



Accuracy, Rigidity and Balance - All in One.

- High-balance design for high speed applications.
- High precision and rigidity with one simple tightening action.
- Patented "T-slit" design minimizes slippage and pull out of end mill.

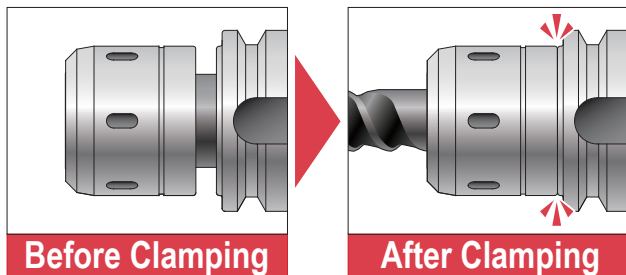
Accuracy, rigidity and balance

- All in one.

CAT.....P.4
 HSK-A.....P.6
 BT.....P.10
 UTS.....P.14

High precision and rigidity with one simple tightening action.

The clamping ring can be tightened all the way to the holder base.



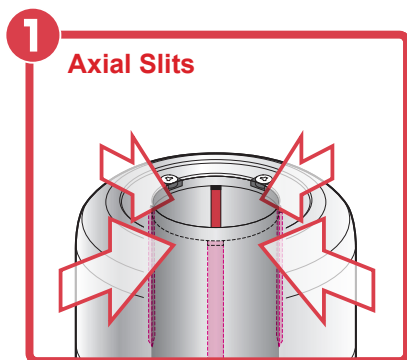
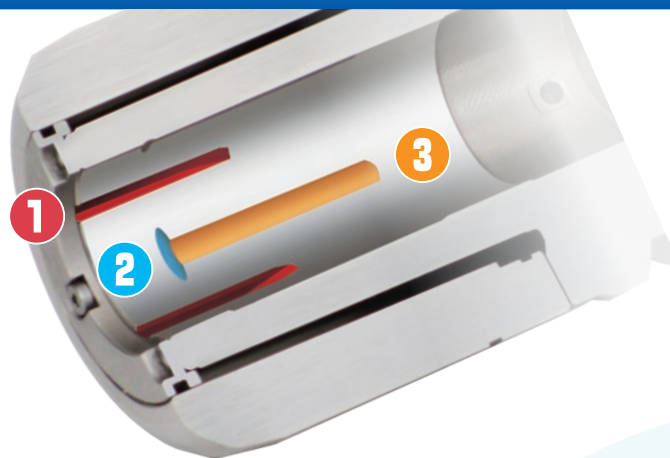
High balance

- Carefully crafted design ensures excellent rotational balance.
- Maximum rotational speeds as high as CT-S-E (High balance) holders.

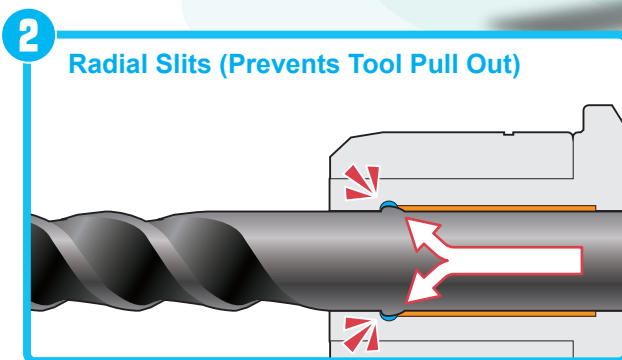
Max. rotational speed : 20,000min⁻¹

* For BT40-CT16SA-75. Max rotational speed for other holders can be found on the dimensions page.

Patented “T-slits” design minimizes slippage and pull out of end mill.

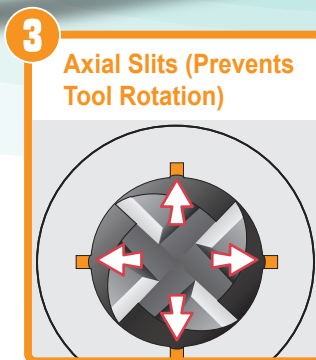


Deep groove slits increase clamping strength, allowing the cutting tool to be gripped more securely.



The gripping force of the milling chuck is powerful enough to compress the cutting tool shank slightly. The inner slits allow some pressure on the tool shank to escape by expanding into the slits, preventing the tool from being pulled out.

※ Will not leave marks on the cutting tool shank.



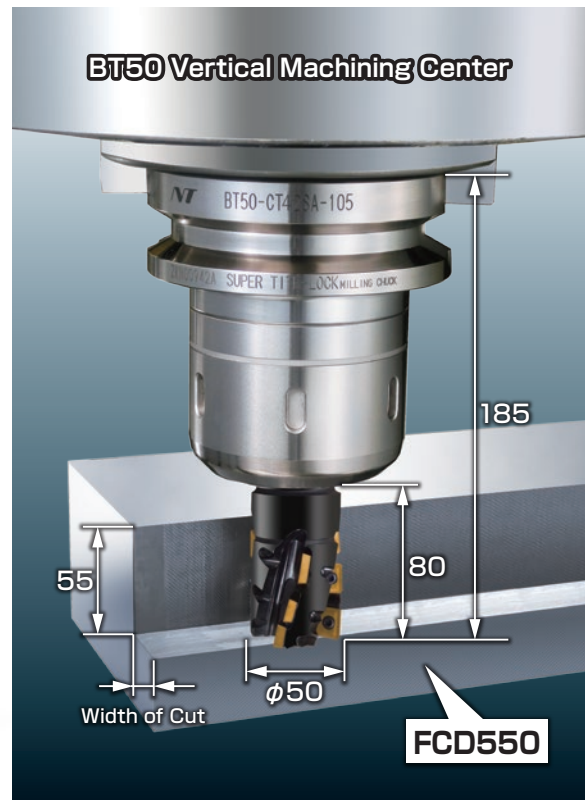
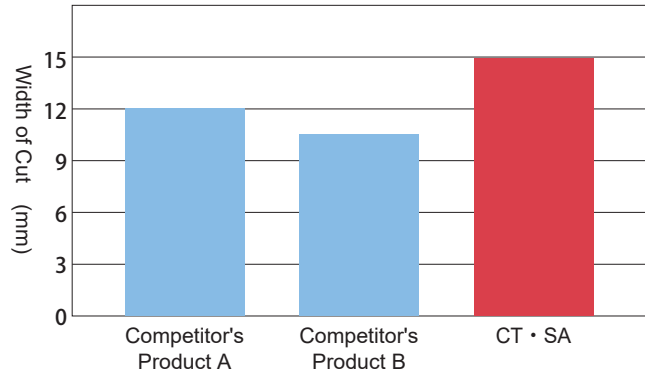
The principle outlined in illustration ② also prevents cutting tool slippage.

Cutting data (BT50-CT42SA-105)

Machining with $\phi 50$ mm chip-type end mill with 4 flutes.

Cutting Condition

Speed of Rotation	500min ⁻¹
Feed Rate	500mm/min
Work Material	FCD550
Machine	BT50 vertical machining center
Coolant	No (Dry Machining)



Center-through coolant feeding compliant



For tools with coolant hole



For collet through coolant
With MC-C collet

Accessories



Straight Collet MC

For coolant use, center through type and collet through type are available.

.....P.16

Stopper Bolt

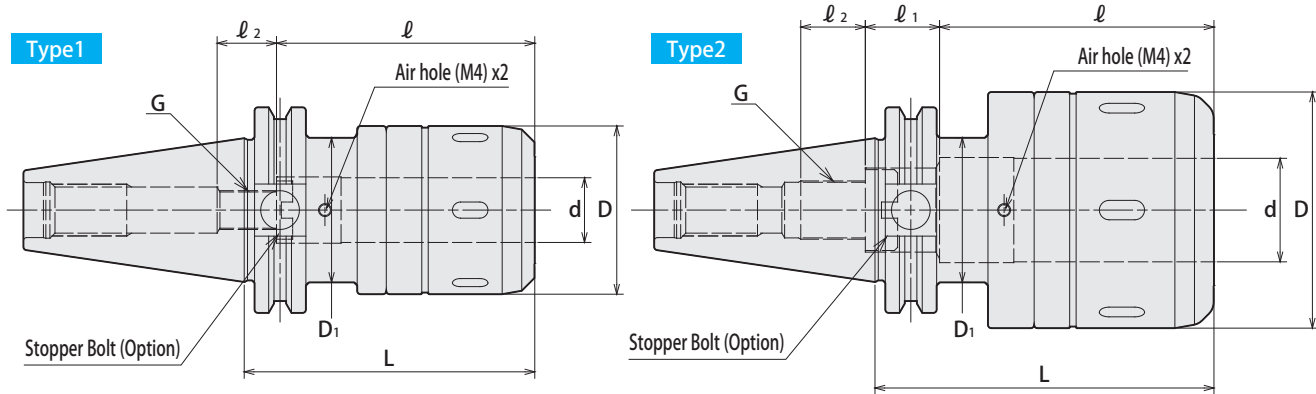
.....P.17



CT·SA

Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.



Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Inch Sizes

Unit : Inch

Code	Model	Type	d	D	D ₁	L	ℓ	ℓ ₁	ℓ ₂	G P=1.0	Max. min ⁻¹	kg	Spanner ²
1910 50424090	CAT40 -CT0750SA -90	1	0.750	2.047	1.750	3.543	3.150	-	0.591	BL20	18,000	1.8	HS-2-20
1910 50424105	-105	1	0.750	2.047	1.750	4.134	3.150	-	0.591	BL20	18,000	2.1	
1910 50424120	-120	1	0.750	2.047	1.750	4.724	3.150	-	0.591	BL20	18,000	2.3	
1910 50432105	CAT40 -CT1000SA -105	1	1.000	2.402	1.750	4.134	3.150	-	0.591	BL20	16,000	2.3	HS-2.5-25
1910 50432120	-120	1	1.000	2.402	1.750	4.724	3.150	-	0.591	BL20	16,000	2.7	
1910 50432135	-135	1	1.000	2.402	1.750	5.315	3.150	-	0.591	BL20	14,000	3	
1910 50440105	CAT40 -CT1250SA -105	2	1.250	2.874	1.750	4.134	3.346	0.906	0.787	BL32	12,000	2.5	HS-3-32
1910 50440120	-120	2	1.250	2.874	1.750	4.724	3.346	0.906	0.787	BL32	12,000	2.9	
1910 50440135	-135	2	1.250	2.874	1.750	5.315	4.724	-	0.787	BL32	12,000	3.2	
1910 50524090	CAT50 -CT0750SA -90	1	0.750	2.047	2.750	3.543	3.150	-	0.591	BL20	15,000	4.2	HS-2-20
1910 50524105	-105	1	0.750	2.047	2.750	4.134	3.150	-	0.591	BL20	15,000	4.5	
1910 50524135	-135	1	0.750	2.047	2.750	5.315	3.150	-	0.591	BL20	14,000	5.4	
1910 50532105	CAT50 -CT1000SA -105	1	1.000	2.402	2.750	4.134	3.150	-	0.591	BL20	14,000	4.8	HS-2.5-25
1910 50532135	-135	1	1.000	2.402	2.750	5.315	3.150	-	0.591	BL20	12,000	5.7	
1910 50532165	-165	1	1.000	2.402	2.750	6.496	3.150	-	0.591	BL20	11,000	6.6	
1910 50540095	CAT50 -CT1250SA -95	1	1.250	2.874	2.750	3.740	4.724	-	0.787	BL32	12,000	4.6	HS-3-32
1910 50540105	-105	1	1.250	2.874	2.750	4.134	4.724	-	0.787	BL32	12,000	4.9	
1910 50540120	-120	1	1.250	2.874	2.750	4.724	4.724	-	0.787	BL32	12,000	5.6	
1910 50540135	-135	1	1.250	2.874	2.750	5.315	4.724	-	0.787	BL32	12,000	6.2	
1910 50540150	-150	1	1.250	2.874	2.750	5.906	4.724	-	0.787	BL32	11,000	6.7	
1910 50540165	-165	1	1.250	2.874	2.750	6.496	4.724	-	0.787	BL32	10,000	7.2	
1910 10564105	CAT50 -CT2000S -105	1	2.000	4.134	2.750	4.134	3.937	—	0.787	BL32	8,000	5.9	HS-5-42 (HS-4V)
1910 10564120	-120	1	2.000	4.134	2.750	4.724	3.937	—	0.787	BL32	8,000	6.9	
1910 10564135	-135	1	2.000	4.134	2.750	5.315	3.937	—	0.787	BL32	8,000	7.8	
1910 10564150	-150	1	2.000	4.134	2.750	5.906	3.937	—	0.787	BL32	8,000	0.0	
1910 10564165	-165	1	2.000	4.134	2.750	6.496	3.937	—	0.787	BL32	8,000	9.7	

1. Use 2pcs. of M4 × 5 (S) hex screw (included) to close air holes on the holder when internal coolant is used.
2. When ordering, indicate number of spanners required. "Complimentary" spanners are limited to number of milling chucks on order.
3. Tolerance of cutting tool shank must be h7.
4. Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool.
Gradually increase from a low speed, and use at the proper speed.
5. Stopper bolts are sold separately.

