

SIMULTANEOUS TAPER & FLANGE FIT

BBT50-CK6-300



BIG-PLUS
SPINDLE SYSTEM PAT.

Simultaneous fit system surpasses all other spindle concepts while offering interchangeability with existing machines and toolholders.

Patented : U.S.A., CANADA, GERMANY, U.K., FRANCE, ITALY & SOUTH KOREA

BIG-PLUS Spindle System offers simultaneous fit between face and taper of a machine spindle and toolholder. This system is based on the most currently available standards for MAS403, DIN69871 and ASME B5.50-1994.

Polygon-tapered dual contact system

BIG COROMANT CAPTO

The very first modular tooling system for Turning application



The modular tooling system for turning and rotating tool holder application. Strengthens the performance of **MTC**[®] into full use.
(Machining & Turning Center)



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FA Dept.

CATALOG No.EXm181-3-0807-1

Subject to technical changes by further developments.



HSK **TOOLING SYSTEM**

BIG DAISHOWA SEIKI CO LTD

CATALOG No. **EXm181-3**

TOOLING SYSTEM



In Accordance To ISO12164 & DIN69893
HSK-A40,50,63,100 E25,32,40,50 F63



INDEX



Clamping Range :
ø0.45 - ø6.05

Ultra slim design eliminates any interference.

MEGA MICRO CHUCK PAT.



Clamping Range :
ø0.25 - ø20

Most reliable high precision collet chuck in the world.

MEGA NEW BABY CHUCK PAT.



Clamping Range :
ø3 - ø12

World first!! BIG original designed holder for small dia endmilling.

MEGA E CHUCK PAT.

A type

40 50 63 P5-P6

40 50 63 100 P 8-P10

40 50 63 100 P14-P15

E type

25 32 40 50 P19-P20

25 32 40 50 P21-P22

F type

63 P23

63 P23

63 P24

ACCESSORY

MEGA WRENCH P5,P6
MEGA NUT P5,P6
MEGA MICRO COLLET P 7
COOLANT PIPE for Form A ... P18

COLLET EJECTOR P13
MEGA WRENCH P10
ADJUSTING SCREW P10
MEGA NUT P10
NEW BABY COLLET P11
MEGA PERFECT SEAL P12
COOLANT PIPE for Form A ... P18

MEGA E COLLET P16
MEGA WRENCH P15
ADJUSTING SCREW P15
MEGA E NUT P15
COOLANT PIPE for Form A ... P18

INDEX



Clamping Range :
ø 16 - ø42

Specialist for heavy-duty cutting!!

MEGA DOUBLE POWER CHUCK PAT.

Tool fixture Two-way clutch clamping

KOMBI GRIP PAT.

Measurement of spindle accuracy
DYNA TEST

ACCESSORY

P25-P26

RELATED PRODUCTS

Indexable insert endmill offering both accuracy and toughness.

FULLCUT MILL



· Slotting
· Side milling

FCM Clamping Range :
ø16 - ø50



· Side milling
· Ramping
· Helical interpolation
· Plunging

FCR Clamping Range :
ø16 - ø32

For FULLCUT MILL
Please refer to Catalog No. 134

A type

40 50 63 100 P17-P18

E type

F type

63 P24

ACCESSORY

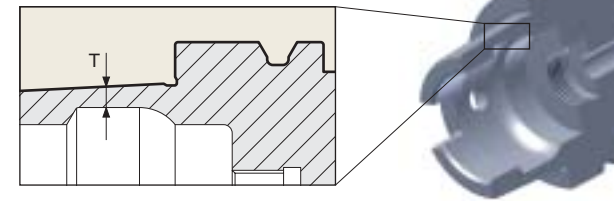
STRAIGHT COLLET P17
SEALED STRAIGHT COLLET ... P17
MEGA WRENCH P18
COOLANT PIPE for Form A ... P18

High Quality HSK Tooling by **BIG** BIG DAISHOWA

1 Premium Material Selection

Since HSK is a hollow taper shank, the material has a critical role for optimum performance.

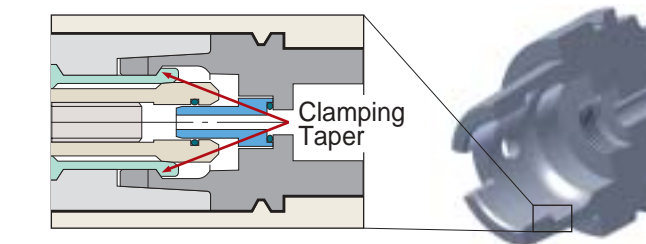
BIG uses carefully selected high grade alloy steels. Particularly, BIG uses die steel materials for HSK 40 and smaller where the cross section of shank taper is very thin.



HSK Size	25	32	40	50	63	100
T	1.09	1.25	1.92	2.60	3.47	5.17

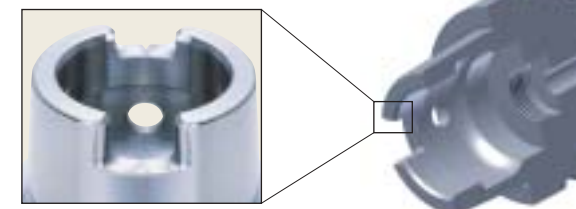
2 Important Tool Retention Feature

Internal clamping of HSK tools is defined by the location of highly concentrated forces from the machine tool. Accuracy and position of this form will affect the rigidity, repeatability, and precision of tool holders.



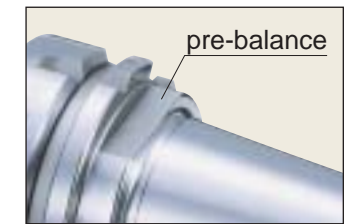
3 Drive Key Form

HSK Shanks according to Form A are designed to carry out torque transmission by the round shaped key-way at the end of the taper. Because of the importance of this round shaped geometry, BIG provides finishing of this feature after heat treatment.



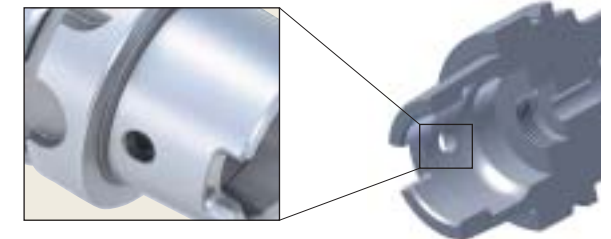
4 Pre-Balanced Design

Since HSK Form A has non-symmetric keyways, it is not balanced. BIG Form A holders are pre-balanced near the tool change V-Groove recommended by ISO standard and can therefore be used for high speed applications.



5 With hole for Manual Clamping

BIG HSK Form A holders have a manual clamping hole as a standard and can therefore be used in place of HSK Form C which is manually mounted in spindles.



6 With IC-Data chip holes

A hole (Dia.10mm) is provided on the flange for IC data chip. Tool management can be carried out by using this ID chips in order to minimize downtime, and to improve current capacity utilization. (Note: IC chips are not included as a standard item)

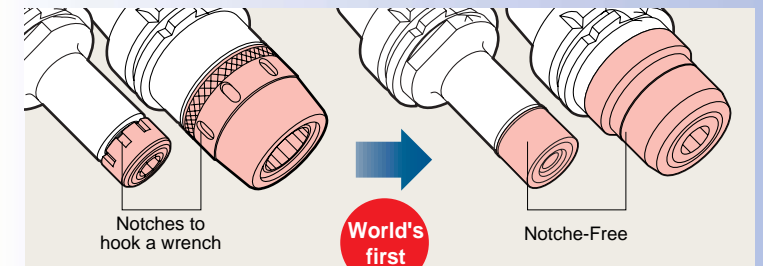


HSK MEGA CHUCK SERIES

High precision , High rigidity & High quality performance

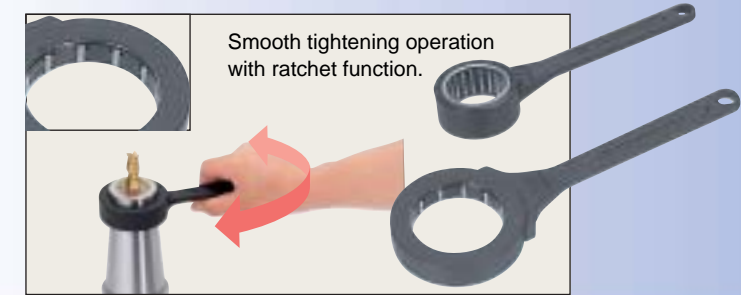
ORIGINAL DESIGN OF NOTCH-FREE NUT PREVENTS VIBRATION AND NOISE

Vibration at high speeds is eliminated by a notch-free nut which offer superior balance and concentricity. This ideal nut design not only eliminates whistling noise and coolant splattering, but also assures increased strength of the nut itself.



EASY AND FIRM CLAMPING WITH THE MEGA WRENCH

Mega Wrench has unique design of one way clutch system with a roller bearing and a ratchet function and is capable of safely and evenly applying force on the entire nut periphery.



Four types of MEGA CHUCK series optimises high speed and precise cutting with drills and endmills.

Depending on applications, ideal chuck can be selected to enhance cutting performance.



For micro drills & endmills

MEGA MICRO CHUCK PAT.

Clamping Range : \varnothing 0.45 - \varnothing 6.05

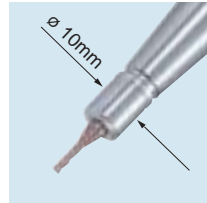
"Taper Type" For Micro End Milling

Super slim and taper type of Mega Micro Chuck is suitable for micro endmills.

MEGA MICRO COLLET

Interval of clamping dia. is 0.1mm. Just fitting for micro cutting tools.

Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within 1 μ m	Within 3 μ m

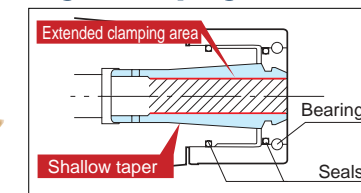


For endmills

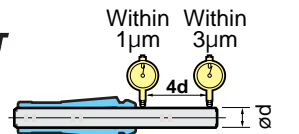
MEGA E CHUCK PAT.

Clamping Range : \varnothing 3 - \varnothing 12

High Clamping Force



MEGA E COLLET



Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within 1 μ m	Within 3 μ m

Slit-Through Coolant

Coolant is securely directed to cutting tool through slits in a collet, even at high spindle speeds. Tool life and surface finish is improved as a result of efficient chip evacuation. Rubber seals are provided within the nut and body in order to prevent coolant leakage.

MAX. COOLANT PRESSURE 7MPa



For endmills, drills, taps, reamers, etc.

MEGA NEW BABY CHUCK PAT.

Clamping Range : \varnothing 0.25 - \varnothing 20

For High Pressure Coolant Supply

Nut with seal for Mega New Baby Chuck. Performance of the seal improves with higher coolant pressure.

MEGA PERFECT SEAL PAT.

MAX. COOLANT PRESSURE 7MPa



Collet Class	T.I.R.	
	At nose	At end of test bar
AA	Within 1 μ m	Within 3 μ m

Highest runout as small as 1 μ m T.I.R. at the collet nose

NEW BABY COLLET

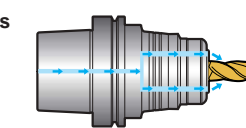


For endmills

MEGA DOUBLE POWER CHUCK PAT.

Clamping Range : \varnothing 16 - \varnothing 42

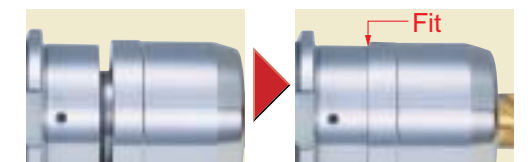
Effective Coolant Supply



- For improved surface finish
- Extended tool life
- Smoother chip evacuation
- Cooling & lubricating of tools

Complete fit of nut and body achieves high rigidity as a integral body.

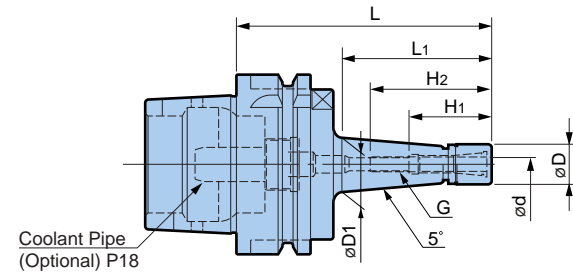
In the case of a conventional milling chuck, an inner taper of nut contacts only with body when tightened. However, there is still a gap between nut and body. Large fit diameter of nut provides higher rigidity as if the chuck and nut were an integral body. This superior rigidity assures heavy cutting without chatter.



