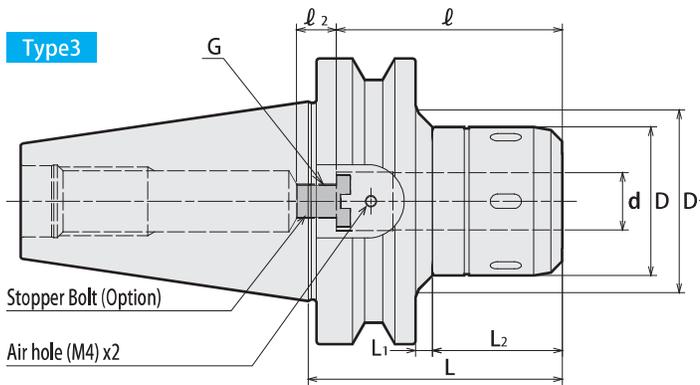
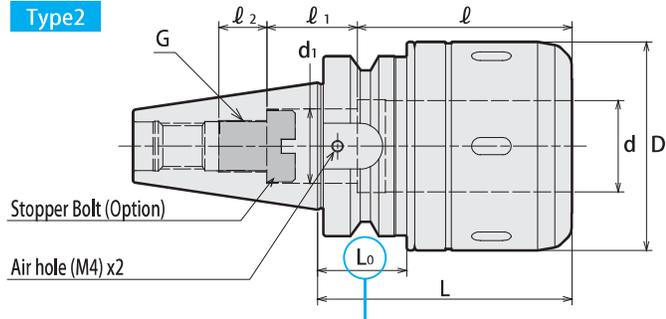
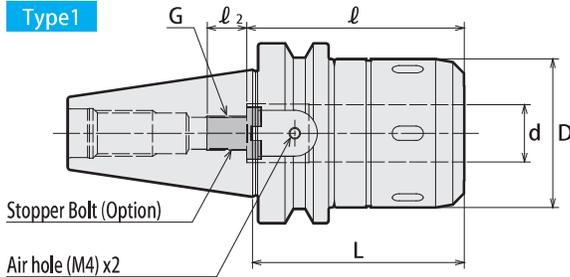


# CT·SA

## 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 <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	l	l <sub>1</sub>	l <sub>2</sub>	d <sub>1</sub>	L <sub>0</sub>	G P=1.0	Max. min <sup>-1</sup>	kg	Spanner <sup>2</sup>
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)

<b>Stopper Bolt</b> BL P. 17 	<b>Straight Collet</b> MC P. 16 	<b>Clamper</b> BCL P. 23 
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### Ordering Example

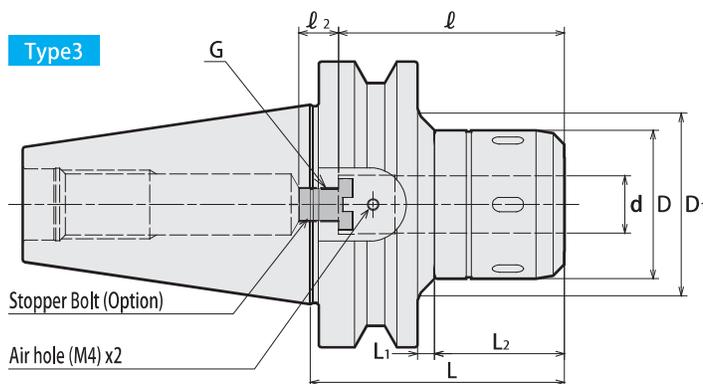
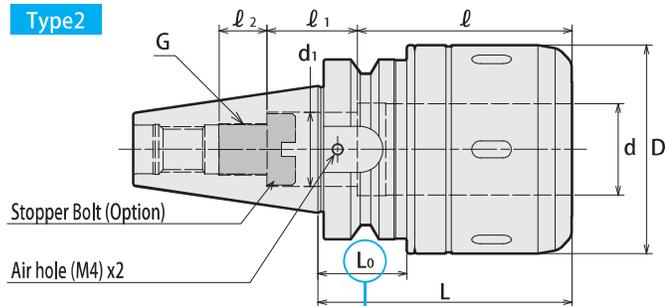
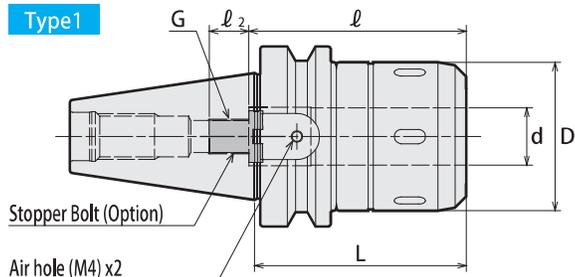
**BT30 - CT 0750 SA - 75**

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

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



### Ordering Example

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