Min. insertion length

Without MC collet (Direct chucking)

I.D. of Milling Chuck	Min. insertion length
0.750"	1.575" (40mm)
1.000", 1.250"	1.969" (50mm)
2.000"	2.170" (55mm)

With MC collet

Collet I.D. (Inch)	Min. insertion length
	MC, MC-C, MC-OH
1/4, 5/16	1.181" (30mm)
3/8, 1/2	1.575" (40mm)
5/8, 3/4, 7/8	1.772" (45mm)
1, 1-1/4, 1-1/2	1.969" (50mm)

Ordering Example

CAT40 - CT 0750 SA - 90
 Shank size I.D. (d) Projection length (L)

Metric Sizes Unit : Inch

Code	Model	Type	d	D	D ₁	L	ℓ	ℓ ₁	ℓ ₂	G P=1.0	Max. min ⁻¹	kg	Spanner ²	
1910 40416090	CAT40 -CT16SA	-90	1	0.630	1.772	1.750	3.543	2.559	-	0.787	BL16	20,000	1.6	HS-1-16
1910 40420090	CAT40 -CT20SA	-90	1	0.787	2.047	1.750	3.543	3.150	-	0.591	BL20	18,000	1.8	HS-2-20
1910 40420105		-105	1	0.787	2.047	1.750	4.134	3.150	-	0.591	BL20	18,000	2.1	
1910 40420120		-120	1	0.787	2.047	1.750	4.724	3.150	-	0.591	BL20	18,000	2.3	
1910 40425105	CAT40 -CT25SA	-105	1	0.984	2.402	1.750	4.134	3.150	-	0.591	BL20	16,000	2.3	HS-2.5-25
1910 40425120		-120	1	0.984	2.402	1.750	4.724	3.150	-	0.591	BL20	16,000	2.7	
1910 40425135		-135	1	0.984	2.402	1.750	5.315	3.150	-	0.591	BL20	14,000	3	
1910 40432105	CAT40 -CT32SA	-105	2	1.260	2.874	1.750	4.134	3.346	0.906	0.787	BL32	12,000	2.5	HS-3-32
1910 40432120		-120	2	1.260	2.874	1.750	4.724	3.346	0.906	0.787	BL32	12,000	2.9	
1910 40432135		-135	2	1.260	2.874	1.750	5.315	4.724	-	0.787	BL32	12,000	3.2	
1910 40516090	CAT50 -CT16SA	-90	1	0.630	1.772	2.750	3.543	2.559	-	0.787	BL16	15,000	4.1	HS-1-16
1910 40516105		-105	1	0.630	1.772	2.750	4.134	2.559	-	0.787	BL16	15,000	4.4	
1910 40520090	CAT50 -CT20SA	-90	1	0.787	2.047	2.750	3.543	3.150	-	0.591	BL20	15,000	4.2	HS-2-20
1910 40520105		-105	1	0.787	2.047	2.750	4.134	3.150	-	0.591	BL20	15,000	4.5	
1910 40520135		-135	1	0.787	2.047	2.750	5.315	3.150	-	0.591	BL20	14,000	5.4	
1910 40525105	CAT50 -CT25SA	-105	1	0.984	2.402	2.750	4.134	3.150	-	0.591	BL20	14,000	4.8	HS-2.5-25
1910 40525135		-135	1	0.984	2.402	2.750	5.315	3.150	-	0.591	BL20	12,000	5.7	
1910 40525165		-165	1	0.984	2.402	2.750	6.496	3.150	-	0.591	BL20	11,000	6.6	
1910 40532095	CAT50 -CT32SA	-95	1	1.260	2.874	2.750	3.740	4.724	-	0.787	BL32	12,000	4.6	HS-3-32
1910 40532105		-105	1	1.260	2.874	2.750	4.134	4.724	-	0.787	BL32	12,000	4.9	
1910 40532120		-120	1	1.260	2.874	2.750	4.724	4.724	-	0.787	BL32	12,000	5.6	
1910 40532135		-135	1	1.260	2.874	2.750	5.315	4.724	-	0.787	BL32	12,000	6.2	
1910 40532150		-150	1	1.260	2.874	2.750	5.906	4.724	-	0.787	BL32	11,000	6.7	
1910 40532165		-165	1	1.260	2.874	2.750	6.496	4.724	-	0.787	BL32	10,000	7.2	
1910 40542105	CAT50 -CT42SA	-105	1	1.654	3.465	2.750	4.134	4.724	-	0.787	BL32	10,000	5.4	HS-4-42
1910 40542120		-120	1	1.654	3.465	2.750	4.724	4.724	-	0.787	BL32	10,000	6.1	
1910 40542135		-135	1	1.654	3.465	2.750	5.315	4.724	-	0.787	BL32	10,000	6.8	
1910 40542150		-150	1	1.654	3.465	2.750	5.906	4.724	-	0.787	BL32	10,000	7.4	
1910 40542165		-165	1	1.654	3.465	2.750	6.496	4.724	-	0.787	BL32	9,000	8.1	

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Gradually increase from a low speed, and use at the proper speed.
5. Stopper bolts are sold separately.




Min. insertion length

Without MC collet (Direct chucking)

I.D. of Milling Chuck	Min. insertion length
16mm, 20mm	40mm (1.575")
25mm, 32mm, 42mm	50mm (1.969")

With MC collet

Collet I.D.	Min. insertion length	
	MC	MC-C, MC-OH
6mm, 8mm	30mm (1.181")	30mm (1.181")
10mm, 12mm	40mm (1.575")	40mm (1.575")
16mm, 18mm, 20mm	45mm (1.772")	45mm (1.772")
25mm	50mm (1.969")	50mm (1.969")
32mm	50mm (1.969")	60mm (2.362")

Stopper Bolt BL P. 17 	Straight Collet MC P. 16 	Clamper CCL P. 23 
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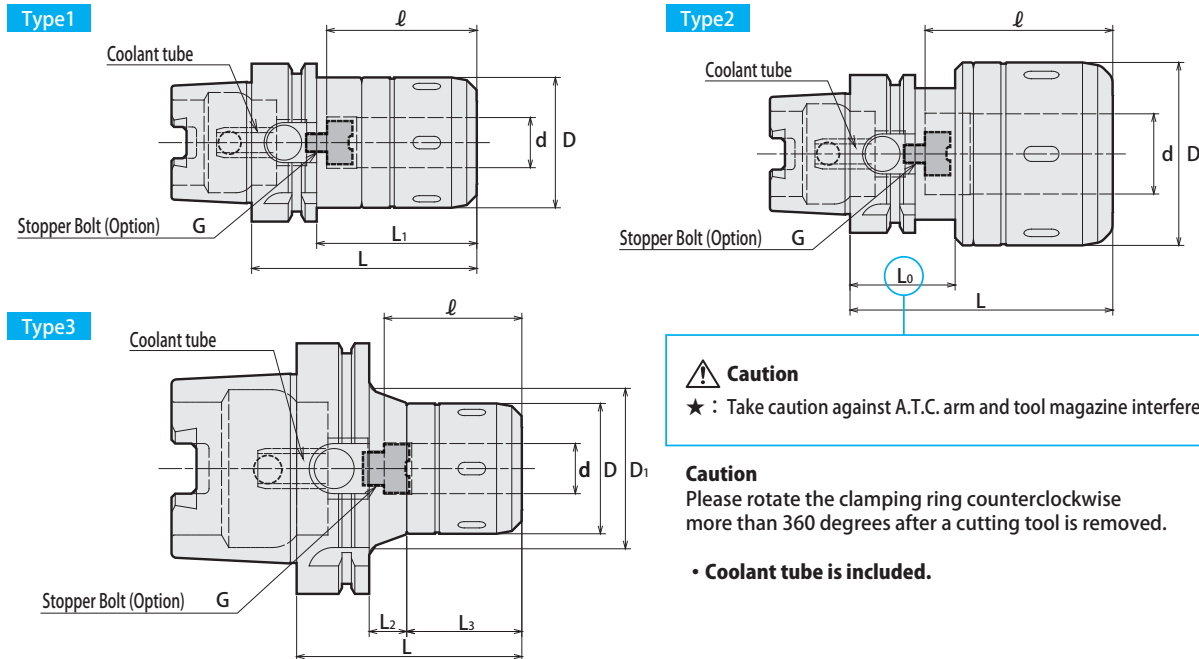
Ordering Example

CAT40 - CT 16 SA - 90
Shank size
I.D. (d)
Projection length (L)

CT·SA

Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.



Caution
★ : Take caution against A.T.C. arm and tool magazine interference.

Caution
Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

• Coolant tube is included.

Inch Sizes Unit : Inch

Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	L ₃	ℓ	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ¹
5690 13524090	HSK40A -CT0750SA -90	2	0.750	2.047	-	3.543	-	-	-	2.362	1.378	HSK40-BL	14,000	1	HS-1-16
5690 13532105	HSK40A -CT1000SA -105	2	1.000	2.402	-	4.134	-	-	-	2.362	1.378	HSK40-BL	10,000	1.6	HS-2.5-25
5690 75524090	HSK63A -CT0750SA -90 -H	1	0.750	2.047	-	3.543	2.520	-	-	2.362	-	HSK63-BL	18,000	1.5	HS-1-16
5690 75524105	-105 -H	1	0.750	2.047	-	4.134	3.110	-	-	2.953	-	HSK63-BL	18,000	1.7	
5690 75524135	-135 -H	1	0.750	2.047	-	5.315	4.291	-	-	3.150	-	HSK63-BL	18,000	2.2	
5690 75532105	HSK63A -CT1000SA -105 -H	2	1.000	2.402	-	4.134	-	-	-	2.953	1.654	HSK63-BL	16,000	2	HS-2.5-25
5690 75532120	-120 -H	2	1.000	2.402	-	4.724	-	-	-	2.953	1.654	HSK63-BL	16,000	2.3	
5690 75532135	-135 -H	2	1.000	2.402	-	5.315	-	-	-	3.150	1.654	HSK63-BL	15,000	2.7	
5690 75540105	HSK63A -CT1250SA -105 -H	2	1.250	2.874	-	4.134	-	-	-	2.953	1.654	HSK63-BL	12,000	2.4	HS-3-32
5690 75540120	-120 -H	2	1.250	2.874	-	4.724	-	-	-	3.543	1.654	HSK63-BL	12,000	2.7	
5690 75540150	-150 -H	2	1.250	2.874	-	5.906	-	-	-	4.724	1.654	HSK63-BL	12,000	3.5	
5690 77524090	HSK100A -CT0750SA -90 -H *1	3	0.750	2.047	2.913	3.543	-	0.630	1.772	2.165	-	HSK100-BL	12,500	2.9	HS-1-16
5690 77524105	-105 -H	3	0.750	2.047	2.913	4.134	-	1.220	1.772	2.756	-	HSK100-BL	12,500	3.3	
5690 77524135	-135 -H	3	0.750	2.047	2.913	5.315	-	2.402	1.772	3.150	-	HSK100-BL	12,500	3.7	
5690 77524150	-150 -H	3	0.750	2.047	2.913	5.906	-	2.992	1.772	3.150	-	HSK100-BL	12,500	4.1	
5690 77532090	HSK100A -CT1000SA -90 -H *1	1	1.000	2.402	-	3.543	2.402	-	-	2.165	-	HSK100-BL	12,500	3.1	HS-2.5-25
5690 77532105	-105 -H	3	1.000	2.402	2.913	4.134	-	0.787	2.205	2.756	-	HSK100-BL	12,500	3.5	
5690 77532135	-135 -H	3	1.000	2.402	2.913	5.315	-	1.969	2.205	3.150	-	HSK100-BL	12,500	4.3	
5690 77532150	-150 -H	3	1.000	2.402	2.913	5.906	-	2.559	2.205	3.150	-	HSK100-BL	12,500	4.7	
5690 77540090	HSK100A -CT1250SA -90 -H *1	1	1.250	2.874	-	3.543	2.402	-	-	2.165	-	HSK100-BL	12,000	3.6	HS-3-32
5690 77540105	-105 -H	1	1.250	2.874	-	4.134	2.992	-	-	2.756	-	HSK100-BL	12,000	4	
5690 77540105	-120 -H	1	1.250	2.874	-	4.724	3.583	-	-	3.346	-	HSK100-BL	12,000	4.4	
5690 77540135	-135 -H	1	1.250	2.874	-	5.315	4.173	-	-	3.937	-	HSK100-BL	12,000	4.8	
5690 77540150	-150 -H	1	1.250	2.874	-	5.906	4.764	-	-	4.528	-	HSK100-BL	12,000	5.2	
5690 77164110	HSK100A -CT2000S -110 -H	2	2.000	4.134	-	4.331	-	-	-	2.756	1.772	HSK100-BL	8,000	5.8	HS-5-42 (HS-4V)
5690 77164135	-135 -H	2	2.000	4.134	-	5.315	-	-	-	3.937	1.772	HSK100-BL	8,000		
5690 77164150	-150 -H	2	2.000	4.134	-	5.906	-	-	-	4.331	1.772	HSK100-BL	8,000		
5690 77164165	-165 -H	2	2.000	4.134	-	6.496	-	-	-	4.724	1.772	HSK100-BL	8,000		

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



Min. insertion length

Without MC collet (Direct chucking)		With MC collet	
I.D. of Milling Chuck	Min. insertion length	Collet I.D. (Inch)	Min. insertion length MC, MC-C, MC-OH
0.750"	1.575" (40mm)	1/4, 5/16	1.181" (30mm)
1.000", 1.250"	1.969" (50mm)	3/8, 1/2	1.575" (40mm)
2.000"	2.170" (55mm)	5/8, 3/4, 7/8	1.772" (45mm)
		1, 1-1/4, 1-1/2	1.969" (50mm)

Accessories

Models with *1 cannot be used with some accessories due to short l length.