Micro diameter design is ideal for high speed applications in tight areas with small diameter cutting tools.



MAX 35,000 min⁻¹



Type T Form A (DIN 69893-1)

Model	$\varnothing d$	$\varnothing D$	$\varnothing D1$	L	L1	H1	H2	G	Max. min ⁻¹	Collet	Weight (kg)				
HSK-A40-MEGA3S- 75T	0.45 - 3.25	10	14.5	75	40	22	38	M4 P0.7	32,000	NBC 3S-□	0.28				
- 90T			17.3	90	56				28,000		0.31				
-MEGA4S- 60T	0.45 - 4.05	12	13.9	60	26	26.5	44	M5 P0.8	35,000	NBC 4S-□	0.27				
- 75T			16.7	75	42				32,000		0.30				
- 90T			19.3	90	58		28,000		0.33						
-105T			22.1	105	73		25,000		0.37						
-MEGA6S- 60T ※	0.45 - 6.05	14	15.6	60	27	28.5	(40)	M7 P0.75	35,000	NBC 6S-□	0.28				
- 75T			18.4	75	43				32,000		0.31				
- 90T			21.1	90	59		28,000		0.34						
-105T			23.9	105	74		25,000		0.39						
HSK-A50-MEGA3S-105T	0.45 - 3.25	10	18.9	105	65	22	38	M4 P0.7	28,000	NBC 3S-□	0.55				
-MEGA4S-105T	0.45 - 4.05	12	20.6	105	65	26.5	47	M5 P0.8	25,000	NBC 4S-□	0.58				
-MEGA6S-105T	0.45 - 6.05	14	22.2	105	65	28.5	49	M7 P0.75	25,000	NBC 6S-□	0.60				
HSK-A63-MEGA3S- 75T	0.45 - 3.25	10	13.6	75	35	22	38	M4 P0.7	32,000	NBC 3S-□	0.80				
- 90T			16.2	90	50				28,000		0.83				
-120T	0.45 - 4.05	12	21.5	120	80	26.5	37	M5 P0.8	25,000	NBC 4S-□	0.90				
-MEGA4S- 60T			13.0	60	23				35,000		0.80				
- 75T			15.4	75	35		32,000		0.82						
- 90T			18.0	90	50		28,000		0.85						
-105T			20.6	105	65		25,000		0.90						
-120T			23.3	120	80		22,000		0.93						
-135T			25.9	135	95		20,000		1.00						
-MEGA6S- 60T			0.4 - 6.05	14	15.4		60		23	28.5	37	M7 P0.75	35,000	NBC 6S-□	0.80
- 75T					17		75		35				32,000		0.83
- 90T					19.6		90		50		28,000		0.86		
-105T	22.2	105			65	25,000	0.90								
-120T	24.8	120			80	22,000	0.95								
-135T	27.5	135	95	20,000	1.00										

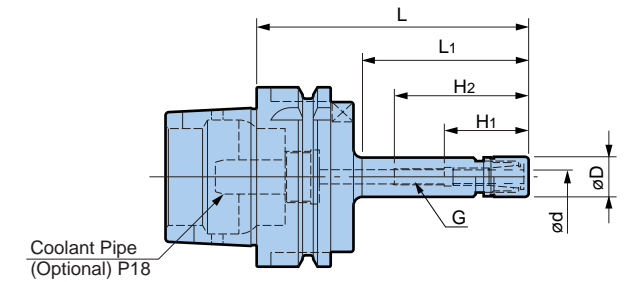
- Nut is included. Collet and wrench must be ordered separately.
- Coolant pipe to be ordered separately.
- For models with the mark of ※, there is no internal thread. The dimension, H₂, in () shows how deep a tool can be inserted.

- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories		Spare Parts	
MEGA MICRO CHUCK	Model	Model	Model
MEGA3S	MGR10	NBC3S-□	MGN3S
MEGA4S	MGR12	NBC4S-□	MGN4S
MEGA6S	MGR14	NBC6S-□	MGN6S



MAX 30,000 min⁻¹



Type S Form A (DIN 69893-1)

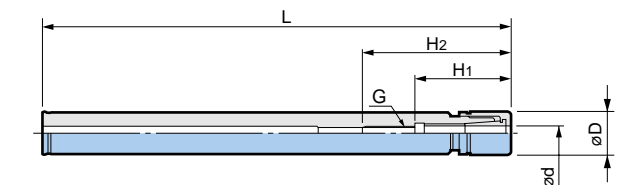
Model	$\varnothing d$	$\varnothing D$	L	L1	H1	H2	G	Max. min ⁻¹	Collet	Weight (kg)		
HSK-A40-MEGA3S- 60	0.45 - 3.25	10	60	25	22	39	M4 P0.7	30,000	NBC 3S-□	0.26		
-MEGA4S- 60	0.45 - 4.05	12	60	25	26.5	44	M5 P0.8	30,000	NBC 4S-□	0.26		
- 90			90	55		47		25,000		0.29		
-MEGA6S- 60 ※	0.45 - 6.05	14	60	26	28.5	(40)	-	30,000	NBC 6S-□	0.27		
- 90			90	56		49		M7 P0.75		25,000	0.30	
HSK-A50-MEGA3S- 75	0.45 - 3.25	10	75	35	22	38	M4 P0.7	30,000	NBC 3S-□	0.49		
-MEGA4S- 75	0.45 - 4.05	12	75	35	26.5	47	M5 P0.8	30,000	NBC 4S-□	0.50		
-MEGA6S- 75	0.45 - 6.05	14	75	35	28.5	49	M7 P0.75	30,000	NBC 6S-□	0.51		
HSK-A63-MEGA3S- 60	0.45 - 3.25	10	60	22	22	35	M4 P0.7	30,000	NBC 3S-□	0.80		
-MEGA4S- 75			75	35				26.5		48	30,000	NBC 4S-□
-105	0.45 - 4.05	12	105	60	26.5	47	M5 P0.8	25,000	NBC 4S-□	0.83		
-MEGA6S- 75			75	35		28.5		48		30,000	NBC 6S-□	0.82
-105			105	60		28.5		49		25,000	NBC 6S-□	0.85

- Nut is included. Collet and wrench must be ordered separately.
- Coolant pipe to be ordered separately.
- For models with the mark of ※, there is no internal thread. The dimension, H₂, in () shows how deep a tool can be inserted.

- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories		Spare Parts	
MEGA MICRO CHUCK	Model	Model	Model
MEGA3S	MGR10	NBC3S-□	MGN3S
MEGA4S	MGR12	NBC4S-□	MGN4S
MEGA6S	MGR14	NBC6S-□	MGN6S

Clamping Range : $\varnothing 0.45 - \varnothing 6.05$
STRAIGHT SHANK TYPE



Model	$\varnothing d$	$\varnothing D$	L	H1	H2	G	Collet	Weight (kg)
ST10-MEGA3S-120	0.45 - 3.25	10	120	22	38	M4 P0.7	NBC3S-□	0.06
ST12-MEGA4S-130	0.45 - 4.05	12	130	26.5	47	M5 P0.8	NBC4S-□	0.11
-160			160					0.13
ST14-MEGA6S-160	0.45 - 6.05	14	160	28.5	49	M7 P0.75	NBC6S-□	0.18
-200			200					0.21

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

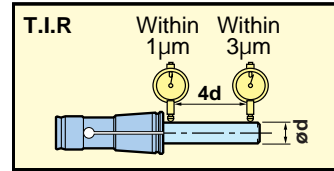
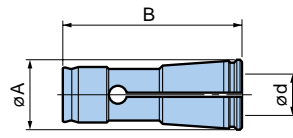
MEGA MICRO CHUCK PAT. for high speed

MEGA MICRO COLLET



Ultra Small High Precision Collet

Concentricity is better than 1 micron at the collet face.
This high precision is achieved by the innovative design of combining taper and straight body contact.



MEGA3S		Clamping Range ød	
Model			
NBC3S-0.5 AA	0.45 - 0.55		
-0.6 AA	0.55 - 0.65		
-0.7 AA	0.65 - 0.75		
-0.8 AA	0.75 - 0.85		
-0.9 AA	0.85 - 0.95		
-1.0 AA	0.95 - 1.05		
-1.1 AA	1.05 - 1.15		
-1.2 AA	1.15 - 1.25		
-1.3 AA	1.25 - 1.35		
-1.4 AA	1.35 - 1.45		
-1.5 AA	1.45 - 1.55		
-1.6 AA	1.55 - 1.65		
-1.7 AA	1.65 - 1.75		
-1.8 AA	1.75 - 1.85		
-1.9 AA	1.85 - 1.95		
-2.0 AA	1.95 - 2.05		
-2.1 AA	2.05 - 2.15		
-2.2 AA	2.15 - 2.25		
-2.3 AA	2.25 - 2.35		
-2.4 AA	2.35 - 2.45		
-2.5 AA	2.45 - 2.55		
-2.6 AA	2.55 - 2.65		
-2.7 AA	2.65 - 2.75		
-2.8 AA	2.75 - 2.85		
-2.9 AA	2.85 - 2.95		
-3.0 AA	2.95 - 3.05		
-3.1 AA	3.05 - 3.15		
-3.175AA	3.125 - 3.225		
-3.2 AA	3.15 - 3.25		

øA=ø6.06 B=18.8

MEGA4S		Clamping Range ød	
Model			
NBC4S-0.5 AA	0.45 - 0.55		
-0.6 AA	0.55 - 0.65		
-0.7 AA	0.65 - 0.75		
-0.8 AA	0.75 - 0.85		
-0.9 AA	0.85 - 0.95		
-1.0 AA	0.95 - 1.05		
-1.1 AA	1.05 - 1.15		
-1.2 AA	1.15 - 1.25		
-1.3 AA	1.25 - 1.35		
-1.4 AA	1.35 - 1.45		
-1.5 AA	1.45 - 1.55		
-1.6 AA	1.55 - 1.65		
-1.7 AA	1.65 - 1.75		
-1.8 AA	1.75 - 1.85		
-1.9 AA	1.85 - 1.95		
-2.0 AA	1.95 - 2.05		
-2.1 AA	2.05 - 2.15		
-2.2 AA	2.15 - 2.25		
-2.3 AA	2.25 - 2.35		
-2.4 AA	2.35 - 2.45		
-2.5 AA	2.45 - 2.55		
-2.6 AA	2.55 - 2.65		
-2.7 AA	2.65 - 2.75		
-2.8 AA	2.75 - 2.85		
-2.9 AA	2.85 - 2.95		
-3.0 AA	2.95 - 3.05		
-3.1 AA	3.05 - 3.15		
-3.175AA	3.125 - 3.225		
-3.2 AA	3.15 - 3.25		
-3.3 AA	3.25 - 3.35		
-3.4 AA	3.35 - 3.45		
-3.5 AA	3.45 - 3.55		
-3.6 AA	3.55 - 3.65		
-3.7 AA	3.65 - 3.75		
-3.8 AA	3.75 - 3.85		
-3.9 AA	3.85 - 3.95		
-4.0 AA	3.95 - 4.05		

øA=ø7.4 B=22.5

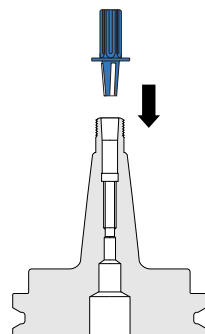
MEGA6S			
Model	Clamping Range ød	Model	Clamping Range ød
NBC6S-0.5 AA	0.45 - 0.55	NBC6S-4.1 AA	4.05 - 4.15
-0.6 AA	0.55 - 0.65	-4.2 AA	4.15 - 4.25
-0.7 AA	0.65 - 0.75	-4.3 AA	4.25 - 4.35
-0.8 AA	0.75 - 0.85	-4.4 AA	4.35 - 4.45
-0.9 AA	0.85 - 0.95	-4.5 AA	4.45 - 4.55
-1.0 AA	0.95 - 1.05	-4.6 AA	4.55 - 4.65
-1.1 AA	1.05 - 1.15	-4.7 AA	4.65 - 4.75
-1.2 AA	1.15 - 1.25	-4.7625AA	4.7125 - 4.8125
-1.3 AA	1.25 - 1.35	-4.8 AA	4.75 - 4.85
-1.4 AA	1.35 - 1.45	-4.9 AA	4.85 - 4.95
-1.5 AA	1.45 - 1.55	-5.0 AA	4.95 - 5.05
-1.6 AA	1.55 - 1.65	-5.1 AA	5.05 - 5.15
-1.7 AA	1.65 - 1.75	-5.2 AA	5.15 - 5.25
-1.8 AA	1.75 - 1.85	-5.3 AA	5.25 - 5.35
-1.9 AA	1.85 - 1.95	-5.4 AA	5.35 - 5.45
-2.0 AA	1.95 - 2.05	-5.5 AA	5.45 - 5.55
-2.1 AA	2.05 - 2.15	-5.6 AA	5.55 - 5.65
-2.2 AA	2.15 - 2.25	-5.7 AA	5.65 - 5.75
-2.3 AA	2.25 - 2.35	-5.8 AA	5.75 - 5.85
-2.4 AA	2.35 - 2.45	-5.9 AA	5.85 - 5.95
-2.5 AA	2.45 - 2.55	-6.0 AA	5.95 - 6.05

øA=ø9.4 B=24.5

Inside Taper Cleaner of Collet Chucks

α TAPER CLEANER

Maintain the Precision of Collet Chucks.



