED TAP HOLDER
- 8: Tapping range
- 85



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

Set Model	Tapping range	CK No.	øD	øD1	L	L1	L2	L3	Weight (kg)	Set Contents: CK Shank Model	Set Contents: Synchronized Tap Holder STC	Tap Collet
HSK-A 40-CK2-STC 8- 85	M 2 - M 4 / M 5 - M 8	2	25.5	15.8 / 19	132	47.5	30.5	17	0.51	HSK-A 40-CK2- 85	CK2-STC 8-47.5	TC 8-d
-CK3-STC12- 80	M 3 - M12	3	32	22	146	66	36	30	0.66	-CK3- 80	CK3-STC12-66	TC12-d
-CK4-STC20- 73	M 8 - M12 / M14 - M20	4	44	22 / 31	145	72	47	25	0.99	-CK4- 73	CK4-STC20-72	TC20-d
HSK-A 50-CK2-STC 8- 85	M 2 - M 4 / M 5 - M 8	2	25.5	15.8 / 19	132	47.5	30.5	17	0.7	HSK-A 50-CK2- 85	CK2-STC 8-47.5	TC 8-d
-CK3-STC12- 80	M 3 - M12	3	32	22	146	66	36	30	0.88	-CK3- 80	CK3-STC12-66	TC12-d
-CK4-STC20- 73	M 8 - M12 / M14 - M20	4	44	22 / 31	145	72	47	25	1.22	-CK4- 73	CK4-STC20-72	TC20-d
-CK5-STC30- 83	M20 - M30	5	55	41	175	92	54	38	1.72	-CK5- 83	CK5-STC30-92	TC30-d
HSK-A 63-CK2-STC 8- 90	M 2 - M 4 / M 5 - M 8	2	25.5	15.8 / 19	137	47.5	30.5	17	1.1	HSK-A 63-CK2- 90	CK2-STC 8-47.5	TC 8-d
-CK3-STC12-100	M 3 - M12	3	32	22	166	66	36	30	1.28	-CK3-100	CK3-STC12-66	TC12-d
-CK4-STC20- 93	M 8 - M12 / M14 - M20	4	44	22 / 31	165	72	47	25	1.62	-CK4- 93	CK4-STC20-72	TC20-d
-CK5-STC30- 83	M20 - M30	5	55	41	175	92	54	38	2.02	-CK5- 83	CK5-STC30-92	TC30-d
HSK-A100-CK2-STC 8-115	M 2 - M 4 / M 5 - M 8	2	25.5	15.8 / 19	162	47.5	30.5	17	2.7	HSK-A100-CK2-115	CK2-STC 8-47.5	TC 8-d
-CK3-STC12-125	M 3 - M12	3	32	22	191	66	36	30	2.98	-CK3-125	CK3-STC12-66	TC12-d
-CK4-STC20-118	M 8 - M12 / M14 - M20	4	44	22 / 31	190	72	47	25	3.42	-CK4-118	CK4-STC20-72	TC20-d
-178	M 8 - M12 / M14 - M20			22 / 31	250	72	47	25	3.92	-CK4-178	CK4-STC20-72	TC20-d
-CK5-STC30-108	M20 - M30	5	55	41	200	92	54	38	4.02	-CK5-108	CK5-STC30-92	TC30-d
-183	M20 - M30				275				5.12	-CK5-183		

1. Center through coolant supply is available.
2. Tap Collet TC Type must be ordered separately.
3. Cannot be used with machining center without synchronized tapping function.
4. The weight is the combination of the CK Shank and SYNCHRONIZED TAP HOLDER.
5. The L, L_1 and L_3 dimensions are 5mm longer with oil hole TC Collets.
6. Coolant pipe is not included. C63

∗ It will be shipped as a separate package.
(CK Shank, SYNCHRONIZED TAP HOLDER, Tap Collet)

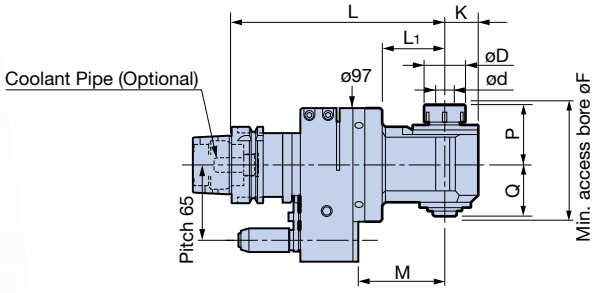
For Tap Collets, A135
For Oil Hole Tap Collet, A136
For SYNCHRONIZED TAP HOLDER STC, A130

<This set combination is only an example. For other combinations, please refer to the CK Shank table. C25>

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

Spindle angle 90°

NEW BABY CHUCK Type Clamping diameter: ø0.25 - ø20



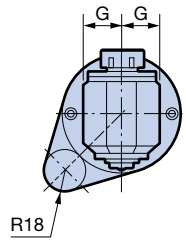


Fig. 1 **Max. 6,000min-1**

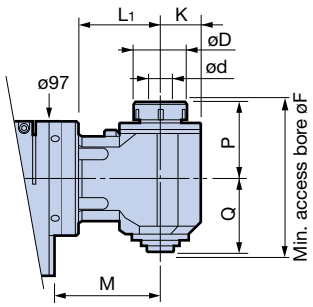


Fig. 2 **MAX. 3,000min-1**

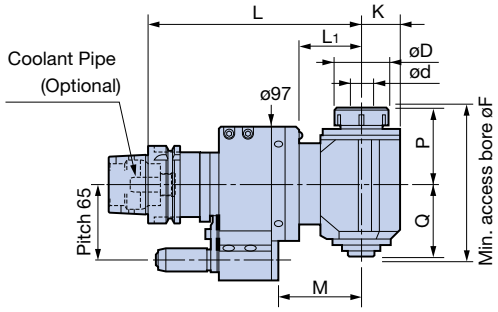


Fig. 3 Rigid Type **MAX. 3,000min-1**

● Model Description

HSK-A63 - **AG90** / **NBS** **6** - **185**

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

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

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

Model	Fig.	ød	øD	G	K	L	L1	M	P	Q	øF	Collet Model	Speed Ratio Input:output	Weight (kg) Standard	Weight (kg) 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 ☐	1	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 ☐	1	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 ☐	2	2.5 - 20	46	35	35	200	70	92	65	62	132	NBC20		6.6	7.5
-AG90/NBS20S -180 S	3	2.5 - 20	46	35	33	180	53	72	65	62	132	NBC20		—	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) C63

For Collets, G4
For Stop Blocks, G29

ANGLE HEAD AG90 SERIES

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

Spindle angle 90°

NEW BABY CHUCK Type Clamping diameter: ø0.25 - ø20

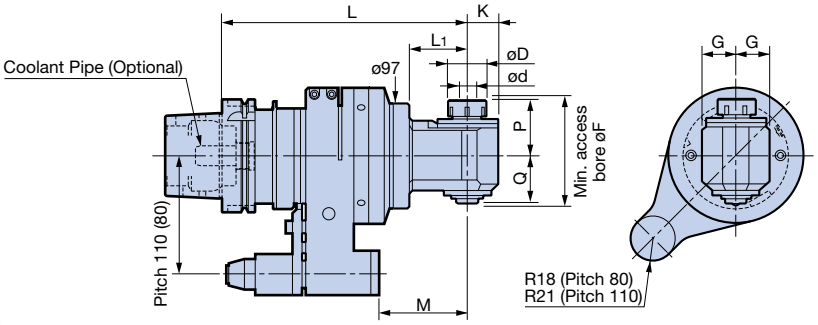


Fig. 1 **Max. 6,000min-1**

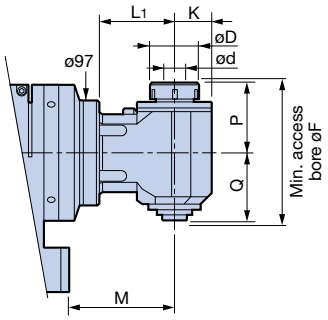


Fig. 2 **MAX. 3,000min-1**

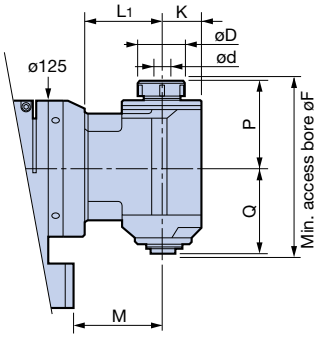


Fig. 3 Double-speed type **MAX. 8,000min-1**

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

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

Model	Fig.	ød	øD	G	K	L	L1	M	P	Q	øF	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□						255	85	112						12.0	13.3	12.6
-285□						285	115	142						12.2	13.5	12.8
-315□						315	145	172						12.4	13.7	13.0
-AG90/NBS10 -225□	1	1.5 - 10	30	30	25	225	55	82	45	43	91	NBC10		12.2	13.5	12.8
-255□						255	85	112						12.6	13.9	13.2
-285□						285	115	142						12.9	14.2	13.5
-AG90/NBS13 -225□	1	2.5 - 13	35	31	28	225	55	82	52	45	101	NBC13		12.3	13.6	12.9
-255□						255	85	112						12.7	14.0	13.3
-285□						285	115	142						13.0	14.3	13.6
-AG90/NBS20 -240□	2	2.5 - 20	46	35	35	240	70	97	65	62	132	NBC20		13.4	14.7	14.0
-AG90/NBS16H-225□	3	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) C63

For Collets, G4
For Stop Blocks, G29

● TWIN HEAD (180° diagonal) Clamping diameter: ø1.5 - ø10

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.