	Stopper Bolt  HSK-BL (P. 17)	Straight Collet  MC (P. 16)	Clamper HCL P. 23
*1	○	—	

Ordering Example

Without manual clamp holes (HSK40A, HSK50A)

HSK40A -CT 0750 SA- 90

Shank size I.D. Projection length

Ordering Example

With manual clamp holes (HSK63A, HSK100A)

HSK63A -CT 0750 SA- 90 - H

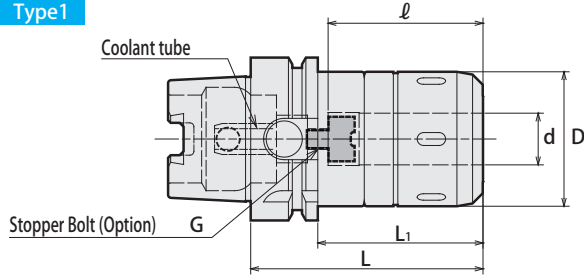
Shank size I.D. Projection length With manual clamp holes

CT·SA

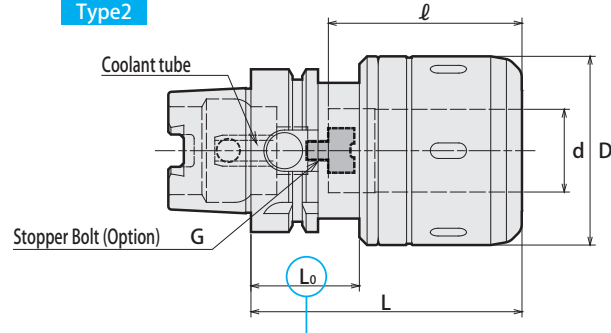
Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.

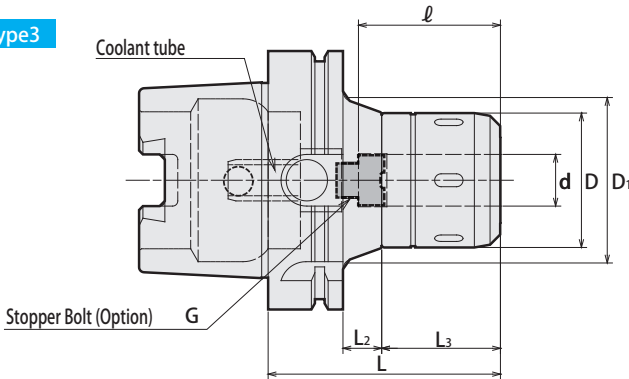
Type 1



Type 2



Type 3



Caution

★ : Take caution against A.T.C. arm and tool magazine interference.

Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

- Coolant tube is included.

Metric Sizes

Unit : Metric

Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	L ₃	ℓ	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ¹
5690 13416075	HSK40A -CT16SA - 75	2	16	45	—	75	—	—	—	50	★ 26	HSK40-BL	16,000	0.8	HS-1-16
5690 13416090	- 90	2	16	45	—	90	—	—	—	60	35	HSK40-BL	16,000	0.9	
5690 13420090	HSK40A -CT20SA - 90	2	20	52	—	90	—	—	—	60	35	HSK40-BL	14,000	1.0	HS-2-20
5690 13420105	- 105	2	20	52	—	105	—	—	—	60	35	HSK40-BL	12,000	1.3	
5690 13425105	HSK40A -CT25SA - 105	2	25	61	—	105	—	—	—	60	35	HSK40-BL	10,000	1.6	HS-2.5-25
5690 14416090	HSK50A -CT16SA - 90	2	16	45	—	90	—	—	—	60	42	HSK40-BL	20,000	1.1	HS-1-16
5690 14420090	HSK50A -CT20SA - 90	2	20	52	—	90	—	—	—	60	42	HSK40-BL	18,000	1.2	HS-2-20
5690 14420105	- 105	2	20	52	—	105	—	—	—	60	42	HSK40-BL	17,000	1.5	
5690 14425105	HSK50A -CT25SA - 105	2	25	61	—	105	—	—	—	75	42	HSK40-BL	15,000	1.7	HS-2.5-25
5690 ※ 5416075	HSK63A -CT16SA - 75 -H	1	16	45	—	75	49	—	—	47	—	HSK63-BL	20,500	1.2	HS-1-16
5690 ※ 5416090	- 90 -H	1	16	45	—	90	64	—	—	60	—	HSK63-BL	20,500	1.4	
5690 ※ 5420090	HSK63A -CT20SA - 90 -H	1	20	52	—	90	64	—	—	60	—	HSK63-BL	18,000	1.6	HS-2-20
5690 ※ 5420105	- 105 -H	1	20	52	—	105	79	—	—	75	—	HSK63-BL	18,000	1.8	
5690 ※ 5420135	- 135 -H	1	20	52	—	135	109	—	—	80	—	HSK63-BL	18,000	2.3	
5690 ※ 5425105	HSK63A -CT25SA - 105 -H	2	25	61	—	105	—	—	—	75	42	HSK63-BL	16,000	2.1	HS-2.5-25
5690 ※ 5425120	- 120 -H	2	25	61	—	120	—	—	—	75	42	HSK63-BL	16,000	2.4	
5690 ※ 5425135	- 135 -H	2	25	61	—	135	—	—	—	80	42	HSK63-BL	15,000	2.7	
5690 ※ 5432105	HSK63A -CT32SA - 105 -H	2	32	73	—	105	—	—	—	75	42	HSK63-BL	12,000	2.5	HS-3-32
5690 ※ 5432120	- 120 -H	2	32	73	—	120	—	—	—	90	42	HSK63-BL	12,000	2.8	
5690 ※ 5432150	- 150 -H	2	32	73	—	150	—	—	—	120	42	HSK63-BL	12,000	3.6	
5690 ※ 7416090	HSK100A -CT16SA - 90 -H	3	16	45	56	90	—	16	45	55	—	HSK100-BL	12,500	2.8	HS-1-16
5690 ※ 7416105	- 105 -H	3	16	45	56	105	—	31	45	70	—	HSK100-BL	12,500	3.0	
5690 ※ 7420090	HSK100A -CT20SA - 90 -H *1	3	20	52	64	90	—	16	45	55	—	HSK100-BL	12,500	3.0	HS-2-20
5690 ※ 7420105	- 105 -H	3	20	52	64	105	—	18	58	70	—	HSK100-BL	12,500	3.3	
5690 ※ 7420120	- 120 -H	3	20	52	64	120	—	33	58	80	—	HSK100-BL	12,500	3.5	
5690 ※ 7420135	- 135 -H	3	20	52	64	135	—	48	58	80	—	HSK100-BL	12,500	3.9	
5690 ※ 7420150	- 150 -H	3	20	52	64	150	—	63	58	80	—	HSK100-BL	12,500	4.1	

Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	L ₃	ℓ	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ¹
5690 ※ 7425090	HSK100A -CT25SA - 90 -H *1	1	25	61	—	90	61	—	—	55	—	HSK100-BL	12,500	3.2	HS-2.5-25
5690 ※ 7425105	- 105 -H	3	25	61	74	105	—	20	56	70	—	HSK100-BL	12,500	3.6	
5690 ※ 7425120	- 120 -H	3	25	61	74	120	—	35	56	80	—	HSK100-BL	12,500	4.0	
5690 ※ 7425135	- 135 -H	3	25	61	74	135	—	50	56	80	—	HSK100-BL	12,500	4.4	
5690 ※ 7425150	- 150 -H	3	25	61	73	150	—	65	56	80	—	HSK100-BL	12,500	4.8	
5690 ※ 7432090	HSK100A -CT32SA - 90 -H *1	1	32	73	—	90	61	—	—	55	—	HSK100-BL	12,000	3.6	HS-3-32
5690 ※ 7432105	- 105 -H	1	32	73	—	105	76	—	—	70	—	HSK100-BL	12,000	4.1	
5690 ※ 7432120	- 120 -H	1	32	73	—	120	91	—	—	85	—	HSK100-BL	12,000	4.5	
5690 ※ 7432135	- 135 -H	1	32	73	—	135	106	—	—	100	—	HSK100-BL	12,000	5.0	
5690 ※ 7432150	- 150 -H	1	32	73	—	150	121	—	—	115	—	HSK100-BL	12,000	5.3	
5690 ※ 7442105	HSK100A -CT42SA - 105 -H *1	2	42	88	—	105	—	—	—	70	45	HSK100-BL	10,000	4.8	HS-4-42
5690 ※ 7442120	- 120 -H	2	42	88	—	120	—	—	—	85	45	HSK100-BL	10,000	5.4	
5690 ※ 7442135	- 135 -H	2	42	88	—	135	—	—	—	100	45	HSK100-BL	10,000	5.9	
5690 ※ 7442150	- 150 -H	2	42	88	—	150	—	—	—	110	45	HSK100-BL	10,000	6.5	
5690 ※ 7442165	- 165 -H	2	42	88	—	165	—	—	—	120	45	HSK100-BL	10,000	7.1	

- When ordering, indicate number of spanners required. "Complimentary" spanners are limited to number of milling chucks on order.
- Tolerance of cutting tool shank must be h7.
- Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool. Gradually increase from a low speed, and use at the proper speed.
- Stopper bolts are sold separately.

Min. insertion length

Without MC collet (Direct chucking)



I.D. of Milling Chuck	Min. insertion length
16mm, 20mm	40mm (1.575")
25mm, 32mm, 42mm	50mm (1.969")

With MC collet

Collet I.D.	Min. insertion length	
	MC	MC-C, MC-OH
6mm, 8mm	30mm (1.181")	30mm (1.181")
10mm, 12mm	40mm (1.575")	40mm (1.575")
16mm, 18mm, 20mm	45mm (1.772")	45mm (1.772")
25mm	50mm (1.969")	50mm (1.969")
32mm	50mm (1.969")	60mm (2.362")

Accessories

Models with *1 cannot be used with some accessories due to short ℓ length.

	Stopper Bolt 	Straight Collet 
	HSK-BL (P. 17)	MC (P. 16)
*1	○	—

※ For Morse/Jacob taper adaptors, please see complete catalog on website.

Clamper
HCL
P. 23



Ordering Example

Without manual clamp holes (HSK40A, HSK50A)

HSK50A -CT 16 SA- 90
Shank size I.D. Projection length

Ordering Example

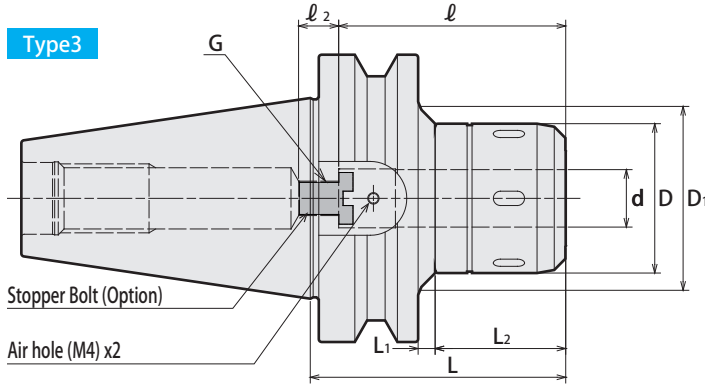
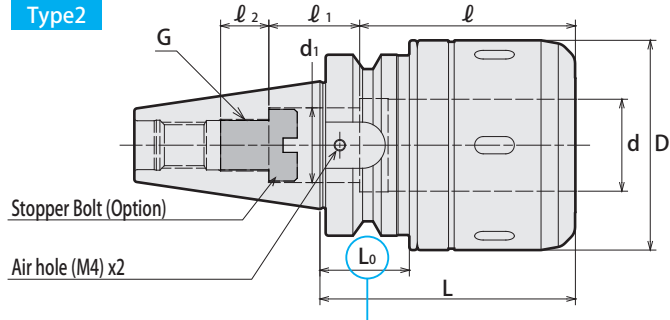
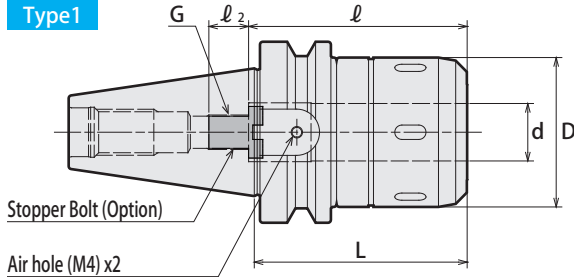
With manual clamp holes (HSK63A, HSK100A)

HSK63A -CT 16 SA- 75 - H
Shank size I.D. Projection length With manual clamp holes

CT·SA

Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.



Caution
★ : Take caution against A.T.C. arm and tool magazine interference.