Model	Chuck Model
SC-NBC3S	MEGA3S
SC-NBC4S	MEGA4S
SC-NBC6S	MEGA6S

Form A MEGA NEW BABY CHUCK PAT. for high speed

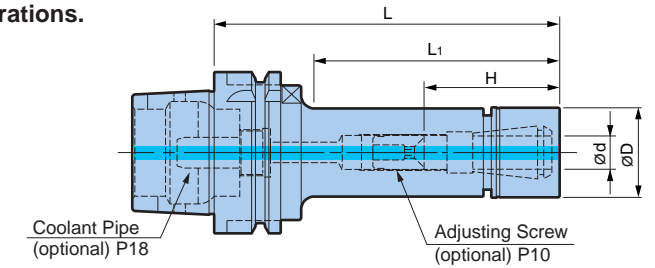
Clamping Range: ø0.25 - ø20



The Body, Collet, Nut and Wrench are specifically designed to be ideal for high speed operations.

MAX 35,000 min⁻¹

Coolant-through hole



Form A (DIN 69893-1)

Model	ød	øD	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)			
HSK-A40-MEGA 6N- 60	0.25- 6	20	60	29.5	33	35,000	NBC 6-□	0.31			
- 75			75	44.5	23 - 38	30,000		0.34			
- 90			90	59.5	23 - 43	30,000		0.37			
-MEGA 8N- 60	0.5 - 8	25	60	30.5	41	35,000	NBC 8-□	0.35			
- 75			75	45.5	26 - 38	30,000		0.39			
- 90			90	60.5	26 - 44	30,000		0.44			
-MEGA10N- 60	1.5 - 10	30	60	32	40	35,000	NBC10-□	0.42			
- 75			75	47	55	30,000		0.49			
- 90			90	60	38 - 48	30,000		0.56			
-MEGA13N- 75	2.5 - 13	35	75	55	55	25,000	NBC13-□	0.55			
- 90			90	70	64	25,000		0.64			
-MEGA16N- 75			2.5 - 16	42	75	55		53	20,000	NBC16-□	0.65
- 90	90	70			63	15,000	0.78				
-MEGA20N- 90	2.5 - 20	46			90	70	66	15,000	NBC20-□		0.86
HSK-A50-MEGA 6N- 60			0.25- 6	20	60	26	35	35,000		NBC 6-□	0.5
- 75					75	34	30,000	0.6			
-100	100	59			25,000	0.6					
-120	120	79			23 - 43	23,000	0.7				
-135	135	94			20,000	0.7					
-165	165	122			15,000	0.8					
-MEGA 8N- 60	0.5 - 8	25	60	26	34	35,000	NBC 8-□	0.5			
- 75			75	37	26 - 37	30,000		0.6			
-100			100	59	28,000	0.7					
-120			120	79	25,000	0.8					
-135			135	94	20,000	0.8					
-165			165	124	15,000	0.9					
-MEGA10N- 60	1.5 - 10	30	60	26	35	35,000	NBC10-□	0.6			
- 75			75	36	46	33,000		0.7			
-100			100	61	25,000	0.8					
-120			120	81	38 - 48	20,000		0.9			
-135			135	96	20,000	1.0					
-165			165	126	15,000	1.1					
-MEGA13N- 65	2.5 - 13	35	65	29.8	39	30,000	NBC13-□	0.7			
- 75			75	38	46	28,000		0.7			
-100			100	63	44 - 56	25,000		0.9			
-120			120	83	20,000	1.0					
-135			135	98	44 - 73	18,000		1.1			
-165			165	128	15,000	1.4					
-MEGA16N- 75	2.5 - 16	42	75	49	48	28,000	NBC16-□	1.0			
-100			100	72	48 - 55	20,000		1.1			
-120			120	92	15,000	1.3					
-135			135	109	48 - 68	10,000		1.4			
-165			165	137	10,000	1.7					
-MEGA20N- 75			2.5 - 20	46	75	49		69	20,000	NBC20-□	0.9
-100	100	74			15,000	1.3					
-120	120	94			13,000	1.6					
-135	135	109			10,000	1.8					
-165	165	139			8,000	2.2					

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

2. Coolant pipe to be ordered separately.

3. Adjusting screws can not be used with ※ marked models.

H "max" is the maximum tool shank length that can be inserted into the holder.

4. Maximum operating speeds are directly influenced by the rigidity of the machine.

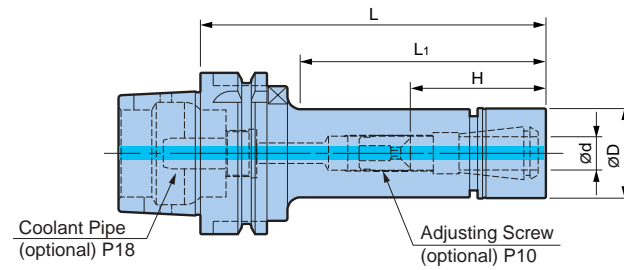
Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

For ACCESSORIES and SPARE PARTS P10



MAX
35,000
min⁻¹

Coolant-through hole



Form A (DIN 69893-1)

Model	ød	øD	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-A63-MEGA 6N- 75	0.25 - 6	20	75	35	23 - 38	35,000	NBC 6- □	0.9
- 90			90	51		30,000		0.9
-105			105	66		30,000		0.9
-120			120	81		25,000		1.0
-135			135	96		20,000		1.0
-165			165	126		15,000		1.0
-MEGA 8N- 75	0.5 - 8	25	75	38	26 - 38	35,000	NBC 8- □	0.9
- 90			90	51		30,000		1.0
-105			105	66		30,000		1.0
-120			120	81		25,000		1.1
-135			135	96		20,000		1.1
-165			165	126		15,000		1.2
-MEGA10N- 75 ※	1.5 - 10	30	75	38	38 - 45	33,000	NBC10- □	1.0
- 90			90	51		33,000		1.0
-105			105	66		25,000		1.1
-120			120	81		25,000		1.2
-135			135	96		20,000		1.3
-165			165	126		15,000		1.4
-MEGA13N- 75 ※	2.5 - 13	35	75	39	49	30,000	NBC13- □	1.0
- 90 ※			90	51		30,000		1.1
-105			105	66		25,000		1.2
-120			120	81		20,000		1.3
-135			135	96		20,000		1.4
-165			165	126		15,000		1.7
-MEGA16N- 75 ※	2.5 - 16	42	75	39	48	30,000	NBC16- □	1.1
- 90 ※			90	53		25,000		1.3
-105			105	68		20,000		1.4
-120			120	83		15,000		1.5
-135			135	98		15,000		1.7
-165			165	128		10,000		2.0
-200	200	163	8,000	2.4				
-MEGA20N- 75 ※	2.5 - 20	46	75	39	51	30,000	NBC20- □	1.2
- 90 ※			90	53		25,000		1.4
-105			105	68		20,000		1.5
-120			120	83		15,000		1.7
-135			135	98		15,000		1.8
-165			165	128		10,000		2.3
-200	200	163	8,000	2.7				

1. Nut is included. Adjusting screw, collet and wrench must be ordered separately.
 2. Coolant pipe to be ordered separately.
 3. Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.

4. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Model	ød	øD	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-A100-MEGA 6N- 90	0.25 - 6	20	90	48	23 - 43	20,000	NBC 6- □	2.5
-105			105	63		18,000		2.5
-120			120	78		18,000		2.5
-135			135	93		14,000		2.5
-165			165	123		12,000		2.6
-MEGA 8N- 90			0.5 - 8	25		90		48
-105	105	63			18,000	2.6		
-120	120	78			18,000	2.6		
-135	135	93			14,000	2.7		
-165	165	123			14,000	2.7		
-MEGA10N- 90	1.5 - 10	30			90	48	38 - 45	20,000
-105			105	63	18,000	2.7		
-120			120	78	18,000	2.7		
-135			135	93	14,000	2.8		
-165			165	123	14,000	3.0		
-MEGA13N- 90 ※			2.5 - 13	35	90	48		55
-105 ※	105	63			16,000	2.8		
-120	120	78			16,000	2.9		
-135	135	93			14,000	3.0		
-165	165	123			14,000	3.2		
-200	200	158			10,000	3.5		
-MEGA16N- 90 ※	2.5 - 16	42	90	48	55	15,000	NBC16- □	2.8
-105 ※			105	63		14,000		2.9
-120			120	78		14,000		3.1
-135			135	93		13,000		3.2
-165			165	123		13,000		3.6
-200			200	158		10,000		4.0
-MEGA20N- 90 ※	2.5 - 20	46	90	48	55	15,000	NBC20- □	2.9
-105 ※			105	63		14,000		3.0
-120			120	78		14,000		3.2
-135			135	93		13,000		3.3
-165			165	123		13,000		3.8
-200			200	158		10,000		4.3

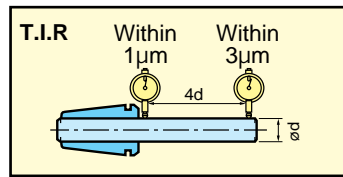
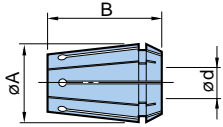
1. Nut is included. Adjusting screw, collet and wrench must be ordered separately.
 2. Coolant pipe to be ordered separately.
 3. Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
 4. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories								Spare Parts		
MEGA WRENCH	COLLET	SEALING NUT MEGA PERFECT SEAL	ADJUSTING SCREW	Rubber			MEGA NUT			
Model	Model	Model	Model	G	L	B	Model			
MEGA 6N	MGR20	NBC 6- □	MPS 6- □	NBA 6B	M 7	12	2	MGN 6		
MEGA 8N	MGR25	NBC 8- □	MPS 8- □	NBA 8B	M 9	13	2.5	MGN 8		
MEGA10N	MGR30	NBC10- □	MPS10- □	NBA10B	M11	16	3	MGN10		
MEGA13N	MGR35	NBC13- □	MPS13- □	NBA13B	M14	20	4	MGN13		
MEGA16N	MGR42	NBC16- □	MPS16- □	NBA16B	M18	20	4	MGN16		
MEGA20N	MGR46	NBC20- □	MPS20- □	NBA20B	M21	20	4	MGN20		

NEW BABY COLLET



BIG New Baby Collet is world renowned for its unmatched accuracy and precision. It offers runout accuracy of 1 micron T.I.R. at the collet nose.