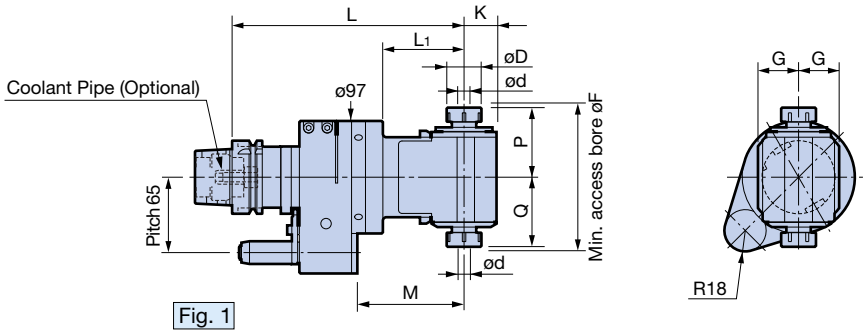


Fig. 1

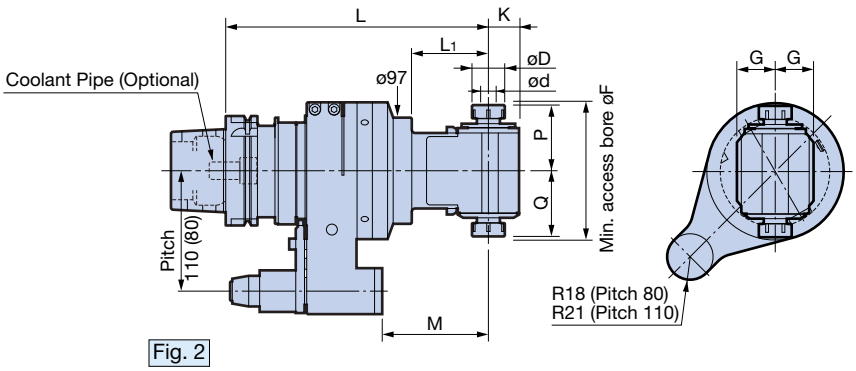


Fig. 2

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

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

Model	Fig.	ød	øD	G	K	L	L1	M	P	Q	øF	Collet Model	Speed ratio Input:output	Weight (kg)		
														Standard Type	High Rigidity Type	
HSK-A 63-AG90/NBS10W-200□	1	1.5 - 10	30	31	28	200	70	92	60	60	124	NBC10	1.1	6.2 (pitch 65)	7.1 (pitch 65)	
HSK-A100-AG90/NBS10W-240□	2	1.5 - 10	30	31	28	240	70	97	60	60	124	NBC10		13.0	14.3 (pitch 110)	13.6 (pitch 80)

1. **The cutting tool rotates in reverse to the machine spindle.**
2. Nut and wrench are included. Collet is not included.
3. Output spindles do not rotate in forward direction simultaneously.
4. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
5. New Baby Endmill Collets cannot be used.
6. A Stop Block is required when mounting on machines. Please order separately.
7. Automatic tool change may not be available depending on machine tool models.
8. When supplied through the Stop Block, coolant can be ejected from the housing.
9. Coolant pipe is not included. (Cannot be used with center through) C63

For Collets, G4
For Stop Blocks, G29

ANGLE HEAD AG90 SERIES

Compact type Clamping diameter: ø2.5 - ø13

Spindle angle 90°

For drilling/tapping

Lightweight & Compact

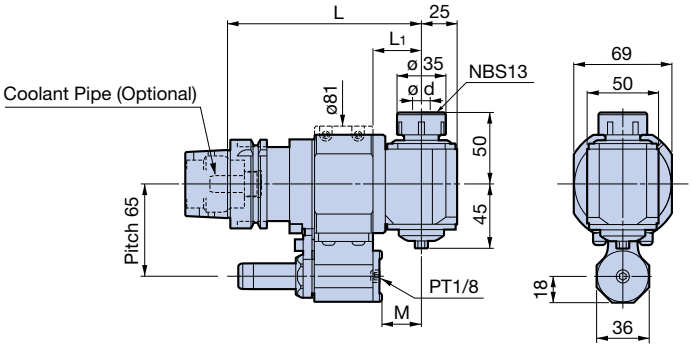


Fig. 1 **MAX. 5,000min-1**

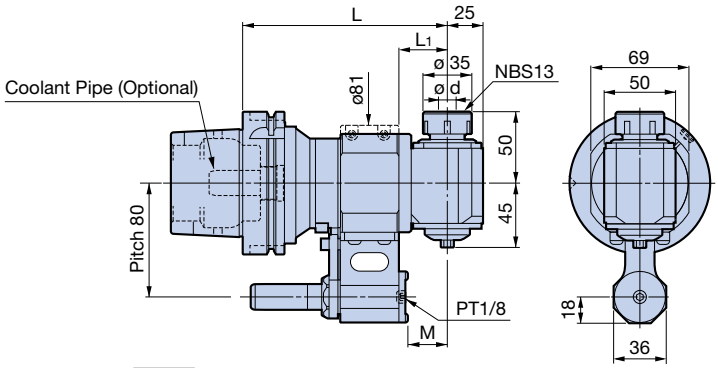


Fig. 2 **MAX. 5,000min-1**

● Model Description

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

- HSK-A63: HSK Shank Type
- AG90: 90° Head Type
- 13: Maximum clamping diameter
- 135: L dimension

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

Model	Fig.	ød	L	L1	M	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-AG90-13-135	1	2.5 - 13	135	34	27.85	NBC13	1:1	4.4
-185			185	84	77.85			5.4
HSK-A100-AG90-13-145	2	2.5 - 13	145	34	27.85	NBC13	1:1	6.8
-195			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. Consult with the machine tool manufacturer for the dimensions of the Stop Block, as they vary depending on machine models.
6. 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.
7. Automatic tool change may not be available depending on machine tool models.
8. New Baby Endmill Collets cannot be used.
9. Coolant pipe is not included. (Cannot be used with center through) C63

For Collets, G4
For Stop Blocks, G29

Application example

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

	Drilling	Tapping
Tools used	ø12 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-1	450min-1

Oil Hole Type Clamping diameter: ø2.5 - ø13

● Feeds coolant through the cutting tool via Stop Block.

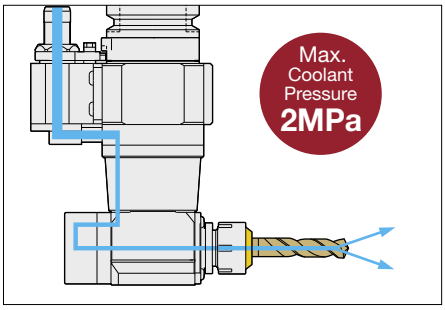
Spindle angle 90°

For drilling

● Model Description

HSK-A63 - O AG90 - 13 - 185

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



Feeds oil from the cutting edge via Stop Block

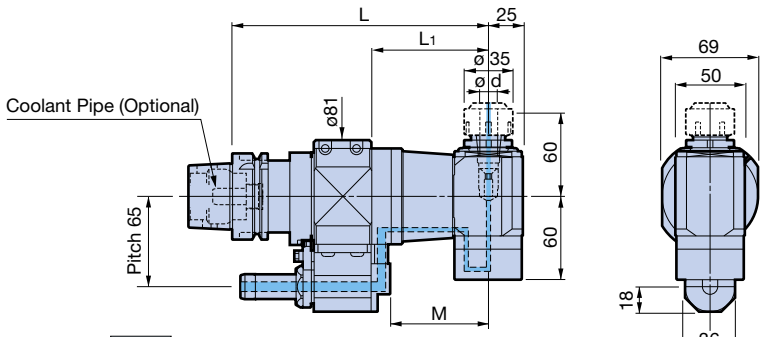


Fig. 1 **MAX. 5,000min-1**

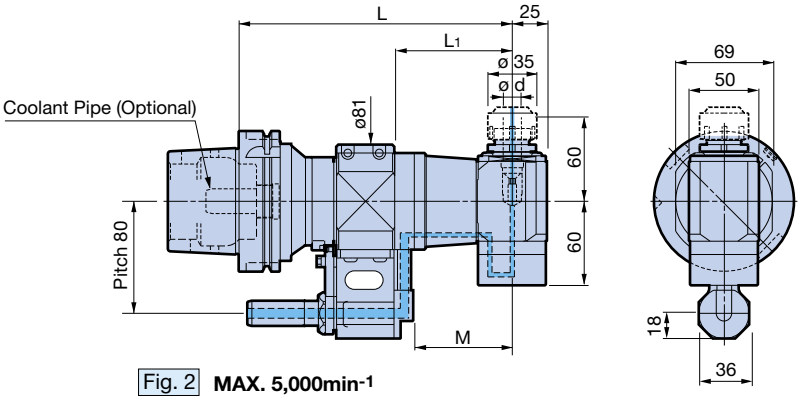


Fig. 2 **MAX. 5,000min-1**

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

Model	Fig.	ød	L	L1	M	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-OAG90-13-185	1	2.5 - 13	185	84	70.5	NBC13	1:1	5.9
HSK-A100-OAG90-13-195	2		195					8.4

1. **The cutting tool rotates in reverse to the machine spindle.**
2. For use with an oil hole drill only. Never run without supplying coolant through the unit.
3. Baby Perfect Seal nut with sealing mechanism is required. Please order separately.
4. Collet is ordered separately.
5. Wrench and Adjusting Screw are included.
6. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
7. A Stop Block is required when mounting on machines. Please order separately.
8. Automatic tool change may not be available depending on machine tool models.
9. Coolant pipe is not included. (Cannot be used with center through) C63

For Collets, G4
For Perfect Seal, G24
For Stop Blocks, G29

ANGLE HEAD AG90 SERIES

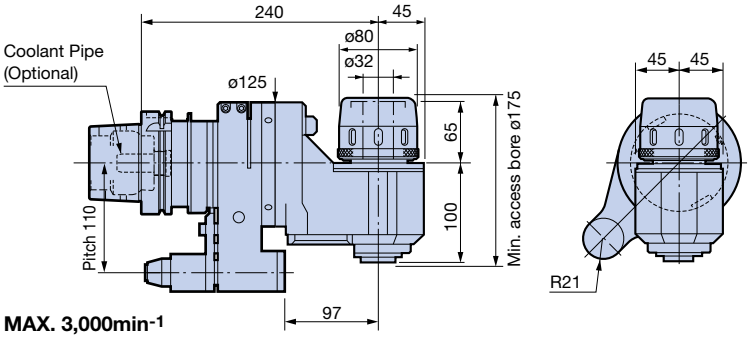
Versatile ø32 milling chuck allows use of various tools according to any machining application.