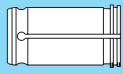

Caution
Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Inch Sizes Unit : Inch

Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	ℓ	ℓ ₁	ℓ ₂	d ₁	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ²
3140 50124075	BT30 -CT0750SA -75	2	0.750	2.047	—	2.953	—	—	2.559	—	0.591	—	★1.063	BL20	15,000	1	
3140 50124090	-90	2	0.750	2.047	—	3.543	—	—	3.150	—	0.591	—	1.575	BL20	14,000	1.2	HS-2-20
3140 50124105	-105	2	0.750	2.047	—	4.134	—	—	3.150	—	0.591	—	2.165	BL20	12,000	1.3	
3140 50132090	BT30 -CT1000SA -90	2	1.000	2.402	—	3.543	—	—	3.150	—	0.591	—	★1.220	BL20	11,000	1.4	HS-2.5-25
3140 50132105	-105	2	1.000	2.402	—	4.134	—	—	3.150	—	0.591	—	1.732	BL20	10,000	1.6	
3140 50324075	BT40 -CT0750SA -75	1	0.750	2.047	—	2.953	—	—	2.953	—	0.591	—	—	BL20	18,000	1.5	
3140 50324090	-90	3	0.750	2.047	2.283	3.543	0.709	1.772	3.150	—	0.591	—	—	BL20	18,000	1.8	HS-2-20
3140 50324105	-105	3	0.750	2.047	2.283	4.134	1.299	1.772	3.150	—	0.591	—	—	BL20	18,000	2.1	
3140 50324120	-120	3	0.750	2.047	2.283	4.724	1.890	1.772	3.150	—	0.591	—	—	BL20	18,000	2.3	
3140 50332090	BT40 -CT1000SA -90	1	1.000	2.402	—	3.543	—	—	3.150	—	0.591	—	—	BL20	16,000	2	
3140 50332105	-105	1	1.000	2.402	—	4.134	—	—	3.150	—	0.591	—	—	BL20	16,000	2.3	HS-2.5-25
3140 50332120	-120	1	1.000	2.402	—	4.724	—	—	3.150	—	0.591	—	—	BL20	16,000	2.7	
3140 50332135	-135	1	1.000	2.402	—	5.315	—	—	3.150	—	0.591	—	—	BL20	14,000	3	
3140 50340090	BT40 -CT1250SA -90	2	1.250	2.874	—	3.543	—	—	2.992	1.260	0.669	1.024	★1.220	BL32	12,000	2.3	
3140 50340105	-105	2	1.250	2.874	—	4.134	—	—	3.346	0.906	0.669	1.024	1.732	BL32	12,000	2.5	HS-3-32
3140 50340120	-120	2	1.250	2.874	—	4.724	—	—	3.346	0.906	0.669	1.024	2.323	BL32	12,000	2.9	
3140 50340135	-135	2	1.250	2.874	—	5.315	—	—	4.724	—	0.669	1.024	2.913	BL32	12,000	3.2	
3140 50524090	BT50 -CT0750SA -90	3	0.750	2.047	2.559	3.543	0.276	1.772	3.150	—	0.591	—	—	BL20	15,000	4.2	
3140 50524105	-105	3	0.750	2.047	2.677	4.134	0.866	1.772	3.150	—	0.591	—	—	BL20	15,000	4.5	HS-2-20
3140 50524135	-135	3	0.750	2.047	3.150	5.315	2.047	1.772	3.150	—	0.591	—	—	BL20	14,000	5.4	
3140 50532105	BT50 -CT1000SA -105	3	1.000	2.402	3.228	4.134	0.433	2.205	3.150	—	0.591	—	—	BL20	14,000	4.8	
3140 50532135	-135	3	1.000	2.402	3.268	5.315	1.614	2.205	3.150	—	0.591	—	—	BL20	12,000	5.7	HS-2.5-25
3140 50532165	-165	3	1.000	2.402	3.386	6.496	2.795	2.205	3.150	—	0.591	—	—	BL20	11,000	6.6	
3140 50540095	BT50 -CT1250SA -95	1	1.250	2.874	—	3.740	—	2.205	4.724	—	0.787	—	—	BL32	12,000	4.6	
3140 50540105	-105	3	1.250	2.874	3.386	4.134	0.433	2.205	4.724	—	0.787	—	—	BL32	12,000	4.9	
3140 50540120	-120	3	1.250	2.874	3.425	4.724	1.024	2.205	4.724	—	0.787	—	—	BL32	12,000	5.6	HS-3-32
3140 50540135	-135	3	1.250	2.874	3.386	5.315	1.614	2.205	4.724	—	0.787	—	—	BL32	12,000	6.2	
3140 50540150	-150	3	1.250	2.874	3.465	5.906	2.205	2.205	4.724	—	0.787	—	—	BL32	11,000	6.7	
3140 50540165	-165	3	1.250	2.874	3.465	6.496	2.795	2.205	4.724	—	0.787	—	—	BL32	10,000	7.2	
3140 10564105	BT50 -CT2000S -105	2	2.000	4.134	—	4.134	—	—	3.937	—	0.787	—	1.654	BL32	8,000		
3140 10564120	-120	2	2.000	4.134	—	4.724	—	—	3.937	—	0.787	—	2.244	BL32	8,000		HS-5-42
3140 10564135	-135	2	2.000	4.134	—	5.315	—	—	3.937	—	0.787	—	2.835	BL32	8,000		
3140 10564150	-150	2	2.000	4.134	—	5.906	—	—	3.937	—	0.787	—	3.425	BL32	8,000		(HS-4V)
3140 10564165	-165	2	2.000	4.134	—	6.496	—	—	3.937	—	0.787	—	4.016	BL32	8,000		

1. Use 2pcs. of M4 × 5 (S) hex screw (included) to close air holes on the holder when internal coolant is used.
2. When ordering, indicate number of spanners required. "Complimentary" spanners are limited to number of milling chucks on order.
3. Tolerance of cutting tool shank must be h7.
4. Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool.
Gradually increase from a low speed, and use at the proper speed.
5. Stopper bolts are sold separately.

Min. insertion length		With MC collet	
Without MC collet (Direct chucking)		Collet I.D. (Inch)	Min. insertion length MC, MC-C, MC-OH
I.D. of Milling Chuck	Min. insertion length	1/4, 5/16	1.181" (30mm)
0.750"	1.575" (40mm)	3/8, 1/2	1.575" (40mm)
1.000", 1.250"	1.969" (50mm)	5/8, 3/4, 7/8	1.772" (45mm)
2.000"	2.170" (55mm)	1, 1-1/4, 1-1/2	1.969" (50mm)

Stopper Bolt BL P. 17 	Straight Collet MC P. 16 	Clamper BCL P. 23 
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Ordering Example

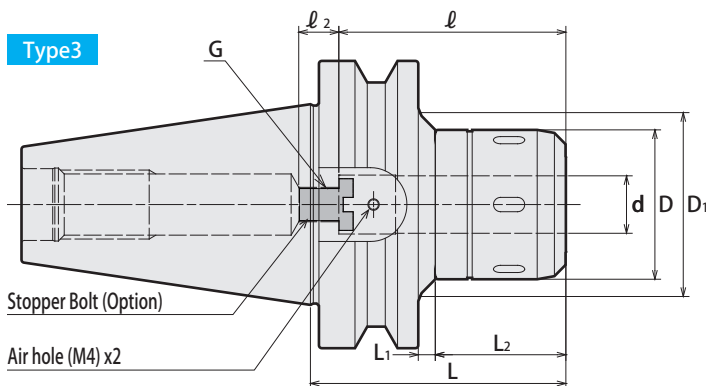
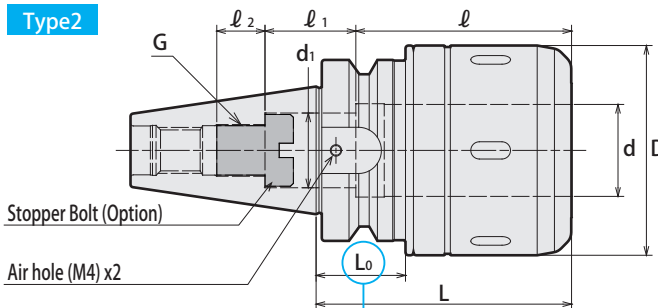
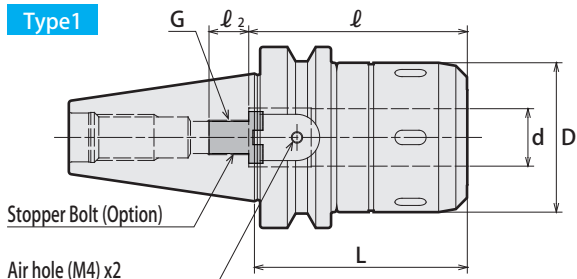
BT30 - CT 0750 SA - 75

Shank size I.D. Projection length

CT·SA

Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.



Caution

★ : Take caution against A.T.C. arm and tool magazine interference.

Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Metric Sizes

Unit : Metric

Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	ℓ	ℓ ₁	ℓ ₂	d ₁	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ²
3140 40116075	BT30 -CT16SA - 75	1	16	45	—	75	—	—	65	—	15	—	—	BL16	16,000	0.9	HS-1-16
3140 40116090	- 90	1	16	45	—	90	—	—	65	—	15	—	—	BL16	16,000	1.1	
3140 40120075	BT30 -CT20SA - 75	2	20	52	—	75	—	—	65	—	15	—	★ 27	BL20	15,000	1.0	HS-2-20
3140 40120090	- 90	2	20	52	—	90	—	—	80	—	15	—	40	BL20	14,000	1.2	
3140 40120105	- 105	2	20	52	—	105	—	—	80	—	15	—	55	BL20	12,000	1.3	
3140 40125090	BT30 -CT25SA - 90	2	25	61	—	90	—	—	80	—	15	—	★ 31	BL20	11,000	1.4	HS-2.5-25
3140 40125105	- 105	2	25	61	—	105	—	—	80	—	15	—	44	BL20	10,000	1.6	
3140 40132090	BT30 -CT32SA - 90	2	32	68	—	90	—	—	68	—	20	—	★ 30	BL32	8,000	1.6	HS-3-32
3140 40316075	BT40 -CT16SA - 75	1	16	45	—	75	—	—	65	—	15	—	—	BL16	20,000	1.4	HS-1-16
3140 40316090	- 90	1	16	45	—	90	—	—	65	—	15	—	—	BL16	20,000	1.6	
3140 40320075	BT40 -CT20SA - 75	1	20	52	—	75	—	—	75	—	15	—	—	BL20	18,000	1.5	HS-2-20
3140 40320090	- 90	1	20	52	—	90	—	—	80	—	15	—	—	BL20	18,000	1.8	
3140 40320105	- 105	1	20	52	—	105	—	—	80	—	15	—	—	BL20	18,000	2.1	
3140 40320120	- 120	1	20	52	—	120	—	—	80	—	15	—	—	BL20	18,000	2.3	
3140 40325090	BT40 -CT25SA - 90	1	25	61	—	90	—	—	80	—	15	—	—	BL20	16,000	2.0	HS-2.5-25
3140 40325105	- 105	1	25	61	—	105	—	—	80	—	15	—	—	BL20	16,000	2.3	
3140 40325120	- 120	1	25	61	—	120	—	—	80	—	15	—	—	BL20	16,000	2.7	
3140 40325135	- 135	1	25	61	—	135	—	—	80	—	15	—	—	BL20	14,000	3.0	
3140 40332090	BT40 -CT32SA - 90	2	32	73	—	90	—	—	76	32	17	26	★ 31	BL32	12,000	2.3	HS-3-32
3140 40332105	- 105	2	32	73	—	105	—	—	85	23	17	26	44	BL32	12,000	2.5	
3140 40332120	- 120	2	32	73	—	120	—	—	85	23	17	26	59	BL32	12,000	2.9	
3140 40332135	- 135	2	32	73	—	135	—	—	120	—	17	—	74	BL32	12,000	3.2	
3140 40516090	BT50 -CT16SA - 90	3	16	45	58	90	7	45	65	—	20	—	—	BL16	15,000	4.1	HS-1-16
3140 40516105	- 105	3	16	45	70	105	22	45	65	—	20	—	—	BL16	15,000	4.4	
3140 40516135	- 135	3	16	45	70	135	52	45	65	—	20	—	—	BL16	15,000	5.0	

Metric Sizes																Unit : Metric		
Code	Model	Type	d	D	D ₁	L	L ₁	L ₂	ℓ	ℓ ₁	ℓ ₂	d ₁	L ₀	G P=1.0	Max. min ⁻¹	kg	Spanner ²	
3140 40520090	BT50 -CT20SA - 90	3	20	52	65	90	7	45	80	—	15	—	—	BL20	15,000	4.2	HS-2-20	
3140 40520105	- 105	3	20	52	70	105	9	58	80	—	15	—	—	BL20	15,000	4.5		
3140 40520120	- 120	3	20	52	70	120	24	58	80	—	15	—	—	BL20	15,000	4.9		
3140 40520135	- 135	3	20	52	73	135	39	58	80	—	15	—	—	BL20	14,000	5.4		
3140 40520165	- 165	3	20	52	73	165	69	58	80	—	15	—	—	BL20	13,000	6.1		
3140 40520200	- 200	3	20	52	73	200	104	58	80	—	15	—	—	BL20	12,000	6.8		
3140 40520250	- 250	3	20	52	73	250	154	58	80	—	15	—	—	BL20	10,000	7.9		
3140 40520300	- 300	3	20	52	73	300	204	58	80	—	15	—	—	BL20	7,000	9.3		
3140 40525105	BT50 -CT25SA - 105	3	25	61	82	105	11	56	80	—	15	—	—	BL20	14,000	4.8		HS-2.5-25
3140 40525120	- 120	3	25	61	82	120	26	56	80	—	15	—	—	BL20	13,000	5.2		
3140 40525135	- 135	3	25	61	83	135	41	56	80	—	15	—	—	BL20	12,000	5.7		
3140 40525165	- 165	3	25	61	86	165	71	56	80	—	15	—	—	BL20	11,000	6.6		
3140 40525200	- 200	3	25	61	86	200	106	56	80	—	15	—	—	BL20	10,000	7.7		
3140 40525250	- 250	3	25	61	86	250	156	56	80	—	15	—	—	BL20	9,000	9.2		
3140 40525300	- 300	3	25	61	86	300	206	56	80	—	15	—	—	BL20	8,000	10.8		
3140 40532095	BT50 -CT32SA - 95	1	32	73	—	95	—	—	120	—	20	—	—	BL32	12,000	4.6	HS-3-32	
3140 40532105	- 105	1	32	73	—	105	—	—	120	—	20	—	—	BL32	12,000	4.9		
3140 40532120	- 120	3	32	73	87	120	26	56	120	—	20	—	—	BL32	12,000	5.6		
3140 40532135	- 135	3	32	73	88	135	41	56	120	—	20	—	—	BL32	12,000	6.2		
3140 40532150	- 150	3	32	73	87	150	56	56	120	—	20	—	—	BL32	11,000	6.7		
3140 40532165	- 165	3	32	73	86	165	71	56	120	—	20	—	—	BL32	10,000	7.2		
3140 40532200	- 200	3	32	73	88	200	106	56	120	—	20	—	—	BL32	9,000	8.6		
3140 40532250	- 250	3	32	73	88	250	156	56	120	—	20	—	—	BL32	8,000	10.5		
3140 40532300	- 300	3	32	73	88	300	206	56	120	—	20	—	—	BL32	7,000	12.4		
3140 40542095	BT50 -CT42SA - 95	1	42	88	—	95	—	—	120	—	20	—	—	BL32	10,000	5.0		HS-4-42
3140 40542105	- 105	1	42	88	—	105	—	—	120	—	20	—	—	BL32	10,000	5.4		
3140 40542120	- 120	1	42	88	—	120	—	—	120	—	20	—	—	BL32	10,000	6.1		
3140 40542135	- 135	1	42	88	—	135	—	—	120	—	20	—	—	BL32	10,000	6.8		
3140 40542150	- 150	1	42	88	—	150	—	—	120	—	20	—	—	BL32	10,000	7.4		
3140 40542165	- 165	1	42	88	—	165	—	—	120	—	20	—	—	BL32	9,000	8.1		
3140 40542200	- 200	1	42	88	—	200	—	—	120	—	20	—	—	BL32	8,000	9.7		
3140 40542250	- 250	1	42	88	—	250	—	—	120	—	20	—	—	BL32	7,000	12.0		
3140 40542300	- 300	1	42	88	—	300	—	—	120	—	20	—	—	BL32	6,000	14.2		

1. Use 2pcs. of M4 × 5 (S) hex screw (included) to close air holes on the holder when internal coolant is used.
2. When ordering, indicate number of spanners required. "Complimentary" spanners are limited to number of milling chucks on order.
3. Tolerance of cutting tool shank must be h7.
4. Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool.
Gradually increase from a low speed, and use at the proper speed.
5. Stopper bolts are sold separately.