MEGA6N	
Model	Clamping Range ød
NBC 6-0.5 AA	0.25 - 0.50
-0.75AA	0.50 - 0.75
-1 AA	0.75 - 1.00
-1.25AA	1.00 - 1.25
-1.5 AA	1.25 - 1.50
-1.75AA	1.50 - 1.75
-2 AA	1.75 - 2.00
-2.25AA	2.00 - 2.25
-2.5 AA	2.25 - 2.50
-2.75AA	2.50 - 2.75
-3 AA	2.75 - 3.00
-3.175AA	2.925 - 3.175
-3.25AA	3.00 - 3.25
-3.5 AA	3.25 - 3.50
-3.75AA	3.50 - 3.75
-4 AA	3.75 - 4.00
-4.25AA	4.00 - 4.25
-4.5 AA	4.25 - 4.50
-4.75AA	4.50 - 4.75
-5 AA	4.75 - 5.00
-5.25AA	5.00 - 5.25
-5.5 AA	5.25 - 5.50
-5.75AA	5.50 - 5.75
-6 AA	5.75 - 6.00

øA=9.5 B=14

MEGA13N	
Model	Clamping Range ød
NBC13- 3 AA	2.5 - 3.0
- 3.175AA	2.925-3.175
- 3.5 AA	3.0 - 3.5
- 4 AA	3.5 - 4.0
- 4.5 AA	4.0 - 4.5
- 5 AA	4.5 - 5.0
- 5.5 AA	5.0 - 5.5
- 6 AA	5.5 - 6.0
- 6.5 AA	6.0 - 6.5
- 7 AA	6.5 - 7.0
- 7.5 AA	7.0 - 7.5
- 8 AA	7.5 - 8.0
- 8.5 AA	8.0 - 8.5
- 9 AA	8.5 - 9.0
- 9.5 AA	9.0 - 9.5
-10 AA	9.5 - 10.0
-10.5 AA	10.0 - 10.5
-11 AA	10.5 - 11.0
-11.5 AA	11.0 - 11.5
-12 AA	11.5 - 12.0
-12.5 AA	12.0 - 12.5
-13 AA	12.5 - 13.0

øA=20.5 B=31

MEGA8N	
Model	Clamping Range ød
NBC 8-1 AA	0.5 - 1.0
-1.5 AA	1.0 - 1.5
-2 AA	1.5 - 2.0
-2.5 AA	2.0 - 2.5
-3 AA	2.5 - 3.0
-3.175AA	2.925 - 3.175
-4 AA	3.0 - 3.5
-4.5 AA	3.5 - 4.0
-5 AA	4.0 - 4.5
-5.5 AA	4.5 - 5.0
-6 AA	5.0 - 5.5
-6.5 AA	5.5 - 6.0
-7 AA	6.0 - 6.5
-7.5 AA	6.5 - 7.0
-8 AA	7.0 - 7.5

øA=12.5 B=18

MEGA16N	
Model	Clamping Range ød
NBC16- 3 AA	2.5 - 3.0
- 3.5AA	3.0 - 3.5
- 4 AA	3.5 - 4.0
- 4.5AA	4.0 - 4.5
- 5 AA	4.5 - 5.0
- 5.5AA	5.0 - 5.5
- 6 AA	5.5 - 6.0
- 6.5AA	6.0 - 6.5
- 7 AA	6.5 - 7.0
- 7.5AA	7.0 - 7.5
- 8 AA	7.5 - 8.0
- 8.5AA	8.0 - 8.5
- 9 AA	8.5 - 9.0
- 9.5AA	9.0 - 9.5
-10 AA	9.5 - 10.0
-10.5AA	10.0 - 10.5
-11 AA	10.5 - 11.0
-11.5AA	11.0 - 11.5
-12 AA	11.5 - 12.0
-12.5AA	12.0 - 12.5
-13 AA	12.5 - 13.0
-13.5AA	13.0 - 13.5
-14 AA	13.5 - 14.0
-14.5AA	14.0 - 14.5
-15 AA	14.5 - 15.0
-15.5AA	15.0 - 15.5
-16 AA	15.5 - 16.0

øA= 25.5 B= 35

MEGA10N	
Model	Clamping Range ød
NBC10- 2 AA	1.5 - 2.0
- 2.5 AA	2.0 - 2.5
- 3 AA	2.5 - 3.0
- 3.175AA	2.925 - 3.175
- 3.5 AA	3.0 - 3.5
- 4 AA	3.5 - 4.0
- 4.5 AA	4.0 - 4.5
- 5 AA	4.5 - 5.0
- 5.5 AA	5.0 - 5.5
- 6 AA	5.5 - 6.0
- 6.5 AA	6.0 - 6.5
- 7 AA	6.5 - 7.0
- 7.5 AA	7.0 - 7.5
- 8 AA	7.5 - 8.0
- 8.5 AA	8.0 - 8.5
- 9 AA	8.5 - 9.0
- 9.5 AA	9.0 - 9.5
-10 AA	9.5 - 10.0

øA=16.5 B=27

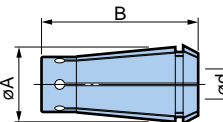
MEGA20N	
Model	Clamping Range ød
NBC20- 3 AA	2.5 - 3.0
- 3.5AA	3.0 - 3.5
- 4 AA	3.5 - 4.0
- 4.5AA	4.0 - 4.5
- 5 AA	4.5 - 5.0
- 5.5AA	5.0 - 5.5
- 6 AA	5.5 - 6.0
- 6.5AA	6.0 - 6.5
- 7 AA	6.5 - 7.0
- 7.5AA	7.0 - 7.5
- 8 AA	7.5 - 8.0
- 8.5AA	8.0 - 8.5
- 9 AA	8.5 - 9.0
- 9.5AA	9.0 - 9.5
-10 AA	9.5 - 10.0
-10.5AA	10.0 - 10.5
-11 AA	10.5 - 11.0
-11.5AA	11.0 - 11.5
-12 AA	11.5 - 12.0
-12.5AA	12.0 - 12.5
-13 AA	12.5 - 13.0
-13.5AA	13.0 - 13.5
-14 AA	13.5 - 14.0
-14.5AA	14.0 - 14.5
-15 AA	14.5 - 15.0
-15.5AA	15.0 - 15.5
-16 AA	15.5 - 16.0
-16.5AA	16.0 - 16.5
-17 AA	16.5 - 17.0
-17.5AA	17.0 - 17.5
-18 AA	17.5 - 18.0
-18.5AA	18.0 - 18.5
-19 AA	18.5 - 19.0
-19.5AA	19.0 - 19.5
-20 AA	19.5 - 20.0

øA= 28.5 B= 38

NEW BABY ENDMILL COLLET



For ENDMILL



The tolerance of a tool shank must be less than h7.

MEGA6N	
Model	ød
NBC 6-3E AA	3.0
-4E AA	4.0
-5E AA	5.0
-6E AA	6.0

øA=9.2 B=17

MEGA13N	
Model	ød
NBC13- 3E AA	3.0
- 4E AA	4.0
- 5E AA	5.0
- 6E AA	6.0
- 8E AA	8.0
-10E AA	10.0
-12E AA	12.0

øA=20 B=38

MEGA8N	
Model	ød
NBC 8-3E AA	3.0
-4E AA	4.0
-5E AA	5.0
-6E AA	6.0
-8E AA	8.0

øA=12 B=20

MEGA16N	
Model	ød
NBC16- 3E AA	3.0
- 4E AA	4.0
- 5E AA	5.0
- 6E AA	6.0
- 8E AA	8.0
-10E AA	10.0
-12E AA	12.0
-14E AA	14.0
-16E AA	16.0

øA=25 B=42

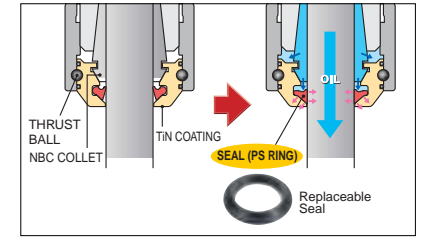
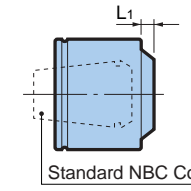
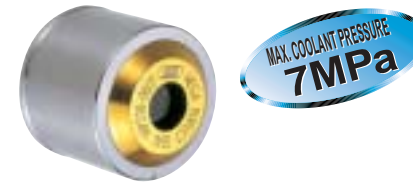
MEGA10N	
Model	ød
NBC10- 3E AA	3.0
- 4E AA	4.0
- 5E AA	5.0
- 6E AA	6.0
- 8E AA	8.0
-10E AA	10.0

øA=16 B=32

MEGA20N	
Model	ød
NBC20- 3E AA	3.0
- 4E AA	4.0
- 5E AA	5.0
- 6E AA	6.0
- 8E AA	8.0
-10E AA	10.0
-12E AA	12.0
-14E AA	14.0
-16E AA	16.0
-20E AA	20.0

øA=28 B=45

MEGA PERFECT SEAL PAT. Sealed collet nut for coolant-through tools



Reliable coolant supply to the tool tip!

Unique design increases sealing performance with higher coolant pressure to create a "perfect seal".

2way coolant



Model	Cutter Shank Dia.	L1	Collet Model	Model	Cutter Shank Dia.	L1	Collet Model	
MPS 6-03035	3 - 3.5	2.3	NBC 6-3 - 3.75	MPS16-03035	3 - 3.5	4.0	NBC16-3 - 4	
-0304	3 - 4		-3 - 4.25	-0304	3 - 4		-3 - 4.5	
-04045	4 - 4.5		-4 - 4.75	-04045	4 - 4.5		-4 - 5	
-0405	4 - 5		-4 - 5.25	-0405	4 - 5		-4 - 5.5	
-05055	5 - 5.5		-5 - 5.75	-05055	5 - 5.5		-5 - 6	
-0506	5 - 6		-5 - 6	-0506	5 - 6		-5 - 6.5	
MPS 8-03035	3 - 3.5	3.9	NBC 8-3 - 4	-06065	6 - 6.5	4.3	-6 - 7	
-0304	3 - 4		-3 - 4.5	-0607	6 - 7		-6 - 7.5	
-04045	4 - 4.5		-4 - 5	-07075	7 - 7.5		-7 - 8	
-0405	4 - 5		-4 - 5.5	-0708	7 - 8		-7 - 8.5	
-05055	5 - 5.5		-5 - 6	-08085	8 - 8.5		-8 - 9	
-0506	5 - 6		-5 - 6.5	-0809	8 - 9		-8 - 9.5	
MPS 10-03035	3 - 3.5	3.4	NBC 10-3 - 4	-09095	9 - 9.5	4.6	-9 - 10	
-0304	3 - 4		-3 - 4.5	-0910	9 - 10		-9 - 10.5	
-04045	4 - 4.5		-4 - 5	-10105	10 - 10.5		-10 - 11	
-0405	4 - 5		-4 - 5.5	-11115	11 - 11.5		-11 - 12	
-05055	5 - 5.5		-5 - 6	-1112	11 - 12		-11 - 12.5	
-0506	5 - 6		-5 - 6.5	-12125	12 - 12.5		-12 - 13	
MPS 13-03035	3 - 3.5	4.3	NBC 13-3 - 4	-1213	12 - 13	4.1	-12 - 13.5	
-0304	3 - 4		-3 - 4.5	-1314	13 - 14		-13 - 14.5	
-04045	4 - 4.5		-4 - 5	-1415	14 - 15		-14 - 15.5	
-0405	4 - 5		-4 - 5.5	-1516	15 - 16		-15 - 16	
-05055	5 - 5.5		-5 - 6	MPS20-03035	3 - 3.5		4.0	NBC20-3 - 4
-0506	5 - 6		-5 - 6.5	-0304	3 - 4			-3 - 4.5
-06065	6 - 6.5	-6 - 7	-04045	4 - 4.5	-4 - 5			
-0607	6 - 7	-6 - 7.5	-0405	4 - 5	-4 - 5.5			
-07075	7 - 7.5	-7 - 8	-05055	5 - 5.5	-5 - 6			
-0708	7 - 8	-7 - 8	-0506	5 - 6	-5 - 6.5			
MPS 20-03035	3 - 3.5	4.3	NBC 20-3 - 4	-06065	6 - 6.5	4.6	-6 - 7	
-0304	3 - 4		-3 - 4.5	-0607	6 - 7		-6 - 7.5	
-04045	4 - 4.5		-4 - 5	-07075	7 - 7.5		-7 - 8	
-0405	4 - 5		-4 - 5.5	-0708	7 - 8		-7 - 8.5	
-05055	5 - 5.5		-5 - 6	-08085	8 - 8.5		-8 - 9	
-0506	5 - 6		-5 - 6.5	-0809	8 - 9		-8 - 9.5	
MPS 16-03035	3 - 3.5	4.3	NBC 16-3 - 4	-09095	9 - 9.5	5.1	-9 - 10	
-0304	3 - 4		-3 - 4.5	-0910	9 - 10		-9 - 10.5	
-04045	4 - 4.5		-4 - 5	-10105	10 - 10.5		-10 - 11	
-0405	4 - 5		-4 - 5.5	-1011	10 - 11		-10 - 11.5	
-05055	5 - 5.5		-5 - 6	-11115	11 - 11.5		-11 - 12	
-0506	5 - 6		-5 - 6.5	-1112	11 - 12		-11 - 12.5	
MPS 8-03035	3 - 3.5	4.3	NBC 8-3 - 4	-12125	12 - 12.5	4.6	-12 - 13	
-0304	3 - 4		-3 - 4.5	-1314	13 - 14		-13 - 14.5	
-04045	4 - 4.5		-4 - 5	-1415	14 - 15		-14 - 15.5	
-0405	4 - 5		-4 - 5.5	-1516	15 - 16		-15 - 16.5	
-05055	5 - 5.5		-5 - 6	-1617	16 - 17		-16 - 17.5	
-0506	5 - 6		-5 - 6.5	-1718	17 - 18		-17 - 18.5	
MPS 10-03035	3 - 3.5	4.3	NBC 10-3 - 4	-1819	18 - 19	4.6	-18 - 19.5	
-0304	3 - 4		-3 - 4.5	-1920	19 - 20		-19 - 20	
-04045	4 - 4.5		-4 - 5					
-0405	4 - 5		-4 - 5.5					
-05055	5 - 5.5		-5 - 6					
-0506	5 - 6		-5 - 6.5					

- 1 pce. of PS Ring is included.
- To supply coolant to the periphery of the cutting tool, Adjusting Screw should not be mounted.