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^{-1}

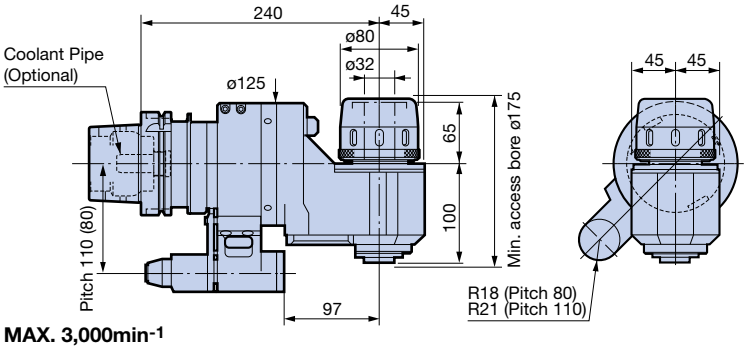
Model	Weight (kg)
HSK-A100-AG90/HMC32-240	16.0

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. (Cannot be used with center through) C63
7. Wrench included. (Model: FK80-90)

For Straight Collets, G20
For Stop Blocks, G29

● High Rigidity S type

· About 30% higher rigidity compared to standard models



MAX. 3,000min^{-1}

Model	Weight (kg)	
	Pitch 110	Pitch 80
HSK-A100-AG90/HMC32-240S	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. (Cannot be used with center through) C63
7. Wrench included. (Model: **FK80-90**)

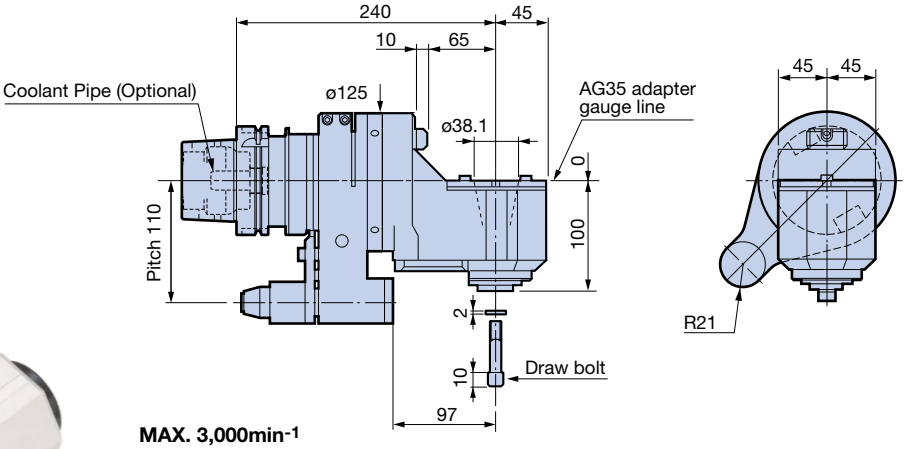
For Straight Collets, G20
For Stop Blocks, G29

Offset design provides optimum tool projection with each adapter.

Spindle angle 90°

BUILD-UP Type

● Standard type



MAX. 3,000min^{-1}

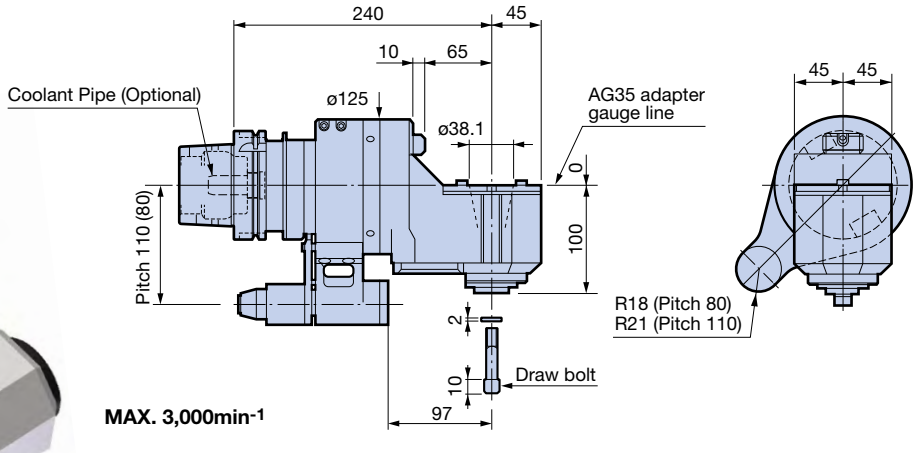
Model	Weight (kg)
HSK-A100-AG90/AGH35-240	14.2

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) C63

For the AG35 adapter series, A150
For Stop Blocks, G29

● High Rigidity S type

· About 30% higher rigidity compared to standard type



MAX. 3,000min^{-1}

Model	Weight (kg)	
	Pitch 110	Pitch 80
HSK-A100-AG90/AGH35-240S	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) C63

For the AG35 adapter series, A150
For Stop Blocks, G29

ANGLE HEAD AG90 SERIES

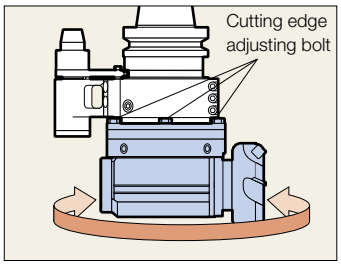
Face Milling Type

Spindle angle 90°

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

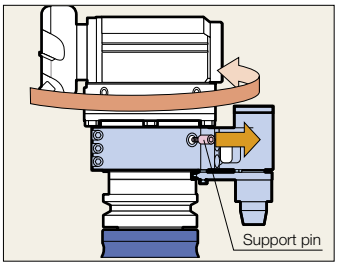
■ Cutting edge direction freely adjustable in 360°

The cutting edge direction can be easily set at any angle through 360 degrees simply by loosening its adjustment bolts (8 positions).

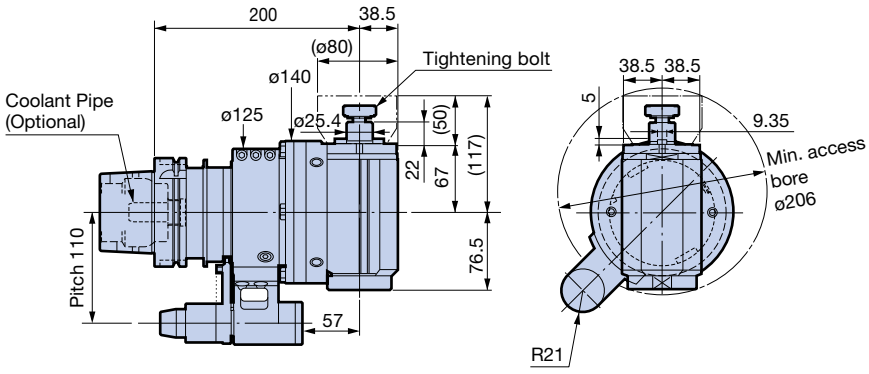


■ Cutting edge direction indexable in 90° increments

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.



MAX. 1,500min^{-1}

Model	Weight (kg)
HSK-A100-AG90-FMA25.4S-200S	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) C63

For Stop Blocks, G29

Tapper Type

Spindle angle 90°

● Tapping depth is adjusted with automatic depth control.

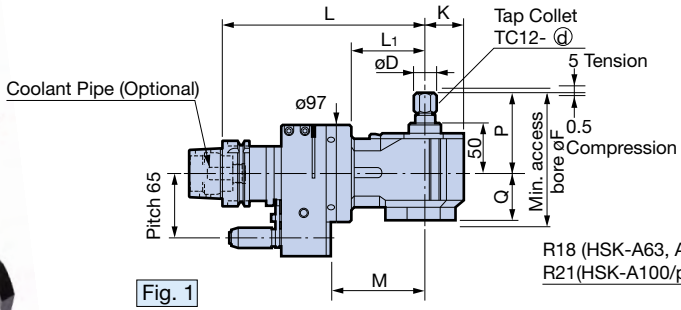


Fig. 1

MAX. 2,000min-1

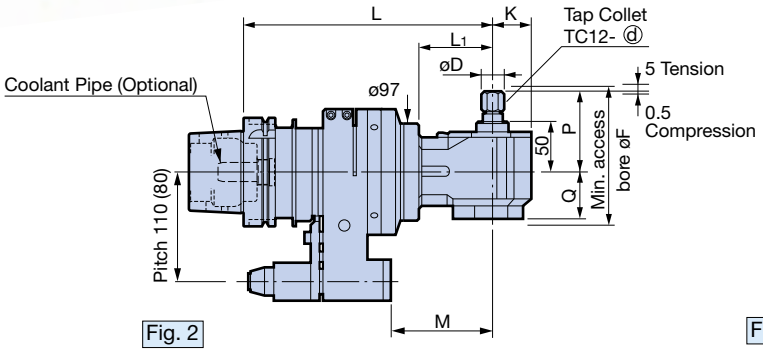


Fig. 2

MAX. 2,000min-1

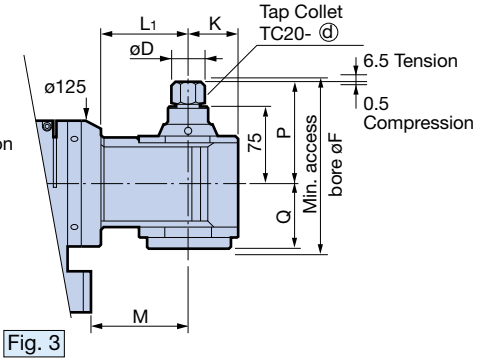


Fig. 3

MAX. 1,000min-1

● Model Description

HSK-A63 - AG90 / TC12 - 200

- 200: L dimension
- TC12: Tapping range
- AG90: 90° Head Type
- HSK-A63: HSK Shank Type

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

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

Model	Fig.	d	øD	G	K	L	L1	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	M8 - M20	22/31	49	49		86		100	66.5	178	TC20- ⓓ		15.5 (110)	16.8 (110)	16.1

1. **The cutting tool rotates in reverse to the machine spindle.**
2. TC Tap Collet is not included. Please order separately.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. Note that tap rotation is reduced to half the speed of the machine spindle.
5. A Stop Block is required when mounting on machines. Please order separately.
6. When supplied through the Stop Block, coolant can be ejected from the housing.
7. Automatic tool change may not be available depending on machine tool models.
8. Coolant pipe is not included. (Cannot be used with center through) C63