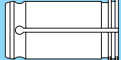

Min. insertion length

Without MC collet (Direct chucking)

I.D. of Milling Chuck	Min. insertion length
16mm, 20mm	40mm (1.575")
25mm, 32mm, 42mm	50mm (1.969")

With MC collet

Collet I.D.	Min. insertion length	
	MC	MC-C, MC-OH
6mm, 8mm	30mm (1.181")	30mm (1.181")
10mm, 12mm	40mm (1.575")	40mm (1.575")
16mm, 18mm, 20mm	45mm (1.772")	45mm (1.772")
25mm	50mm (1.969")	50mm (1.969")
32mm	50mm (1.969")	60mm (2.362")

Stopper Bolt BL P. 17 	Straight Collet MC P. 16 	Clamper BCL P. 23 
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Ordering Example

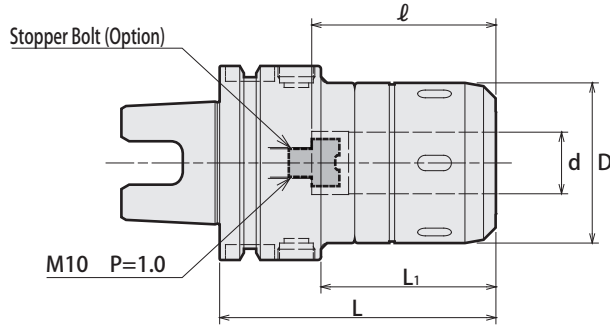
BT30 - CT 16 SA - 75
 Shank size I.D. Projection length

CT·SA

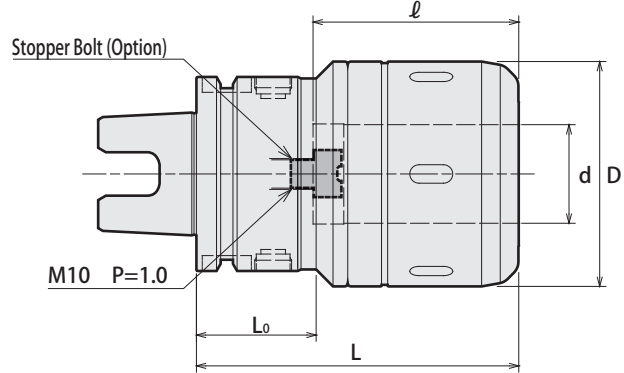
Super Tite-Lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.

Type1



Type2



Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Metric Sizes

Unit : Metric

Code	Model	Type	d	D	L	L ₁	ℓ	L ₀	Max. min ⁻¹	kg	Spanner ¹
1360 41116090	UTS5040 -CT16SA - 90 -H *1	1	16	45	90	60	60	-	16,000	1.1	HS-1-16
1360 41120090	UTS5040 -CT20SA - 90 -H *1	2	20	52	90	60	60	35	14,000	1.3	HS-2-20
1360 41120105	- 105 -H *1	2	20	52	105	75	75	50	12,000	1.5	
1360 41125105	UTS5040 -CT25SA - 105 -H *1	2	25	61	105	75	75	35	10,000	1.8	HS-2.5-25
1360 4※216090	UTS6350 -CT16SA - 90 (-H)	1	16	45	90	57	65	-	20,000	1.5	HS-1-16
1360 4※220090	UTS6350 -CT20SA - 90 (-H) *1	1	20	52	90	57	65	-	18,000	1.6	
1360 4※220105	- 105 (-H)	1	20	52	105	72	75	-	17,000	1.8	HS-2-20
1360 4※220135	- 135 (-H)	1	20	52	135	102	80	-	15,000	2.2	
1360 4※225105	UTS6350 -CT25SA - 105 (-H)	1	25	61	105	72	75	-	15,000	2.1	
1360 4※225120	- 120 (-H)	1	25	61	120	87	75	-	14,000	2.5	HS-2.5-25
1360 4※225135	- 135 (-H)	1	25	61	135	102	80	-	12,000	2.8	
1360 4※232105	UTS6350 -CT32SA - 105 (-H) *1	2	32	73	105	72	80	39	11,000	2.5	
1360 4※232120	- 120 (-H) *1	2	32	73	120	87	90	54	10,000	2.8	HS-3-32
1360 4※232150	- 150 (-H) *1	2	32	73	150	117	120	84	10,000	3.3	
1360 4※316090	UTS10080 -CT16SA - 90 (-H)	1	16	45	90	56	65	-	12,500	3.0	HS-1-16
1360 4※316105	- 105 (-H)	1	16	45	105	71	65	-	12,500	3.4	
1360 4※320090	UTS10080 -CT20SA - 90 (-H) *1	1	20	52	90	56	65	-	12,500	3.2	
1360 4※320105	- 105 (-H) *1	1	20	52	105	71	70	-	12,500	3.5	
1360 4※320120	- 120 (-H)	1	20	52	120	86	80	-	12,500	3.9	HS-2-20
1360 4※320135	- 135 (-H)	1	20	52	135	101	80	-	12,500	4.2	
1360 4※320150	- 150 (-H)	1	20	52	150	116	80	-	12,500	4.6	
1360 4※325105	UTS10080 -CT25SA - 105 (-H) *1	1	25	61	105	71	70	-	12,500	3.8	
1360 4※325120	- 120 (-H)	1	25	61	120	86	80	-	12,500	4.1	HS-2.5-25
1360 4※325135	- 135 (-H)	1	25	61	135	101	80	-	12,500	4.5	
1360 4※325150	- 150 (-H)	1	25	61	150	116	80	-	12,500	5.0	
1360 4※332105	UTS10080 -CT32SA - 105 (-H) *1	1	32	73	105	71	70	-	12,000	4.2	
1360 4※332120	- 120 (-H) *1	1	32	73	120	86	85	-	12,000	4.6	HS-3-32
1360 4※332135	- 135 (-H) *1	1	32	73	135	101	100	-	12,000	5.0	
1360 4※332150	- 150 (-H) *1	1	32	73	150	116	115	-	12,000	5.4	
1360 4※342120	UTS10080 -CT42SA - 120 (-H) *1	1	42	88	120	86	85	-	10,000	5.4	
1360 4※342135	- 135 (-H) *1	1	42	88	135	101	100	-	10,000	6.0	HS-4-42
1360 4※342150	- 150 (-H) *1	1	42	88	150	116	110	-	10,000	6.6	
1360 4※342165	- 165 (-H) *1	1	42	88	165	131	120	-	10,000	7.2	



When placing an order, please specify high or low pressure. For high pressure type, please add (-H) on end of the description.

In the Item Code, replace the □ with 1 to indicate high pressure, and 0 to indicate low pressure.

1. When ordering, indicate number of spanners required. "Complimentary" spanners are limited to number of milling chucks on order.
2. Tolerance of cutting tool shank must be h7.
3. Only high pressure type is available for UTS5040.
4. Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool.
Gradually increase from a low speed, and use at the proper speed.
5. Stopper bolts are sold separately.

Accessories

Models with *1 cannot be used with some accessories due to short l length.

	Stopper Bolt 	Straight Collet 
	BL (P. 17)	MC (P. 16)
*1	BL16 only	○



Min. insertion length

Without MC collet (Direct chucking)

I.D. of Milling Chuck	Min. insertion length
16mm, 20mm	40mm (1.575")
25mm, 32mm, 42mm	50mm (1.969")

With MC collet

Collet I.D.	Min. insertion length	
	MC	MC-C, MC-OH
6mm, 8mm	30mm (1.181")	30mm (1.181")
10mm, 12mm	40mm (1.575")	40mm (1.575")
16mm, 18mm, 20mm	45mm (1.772")	45mm (1.772")
25mm	50mm (1.969")	50mm (1.969")
32mm	50mm (1.969")	60mm (2.362")

Ordering Example

Low pressure type

0 ~ 1.0MPa (UTS10080 : 0 ~ 2.0MPa)

UTS6350 -CT 32 SA- 105

Shank size I.D. Projection length

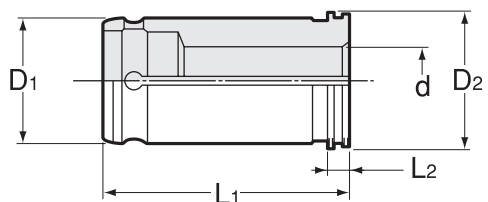
Ordering Example

High pressure type

1.1 ~ 7.0MPa (UTS10080 : 2.1 ~ 7.0MPa)

UTS6350 -CT 32 SA- 105 - H

Shank size I.D. Projection length High pressure type



Inch Sizes

Unit : Inch

Type	D ₁	D ₂	L ₁	L ₂
MC 0750	0.750	0.945	2.362	0.157
1000	1.000	1.142	2.362	0.157
1250	1.250	1.417	2.835	0.157
2000	2.000	2.244	3.346	0.157

Metric Sizes

Unit : Metric

Type	D ₁	D ₂	L ₁	L ₂
MC 16	16	19	50	4
20	20	24	60	4
25	25	29	60	4
32	32	36	72	4
42	42	47	85	4

Coolant Collet MC-OH (for tools with coolant hole)

Tool shank dia. d	Collet outside diameter D ₁								
	0.750	1.000	1.250	2.000	16mm	20mm	25mm	32mm	42mm
1/4	MC0750-0250-OH	MC1000-0250-OH	MC1250-0250-OH		MC16-0250-OH	MC20-0250-OH	MC25-0250-OH	MC32-0250-OH	MC42-0250-OH
5/16	MC0750-0312-OH	MC1000-0312-OH	MC1250-0312-OH		MC16-0312-OH	MC20-0312-OH	MC25-0312-OH	MC32-0312-OH	MC42-0312-OH
3/8	MC0750-0375-OH	MC1000-0375-OH	MC1250-0375-OH		MC16-0375-OH	MC20-0357-OH	MC25-0375-OH	MC32-0375-OH	MC42-0375-OH
7/16	MC0750-0437-OH	MC1000-0437-OH	MC1250-0437-OH		MC16-0437-OH	MC20-0437-OH	MC25-0437-OH	MC32-0437-OH	MC42-0437-OH
1/2	MC0750-0500-OH	MC1000-0500-OH	MC1250-0500-OH		MC16-0500-OH	MC20-0500-OH	MC25-0500-OH	MC32-0500-OH	MC42-0500-OH
9/16	MC0750-0562-OH	MC1000-0562-OH	MC1250-0562-OH			MC20-0562-OH	MC25-0562-OH	MC32-0562-OH	MC42-0562-OH
5/8	MC0750-0625-OH	MC1000-0625-OH	MC1250-0625-OH			MC20-0625-OH	MC25-0625-OH	MC32-0625-OH	MC42-0625-OH
3/4		MC1000-0750-OH	MC1250-0750-OH				MC25-0750-OH	MC32-0750-OH	MC42-0750-OH
7/8		MC1000-0875-OH	MC1250-0875-OH				MC25-0875-OH	MC32-0875-OH	MC42-0875-OH
1			MC1250-1000-OH	MC2000-1000-OH				MC32-1000-OH	MC42-1000-OH
1-1/4				MC2000-1250-OH					MC42-1250-OH
1-1/2				MC2000-1500-OH					MC42-1500-OH
6mm	MC0750-6-OH	MC1000-6-OH	MC1250-6-OH		MC16-6-OH	MC20-6-OH	MC25-6-OH	MC32-6-OH	MC42-6-OH
8mm	MC0750-8-OH	MC1000-8-OH	MC1250-8-OH		MC16-8-OH	MC20-8-OH	MC25-8-OH	MC32-8-OH	MC42-8-OH
10mm	MC0750-10-OH	MC1000-10-OH	MC1250-10-OH		MC16-10-OH	MC20-10-OH	MC25-10-OH	MC32-10-OH	MC42-10-OH
12mm	MC0750-12-OH	MC1000-12-OH	MC1250-12-OH		MC16-12-OH	MC20-12-OH	MC25-12-OH	MC32-12-OH	MC42-12-OH
16mm	MC0750-16-OH	MC1000-16-OH	MC1250-16-OH			MC20-16-OH	MC25-16-OH	MC32-16-OH	MC42-16-OH
18mm		MC1000-18-OH	MC1250-18-OH				MC25-18-OH	MC32-18-OH	MC42-18-OH
20mm		MC1000-20-OH	MC1250-20-OH				MC25-20-OH	MC32-20-OH	MC42-20-OH
25mm			MC1250-25-OH					MC32-25-OH	MC42-25-OH
32mm									MC42-32-OH

1. Not applicable for some holder sizes. Please see milling chuck pages.

※ Both OH and C type collets can be used without coolant.

