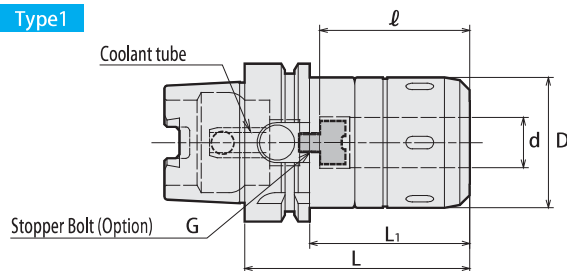


CT-SA

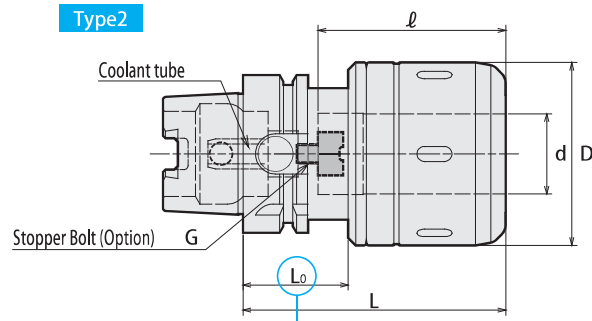
Super Tite-Lock Milling Chuck

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

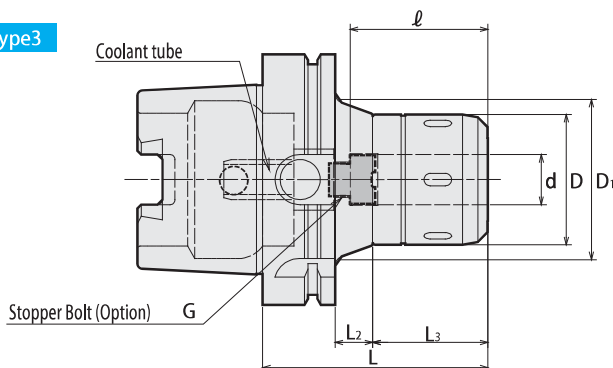
Type1



Type2



Type3



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	D1	L	L1	L2	L3	ℓ	L0	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		

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. 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.
4. 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)

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	○	—

Clamper
HCL

P. 23



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)

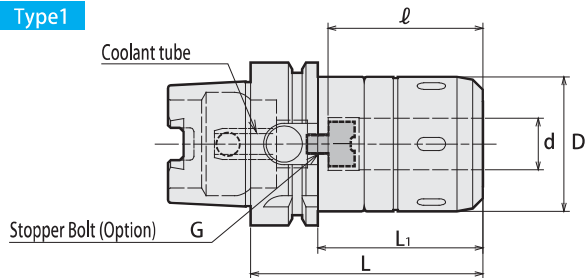
HSK63A -CT 0750 SA- 90 - H
 Shank size I.D. Projection length With manual clamp holes

CT-SA

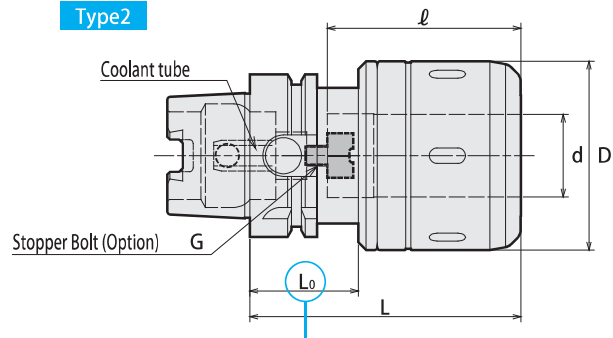
Super Tite-Lock Milling Chuck

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

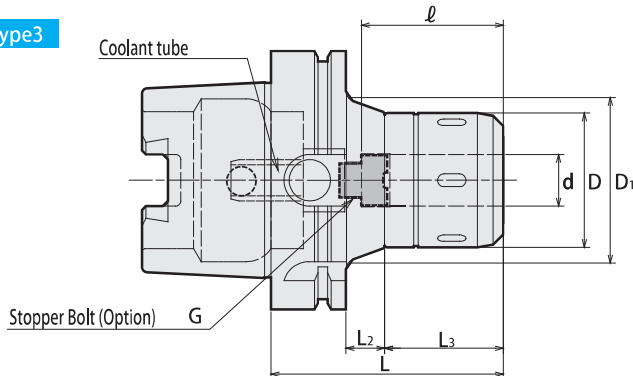
Type1



Type2



Type3



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	HS-2.5-25
5690 ※ 5425105	HSK63A -CT25SA - 105 -H	2	25	61	—	105	—	—	—	75	42	HSK63-BL	16,000	2.1	
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