For TC Tap Collets, A135
For Stop Blocks, G29

ANGLE HEAD AG45 SERIES

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 Clamping diameter: ø1.5 - ø13

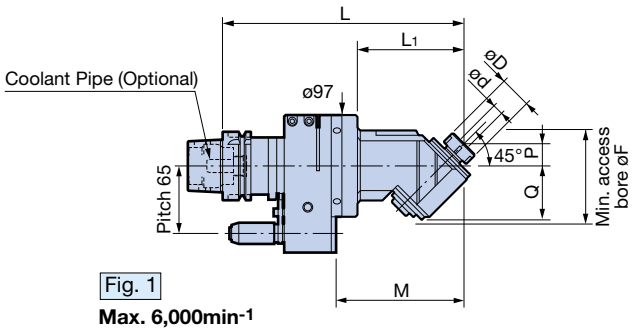


Fig. 1

Max. 6,000min-1

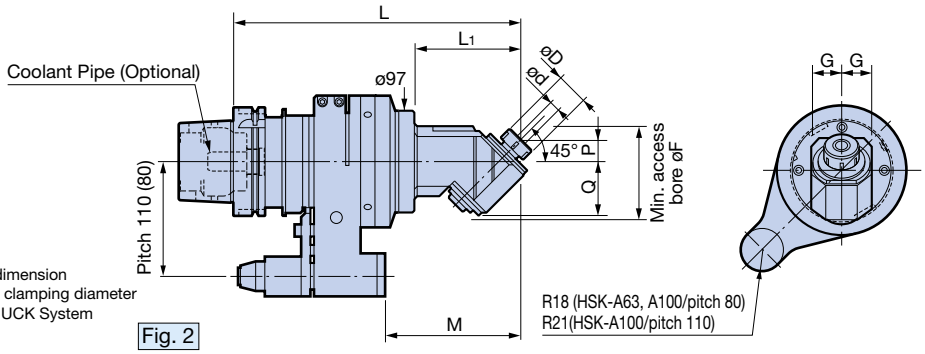


Fig. 2

Max. 6,000min-1

● Model Description

HSK-A63 - AG45 / NBS 10 - 230

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

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

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

Model	Fig.	ød	øD	G	L	L1	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) ☞ C63

☞ For Collets, G4
☞ For Stop Blocks, G29

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

Spindle angle 0° - 90°

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

Universal Type Clamping diameter: ø2.5 - ø20

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 ±5')

- Model Description

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

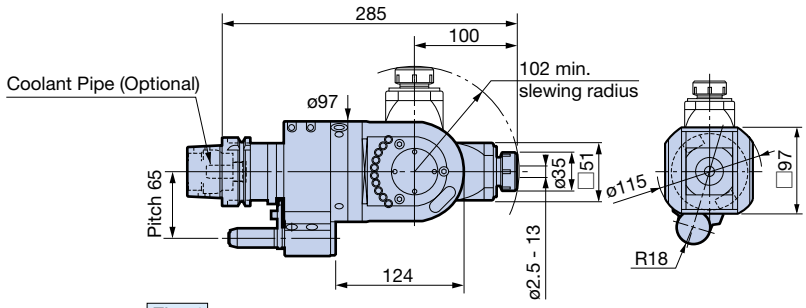


Fig. 1 **Max. 6,000min-1**

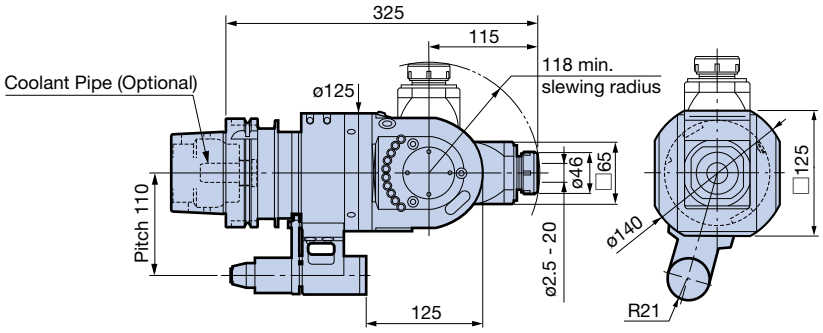


Fig. 2 **MAX. 4,000min-1**

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

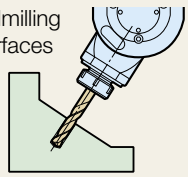
Model	Fig.	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-AGU/NBS13-285	1	NBC13	1:1	9.6
HSK-A100-AGU/NBS20-325	2	NBC20	1:1	20.0

For Stop Blocks, G29
For Collets, G4

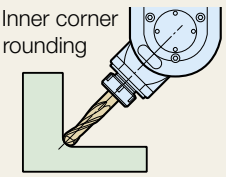
1. **The cutting tool rotates in reverse to the machine spindle.**
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order 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) C63

Machining examples Easy angle setup

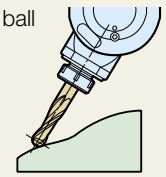
- Drilling or endmilling on angled surfaces



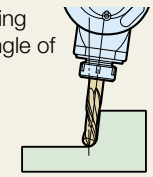
- Inner corner rounding



- Profiling with ball endmill



- Machining draft angle of molds

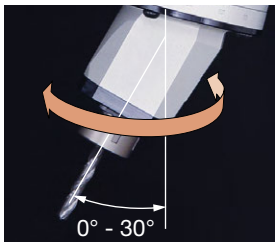


ANGLE HEAD AGU SERIES

AGU30 Type Clamping diameter: ø2.5 - ø20

Spindle angle 0° - 30°

- 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 low 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

HSK-A63 - AGU30 / NBS 13 - 255

- 255: L dimension
- 13: Maximum clamping diameter
- NBS: NEW BABY CHUCK System
- AGU30: AGU30 Type
- HSK-A63: HSK Shank Type

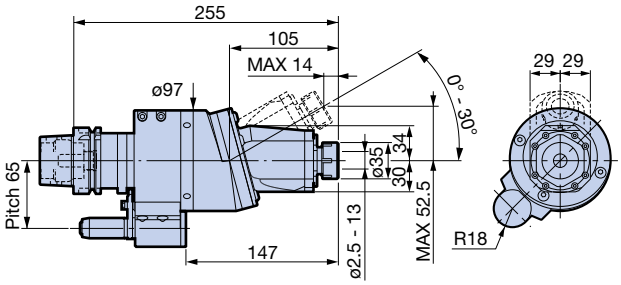


Fig. 1 **Max. 6,000min-1**

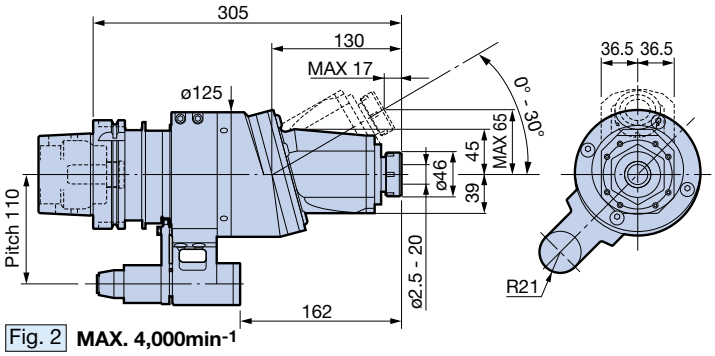


Fig. 2 **MAX. 4,000min-1**

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

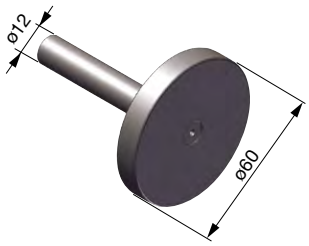
Model	Fig.	Collet Model	Speed ratio Input:output	Weight (kg)
HSK-A 63-AGU30/NBS13-255	1	NBC13	1:1	6.8
HSK-A100-AGU30/NBS20-305	2	NBC20	1:1	15.3

For Stop Blocks, G29
For Collets, G4

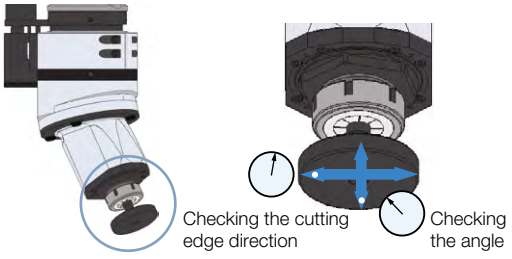
1. **The cutting tool rotates in forward to the machine spindle.**
2. Nut and wrench are included. Collet is not included.
3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.
4. A Stop Block is required when mounting on machines. Please order separately.
5. Automatic tool change may not be available depending on machine tool models.
6. 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) C63

● SETTING DISK (Standard accessory)

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

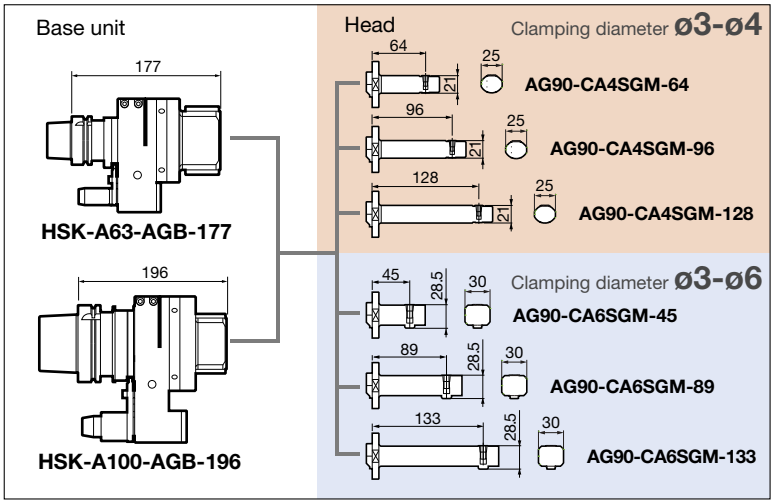


The angle and cutting edge direction can be adjusted using the setting disk.