Ordering Example

MC 42 - 32 - OH
size (D₁) d

Coolant Collet MC-C (for tools without coolant hole)

Tool shank dia. d	Collet outside diameter D ₁								
	0.750	1.000	1.250	2.000	16mm	20mm	25mm	32mm	42mm
1/4	MC0750-0250-C	MC1000-0250-C	MC1250-0250-C		MC16-0250-C	MC20-0250-C	MC25-0250-C	MC32-0250-C	MC42-0250-C
5/16	MC0750-0312-C	MC1000-0312-C	MC1250-0312-C		MC16-0312-C	MC20-0312-C	MC25-0312-C	MC32-0312-C	MC42-0312-C
3/8	MC0750-0375-C	MC1000-0375-C	MC1250-0375-C		MC16-0375-C	MC20-0357-C	MC25-0375-C	MC32-0375-C	MC42-0375-C
7/16	MC0750-0437-C	MC1000-0437-C	MC1250-0437-C		MC16-0437-C	MC20-0437-C	MC25-0437-C	MC32-0437-C	MC42-0437-C
1/2	MC0750-0500-C	MC1000-0500-C	MC1250-0500-C		MC16-0500-C	MC20-0500-C	MC25-0500-C	MC32-0500-C	MC42-0500-C
9/16	MC0750-0562-C	MC1000-0562-C	MC1250-0562-C			MC20-0562-C	MC25-0562-C	MC32-0562-C	MC42-0562-C
5/8	MC0750-0625-C	MC1000-0625-C	MC1250-0625-C			MC20-0625-C	MC25-0625-C	MC32-0625-C	MC42-0625-C
3/4		MC1000-0750-C	MC1250-0750-C				MC25-0750-C	MC32-0750-C	MC42-0750-C
7/8		MC1000-0875-C	MC1250-0875-C				MC25-0875-C	MC32-0875-C	MC42-0875-C
1			MC1250-1000-C	MC2000-1000-C				MC32-1000-C	MC42-1000-C
1-1/4				MC2000-1250-C					MC42-1250-C
1-1/2				MC2000-1500-C					MC42-1500-C
6mm	MC0750-6-C	MC1000-6-C	MC1250-6-C		MC16-6-C	MC20-6-C	MC25-6-C	MC32-6-C	MC42-6-C
8mm	MC0750-8-C	MC1000-8-C	MC1250-8-C		MC16-8-C	MC20-8-C	MC25-8-C	MC32-8-C	MC42-8-C
10mm	MC0750-10-C	MC1000-10-C	MC1250-10-C		MC16-10-C	MC20-10-C	MC25-10-C	MC32-10-C	MC42-10-C
12mm	MC0750-12-C	MC1000-12-C	MC1250-12-C		MC16-12-C	MC20-12-C	MC25-12-C	MC32-12-C	MC42-12-C
16mm	MC0750-16-C	MC1000-16-C	MC1250-16-C			MC20-16-C	MC25-16-C	MC32-16-C	MC42-16-C
18mm		MC1000-18-C	MC1250-18-C				MC25-18-C	MC32-18-C	MC42-18-C
20mm		MC1000-20-C	MC1250-20-C				MC25-20-C	MC32-20-C	MC42-20-C
25mm			MC1250-25-C					MC32-25-C	MC42-25-C
32mm									MC42-32-C

1. Not applicable for some holder sizes. Please see milling chuck pages.

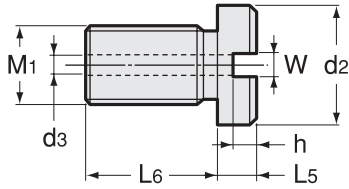
※ Both OH and C type collets can be used without coolant.

Ordering Example

MC 42 - 32 - C
size (D₁) d

Stopper Bolt BL (for BT, CAT, AHO, UTS)

Unit : Metric



Ordering Example

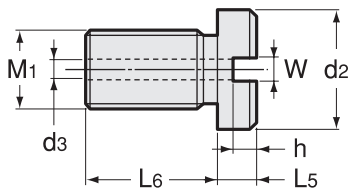
BL 16 - 15
size L5

Code	Model	M1 P=1.0	L5	L6	W	h	d2	d3	Chucks
0711 040016 ※※	BL 16 - L5	10	5, 15, 25	14	5	3.5	15	4.5	CT16
0711 040020 ※※	BL 20 - L5	12	5, 15, 25	14	5	3.5	18	4.5	CT20, CT25 CT0750, CT1000
0711 040032 ※※	BL 32 - L5	18	10, 20, 35	17	5	5	25	4.5	CT32, CT42 CT1250, CT2000

1. Stopper bolts are sold separately.
2. Choose right L5 dimension by checking minimum insertion length and shank I.D. depth.

Stopper Bolt HSK-BL (for HSK-A)

Unit : Metric



Ordering Example

HSK63 - BL 16 - 15
Shank Size size L5

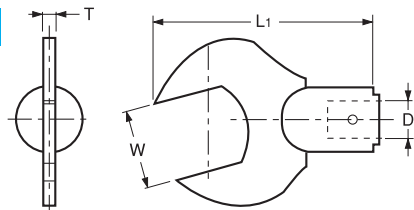
Code	Model	M1	L5	L6	W	h	d2	d3	Shank size
5691 040040 ※※	HSK40 -BL - L5	M5 P=0.8	5, 15, 25	8.5	5	2.5	13	2.5	HSK40A, HSK50A
5691 04006305	HSK63 -BL -5	M8 P=1.25	5	5.5	5	3	15	4	HSK63A
5691 040063 ※※	HSK63 -BL - L5	M8 P=1.25	15, 25	7.5	5	3	15	4	HSK63A
5691 040100 ※※	HSK100 -BL - L5	M10 P=1.5	5, 15, 25	14	5	3.5	15	4.5	HSK100A

1. Stopper bolts are sold separately.
2. Choose right L5 dimension by checking minimum insertion length and shank I.D. depth.

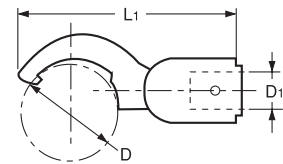
Spanner Head & Torque Wrench (For ST Series Extensions)

Spanner head

Type1



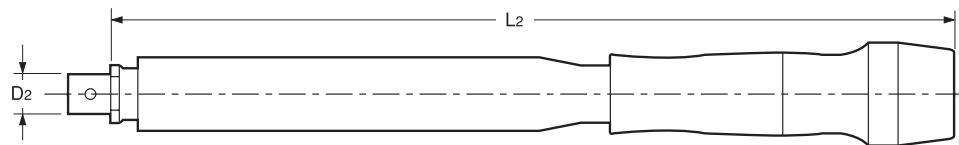
Type2



Code	Nut	Spanner	Model	Type	W	T	D	D1	L1	Torque (Nm)	Torque wrench
3150 00001110	ERP-8	S-8E	SH-11-10	1	11	6.5	—	10	51	5 ~ 7	CL25N×10D
3150 00001410	ERP-11S	S-11E	SH-14-10	1	14	6.5	—	10	52	15 ~ 20	CL25N×10D
3150 00002310	HDP-07A	S-0	SH-23-10	2	—	—	23	10	60	10 ~ 15	CL25N×10D
3150 00000115	HDP-09	S-1L	SH-1A-15	1	24	4.5	—	15	78	30 ~ 35	CL50N×15D
3150 00000315	HDP-12	S-3L	SH-3A-15	1	30	4.5	—	15	83	35 ~ 40	CL100N×15D
3150 00000415	HDP-16	S-4L	SH-4A-15	1	33	4.5	—	15	84	40 ~ 45	CL100N×15D
3150 00000515	HDP-22	S-5L	SH-5A-15	1	42	5.5	—	15	89	55 ~ 60	CL100N×15D
3150 00002310	ERP-11	S-0	SH-23-10	2	—	—	23	10	60	10 ~ 15	CL25N×10D
3150 00003415	ERP-16	FK-0034	SH-34-15	2	—	—	32	15	82	35 ~ 40	CL100N×15D
	ERP-20						40 ~ 45				
	ERP-25						55 ~ 66				
—	ERP-25	HS-1-16	—*	2	—	—	42	—	—	55 ~ 66	—
—	ERP-32	HS-2-20	—*	2	—	—	50	—	—	65 ~ 70	—

* Please contact NT USA for spanner head other than listed above.

Torque wrench



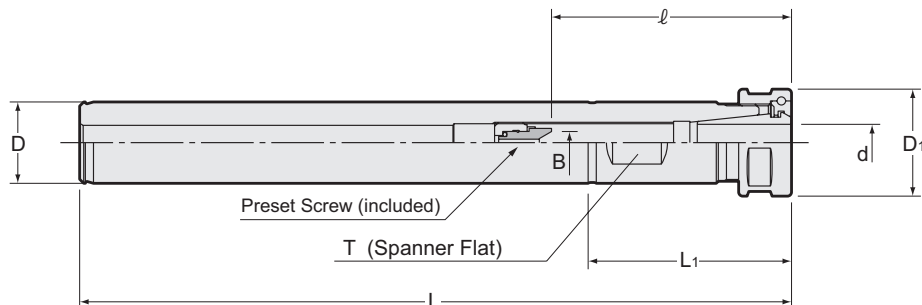
Code	Model	Torque range	D2	L2	Spanner head
3154 01010000	CL 25N5 × 10D	5 ~ 25Nm	10	205	SH-11-10, SH-14-10, SH-23-10
3154 00020000	CL 50N × 15D	10 ~ 50Nm	15	219	SH-1A-15, SH-25-15
3154 00030000	CL 100N × 15D	20 ~ 100Nm	15	294	SH-3A-15, SH-4A-15, SH-5A-15, SH-30-15, SH-34-15, SH-45-15
3154 00040000	CL 200N × 19D	40 ~ 200Nm	19	435	SH-6A-19

Please use spanner head with correct torque in accordance with manual.

ST-HDC·A

Flex Chuck / Collet Extension

- For drilling in tight space. Also suitable as sub-holder of milling chuck.



Metric Sizes (Shank)

Unit : Metric

Code	Model	d	D _{0.012} ⁰	D1	L	L1	B	ℓ	T	kg	Preset Screw	Nut	Collet	Spanner
0400 12009175	ST20 -HDC09A -175	2.5~9.0	20	26	175	50	0~4	27~56	17	0.4	HDS-09	HDP-09	FDC-09	S-1L
0400 13212185	ST32 -HDC12A -185	2.5~12.0	32	32	185	51	0~6	34~70	29	1.0	HDS-12	HDP-12	FDC-12	S-3L
0400 13212235	-235	2.5~12.0	32	32	235	51	0~6	34~70	29	1.2	HDS-12	HDP-12		

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing are sold separately. Standard preset screw is included.

2. ℓ indicates dimension when using with a preset screw.

Ordering Example

ST20 - HDC 09 A - 175

Shank size

Max. collet I.D.

Projection length (L)

Inch Sizes (Shank)

Unit : Inch

Code	Model	d	D _{0.0005} ⁰	D1	L	L1	B	ℓ	T	kg	Preset Screw	Nut	Collet	Spanner
0400 22409175	ST0750 -HDC09A -175	0.098~0.354	0.750	1.024	6.890	1.969	0.0~0.157	1.063~2.126	0.669 (17mm)	0.4	HDS-09	HDP-09	FDC-09	S-1L
0400 24012185	ST1250 -HDC12A -185	0.098~0.472	1.250	1.260	7.283	2.008	0.0~0.236	1.338~2.598	1.142 (29mm)	1.0	HDS-12	HDP-12	FDC-12	S-3L
0400 24012235	-235	0.098~0.472	1.250	1.260	9.252	2.008	0.0~0.236	1.338~2.598	1.142 (29mm)		HDS-12	HDP-12		

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing are sold separately. Standard preset screw is included.

2. ℓ indicates dimension when using with a preset screw.

Ordering Example

ST0750 - HDC 09 A - 175

Shank size

Max. collet I.D.

Projection length (L)

Collet

P. 22



Spanner

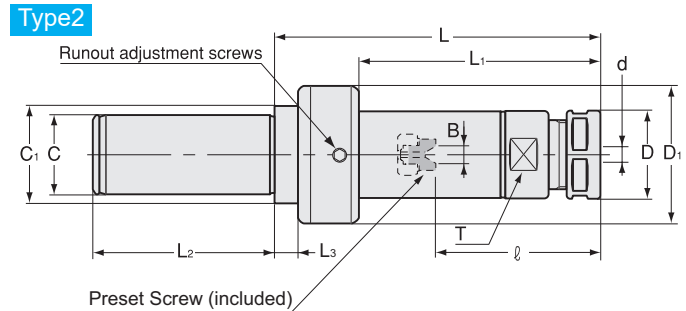
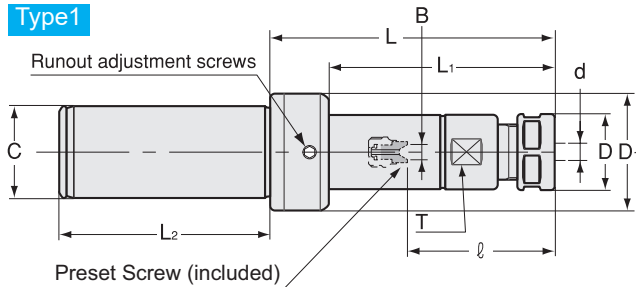
P. 17



ST-HDZ

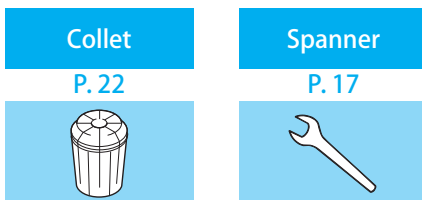
“R” Zero Holder / Runout Adjustable Extension

- Collet holder with a runout adjustment function. Suitable for drilling in tight space as well as use for sub-holder of milling chuck.