PS RING



- Replaceable seal is installed in MEGA PERFECT SEAL (Spare seal is recommended when coolant leaks due to damage of PS Ring.)

Model	MPS Model	Model	MPS Model	Model	MPS Model
PS-0304	MPS □-03035,0304	PS-0809	MPS □-08085,0809	PS-1314	MPS □-1314
0405	04045,0405	0910	09095,0910	1415	1415
0506	05055,0506	1011	10105,1011	1516	1516
0607	06065,0607	1112	11115,1112	1617	1617
0708	07075,0708	1213	12125,1213	1718	1718
				1819	1819
				1920	1920

1 package contains 5 pcs. (1 size).

COLLET EJECTOR PAT.P

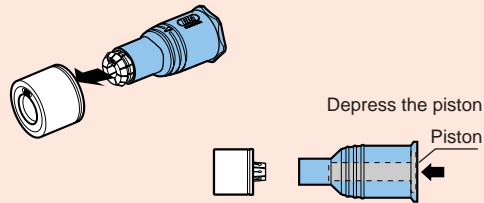
Collet Ejector can easily and quickly remove New Baby Collets from Mega Nuts.



Model	Nut	Collet
NBC 6-CE	MGN 6	NBC 6
NBC 8-CE	MGN 8	NBC 8
NBC10-CE	MGN10	NBC10
NBC13-CE	MGN13	NBC13

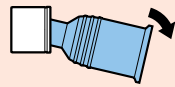
● HOW TO ASSEMBLE A COLLET

1. Insert the collet into the Collet Ejector. Then insert it into the nut and depress the piston.

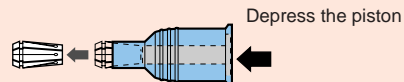


● HOW TO REMOVE A COLLET

1. Tilt the Collet Ejector as shown in the picture to remove the collet from the nut.



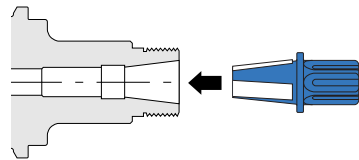
2. Finally, depress the piston and the collet will be removed.



Inside Taper Cleaner of Collet Chucks

α TAPER CLEANER

Maintain the Precision of Collet Chucks.



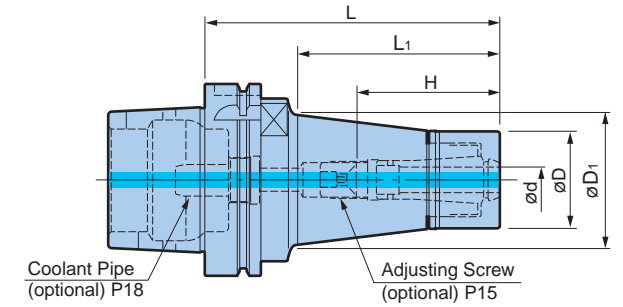
Model	Chuck Model
SC-NBC 6	MEGA 6N
SC-NBC 8	MEGA 8N
SC-NBC10	MEGA10N
SC-NBC13	MEGA13N
SC-NBC16	MEGA16N
SC-NBC20	MEGA20N

Collet chuck designed exclusively for endmilling with high concentricity and rigidity.



MAX 35,000 min⁻¹

Coolant-through hole



Form A (DIN 69893-1)

Model	ød	øD	ød1	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)	
HSK-A40-MEGA 6E- 60 ※	3 - 6	25	25.6	60	24	41	35,000	MEC 6- □	0.39	
- 75 ※			28.2	75	39	55	35,000		0.45	
- 90			28.3	90	54	37 - 45	25,000		0.52	
-MEGA 8E- 65 ※	3 - 8	30	33.6	65	30	44	35,000	MEC 8- □	0.46	
- 75 ※			33.6	75	40	54	30,000		0.51	
- 90			33.6	90	55	42 - 51	25,000		0.61	
-MEGA 10E- 70 ※	3 - 10	35	35	70	35	48	30,000	MEC10- □	0.52	
- 90			35	90	55	48 - 52	25,000		0.67	
-MEGA 13E- 70 ※			42	70	35	50	30,000		0.62	
- 90 ※	42	90	55	67	25,000	0.81				
HSK-A50-MEGA 6E- 75	3 - 6	25	28.5	75	35	55	30,000	MEC 6- □	0.6	
-100			32.8	100	63	37 - 45	28,000		0.8	
-MEGA 8E- 75 ※	3 - 8	30	33.2	75	38	42	30,000	MEC 8- □	0.7	
-100			36.2	100	56	42 - 51	28,000		0.9	
-MEGA 10E- 75 ※	3 - 10	35	38.1	75	39.5	48	30,000	MEC10- □	0.8	
-100			39.8	100	56	48 - 58	25,000		0.9	
-MEGA 13E- 75 ※	3 - 12	42	-	75	49	50	30,000	MEC13- □	0.9	
-100			-	100	74	50 - 55	25,000		1.1	
HSK-A63-MEGA 6E- 65 ※	3 - 6	25	26.2	65	28	45	30,000	MEC 6- □	0.9	
- 90			30	90	50	37 - 45			29,000	1.0
-105			32.6	105	65				27,000	1.1
-120			35.3	120	80				1.2	
-135			37.9	135	95				1.4	
-MEGA 8E- 67 ※	3 - 8	30	31.3	67	30	45	30,000	MEC 8- □	0.9	
- 90 ※			34.8	90	50	42 - 51			29,000	1.1
-105			37.6	105	66				28,000	1.2
-120			40.4	120	82				27,000	1.4
-135			43.2	135	98				1.6	
-MEGA 10E- 75 ※	3 - 10	35	37.4	75	37	48	30,000	MEC10- □	1.1	
- 90 ※			40	90	52	64			1.2	
-105			42.8	105	68	48 - 58			29,000	1.4
-120			43.3	120	83				28,000	1.5
-135			42.8	135	98				27,000	1.7
-MEGA 13E- 75 ※	3 - 12	42	43	75	31	49	30,000	MEC13- □	1.2	
- 90 ※			44.8	90	45	64			1.4	
-105			45.7	105	60	50 - 57			29,000	1.6
-120			47.3	120	76				28,000	1.8
-135			46.6	135	91				26,000	1.9

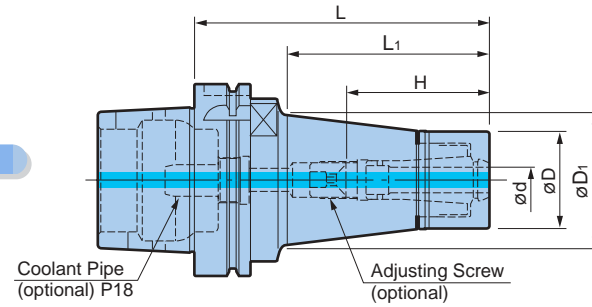
1. Nut is included. Adjusting screw, collet and wrench must be ordered separately.
 2. Coolant pipe to be ordered separately.
 3. Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.

4. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.



MAX
24,000
min⁻¹

Coolant-through hole



Model	ød	øD	øD1	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-A100-MEGA 6E- 75 ※	3 - 6	25	27.4	75	33	46	24,000	MEC 6- □	2.5
- 90			29.5	90	48	37 - 45	20,000		2.6
-105			32.1	105	63		18,000		2.7
-120			34.7	120	78		14,000		2.8
-135			37.4	135	93				2.9
-165			42.6	165	122		3.2		
-MEGA 8E- 75 ※	3 - 8	30	32.1	75	33	46	24,000	MEC 8- □	2.5
- 90			34.2	90	48	42 - 51	20,000		2.6
-105			36.9	105	63		18,000		2.8
-120			39.5	120	78		16,000		2.9
-135			42.1	135	93				3.1
-165			47.4	165	123		3.4		
-MEGA 10E- 80 ※	3 - 10	35	37.4	80	38	51	22,000	MEC10- □	2.6
- 90			39.1	90	48	48 - 58	20,000		2.7
-105			41.8	105	63		18,000		2.9
-120			44.4	120	78		16,000		3.1
-135			47	135	93				3.3
-165			52.3	165	123		3.7		
-MEGA 13E- 82 ※	3 - 12	42	44.4	82	40	53	20,000	MEC13- □	2.8
- 90			45.8	90	48	50 - 68	18,000		2.9
-105			48.5	105	63		16,000		3.1
-120			51.1	120	78				3.3
-135			53.7	135	93				3.6
-165			59	165	123		4.2		

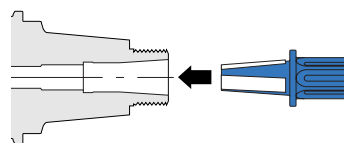
- Nut is included. Adjusting screw, collet and wrench must be ordered separately.
- Coolant pipe to be ordered separately.
- Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories							Spare Parts	
MEGA WRENCH	COLLET	ADJUSTING SCREW	Rubber				MEGA E NUT	
MEGA E CHUCK	Model	Model	Model	G	L	B(mm)	Model	
MEGA 6E	MGR25	MEC 6- □	NBA 6B	M 7	12	2	MEN 6	
MEGA 8E	MGR30	MEC 8- □	NBA 8B	M 9	13	2.5	MEN 8	
MEGA10E	MGR35	MEC10- □	NBA10B	M11	16	3	MEN10	
MEGA13E	MGR42	MEC13- □	NBA13B	M14	20	4	MEN13	

Inside Taper Cleaner of Collet Chucks

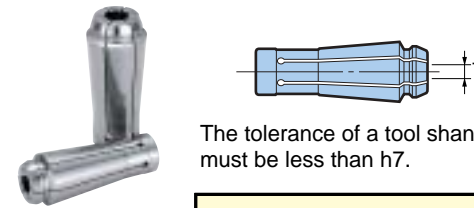
α TAPER CLEANER

Maintain the Precision of Collet Chucks.

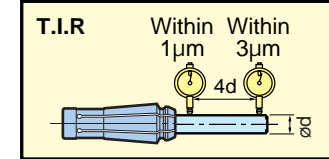


Model	Chuck Model
SC-MEC 6	MEGA 6E
SC-MEC 8	MEGA 8E
SC-MEC10	MEGA10E
SC-MEC13	MEGA13E

MEGA E COLLET

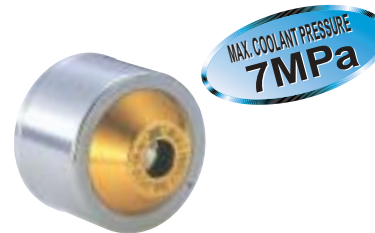


The tolerance of a tool shank must be less than h7.