Small bore type

- Achieves angular drilling in the min. ø30 bore. (minimum diameter for CA6SGM is ø40)
- Prevents interference through flexible combination of base units and heads.
- The head is positioned at the center of the spindle, enabling easy programming.



● Model Description

HSK-A63 - AG90 / CA 4 SGM - 241

- HSK Shank Type
- 90° Head Type
- Collet type
- Maximum clamping diameter
- Modular system
- L dimension

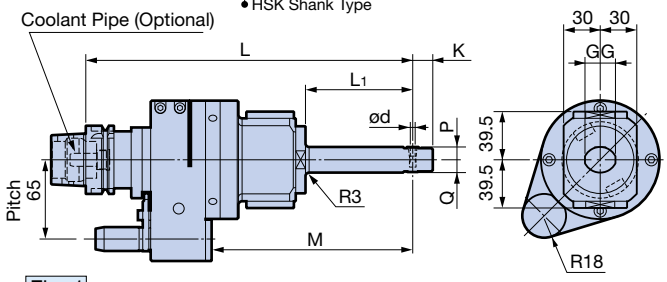


Fig. 1 **MAX. 2,000min-1**

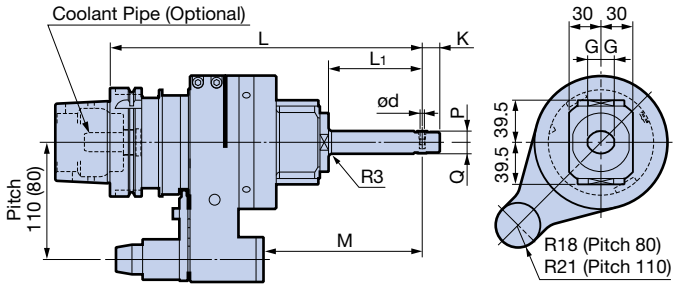


Fig. 2 **MAX. 2,000min-1**

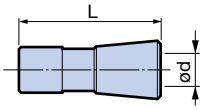
A Type (DIN 69893-1) (ISO 12164)

Set Model	Base Model	Head Model	Fig.	ød	G	K	L	L1	M	P	Q	Speed ratio Input:output	Weight (kg) Pitch 65	Pitch 80	Pitch 110
HSK-A 63-AGB90-CA4SGM-241	HSK-A63-AGB-177	AGB90-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		
-CA6SGM-222		AGB90-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-AGB90-CA4SGM-260□	HSK-A100-AGB-196□	AGB90-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
-CA6SGM-241□		AGB90-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. 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) C63

For Stop Blocks, G29

● Exclusive collet



Model	ød	L
CA4-3	3	16.5
-3.5	3.5	
-4	4	

Model	ød	L
CA6-3	3	22
-4	4	
-5	5	
-6	6	

1. Use drill with a shank diameter matched with ød of the collet.
2. Tool shank tolerance must be within h7.

High-speed AIR SPINDLE

AIR TURBINE SPINDLE

The ultra-precision spindle enables challenging micromachining!

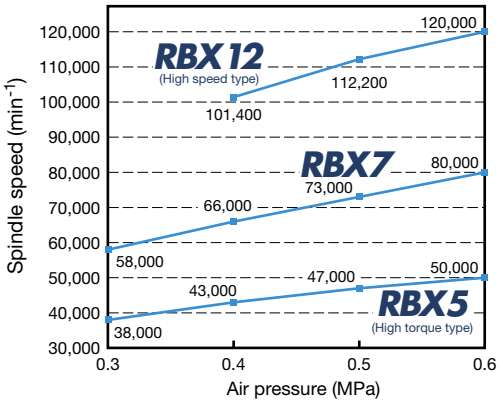
- Achieves efficient and accurate micromachining with excellent runout accuracy in the max. spindle speed range.
- World's smallest compact design (RBX12).

Machine spindle rotation **zero**

MAX. **120,000min^{-1}**

	RBX5 (High torque type)	RBX7	RBX12
Operating spindle speed (min^{-1})	40,000 - 50,000	60,000 - 80,000	100,000 - 120,000
Clamping diameter	ø0.45 - 4.05mm (MEGA4S)		
Spindle nose runout accuracy	Within 1 μm		
Air pressure	0.3 - 0.6MPa		0.4 - 0.6MPa
Air flow rate	300L/min [ANR] (at 0.6MPa)		125L/min [ANR] (at 0.6MPa)

Spindle speed against air pressure (reference)



[Center Through Type]

ATC compatible

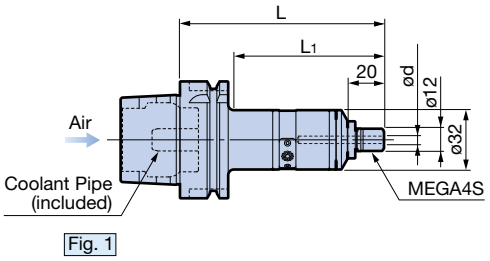


Fig. 1

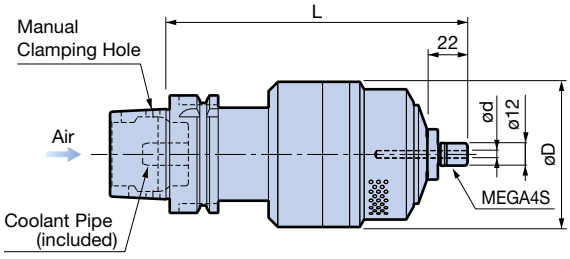


Fig. 2

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

Model	Fig.	Operating spindle speed (min^{-1})	Clamping diameter ød	Usable tool diameter	øD	L	L1	Mega Nut	Collet Model	Weight (kg)
HSK-A 63-RBX 5C-4S-160	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	160	—	MGN4S	NBC4S	3.9
-RBX 7C-4S-160		60,000 - 80,000		ø1.0 or smaller	78					2.9
-RBX12C-4S-110	1	100,000 - 120,000		ø0.6 or smaller	32	110	81	MGN4S-HG		1.0
HSK-A100-RBX 5C-4S-165	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	165	—	MGN4S	NBC4S	5.9
-RBX 7C-4S-165		60,000 - 80,000		ø1.0 or smaller	78					4.9

1. Nut, exclusive wrench (RBX5,7 → **XW27**, RBX12 → **XW20**) and Mega Wrench (**MGR12**) are included. Collet is not included. Please order separately.
2. Air filter regulator (XF1) is required. A167

For Micro Collets, G2

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.

■ RBX12 MEGA NUT (Standard accessory)

Exclusive nut for high-speed rotation.

Model	MGN4S-HG

For RBX5 and RBX7 nuts, G3

[Side Through Type]

ATC compatible

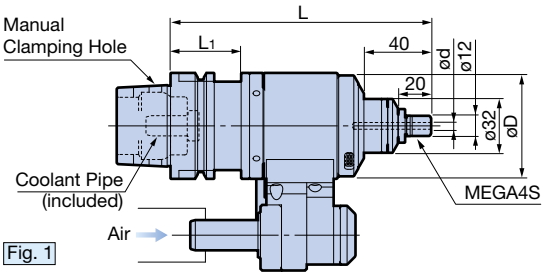


Fig. 1

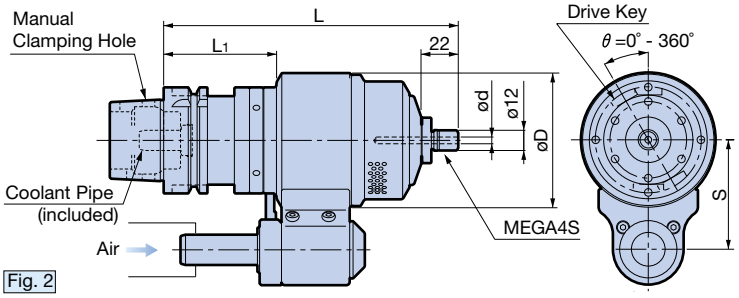


Fig. 2

MAX. 120,000min^{-1}

Machine spindle rotation **zero**

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

Model	Fig.	Operating spindle speed (min^{-1})	Clamping diameter ød	Usable tool diameter	øD	L	L1	S	H	Mega Nut	Collet Model	Weight (kg)
HSK-A 63-RBX 5-4S-175-65	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	175	67	65	0 - 45	MGN4S	NBC4S	4.8
-RBX 7-4S-175-65		60,000 - 80,000		ø1.0 or smaller	80							3.8
-RBX12-4S-155-65	1	100,000 - 120,000		ø0.6 or smaller	63	155	42		-4 - 41	MGN4S-HG		3.0
HSK-A100-RBX 5-4S-180-80	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	100	180	72	80	5 - 50	MGN4S	NBC4S	9.4
-RBX 7-4S-180-80		60,000 - 80,000		ø1.0 or smaller								8.4

1. Nut, exclusive wrench (RBX5,7 → **XW27**, RBX12 → **XW20**) and Mega Wrench (**MGR12**) are included. Collet is not included. Please order separately.
2. Air filter regulator (XF1) is required. A167

For Micro Collets, G2
For Stop Blocks, A166

[Manual Tool Change Type]

● Easy installation as Stop Block is not needed.