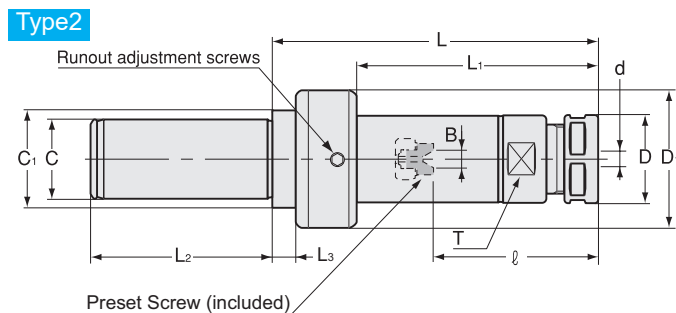
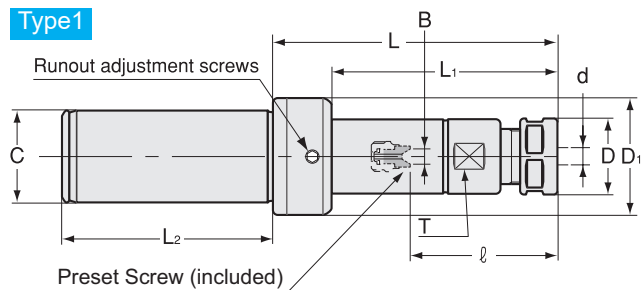
Metric Sizes (Shank)																	Unit : Metric			
Code	Model	Type	d	C _{0.012}	C1	L	L1	L2	L3	B	ℓ	D	D1	T	kg	Preset Screw	Nut	Collet	Spanner	Wrench
3100 02007075	ST20 -HDZ07 -75	2	0.5-7.0	20	28	75	44	57	10	0-4	22-45	23	41	19		HDS-07	HDP-07A			
3100 02007120	-120	2	0.5-7.0	20	28	120	89	57	10	0-4	22-45	23	41	19		HDS-07	HDP-07A	FDC-07	S-0	L-3T
3100 02007165	-165	2	0.5-7.0	20	28	165	134	57	10	0-4	22-45	23	41	19		HDS-07	HDP-07A			
3100 02009075	ST20 -HDZ09 -75	2	2.5-9.0	20	28	75	44	57	10	0-4	27-60	26	41	24	0.5	HDS-09	HDP-09			
3100 02009120	-120	2	2.5-9.0	20	28	120	89	57	10	0-4	27-60	26	41	24	0.6	HDS-09	HDP-09	FDC-09	S-1L	L-3T
3100 02009165	-165	2	2.5-9.0	20	28	165	134	57	10	0-4	27-60	26	41	24		HDS-09	HDP-09			
3100 03207060	ST32 -HDZ07 -60	1	0.5-7.0	32	—	60	39	70	—	0-4	22-45	23	41	19	0.7	HDS-07	HDP-07A			
3100 03207105	-105	1	0.5-7.0	32	—	105	84	70	—	0-4	22-45	23	41	19		HDS-07	HDP-07A	FDC-07	S-0	L-3T
3100 03207150	-150	1	0.5-7.0	32	—	150	129	70	—	0-4	22-45	23	41	19		HDS-07	HDP-07A			
3100 03209075	ST32 -HDZ09 -75	1	2.5-9.0	32	—	75	54	70	—	0-4	27-60	26	41	24		HDS-09	HDP-09			
3100 03209120	-120	1	2.5-9.0	32	—	120	99	70	—	0-4	27-60	26	41	24		HDS-09	HDP-09	FDC-09	S-1L	L-3T
3100 03209165	-165	1	2.5-9.0	32	—	165	144	70	—	0-4	27-60	26	41	24		HDS-09	HDP-09			
3100 03212090	ST32 -HDZ12 -90	2	2.5-12.0	32	40	90	55	70	10	0-5	33-69	32	52	30	1.0	HDS-12	HDP-12			
3100 03212135	-135	2	2.5-12.0	32	40	135	100	70	10	0-5	33-69	32	52	30	1.3	HDS-12	HDP-12	FDC-12	S-3L	L-4T
3100 03212180	-180	2	2.5-12.0	32	40	180	145	70	10	0-5	33-69	32	52	30		HDS-12	HDP-12			
3100 03216090	ST32 -HDZ16 -90	2	3.5-16.0	32	40	90	55	70	10	0-6	38-82	36	56	30	1.1	HDS-16	HDP-16			
3100 03216135	-135	2	3.5-16.0	32	40	135	100	70	10	0-6	38-82	36	56	30		HDS-16	HDP-16	FDC-16	S-4L	L-4T
3100 03216180	-180	2	3.5-16.0	32	40	180	145	70	10	0-6	38-82	36	56	30		HDS-16	HDP-16			
3100 03222105	ST32 -HDZ22 -105	2	3.5-22.0	32	40	105	64	70	7	0-8	47-73	46	69	42	1.6	HDS-22	HDP-22			
3100 03222150	-150	2	3.5-22.0	32	40	150	109	70	7	0-8	47-103	46	69	42	2.1	HDS-22	HDP-22	FDC-22	S-5L	L-5T
3100 03222195	-195	2	3.5-22.0	32	40	195	154	70	7	0-8	47-103	46	69	42		HDS-22	HDP-22			
3100 04212090	ST42 -HDZ12 -90	1	2.5-12.0	42	—	90	65	75	—	0-5	33-69	32	52	30		HDS-12	HDP-12			
3100 04212135	-135	1	2.5-12.0	42	—	135	110	75	—	0-5	33-69	32	52	30		HDS-12	HDP-12	FDC-12	S-3L	L-4T
3100 04212180	-180	1	2.5-12.0	42	—	180	155	75	—	0-5	33-69	32	52	30		HDS-12	HDP-12			
3100 04216090	ST42 -HDZ16 -90	1	3.5-16.0	42	—	90	65	75	—	0-6	38-82	36	56	30		HDS-16	HDP-16			
3100 04216135	-135	1	3.5-16.0	42	—	135	110	75	—	0-6	38-82	36	56	30		HDS-16	HDP-16	FDC-16	S-4L	L-4T
3100 04216180	-180	1	3.5-16.0	42	—	180	155	75	—	0-6	38-82	36	56	30		HDS-16	HDP-16			
3100 04222105	ST42 -HDZ22 -105	2	3.5-22.0	42	52	105	64	75	7	0-8	47-103	46	69	42		HDS-22	HDP-22			
3100 04222150	-150	2	3.5-22.0	42	52	150	109	75	7	0-8	47-103	46	69	42		HDS-22	HDP-22	FDC-22	S-5L	L-5T
3100 04222195	-195	2	3.5-22.0	42	52	195	154	75	7	0-8	47-103	46	69	42		HDS-22	HDP-22			

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing, and adjustment wrench are sold separately. Standard preset screw is included.
 2. ℓ indicates dimension when using with a preset screw.



Ordering Example

ST32 - HDZ 12 - 90
 Shank size Max. collet I.D. Projection length (L)



Inch Sizes (Shank)

Unit : Inch

Code	Model	Type	d	C ⁰ _{-0.0005}	C1	L	ℓ	L1	L2	L3	B	D	D1	T	kg	Preset Screw	Nut	Collet	Spanner	Wrench
3100 12407075	ST0750 -HDZ07 -75	2	0.020~0.276	0.750	1.102	2.953	0.866~1.772	1.732	2.24	0.39	0.0~0.157	0.906	1.614	0.748 (19mm)		HDS-07	HDP-07A			
3100 12407120	-120	2	0.020~0.276	0.750	1.102	4.724	0.866~1.772	3.504	2.24	0.39	0.0~0.157	0.906	1.614	0.748 (19mm)	0.6	HDS-07	HDP-07A	FDC-07	S-0	
3100 12407165	-165	2	0.020~0.276	0.750	1.102	6.496	0.866~1.772	5.276	2.24	0.39	0.0~0.157	0.906	1.614	0.748 (19mm)		HDS-07	HDP-07A			
3100 12409075	ST0750 -HDZ09 -75	2	0.098~0.354	0.750	1.102	2.953	1.063~2.244	1.732	2.24	0.39	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09			L-3T (3mm)
3100 12409120	-120	2	0.098~0.354	0.750	1.102	4.724	1.063~2.244	3.504	2.24	0.39	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09	FDC-09	S-1L	
3100 12409165	-165	2	0.098~0.354	0.750	1.102	6.496	1.063~2.244	5.276	2.24	0.39	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09			
3100 14007060	ST1250 -HDZ07 -60	1	0.020~0.276	1.250	—	2.362	0.866~1.772	1.535	2.76	—	0.0~0.157	0.906	1.614	0.748 (19mm)		HDS-07	HDP-07A			
3100 14007105	-105	1	0.020~0.276	1.250	—	4.134	0.866~1.772	3.307	2.76	—	0.0~0.157	0.906	1.614	0.748 (19mm)		HDS-07	HDP-07A	FDC-07	S-0	
3100 14007150	-150	1	0.020~0.276	1.250	—	5.906	0.866~1.772	5.079	2.76	—	0.0~0.157	0.906	1.614	0.748 (19mm)		HDS-07	HDP-07A			L-3T (3mm)
3100 14009075	ST1250 -HDZ09 -75	1	0.098~0.354	1.250	—	2.953	1.063~2.244	2.126	2.76	—	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09			
3100 14009120	-120	1	0.098~0.354	1.250	—	4.724	1.063~2.244	3.898	2.76	—	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09	FDC-09	S-1L	
3100 14009165	-165	1	0.098~0.354	1.250	—	6.496	1.063~2.244	5.669	2.76	—	0.0~0.157	1.024	1.614	0.945 (24mm)		HDS-09	HDP-09			
3100 14012090	ST1250 -HDZ12 -90	2	0.098~0.472	1.250	1.575	3.543	1.299~2.677	2.165	2.76	0.39	0.0~0.197	1.260	2.047	1.811 (30mm)		HDS-12	HDP-12			
3100 14012135	-135	2	0.098~0.472	1.250	1.575	5.315	1.299~2.677	3.937	2.76	0.39	0.0~0.197	1.260	2.047	1.811 (30mm)		HDS-12	HDP-12	FDC-12	S-3L	
3100 14012180	-180	2	0.098~0.472	1.250	1.575	7.087	1.299~2.677	5.709	2.76	0.39	0.0~0.197	1.260	2.047	1.811 (30mm)		HDS-12	HDP-12			L-4T (4mm)
3100 14016090	ST1250 -HDZ16 -90	2	0.138~0.630	1.250	1.575	3.543	1.496~3.189	2.165	2.76	0.39	0.0~0.236	1.417	2.205	1.811 (30mm)	1.1	HDS-16	HDP-16			
3100 14016135	-135	2	0.138~0.630	1.250	1.575	5.315	1.496~3.189	3.937	2.76	0.39	0.0~0.236	1.417	2.205	1.811 (30mm)	1.4	HDS-16	HDP-16	FDC-16	S-4L	
3100 14016180	-180	2	0.138~0.630	1.250	1.575	7.087	1.496~3.189	5.709	2.76	0.39	0.0~0.236	1.417	2.205	1.811 (30mm)	1.7	HDS-16	HDP-16			
3100 14022105	ST1250 HDZ22 -105	2	0.318~0.866	1.250	1.575	4.134	1.850~2.874	2.520	2.76	0.28	0.0~0.315	1.811	2.717	1.654 (42mm)		HDS-22	HDP-22			
3100 14022150	-150	2	0.318~0.866	1.250	1.575	5.906	1.850~4.055	4.291	2.76	0.28	0.0~0.315	1.811	2.717	1.654 (42mm)		HDS-22	HDP-22	FDC-22	S-5L	L-5T (5mm)
3100 14022195	-195	2	0.318~0.866	1.250	1.575	7.677	1.850~4.055	6.063	2.76	0.28	0.0~0.315	1.811	2.717	1.654 (42mm)		HDS-22	HDP-22			

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing, and adjustment wrench are sold separately. Standard preset screw is included.

2. ℓ indicates dimension when using with a preset screw.

Collet

P. 22



Spanner

P. 17



Ordering Example

ST1250 - HDZ 12 - 90

Shank size

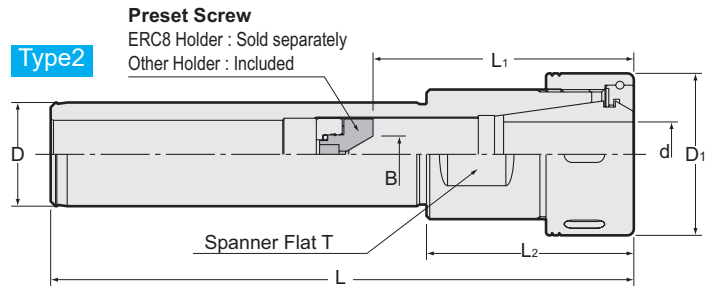
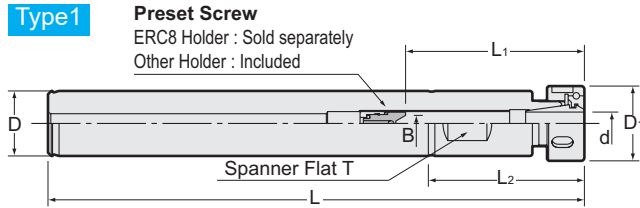
Max. collet I.D.