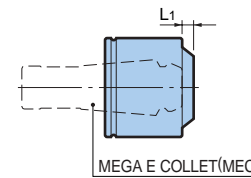
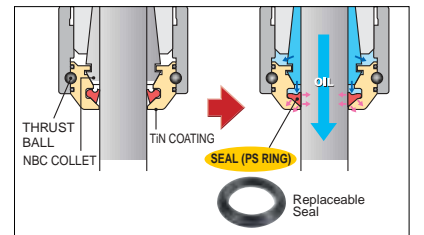
ød	MEGA6E	MEGA8E	MEGA10E	MEGA13E
	Model	Model	Model	Model
3.0	MEC6-3AA	MEC8-3AA	MEC10- 3AA	MEC13- 3AA
4.0	-4AA	-4AA	- 4AA	- 4AA
5.0	-5AA	-5AA	- 5AA	- 5AA
6.0	-6AA	-6AA	- 6AA	- 6AA
7.0		-7AA	- 7AA	- 7AA
8.0		-8AA	- 8AA	- 8AA
9.0			- 9AA	- 9AA
10.0			-10AA	-10AA
11.0				-11AA
12.0				-12AA

MEGA PERFECT SEAL PAT. Sealed collet nut for coolant-through tools



Reliable coolant supply to the tool tip!

Unique design increases sealing performance with higher coolant pressure to create a "perfect seal".



Model	L1	Cutter Shank Dia.	Collet Model	Model	L1	Cutter Shank Dia.	Collet Model
EPS 6-03	5.6	3	MEC 6-3	EPS13-03	6.4	3	MEC13-3
-04		4	-4	-04		4	-4
-05	5.2	5	-5	-05	6	5	-5
-06		6	-6	-06		6	-6
EPS 8-03	6.4	3	MEC 8-3	-07	6.3	7	-7
-04		4	-4	-08		8	-8
-05	6	5	-5	-09	6.5	9	-9
-06		6	-6	-10		10	-10
-07	5.6	7	-7	-11	6.2	11	-11
-08		8	-8	-12		12	-12
EPS10-03	6.4	3	MEC10-3				
-04		4	-4				
-05	6	5	-5				
-06		6	-6				
-07	6.3	7	-7				
-08		8	-8				
-09	5.7	9	-9				
-10		10	-10				

- 1 pce. of PS Ring is included.
- To supply coolant to the periphery of the cutting tool, Adjusting Screw should not be mounted.



(PS RING)



- Replaceable seal is installed in MEGA PERFECT SEAL (Spare seal is recommended when coolant leaks due to damage of PS Ring.)

Model	EPS Model	Model	EPS Model
PS-0304	EPS □ -03	PS-0809	EPS □ -08
-0405	-04	-0910	-09
-0506	-05	-1011	-10
-0607	-06	-1112	-11
-0708	-07	-1213	-12

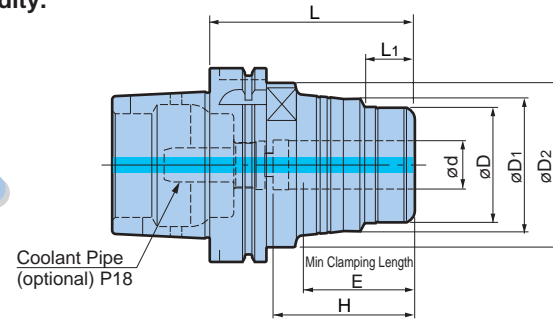
1 package contains 5 pcs. (1 size).

Close to integral rigidity and precision of a solid toolholder.
Flange contacting nut assures highest rigidity.



MAX 28,000 min⁻¹

Coolant-through hole



Type D Form A (DIN 69893-1)

Model	$\varnothing d$	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	L	L1	H	Min Clamping Length E	Max. min ⁻¹	Weight (kg)
HSK-A 40-MEGA16D- 80	16	46	-	-	80	27	61	51	12,000	0.75
HSK-A 50-MEGA16D- 85	16	46	-	-	85	27	62	51	25,000	1.0
MEGA20D- 85	20	50	-	-	86	32	63		20,000	1.05
HSK-A 63-MEGA16D- 80	16	46	55	-	80	23.5	55	48	28,000	1.4
- 90					90		65	28,000	1.6	
-105					105		71	53	26,000	1.9
-135					135		71	53	22,000	2.4
-165					165		71	53	22,000	2.9
-MEGA20D- 90	20	55	55.7	-	90	34.7	65	56	28,000	1.7
-105					105		80	26,000	1.6	
-120					120		85	56	25,000	2.2
-135					135		85	56	20,000	2.5
-165					165		85	56	22,000	3.1
-MEGA25D-100	25	62	62.7	-	100	34.4	75	65	24,000	2.0
-135					135		80	20,000	2.8	
-MEGA32D-105					32		70	70.7	-	105
-135	135	90	71	20,000		2.9				
HSK-A100-MEGA16D-105	16	46	55	63	105	23.5	71	53	18,000	3.5
-135					135				16,000	4.1
-165					165				12,000	4.7
-MEGA20D-105					20				60	69
-135	135	16,000	5.0							
-165	165	15,000	5.9							
-MEGA25D-105	25	70	77	85	105	31.9	73	65	18,000	4.5
-135					135				16,000	5.6
-165					165				15,000	6.8
-MEGA32D-115	32	80	86	85	115	39.6	83	71	18,000	5.0
-135					135				16,000	5.8
-165					165				14,000	7.1
-MEGA42D-115	42	99	99.7	99.7	115	42	83	78	14,000	5.5
-135					135				10,000	6.9

1. Wrench has to be ordered separately.
2. Coolant pipe to be ordered separately.
3. The dimension, H, shows how deep a tool can be inserted.
4. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

STRAIGHT COLLET (Type "AC")

● Reduction sleeve for smaller diameter cutters.



Model	MEGA DOUBLE POWER CHUCK
AC20 - 6, 8, 10, 12, 16,	MEGA20D
AC25 - 6, 8, 10, 12, 16, 20,	MEGA25D ※
AC32 - 6, 8, 10, 12, 16, 20, 25	MEGA32D
AC42 - 6, 8, 10, 12, 16, 20, 25, 32	MEGA42D ※

1. ※ HSK-A100-MEGA25D(DS)-105 & 42D(DS)-115 Not able to use straight collet.

SEALED STRAIGHT COLLET

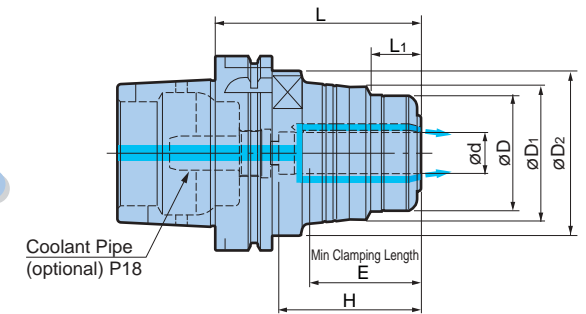


Model	MEGA DOUBLE POWER CHUCK
OCA20 - 6, 8, 10, 12, 16,	MEGA20D/DS
OCA25 -16, 20	MEGA25D/DS
OCA32 - 6, 8, 10, 12, 14, 16, 19, 20, 21, 22, 23, 24,25	MEGA32D/DS
OCA42 - 6, 8, 10, 12, 14, 16, 19, 20, 24, 25, 31, 32	MEGA42D/DS



MAX 25,000 min⁻¹

Coolant-through hole
For coolant to cutting tool periphery



Type DS Form A (DIN 69893-1)

Model	$\varnothing d$	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	L	L1	H	Min Clamping Length E	Max. min ⁻¹	Weight (kg)	
HSK-A 40-MEGA16DS- 80	16	46	-	-	82.4	29.4	63	53	12,000	0.75	
HSK-A 50-MEGA16DS- 85	16	46	-	-	87.4	29.4	64	53	25,000	1.0	
-MEGA20DS- 85	20	50	-	-	88.4	34.4	65		20,000	1.05	
HSK-A 63-MEGA16DS- 80	16	46	55	-	82.4	25.9	57	48	25,000	1.4	
-MEGA20DS- 90	20	55	55.7	-	92.4	37.1	67	56	25,000	1.7	
-120					122.4		87	23,000	2.2		
-MEGA25DS-100	25	62	62.7	-	102.4	36.8	77	65	22,000	2.0	
-MEGA32DS-105	32	70	70.7	-	107.4	37.3	82	71	22,000	2.2	
HSK-A100-MEGA16DS-105	16	46	55	63	107.4	25.9	73	53	18,000	3.5	
-135					137.4				75	16,000	4.1
MEGA20DS-105	20	60	69	74	107.4	27.9	87	56	18,000	4.1	
-135					137.4				87	16,000	5.0
-165					167.4				87	15,000	5.9
-MEGA25DS-105	25	70	77	85	107.4	34.3	75	65	18,000	4.5	
-135					137.4				92	16,000	5.6
-165					167.4				92	15,000	6.8
-MEGA32DS-115	32	80	86	85	117.4	42	85	71	18,000	5.0	
-135					137.4				105	16,000	5.8
-165					167.4				107	14,000	7.1
-MEGA42DS-115	42	99	99.7	99.7	117	42	86	78	14,000	5.5	

1. Wrench has to be ordered separately.
2. Coolant pipe to be ordered separately.
3. The dimension, H, shows how deep a tool can be inserted.
4. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

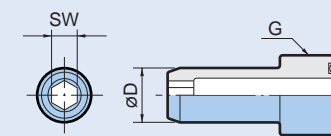
MEGA WRENCH



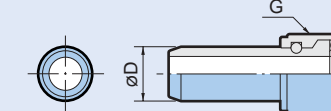
MEGA DOUBLE POWER CHUCK		Model	MEGA DOUBLE POWER CHUCK		Model
HSK-A40	-MEGA16D / DS	MGR46	HSK-A100-MEGA16D / DS	MGR46	
HSK-A50	-MEGA16D / DS	MGR46	-MEGA20D / DS	MGR60	
	-MEGA20D / DS	MGR50	-MEGA25D / DS	MGR70	
HSK-A63	-MEGA16D / DS	MGR46	-MEGA32D / DS	MGR80	
HSK-A63(F63)-MEGA20D / DS		MGR55	-MEGA42D / DS	MGR99	
	-MEGA25D / DS	MGR62			
	-MEGA32D / DS	MGR70			

COOLANT PIPE for Form A

● Mono brock Type



● 1° swing type



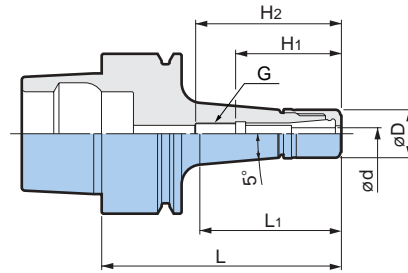
Model	$\varnothing D$	G	SW
HSK 40-CP	8	M12×P1	4
50-CP	10	M16×P1	5
63-CP	12	M18×P1	6
100-CP	16	M24×P1.5	8

Model	$\varnothing D$	G	Wrench(optional)
HSK 40-CPM	8	M12×P1	CPW 40
50-CPM	10	M16×P1	CPW 50
63-CPM	12	M18×P1	CPW 63
100-CPM	16	M24×P1.5	CPW100

Extremely slim design of body and nut provides superior balance and concentricity and is ideal for reaching into confined areas.