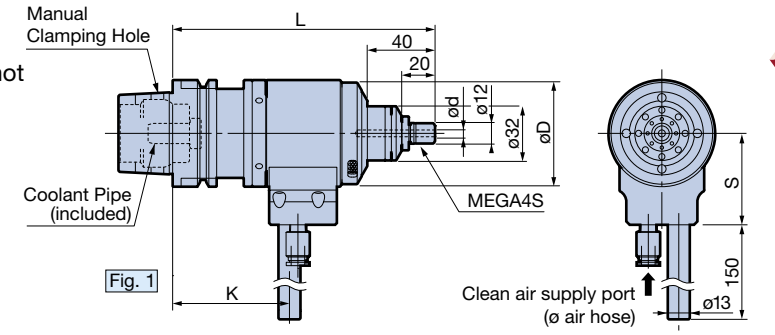


Fig. 1

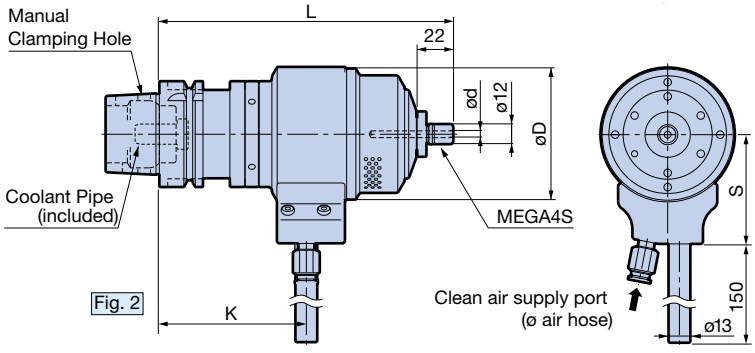


Fig. 2

MAX. 120,000min^{-1}

Machine spindle rotation **zero**

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

Model	Fig.	Operating spindle speed (min^{-1})	Clamping diameter ød	Usable tool diameter	øD	L	K	S	Mega Nut	Collet Model	Weight (kg)
HSK-A 63-RBX 5-4S-175H	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	96	175	87	71	MGN4S	NBC4S	4.8
-RBX 7-4S-175H		60,000 - 80,000		ø1.0 or smaller	80			65			3.8
-RBX12-4S-155H	1	100,000 - 120,000		ø0.6 or smaller	63	155	69	54	MGN4S-HG		2.7
HSK-A100-RBX 5-4S-180H	2	40,000 - 50,000	0.45 - 4.05	ø1.5 or smaller	100	180	92	80	MGN4S	NBC4S	9.4
-RBX 7-4S-180H		60,000 - 80,000		ø1.0 or smaller							8.4

1. Nut, exclusive wrench (RBX5,7 → **XW27**, RBX12 → **XW20**) and Mega Wrench (**MGR12**) are included. Collet is not included. Please order separately.
2. Air filter regulator (XF1) is required. A167

For Micro Collets, G2

Ultra slim design with ø10 nut outer diameter avoids interference.
Accurate small diameter drilling is achieved.

World's smallest ø10 nut outer diameter (MEGA3S)

Max. 60,000min^{-1}

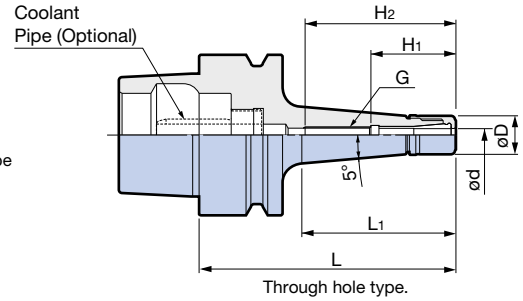
[High Rigidity Taper Type]

● Models for ultra-small endmilling are newly added!

● Model Description

HSK-E25 - MEGA 3 S - 45 T

- T: Taper type
- 45: L dimension
- S: MICRO CHUCK
- MEGA: MEGA CHUCK
- HSK-E25: HSK Shank Type



Through hole type.

E Type (DIN 69893-5)

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		0.10
-MEGA6S- 45T ※	0.45 - 6.05	14	45	33	28.5	(31)	—	NBC6S-□	0.08
- 60T			60	49		40	M7 P0.75		0.10
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-□	0.20
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		0.28
- 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. Models marked with "※" do not have inner thread. H_2 ( ) dimension is the max. tool shank length that can be inserted into the holder.
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. Coolant pipe is not included. C63

[Straight Type]

● Straight type with less workpiece interference.

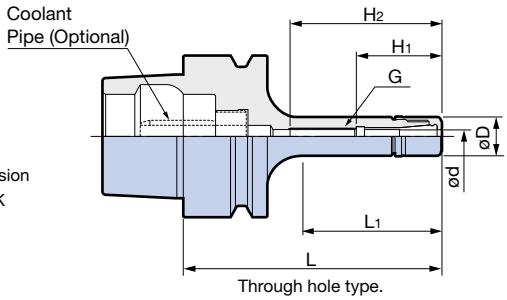
World's smallest ø10 nut outer diameter (MEGA3S)

MAX. 60,000min^{-1}

● Model Description

HSK-E25 - MEGA 4 S - 45

- HSK-E25: HSK Shank Type
- MEGA: MEGA CHUCK
- 4: MICRO CHUCK
- S: MICRO CHUCK
- 45: L dimension



Through hole type.

E Type (DIN 69893-5)

Model	Clamping diameter ød	øD	L	L1	H1	H2	G	Collet Model	Weight (kg)
HSK-E25-MEGA4S-45 ※	0.45 - 4.05	12	45	31	26.5	(32)	—	NBC4S-□	0.06
-60			60	46		42	M5 P0.8		0.08
-MEGA6S-45 ※	0.45 - 6.05	14	45	32	28	(31)	—	NBC6S-□	0.07
-60			60	47	28.5	41	M7 P0.75		0.08
HSK-E32-MEGA3S-45 ※	0.45 - 3.25	10	45	23	22	(31)	—	NBC3S-□	0.13
-MEGA4S-45	0.45 - 4.05	12	45	22	26.5	31	M5 P0.8	NBC4S-□	0.14
-60			60	34		46			0.15
-MEGA6S-45 ※	0.45 - 6.05	14	45	22	28.5	(28)	—	NBC6S-□	0.14
-60			60	35		38	M7 P0.75		0.15
HSK-E40-MEGA3S-40 ※	0.45 - 3.25	10	40	19	22	(24)	—	NBC3S-□	0.21
-MEGA4S-60	0.45 - 4.05	12	60	34	26.5	44	M5 P0.8	NBC4S-□	0.23
-MEGA6S-45 ※	0.45 - 6.05	14	45	23	27.5	(27)	—	NBC6S-□	0.22
-60 ※			60	35	28.5	(42)	—		0.23
HSK-E50-MEGA3S-50 ※	0.45 - 3.25	10	50	20	22	(30)	—	NBC3S-□	0.5
-MEGA4S-50 ※	0.45 - 4.05	12	50	21	26.5	(30)	—	NBC4S-□	0.5
-80			80	44		47	M5 P0.8		0.5
-MEGA6S-55 ※	0.45 - 6.05	14	55	26	28.5	(35)	—	NBC6S-□	0.5
-80			80	44		49	M7 P0.75		0.5

1. Nut is included. Collet and wrench must be ordered separately.
2. Models marked with "※" do not have inner thread. H_2 ( ) dimension is the max. tool shank length that can be inserted into the holder.
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. Coolant pipe is not included. ☞C63

Standard Accessory	Optional Accessories				
MEGA NUT	Mega Wrench	Micro Collet	Micro Seal Nut (For 6S and 8S)	Collet Case	α Taper Cleaner
					
For Spares ☞G3	☞G22	☞G2	☞G3	☞G3	☞G3

For High Speeds

MEGA NEW BABY CHUCK PAT.

Clamping diameter: ø0.25 - ø20

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

- 40: L dimension
- N: NEW BABY CHUCK
- 6: Maximum clamping diameter
- MEGA: MEGA CHUCK
- HSK-E25: HSK Shank Type

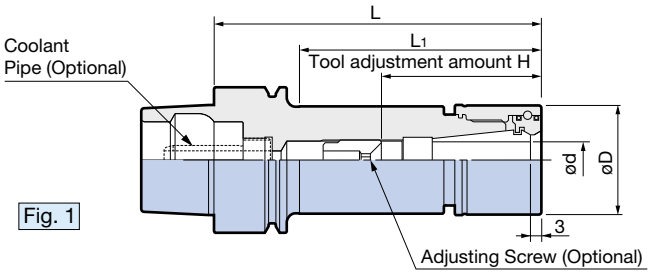


Fig. 1

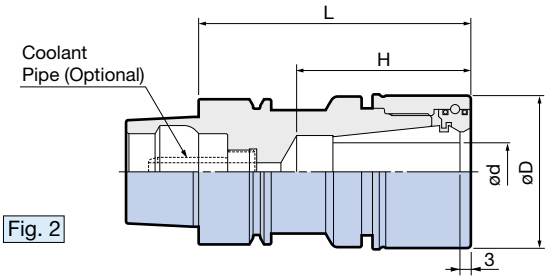


Fig. 2

E Type (DIN 69893-5)

Model	Fig.	Clamping diameter ød	øD	L	L1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-E25-MEGA 6N- 40 ※	1	0.25 - 6	20	40	29	25	NBC 6-□	0.10
8N- 45 ※	2	0.5 - 8	25	45	—	30	NBC 8-□	0.12
10N- 60 ※▲		1.5 - 10	30	60	—	45	NBC10-□	0.17
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-□	0.22
- 65				65	44	26 - 32		0.27
-MEGA10N- 65 ※	2	1.5 - 10	30	65	—	47	NBC10-□	0.28
-MEGA13N- 70 ※		2.5 - 13	35	70	—	44	NBC13-□	0.31
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		0.35
-120				120	94			0.41
-MEGA 8N- 55 ※	1	0.5 - 8	25	55	31	36	NBC 8-□	0.31
- 75				75	51	26 - 41		0.38
- 90				90	66	26 - 45		0.43
-MEGA10N- 60 ※	1	1.5 - 10	30	60	37	40	NBC10-□	0.39
- 75 ※				75	52	55		0.46
- 90				90	67	38 - 48		0.53
-MEGA13N- 65 ※	1	2.5 - 13	35	65	44	44	NBC13-□	0.45
- 75 ※				75	54	55		0.53
- 90				90	69	44 - 48		0.62
-120				120	99	44 - 63		0.80
-150				150	129			1.00
-MEGA16N- 65 ※▲	2	2.5 - 16	42	65	—	46	NBC16-□	0.43
- 75 ※				75		48		0.60

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. Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
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. C63

E Type (DIN 69893-5)