Projection length (L)

ST-ERC

Collet Holder for Small Diameters / Extension For Small Spaces

- Suitable for machining in tight space.



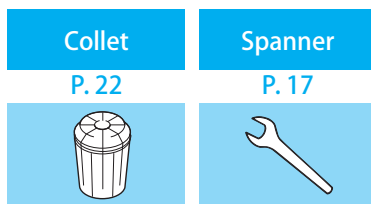
Metric Sizes (Shank)														Unit : Metric	
Code	Model	Type	d	L	B	L1	L2	D _{0.012} ⁰	D1	T	Preset Screw	Nut	kg	Collet	Spanner
0410 01208075	ST12 -ERC8* -75	1	0.5~5.0	75	— (0~2.4)	34 (19~31)	32	12	12	10	—	ERP-8	0.05		
0410 01208105	-105	1	0.5~5.0	105	— (0~2.4)	34 (19~31)	32	12	12	10	—	ERP-8	0.07	ER8	S-8E
0410 01208135	-135	1	0.5~5.0	135	— (0~2.4)	34 (19~31)	32	12	12	10	—	ERP-8	0.1		
0410 01610105	ST16 -ERC11S -105	1	0.5~7.0	105	0~4.0	22~45	35	16	16	14	HDS07A-ES11	ERP-11S	0.2		
0410 01610135	-135	1	0.5~7.0	135	0~4.0	22~45	35	16	16	14	HDS07A-ES11	ERP-11S	0.2	ER11	S-11E
0410 01610165	-165	1	0.5~7.0	165	0~4.0	22~45	35	16	16	14	HDS07A-ES11	ERP-11S	0.2		
0410 02011165	ST20 ERC11 -165	1	0.5~7.0	165	0~4.0	22~42	48	20	23	17	HDS07A-ES11	HDP-07A	0.4	ER11	S-0
0410 02016165	ST20 ERC16 -165	2	0.5~10.0	165	0~5.0	33~54	51	20	32	19	ES16	ERP-16	0.4	ER16	FK-0030
0410 03225180	ST32 ERC25 -180	1	0.5~16.0	180	0~8.0	43~80	59	32	42	29	HDS16A-ES25	ERP-25		ER25	HS-1-16
0410 03232180	ST32 ERC32 -180	2	2.0~20.0	180	0~10.0	50~101	64	32	50	36	HDS22A-ES32	ERP-32		ER32	HS-2-20

Inch Sizes (Shank)														Unit : Inch	
Code	Model	Type	d	L	B	L1	L2	D _{0.0005} ⁰	D1	T	Preset Screw	Nut	kg	Collet	Spanner
0410 12411165	ST0750 ERC11 -165	1	0.020~0.276	6.496	0.0~0.157	0.866~1.654	1.890	0.750	0.906	0.669 (17mm)	HDS07A-ES11	HDP-07A	0.3	ER11	S-0
0410 12416165	ST0750 ERC16 -165	2	0.020~0.394	6.496	0.0~0.197	1.299~2.126	2.008	0.750	1.260	0.748 (19mm)	ES16	ERP-16		ER16	FK-0030
0410 14025180	ST1250 ERC25 -180	1	0.020~0.630	7.087	0.0~0.315	1.693~3.150	2.323	1.250	1.654	1.142 (29mm)	HDS16A-ES25	ERP-25		ER25	HS-1-16
0410 14032180	ST1250 ERC32 -180	2	0.079~0.787	7.087	0.0~0.394	1.969~3.976	2.520	1.250	1.969	1.417 (36mm)	HDS22A-ES32	ERP-32		ER32	HS-2-20

1. Collet and spanner are sold separately.
2. *ES8, a preset screw for ERC8, is sold separately. ERC11S includes a standard preset screw HDS-07A-ES11.
3. " B " and " L1 " indicates dimension when using with a preset screw.

Ordering Example

ST0750 - ERC 11 - 105
 Shank size ER Collet Series Projection length (L)



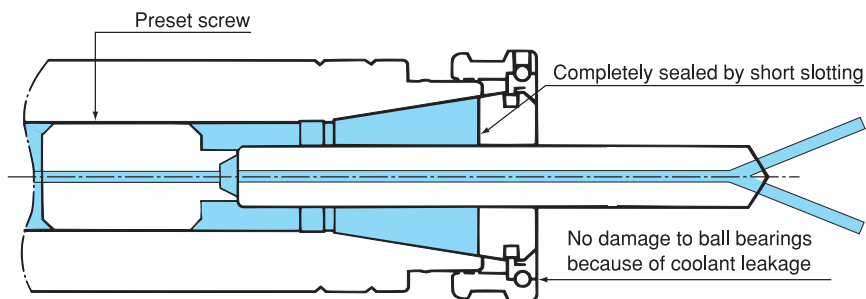
Preset Screw

Unit : Metric

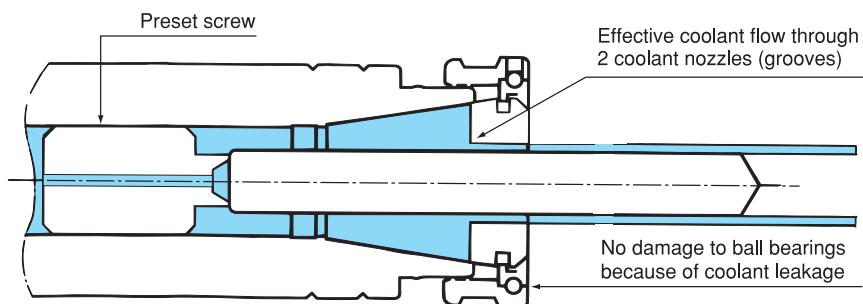
Code	Model	B	M	L	L1	Holder size
2555 0000008	ES8	4	M5 P=0.8	21	12	ERC8
2555 00070011	HDS-07A-ES11	5.5	M8 P=1	—	14.5	ERC11S, ERC11
2555 00000016	ES16	9.8	M11 P=1	—	14.5	ERC16
2555 00120020	HDS12A-ES20	12.8	M14 P=1	—	16	ERC20
2555 00160025	HDS16A-ES25	15.8	M17 P=1	—	16	ERC25
2555 00220032	HDS22A-ES32	20	M23 P=1	—	18	ERC32

Collet

OH type Tool with coolant hole



C type For collet through coolant



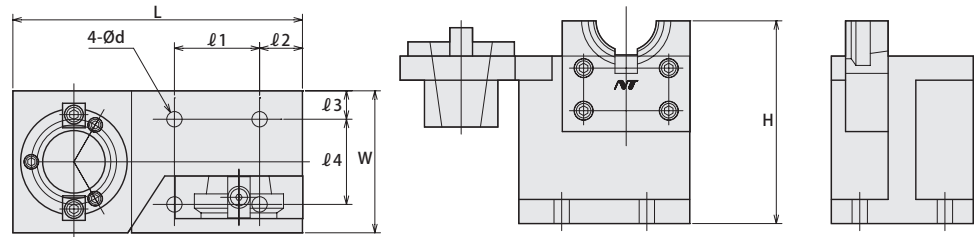
Model	Standard Collet	
	Tool shank dia.	
	mm	inch
FDC-07AA	0.5mm - 7.0mm	0.020" - 0.276"
FDC-09AA	2.5mm - 9.0mm	0.098" - 0.354"
FDC-12AA	2.5mm - 12.0mm	0.098" - 0.472"
FDC-16AA	3.5mm - 16.0mm	0.138" - 0.630"
FDC-22AA	3.5mm - 22.0mm	0.138" - 0.866"
ER-8 A	0.5mm - 5.0mm	0.020" - 0.197"
ER-11 A	0.5mm - 7.0mm	0.020" - 0.276"
ER-16 A	0.5mm - 10.0mm	0.020" - 0.406"
ER-20 A	0.5mm - 13.0mm	0.020" - 0.512"
ER-25 A	0.5mm - 16.0mm	0.020" - 0.630"
ER-32 A	2.5mm - 20.0mm	0.098" - 0.787"

Available in 0.5mm increments.
Inch sizes available.

Coolant Collet			
Model		Tool shank dia.	
Center Through	Collet Through	mm	inch
FDC-07-OHAA	FDC-07-C AA	2.9mm - 7.0mm	0.114" - 0.276"
FDC-09-OHAA	FDC-09-C AA	2.9mm - 9.0mm	0.114" - 0.354"
FDC-12-OHAA	FDC-12-C AA	2.9mm - 12.0mm	0.114" - 0.472"
FDC-16-OHAA	FDC-16-C AA	5.9mm - 16mm	0.232" - 0.630"
FDC-22-OHAA	FDC-22-C AA	5.9mm - 22mm	0.232" - 0.866"
ER-8-OHA	ER-8-C A	1.7mm - 5.0mm	0.067" - 0.197"
ER-11-OHA	ER-11-C A	3.5mm - 7.0mm	0.118" - 0.276"
ER-16-OHA	Not available	2.0mm - 10.0mm	0.079" - 0.406"
ER-20-OHA	Not available	3.5mm - 13.0mm	0.138" - 0.512"
ER-25-OHA	Not available	5.0mm - 16.0mm	0.200" - 0.630"
ER-32-OHA	Not available	6.0mm - 20.0mm	0.236" - 0.787"

Available in 0.1mm increments.
Inch sizes available.

BT Clamper / CAT Clamper



Code	Model	L	ℓ ₁	ℓ ₂	ℓ ₃	ℓ ₄	H	W	d	Shank size
5590 0000030	BCL-30	210	90.5	15	13	70.5	125	100	9	BT30
5590 0000040	BCL-40	210	90.5	15	13	70.5	130	100	9	BT40
5590 0000050	BCL-50	275	115	22	14	112	198	151	9	BT50
—	CCL-40	210	90.5	15	13	70.5	130	100	9	CAT40
—	CCL-50	275	115	22	14	112	198	151	9	CAT50

- Used for installing or removing cutting tools and pullstud bolts from BT or CAT milling chucks, collet holders, etc.
- Please fix on a working table before use.
- NBT-AHO and WBT-AHO holders can only be used when unit is installed vertically.
- Not usable for measuring preset height of cutting tools.

Ordering Example

BCL - 30
Shank size

HSK & UTS Clamper

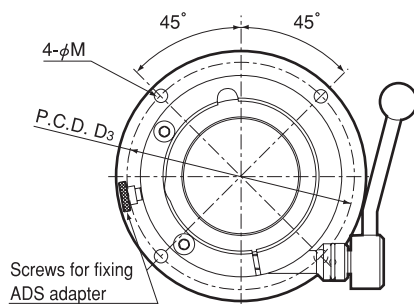


HCL (Body only)



HCL + ADS (Body + Adapter)

HCL (Body)



Code	Model	Shank size	D1	H	D2	D3	W	M	kg	Adapter
5590 06300000	HCL -63	HSK63, UTS6350	98	162	131	115	10	9 (For M8)	4.6	ADS-63**
5590 10000000	HCL -100	HSK100, UTS10080	135	162	168	152	10	9 (For M8)	7.0	ADS-100**

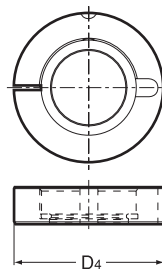
1. Best suited for tightening milling chucks or collet chucks.
2. All types of HSK (A-F, and T) and UTS can be clamped.
3. With ADS adaptors, various different shanks can be clamped.
4. Tool holder can be clamped by turning the clamp lever only.
The clamp lever can be turned in either direction.
5. ABS resins will prevent damages to taper or flange face of HSK/UTS shank.

Ordering Example

HCL - 63
Shank size

- * Do not use for measuring tool presetting length.
- * Fixing bolts (4pcs) for installing to surface plate or work table are NOT included.

ADS (Adapter/option)



Code	Model	Shank size	D4	L	kg	Body
5590 06325000	ADS -6325	HSK25	63	24.2	0.5	HCL-63
5590 06332000	ADS -6332	HSK32	63	24.2	0.4	HCL-63
5590 06340000	ADS -6340	HSK40	63	24.2	0.3	HCL-63
5590 06350000	ADS -6350	HSK50, UTS5040	63	24.2	0.2	HCL-63
5590 10063000	ADS -10063	HSK63, UTS6350	100	24.2	0.9	HCL-100
5590 10080000	ADS -10080	HSK80	100	24.2	0.6	HCL-100

Ordering Example

ADS - 63 50
Body size Shank size



Contactless Optical Tool Presetter

Aegis-i Series **AOTP**

*Customizable software to fit your needs!
Please contact NT TOOL for details.*

*Making user-friendly products is our priority.
Our new optical tool presetter designed
completely in house is available now.*

Measurement
X-axis : \varnothing 400mm
Z-axis : 500mm



Contactless Optical Tool Presetter

Aegis-i Series **SOTP**

*Simple and Compact!
High-performance presetter - affordable price!*

- *Contactless measurement does not damage cutting edges.*
- *Easy to use.*
- *A pneumatic cylinder clamps the holder securely in place.*

Measurement
X-axis : \varnothing 300mm
Z-axis : 400mm

NT TOOL, the best protection against rust!



Special rust proof coating on entire surface including the tapered shank (BT, CAT, SK only).

Prevent seizure and scoring caused by metal abrasion against the machine spindle.

Special coating protects spindle from abnormal wearing.

Safe with water-soluble coolant.

Some holders are excluded.

- **Protect spindle from damage**
- **Longer cutting tool life**
- **Maintain good accuracy**

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