MAX
50,000
min⁻¹



Type T Form E (DIN 69893-5)

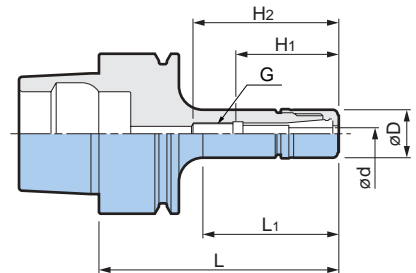
Model	$\varnothing d$	$\varnothing D$	L	L1	H1	H2	G	Max. min ⁻¹	Collet	Weight (kg)
HSK-E25-MEGA3S-45T	0.45 - 3.25	10	45	32	22	34	M4 P0.7	50,000	NBC3S-□	0.06
-60T			60	48		40,000		0.08		
-MEGA4S-45T ※	0.45 - 4.05	12	45	32	26.5	(34)	M5 P0.8	50,000	NBC4S-□	0.07
-60T			60	48		44		40,000		0.10
-MEGA6S-45T ※	0.45 - 6.05	14	45	32	28.5	(33)	M7 P0.75	50,000	NBC6S-□	0.08
-60T			60	48		44		40,000		0.10
HSK-E32-MEGA3S-60T	0.45 - 3.25	10	60	34	22	38	M4 P0.7	40,000	NBC3S-□	0.15
-75T			75	49		38		40,000		0.17
-MEGA4S-45T	0.45 - 4.05	12	45	23	26.5	32	M5 P0.8	50,000	NBC4S-□	0.14
-60T			60	34		47		40,000		0.16
-MEGA6S-45T ※	0.45 - 6.05	14	45	23	28.5	(28)	M7 P0.75	50,000	NBC6S-□	0.14
-60T			60	35		40		40,000		0.17
HSK-E40-MEGA3S-60T	0.45 - 3.25	10	60	34	22	38	M4 P0.7	40,000	NBC3S-□	0.23
-75T			75	49		38		40,000		0.25
-MEGA4S-60T	0.45 - 4.05	12	60	34	26.5	47	M5 P0.8	40,000	NBC4S-□	0.24
-75T			75	49		47		40,000		0.27
-MEGA6S-60T	0.45 - 6.05	14	60	34	28.5	41	M7 P0.75	40,000	NBC6S-□	0.24
-75T			75	49		49		40,000		0.28
-90T	90	64	49	40,000	0.32					
HSK-E50-MEGA3S-80T	0.45 - 3.25	10	80		22	38	M4 P0.7	40,000	NBC3S-□	0.46
-MEGA4S-80T	0.45 - 4.05	12	80	48	26.5	47	M5 P0.8	40,000	NBC4S-□	0.47
-MEGA6S-80T	0.45 - 6.05	14	80		28.5	49	M7 P0.75	40,000	NBC6S-□	0.48

- Nut is included. Collet and wrench must be ordered separately.
- For models with the mark of ※, there is no internal thread.
The dimension, H₂, in () shows how deep a tool can be inserted.
- Maximum operating speeds are directly influenced by the rigidity of the machine.
Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories		Spare Parts	
MEGA WRENCH	COLLET	MEGA NUT	
MEGA MICRO CHUCK	Model	Model	Model
MEGA3S	MGR10	NBC3S-□	MGN3S
MEGA4S	MGR12	NBC4S-□	MGN4S
MEGA6S	MGR14	NBC6S-□	MGN6S



MAX
50,000
min⁻¹



Type S Form E (DIN 69893-5)

Model	$\varnothing d$	$\varnothing D$	L	L1	H1	H2	G	Max. min ⁻¹	Collet	Weight (kg)
HSK-E25-MEGA3S-35	0.45 - 3.25	10	35	22	22	24	M4 P0.7	50,000	NBC3S-□	0.05
-MEGA4S-35 ※			35	22	26	(26)	—	50,000	NBC3S-□	0.06
-45 ※	0.45 - 4.05	12	45	30	26.5	(34)	M5 P0.8	50,000	NBC4S-□	0.06
-60			60	45		49		40,000		0.08
-MEGA6S-45 ※	0.45 - 6.05	14	45	32	28	(28)	M7 P0.75	50,000	NBC6S-□	0.07
-60			60	46		44		40,000		0.08
HSK-E32-MEGA3S-45 ※	0.45 - 3.25	10	45	22	22	(32)	—	50,000	NBC3S-□	0.13
-MEGA4S-45	0.45 - 4.05	12	45	22	26.5	32	M5 P0.8	50,000	NBC4S-□	0.14
-60			60	33		47		40,000		0.15
-MEGA6S-45 ※	0.45 - 6.05	14	45	22	28.5	(28)	M7 P0.75	50,000	NBC6S-□	0.14
-60			60	34		40		40,000		0.15
HSK-E40-MEGA3S-40 ※	0.45 - 3.25	10	40	19	22	(27)	—	50,000	NBC3S-□	0.21
-MEGA4S-40	0.45 - 4.05	12	40	19	26.5	27	M5 P0.8	50,000	NBC4S-□	0.21
-60			60	33		47		40,000		0.23
-MEGA6S-45 ※	0.45 - 6.05	14	45	23	28.5	(28)	M7 P0.75	50,000	NBC6S-□	0.22
-60			60	34		41		40,000		0.23
HSK-E50-MEGA3S-50 ※	0.45 - 3.25	10	50	20	22	(35)	—	45,000	NBC3S-□	0.42
-MEGA4S-50 ※	0.45 - 4.05	12	50	21	26.5	(35)	M5 P0.8	45,000	NBC4S-□	0.43
-80			80	43		47		40,000		0.45
-MEGA6S-50 ※	0.45 - 6.05	14	50	22	28.5	(35)	M7 P0.75	45,000	NBC6S-□	0.43
-80			80	43		49		40,000		0.46

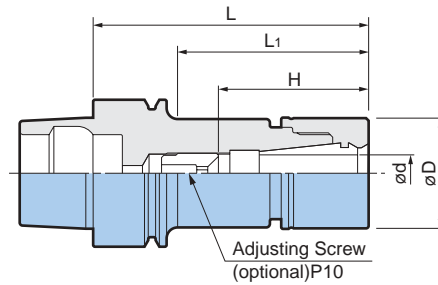
- Nut is included. Collet and wrench must be ordered separately.
- For models with the mark of ※, there is no internal thread.
The dimension, H₂, in () shows how deep a tool can be inserted.
- Maximum operating speeds are directly influenced by the rigidity of the machine.
Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories		Spare Parts	
MEGA WRENCH	COLLET	MEGA NUT	
MEGA MICRO CHUCK	Model	Model	Model
MEGA3S	MGR10	NBC3S-□	MGN3S
MEGA4S	MGR12	NBC4S-□	MGN4S
MEGA6S	MGR14	NBC6S-□	MGN6S

High speed design utilizes ultra precision New Baby Collet which guarantees a runout at the collet nose of less than 1 micron.



MAX
40,000
min⁻¹



Form E (DIN 69893-5)

Model	$\varnothing d$	$\varnothing D$	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-E25-MEGA 6N- 40 ※	0.25 - 6	20	40	28	28	30,000	NBC 6- □	0.10
8N- 45 ※	0.5 - 8	25	45	—	32	25,000	NBC 8- □	0.12
10N- 60 ※	1.5 - 10	30	60	—	35	20,000	NBC10- □	0.17
HSK-E32-MEGA 6N- 45 ※	0.25 - 6	20	45	24	30	40,000	NBC 6- □	0.17
- 60			60	36	23 - 30	35,000		0.20
-MEGA 8N- 50 ※	0.5 - 8	25	50	29	37	40,000	NBC 8- □	0.22
- 65			65	43	26 - 35	35,000		0.27
-MEGA10N- 65 ※	1.5 - 10	30	65	—	50	30,000	NBC10- □	0.28
-MEGA13N- 70 ※	2.5 - 13	35	70	—	44	25,000	NBC13- □	0.31
HSK-E40-MEGA 6N- 50 ※	0.25 - 6	20	50	26	35	40,000	NBC 6- □	0.26
- 60			60	33	23 - 33	35,000		0.28
- 75			75	48	23 - 43	30,000		0.31
- 90			90	63		28,000		0.35
-120			120	93	25,000	0.41		
-MEGA 8N- 55 ※	0.5 - 8	25	55	31	40	40,000	NBC 8- □	0.31
- 75			75	50	26 - 45	30,000		0.38
- 90			90	65	28,000	0.43		
-MEGA10N- 60 ※	1.5 - 10	30	60	36	45	35,000	NBC10- □	0.39
- 75 ※			75	51	57	30,000		0.46
- 90			90	66	38 - 48	28,000		0.53
-MEGA13N- 65 ※			2.5 - 13	35	65	43		44
- 75 ※	75	53			58	25,000	0.53	
- 90	90	68			44 - 53	20,000	0.62	
-120	120	98			44 - 63	15,000	0.80	
-150	150	128				1.00		
-MEGA16N- 65 ※	2.5 - 13	42	65	—	45	25,000	NBC16- □	0.43
- 75 ※			75	—	48	20,000		0.60

1. Nut is included. Adjusting screw, collet and wrench must be ordered separately.
2. Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
3. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Model	$\varnothing d$	$\varnothing D$	L	L1	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-E50-MEGA 6N- 55 ※	0.25 - 6	20	55	27	45	40,000	NBC 6- □	0.47
- 70 ※			70	37	60	30,000		0.50
-100			100	63	23 - 43	25,000		0.56
-130			130	93		20,000		0.63
-MEGA 8N- 60 ※	0.5 - 8	25	60	30	40	40,000	NBC 8- □	0.52
- 90			90	55	26 - 45	30,000		0.62
-MEGA10N- 60 ※	1.5 - 10	30	60	30	38	35,000	NBC10- □	0.56
- 90			90	57	38 - 48	30,000		0.70
-MEGA13N- 60			2.5 - 13	35	60	31		44
- 90	90	59			44 - 61	25,000	0.80	
-120	120	89			44 - 63	20,000	1.00	
-150	150	119				15,000	1.24	
-MEGA16N- 65 ※	2.5 - 16	42	65	39	48	30,000	NBC16- □	0.73
- 90 ※			90	62	67	25,000		1.00
-MEGA20N- 75 ※	2.5 - 20	46	75	49	51	25,000	NBC20- □	0.80
-100			100	74	51 - 61	20,000		1.10
-130			130	104	51 - 68	18,000		1.50
-160			160	134		15,000		1.80

1. Nut is included. Adjusting screw, collet and wrench must be ordered separately.
2. Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
3. Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

Accessories							Spare Parts	
MEGA WRENCH	COLLET		SEALING NUT MEGA PERFECT SEAL	ADJUSTING SCREW			MEGA NUT	
Model	Model	Model	Model	Model	G	L	B	Model
MEGA 6N	MGR20	NBC 6- □	MPS 6- □	NBA 6B	M 7	12	2	MGN 6
MEGA 8N	MGR25	NBC 8- □	MPS 8- □	NBA 8B	M 9	13	2.5	MGN 8
MEGA10N	MGR30	NBC10- □	MPS10- □	NBA10B	M11	16	3	MGN10
MEGA13N	MGR35	NBC13- □	MPS13- □	NBA13B	M14	20	4	MGN13
MEGA16N	MGR42	NBC16- □	MPS16- □	NBA16B	M18	20	4	MGN16
MEGA20N	MGR46	NBC20- □	MPS20- □	NBA20B	M21	20	4	MGN20

COLLET EJECTOR PAT.P

Collet Ejector can easily and quickly remove New Baby Collets from Mega Nuts.



Model	Nut	Collet
NBC 6-CE	MGN 6	NBC 6 • FONBC 6
NBC 8-CE	MGN 8	NBC 8 • FONBC 8
NBC10-CE	MGN10	NBC10 • FONBC10
NBC13-CE	MGN13	NBC13 • FONBC13

Please refer to P13

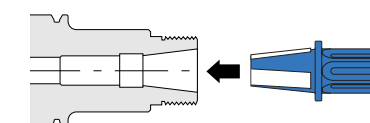
Inside Taper Cleaner of Collet Chucks

α TAPER CLEANER

Maintain the Precision of Collet Chucks.



Model	Chuck Model
SC-NBC 6	MEGA 6N
SC-NBC 8	MEGA 8N
SC-NBC10	MEGA10N
SC-NBC13	MEGA13N
SC-NBC16	MEGA16N
SC-NBC20	MEGA20N



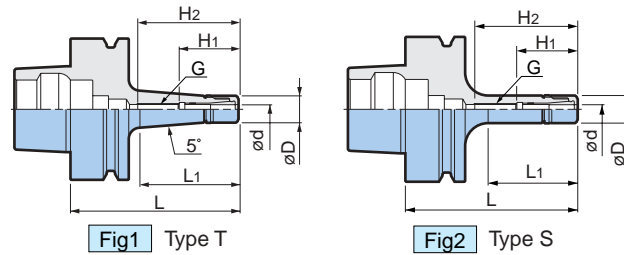
Form F MEGA MICRO CHUCK PAT. for high speed

Clamping Range: $\varnothing 0.45 - \varnothing 6.05$

Extremely slim design of body and nut provides superior balance and concentricity and is ideal for reaching into confined areas.