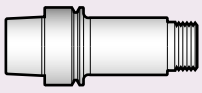
Model	Fig.	Clamping diameter ød	øD	L	L_1	Tool adjustment amount H	Collet Model	Weight (kg)
HSK-E50-MEGA 6N- 55 ※	1	0.25 - 6	20	55	27	35	NBC 6-□	0.5
- 70				70	38	23 - 39		0.5
-100				100	64	23 - 43		0.6
-MEGA 8N- 60 ※	1	0.5 - 8	25	60	30	37	NBC 8-□	0.6
- 90				90	56	26 - 45		0.7
-MEGA10N- 60 ※ ▲	1	1.5 - 10	30	60	30	35	NBC10-□	0.6
- 90				90	58	38 - 48		0.7
-MEGA13N- 70 ※	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
-MEGA16N- 75 ※	1	2.5 - 16	42	75	48	52	NBC16-□	0.9
- 90 ※				90	63	65		1.0
-MEGA20N- 75 ※ ▲	2	2.5 - 20	46	75	—	49	NBC20-□	0.8
-100				100	—	51 - 54		1.1
-130				130	—	51 - 68		1.5

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. Models with ▲ indication cannot use a NEW BABY ENDMILL COLLET.
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. C63

Standard Accessory	Optional Accessories				
MEGA NUT  For Spares G10	MEGA NUT Flat Type  G10	Mega Wrench  G22	Collet  G4	MEGA PERFECT SEAL  G11	Adjusting Screw  G10

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

HYDRAULIC CHUCK

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

Max. 60,000min^{-1}

[SUPER SLIM Type]

● Model Description

HSK-E25 - HDC 3 S - 40
- 40: L dimension
- S: SUPER SLIM Type
- 3: Clamping diameter
- HDC: HYDRAULIC CHUCK
- HSK-E25: HSK Shank Type

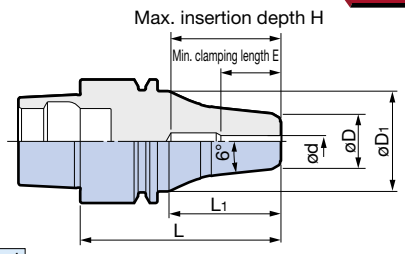


Fig. 1

E25: MAX. 60,000min^{-1}
E32: MAX. 45,000min^{-1}

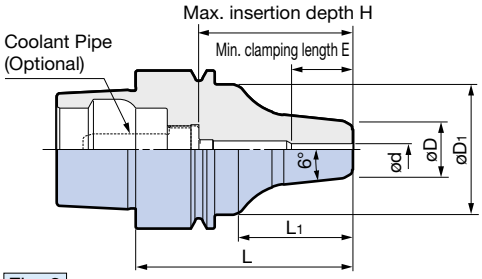


Fig. 2

MAX. 40,000min^{-1}

Center through

E Type (DIN 69893-5)

Model	Fig.	Clamping diameter ød	øD	øD1	L	L1	H	E	Weight (kg)
HSK-E25-HDC3S-40	1	3	14	20	40	27	22	16	0.09
-HDC4S-40		4					21		
HSK-E32-HDC3S-52	1	3	14	26	52	29	28	16	0.19
-HDC4S-52		4						19	
-HDC6S-57		6			57	34	33	25	0.20
HSK-E40-HDC3S-55	2	3	14	33	55	29	39	16	0.31
-HDC4S-55		4						19	
-HDC6S-60		6			60	34	40	25	0.32

1. HSK-E25, E32 cannot be used with center through.
2. Coolant pipe is not included. C63
3. Adjusting Screw cannot be used.

Caution

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

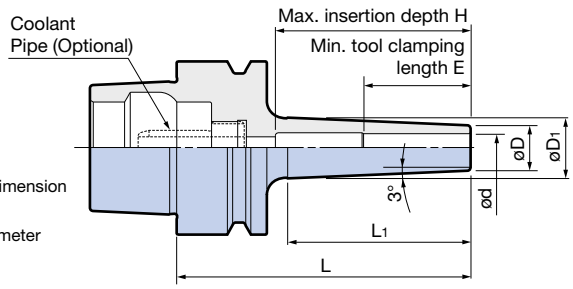
[Slim Type]

Center through

Clamping diameter ø4 -

● Model Description

HSK-E25 - SRC 4 S - 45
- 45: L dimension
- S: Slim Type
- 4: Clamping diameter
- SRC: SHRINK CHUCK
- HSK-E25: HSK Shank Type



E Type (DIN 69893-5)

Model	Clamping diameter ød	øD	øD1	L	L1	H	E	Weight (kg)
HSK-E25-SRC 4S- 45 ※	4	7	10	45	29	18	16	0.06
-SRC 6S- 60	6	10	15	60	46	46	26	0.08
-SRC 8S- 60	8	13	18		48			0.10
HSK-E32-SRC 4S- 60 ※	4	7	10	60	33	18	16	0.14
-SRC 6S- 60	6	10	13.5		34	43	26	0.15
-SRC 8S- 60	8	13	16.5					0.16
-SRC10S- 60	10	16	20		36		32	0.18
-SRC12S- 60	12	19	23		37		35	0.19
HSK-E40-SRC 4S- 60 ※	4	7	10	60	34	44	16	0.22
-SRC 6S- 75	6	10	15	75	49	52	26	0.24
-SRC 8S- 75	8	13	18					0.26
-SRC10S- 75	10	16	21			56	32	0.29
-SRC12S- 75	12	19	24				36	0.31

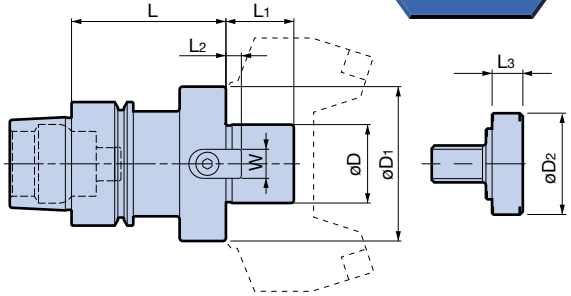
1. Use a carbide shank cutter within a tolerance of h6.
   For ※ models, use a carbide shank with a tolerance within h5.
2. Center through coolant supply is available with tools with oil holes.
3. Always insert the cutting tool into the holder beyond the min. clamping length E.
4. Coolant pipe is not included. ☞C63

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

Center through

● Model Description

HSK-E40 - FMA 25.4 - 50
- 50: L dimension
- 25.4: Spigot diameter
- FMA: FACE MILL ARBOR TYPE A
- HSK-E40: HSK Shank Type



E Type (DIN 69893-5)

Model	øD	øD1	L	L1	L2	W	øD2	L3	Clamping Screw	Weight (kg)
HSK-E40-FMA25.4-50	25.4	50	50	22	5	9.5	22	10	MBA-M12	0.62

1. Clamping screw is included.
2. Coolant pipe cannot be attached.

AIR TURBINE SPINDLE

The ultra-precision spindle enables challenging micromachining!

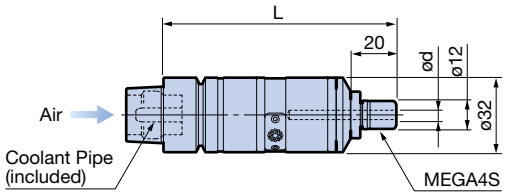
- Achieves efficient and accurate micromachining with excellent runout accuracy in the max. spindle speed range.

Machine spindle rotation **zero**

MAX. **120,000min^{-1}**

Ceramic ball bearing type
RBX Series

[Center Through Type]



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.

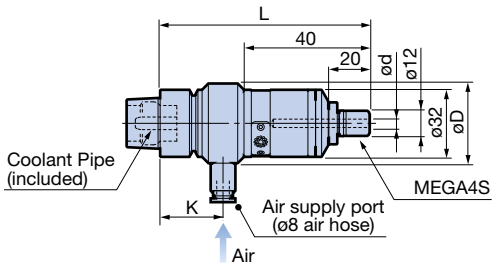
E Type (DIN 69893-5)

Model	Operating spindle speed (min^{-1})	Clamping diameter ød	Usable tool diameter	L	Nut	Collet Model	Weight (kg)
HSK-E32-RBX12C-4S-100	100,000 - 120,000	0.45 - 4.05	ø0.6 or smaller	100	MGN4S-HG	NBC4S	0.45

1. Nut and exclusive wrench (2 pieces) are included. Collet is not included; order separately.
2. Air filter regulator (XF1) is required. A167

For Micro Collets, G2

[Manual Tool Change Type]



E Type (DIN 69893-5)

Model	Operating spindle speed (min^{-1})	Clamping diameter ød	Usable tool diameter	øD	L	K	Nut	Collet Model	Weight (kg)
HSK-E32-RBX12-4S-100H	100,000 - 120,000	0.45 - 4.05	ø0.6 or smaller	38	100	30	MGN4S-HG	NBC4S	0.5

1. Nut and exclusive wrench (2 pieces) are included. Collet is not included; order separately.
2. Air filter regulator (XF1) is required. A167

For Micro Collets, G2

High-speed and high-precision holder with an ultra-slim design that minimizes interference with workpieces and jigs.

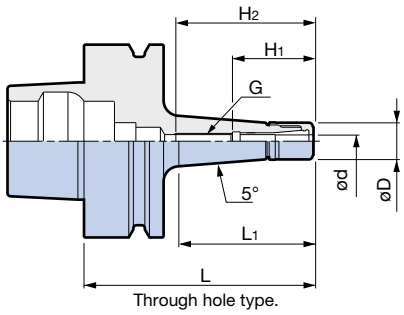
MAX. 30,000min^{-1}

[High Rigidity Taper Type]

● Model Description

HSK-F63 - MEGA 4 S - 75 T

- T: Taper type
- 75: L dimension
- S: MICRO CHUCK
- 4: MEGA CHUCK
- MEGA: MEGA CHUCK
- HSK-F63: HSK Shank Type



Through hole type.

F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	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. Contact us for a plug screw to block a coolant through hole.

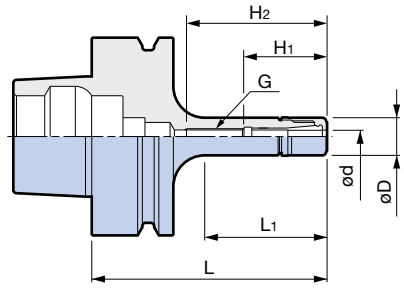
[Straight Type]

MAX. 30,000min^{-1}

● Model Description

HSK-F63 - MEGA 4 S - 75

- 75: L dimension
- S: MICRO CHUCK
- 4: MEGA CHUCK
- MEGA: MEGA CHUCK
- HSK-F63: HSK Shank Type



Through hole type.

F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	L	L_1	H_1	H_2	G	Collet Model	Weight (kg)
HSK-F63-MEGA4S- 75	0.45 - 4.05	12	75	39	26.5	41	M5 P0.8	NBC4S-□	0.7
-105			105	76		47			0.7
-MEGA6S- 75	0.45 - 6.05	14	75	46	28.5	41	M7 P0.75	NBC6S-□	0.7
- 90			90	61		49			0.8
-105			105	76		49			0.8

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. Contact us for a plug screw to block a coolant through hole.

Standard Accessory	Optional Accessories				
MEGA NUT  For Spares G3	Mega Wrench  G22	Micro Collet  G2	Micro Seal Nut (For 6S and 8S)  G3	Collet Case  G3	α Taper Cleaner  G3

For High Speeds

MEGA NEW BABY CHUCK PAT.

Clamping diameter: ø0.25 - ø20

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

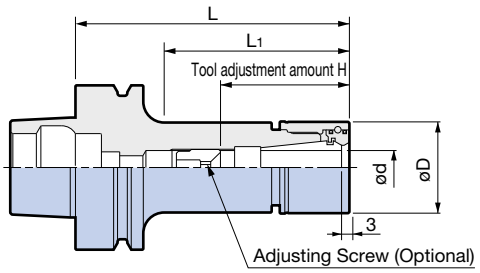
Center through

MAX. 35,000min^{-1}

● Model Description

HSK-F63 - MEGA 6 N - 75

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



F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	L	L1	Tool adjustment amount 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. Contact us for a plug screw to block a coolant through hole.

Standard Accessory

MEGA NUT

For Spares G10

Optional Accessories

MEGA NUT Flat Type

G10

Mega Wrench

G22

Collet

G4

MEGA PERFECT SEAL

G11

Adjusting Screw

G10

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

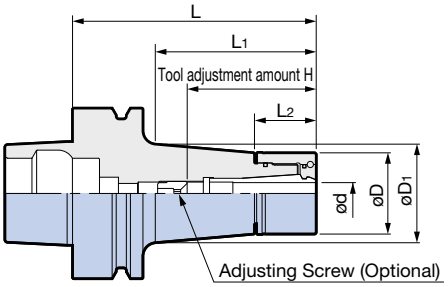
Center through

MAX. 30,000min^{-1}

● Model Description

HSK-F63 - MEGA 6 E - 65

- 65: L dimension
- E: Abbreviation of "E CHUCK"
- 6: Maximum clamping diameter
- MEGA: MEGA CHUCK
- HSK-F63: HSK Shank Type



F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	øD1	L	L1	L2	Tool adjustment amount 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. Contact us for a plug screw to block a coolant through hole.

Standard Accessory

MEGA E Nut

For Spares G13

Optional Accessories

Mega Wrench

G22

MEGA E Collet

G13

MEGA E PERFECT SEAL

G14

Adjusting Screw

G13

For High Speeds

MEGA DOUBLE POWER CHUCK PAT.

Clamping diameter: ø16 - ø32

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

Center through

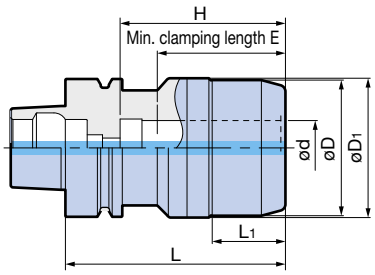
MAX. 28,000min^{-1}

[Standard Type]

● Model Description

HSK-F63 - MEGA 16 D - 80A

- D: Standard type (Through Tools)
- 16: Clamping diameter
- MEGA: MEGA CHUCK
- HSK-F63: HSK Shank Type



F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	øD1	L	L1	H	E	Mega Wrench	Weight (kg)
HSK-F63-MEGA16D- 80A	16	42	53	80	25	55	50	MGR42L	1.2
-MEGA20D- 90A	20	50	55	90	34	65	56	MGR50L	1.4
-MEGA25D-100A	25	62	63	100	39	75	57	MGR62L	1.8
-MEGA32D-105A	32	70	71	105	33	80	64	MGR70L	2.0

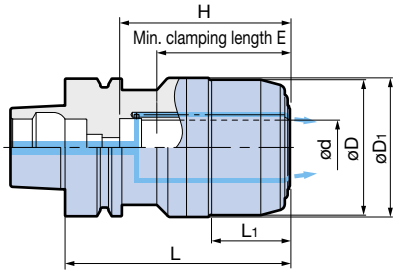
1. Wrench is not included. Please order separately.
2. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.
   When using, slowly ramp up to the appropriate speed starting from slow speeds.
3. H dimension is the max. tool shank length that can be inserted into the holder.
4. Contact us for a plug screw to block a coolant through hole.

[Jet Through Type] Coolant to tool periphery

● Model Description

HSK-F63 - MEGA 16 DS - 80A

- DS: Jet Through Type
- 16: Clamping diameter
- MEGA: MEGA CHUCK
- HSK-F63: HSK Shank Type



F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	øD1	L	L1	H	E	Mega Wrench	Weight (kg)
HSK-F63-MEGA16DS- 80A	16	42	53	82	27	57	52	MGR42L	1.2
-MEGA20DS- 90A	20	50	55	92	36	67	58	MGR50L	1.4
-MEGA25DS-100A	25	62	63	102	41	77	59	MGR62L	1.8
-MEGA32DS-105A	32	70	71	107	35	82	66	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.
5. Contact us for a plug screw to block a coolant through hole.

Optional Accessories

Straight Collet	Mega Wrench	Axial Adjusting Screw
 G19	 G22	 G21

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

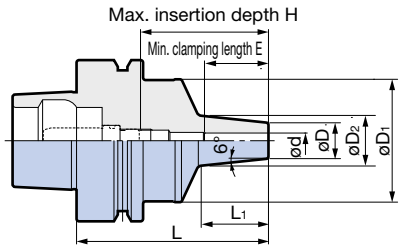
Center through

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

[SUPER SLIM Type PAT.P**]**

● Model Description

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



F Type (DIN 69893-6)

Model	Clamping diameter ød	øD	øD1	øD2	L	L1	H	E	Weight (kg)
HSK-F63-HDC 3S- 75	3	14	48	20	75	26	50	16	1.0
-HDC 4S- 75	4							19	1.0
-HDC 6S- 75	6							25	1.0
-HDC 8S- 75	8	17		23		27		31	1.0
-HDC10S- 75	10	19		26			46	33	1.0
-HDC12S- 75	12	21		28		28		36	1.0

1. Adjusting Screw cannot be used.

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.

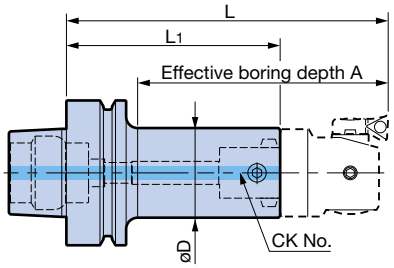
BORING SYSTEM BIG DAISHOWA + KAISER

CK BORING SYSTEM

DUAL CONTACT HSK SHANK

● Model Description

HSK-F63 - CK1 - 78
- 78: CK No.
- HSK-F63: HSK Shank Type



F Type (DIN 69893-6)

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

Model	CK No.	øD	L	L1	A	Weight (kg)
HSK-F63-CK1- 78	CK1	19	110	77.5	73	0.8
CK2- 90	CK2	24	125	89.5	94	0.8
CK3-100	CK3	31	140	100	108	1.0
CK4- 93	CK4	39		93		1.2
CK5- 83	CK5	50		83	114	1.3

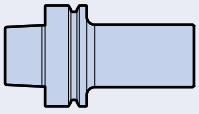
1. The L and A diameters in the table are the reference values when EWN BORING HEAD is attached.

For heads, A39

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

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

BIG DAISHOWA + KAISER
CK BORING SYSTEM Diagram



HSK-F Type

CK1 - CK5

Diameter: ø25 - ø86
ROUGH HEAD **A39**

Diameter: ø20 - ø95
FINISH HEAD **A49**

Back boring available

Diameter: ø30 - ø95

Diameter: ø1 - ø32
FINISH HEAD
(Cylindrical tool type) **A55**

M2 - M36
MEGA SYNCHRO TAPPING HOLDER **A81**

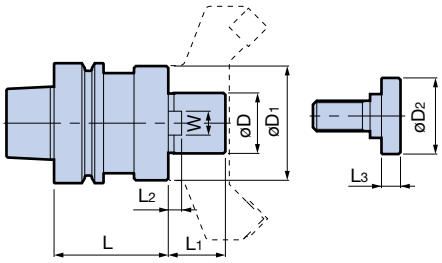
General Toolholder

FACE MILL ARBOR TYPE A

● Model Description

HSK-F63 - FMA 25.4 - 45

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



F Type (DIN 69893-6)

Model	øD	øD1	øD2	L	L1	L2	L3	W	Clamping Screw	Weight (kg)
HSK-F63-FMA25.4-45	25.4	45	33	45	22	5	10	9.5	MBA-M12	1.0

1. Clamping screw is included.
2. Contact us for a plug screw to block a coolant through hole.

Accessories for HSK

COOLANT PIPE

Coolant Pipe (Compatible for form A & E)

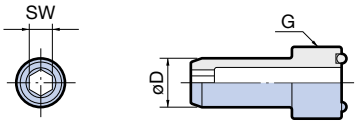
Contact us for the Coolant Pipe for the HSK-F type.

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.

● Mono Block Type

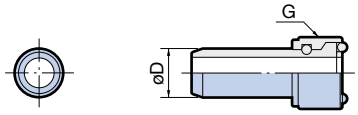
· Some machine tool builders may recommend the Mono Block Type. Check with the machine when selecting Mono Block or 1° Swing Type.



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

● 1° Swing Type

· The DIN and ISO standards require movement range of ±1°. 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