MAX 32,000 min⁻¹



Form F (DIN V 69893-6)

Model	Fig	$\varnothing d$	$\varnothing D$	L	L ₁	H ₁	H ₂	G	Max. min ⁻¹	Collet	Weight (kg)
HSK-F63-MEGA4S- 75T	1	0.45 - 4.05	12	75	43	26.5	41	M5 P0.8	32,000	NBC4S-□	0.7
MEGA6S- 75T		0.45 - 6.05	14	75	43	28.5	41	M7 P0.75	32,000	NBC6S-□	0.7
HSK-F63-MEGA4S- 75	2	0.45 - 4.05	12	75	38	26.5	41	M5 P0.8	30,000	NBC4S-□	0.7
-105				105	68		47		25,000		0.7
MEGA6S- 75		0.45 - 6.05	14	75	38	28.5	41	M7 P0.75	30,000	NBC6S-□	0.7
- 90				90	54		49		27,000		0.71
- 105				105	68		49		25,000		0.75

- Nut is included. Collet and wrench must be ordered separately.
- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

For ACCESSORIES and SPARE PARTS P5

For MICRO COLLET P7

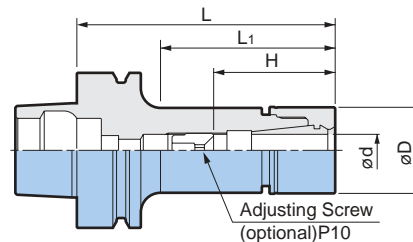
Form F MEGA NEW BABY CHUCK PAT. for high speed

Clamping Range: $\varnothing 0.25 - \varnothing 20$

The Body, Collet, Nut and Wrench are specifically designed to be ideal for high speed operations.



MAX 35,000 min⁻¹



Form F (DIN V 69893-6)

Model	$\varnothing d$	$\varnothing D$	L	L ₁	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-F63-MEGA 6N- 75	0.25- 6	20	75	42	23 - 31	35,000	NBC 6-□	0.7
- 90			90	53	23 - 43	30,000		0.8
-105			105	68		25,000		0.8
-135			135	98	20,000	0.9		
MEGA 8N- 75	0.5 - 8	25	75	42	26 - 38	32,000	NBC 8-□	0.8
- 90			90	53	26 - 45	30,000		0.9
-105			105	68		25,000		0.9
-120			120	83	20,000	1.0		
-135			135	98	15,000	1.1		
-165			165	128	15,000	1.1		
MEGA10N- 75※	1.5 - 10	30	75	42	48	32,000	NBC10-□	0.9
- 90			90	53	38 - 43	30,000		0.9
-105			105	68		25,000		1.0
-120			120	83	1.1			
MEGA13N- 75※	2.5 - 13	35	75	42	47	30,000	NBC13-□	0.9
- 90※			90	55	61	1.0		
-105			105	70	44 - 53	25,000		1.1
-120			120	85	44 - 63	20,000		1.2
-165			165	130	15,000	1.6		
MEGA16N- 75※	2.5 - 16	42	75	42	48	30,000	NBC16-□	1.0
- 90			90	57	61	25,000		1.2
-105			105	72	48 - 56	20,000		1.3
MEGA20N- 75※	2.5 - 20	46	75	44	51	30,000	NBC20-□	1.1
- 90※			90	59	61	25,000		1.3
-105			105	74	51 - 58	20,000		1.4

- Nut is included. Adjusting screw, collet and wrench must be ordered separately.
- Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

For NEW BABY COLLET P11

For ACCESSORIES and SPARE PARTS P10

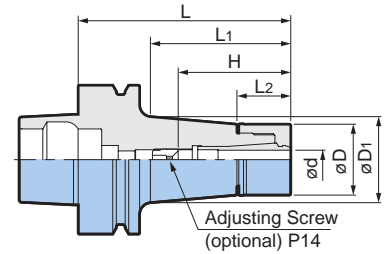
Form F MEGA E CHUCK PAT. for high speed

Clamping Range: $\varnothing 3 - \varnothing 12$

Collet chuck designed exclusively for endmilling with high concentricity and rigidity.



MAX 30,000 min⁻¹



Form F (DIN V 69893-6)

Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	L ₂	H	Max. min ⁻¹	Collet	Weight (kg)
HSK-F63-MEGA 6E- 65※	3 - 6	25	28.1	65	34	21	39	30,000	MEC 6-□	0.8
- 90			31.2	90	57		37 - 45			0.9
-MEGA 8E- 65※	3 - 8	30	32.8	65	34	22.5	41	30,000	MEC 8-□	0.8
- 90			36.2	90	58		42 - 46			1.0
-MEGA10E- 75※	3 - 10	35	38.4	75	43	23	48	30,000	MEC10-□	1.0
- 90※			41.1	90	58		67			1.2
-105			43.9	105	74		48 - 58			1.3
-120			46.7	120	90			29,000		1.6
-135			48.9	135	103			27,000		1.8
-MEGA13E- 75※			3 - 12	42	45.7		75	46		25
- 90※	48.3	90			61	64	1.4			
-105	51	105			77	50 - 58	1.6			
-135	51.8	135			105	50 - 60	2.0			

- Nut is included. Collet and wrench must be ordered separately.
- Adjusting screws can not be used with ※ marked models. H "max" is the maximum tool shank length that can be inserted into the holder.
- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

For ACCESSORIES and SPARE PARTS P15-P16

For MEGA E COLLET P16

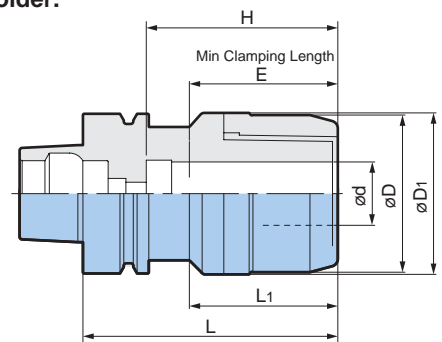
Form F MEGA DOUBLE POWER CHUCK PAT. for high speed

Clamping Range: $\varnothing 20 - \varnothing 32$

Close to integral rigidity and precision of a solid toolholder. Flange contacting nut assures highest rigidity.



MAX 28,000 min⁻¹



Form F (DIN V 69893-6)

Model	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	L ₁	H	Min Clamping Length E	Max. min ⁻¹	Weight (kg)
HSK-F63-MEGA20D- 90	20	55	55.7	90.2	44.9	65	56	28,000	1.5
MEGA25D-100	25	62	62.7	100.6	45	75	65	25,000	1.8
MEGA32D-105	32	70	70.7	106.1	53.3	80	71	24,000	2.0

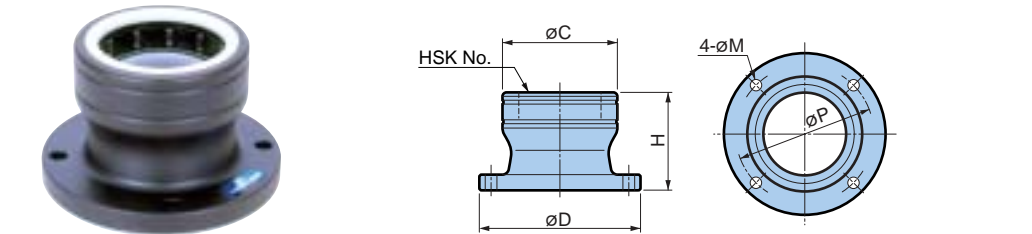
- Wrench has to be ordered separately.
- Maximum operating speeds are directly influenced by the rigidity of the machine. Therefore, when determining the optimum cutting conditions, increase the cutting parameters gradually.

For ACCESSORIES and SPARE PARTS P17, 18

ACCESSORY

KOMBI GRIP PAT.P for Form A, Form E & Form F

Innovative "Two-way clutch needle roller clamping system" assures secure clamping at the tool flange periphery. Safe design eliminates any possibility of damage to the taper shank during the tightening process.



Model	HSK No.	øC	øD	H	øP	øM	
KG 25R	25	48	79	65	62	7 (for M6)	
32R	32	55	85		69		
40R	40	63	93		77		
50R	50	75	105	89	9 (for M8)		
63R	63	88	123.5	75			105.5
80R	80	107	142	90			124
100R	100	127	162	100		144	



Caution
KOMBI GRIP must be securely fixed to a bench with 4 mounting bolts.

1. Mounting bolts (4 pcs) are not included.

SPINDLE CLEANER

Special leather makes a clean sweep of the oil and dust from machine spindle.

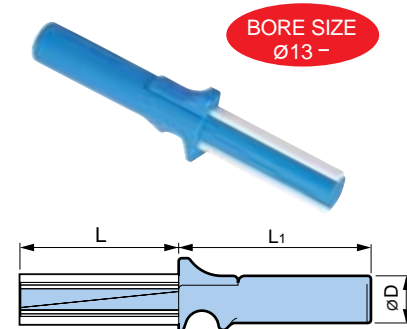


available in Asia and Oceania.

Model	Spindle No.	Model	Spindle No.
SC-HSK 32	HSK-A 32	SC-HSK25E	HSK-E 25
40	HSK-A 40	32E	HSK-E 32
50	HSK-A 50	40E	HSK-E 40
63	HSK-A 63	50E	HSK-E 50
80	HSK-A 80		
100	HSK-A100		

TK CLEANER

TK CLEANER perfectly cleans the clamping bore of the chuck in order to maintain the best performance of the chuck.



Model	Tool Holder Bore Size	L	L1	øD	No. of Leather
TKC13	13	60	106	24	2
14	14				
15	15				
16	16				
18	18	70	106	24	2
20	20				
25	25				
32	32	80	106	24	3
40	40				
42	42	105	121	30	4

1. Please select the appropriate model to fit the inner diameter of the chuck.

BASE MASTER

Ultra sensitive detection accuracy of 1µ decreases tool set up time significantly while assuring tools are not broken due to touching off.



For cutting tools, workpieces and machine tools using conductive materials.

Model	BM-50
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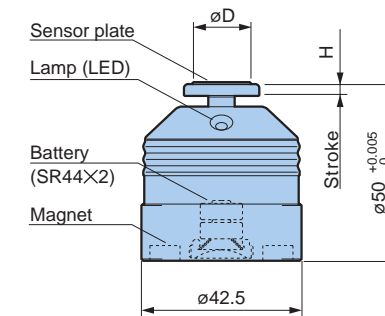
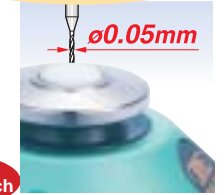
For all materials, including non-conductive cutting tools, workpieces, and machine tools.

Model	BM-50G
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Light pressure activation for small tools. Suitable for all cutting tools, workpieces, and machine tools.

Model	BM-50M
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Pre-set ø0.05mm dia. tools.
Considerable reduction of set-up time for small dia. tools.



Model	Plate Diameter øD	Plate Material	Stroke H
BM-50	ø18	Steel	3
-50G	ø14	Ceramic	3
-50M	ø7		1

BM-50 will not work with non-conductive cutting tools, workpieces, or machine tool spindles. For cutting tools under ø1.0mm, feed slowly and touch the sensor plate carefully. 50mm Units available upon request.

DYNA TEST (Test Arbor)

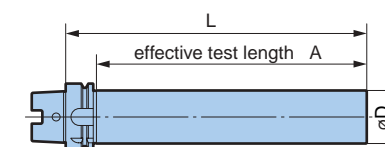
For inspection and adjustment of machine spindle.



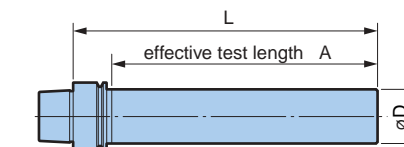
HSK form	Model	L	A	øD
HSK-A	HSK-A 40-32-L180SD	180	157	32
	-A 50-32-L240SD	240	211	
	-A 63-50-L200SD	200	171	50
	-L350SD	350	321	
	HSK-A100-50-L200SD	200	168	
HSK-E	-L350SD	350	318	20
	HSK-E 25-20-L175	175	163	
	-E 32-20-L180	180	158	32
	-E 40-32-L180		157	
HSK-F	-E 50-32-L240	240	211	50
	HSK-F 63-50-L200	200	171	
	-L350	350	321	

The drive key slots are symmetrical to allow the HSK form A Dyna Test Bar to be indexed 180 degrees.

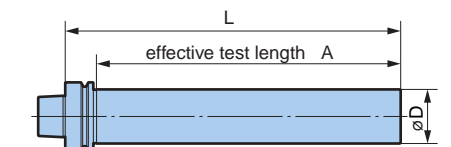
Form A
(ISO 12164) (DIN 69893-1)



Form E
(DIN 69893-5)



Form F63
(DIN V 69893-6)



Aluminum box

With in Aluminum box for storage.

