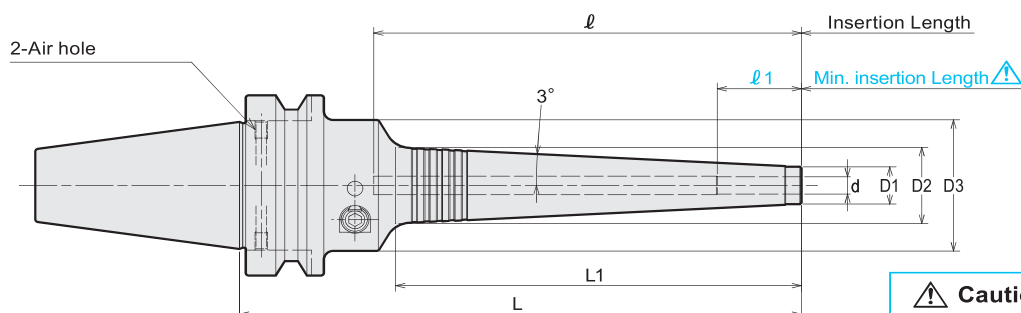




PHC·SB

Slim Hydro Chuck

Perfect choice for tight space applications, such as endmill finishing, drilling and reaming on 5-axis machines.



Hex-head screws with sealed thread (included) are necessary to plug the air holes for coolant through operation. For details on installing the hex head screws, please refer to the instruction manual in the screws' packaging.

Caution

Strictly keep the min insertion length.

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	Max min ⁻¹	kg	Wrench (Option)
3700 02103070	BT30 -PHC03SB -70	3	70	28	11	14.0	46	(93)	16	40,000	0.6	L-4T
3700 02103085	-85	3	85	37	11	14.9	46	(108)	16	40,000	0.6	
3700 02103130	-130	3	130	84	11	19.9	46	(153)	16	23,000	0.9	
3700 02104070	-PHC04SB -70	4	70	28	11	14.0	46	(93)	19	40,000	0.6	
3700 02104085	-85	4	85	37	11	14.9	46	(108)	19	40,000	0.6	
3700 02104130	-130	4	130	84	11	19.9	46	(153)	19	22,000	0.9	
3700 02106090	-PHC06SB -90	6	90	38	13	17.0	46	58	27	30,000	0.9	
3700 02106135	-135	6	135	84	13	21.9	46	92	27	21,000	1.0	
3700 02106150	-150	6	150	99	13	23.4	46	107	27	15,000	1.0	
3700 02106165	-165	6	165	114	13	25.0	46	122	27	12,000	1.1	
3700 02106180	-180	6	180	130	13	26.7	46	137	27	10,000	1.1	
3700 02107090	-PHC07SB -90	7	90	38	14	18.0	46	58	27	28,000	0.9	
3700 02107135	-135	7	135	84	14	22.9	46	92	27	21,000	1.0	
3700 02107150	-150	7	150	99	14	24.4	46	107	27	15,000	1.0	
3700 02107165	-165	7	165	114	14	26.0	46	122	27	12,000	1.1	
3700 02107180	-180	7	180	130	14	27.7	46	137	27	10,000	1.1	
3700 02108090	-PHC08SB -90	8	90	38	15	19.0	46	58	27	27,000	0.9	
3700 02108135	-135	8	135	84	15	23.9	46	92	27	20,000	1.0	
3700 02108150	-150	8	150	99	15	25.4	46	107	27	15,000	1.0	
3700 02108165	-165	8	165	114	15	27.0	46	122	27	12,000	1.1	
3700 02108180	-180	8	180	130	15	28.7	46	137	27	10,000	1.2	
3700 02109105	-PHC09SB -105	9	105	53	16	21.6	46	73	33	27,000	0.9	
3700 02109135	-135	9	135	84	16	24.9	46	92	33	20,000	1.0	
3700 02109150	-150	9	150	99	16	26.4	46	107	33	15,000	1.1	
3700 02109165	-165	9	165	114	16	28.0	46	122	33	12,000	1.1	
3700 02109180	-180	9	180	130	16	29.7	46	137	33	10,000	1.2	
3700 02110105	-PHC10SB -105	10	105	53	17	22.6	46	73	33	27,000	0.9	L-4T
3700 02110135	-135	10	135	84	17	25.9	46	92	33	20,000	1.0	
3700 02110150	-150	10	150	99	17	27.4	46	107	33	15,000	1.1	
3700 02110165	-165	10	165	114	17	29.0	46	122	33	12,000	1.1	
3700 02110180	-180	10	180	130	17	30.7	46	137	33	10,000	1.2	
3700 02111105	-PHC11SB -105	11	105	53	18	23.6	46	73	36	26,000	0.9	
3700 02111135	-135	11	135	84	18	26.9	46	92	36	19,000	1.0	
3700 02111150	-150	11	150	99	18	28.4	46	107	36	15,000	1.1	
3700 02111165	-165	11	165	114	18	30.0	46	122	36	12,000	1.2	
3700 02111180	-180	11	180	130	18	31.7	46	137	36	10,000	1.2	
3700 02112105	-PHC12SB -105	12	105	53	19	24.6	46	73	36	26,000	0.9	
3700 02112135	-135	12	135	84	19	27.9	46	92	36	19,000	1.0	
3700 02112150	-150	12	150	99	19	29.4	46	107	36	15,000	1.1	
3700 02112165	-165	12	165	114	19	31.0	46	122	36	12,000	1.2	
3700 02112180	-180	12	180	130	19	32.7	46	137	36	10,000	1.2	
3700 02303075	BT40 -PHC03SB -75	3	75	28	11	14.0	46	(110)	16	20,000	1.1	L-4T
3700 02303090	-90	3	90	37	11	14.9	46	(125)	16	20,000	1.1	
3700 02303135	-135	3	135	84	11	19.9	46	(170)	16	20,000	1.5	
3700 02304075	-PHC04SB -75	4	75	28	11	14.0	46	(110)	19	20,000	1.1	
3700 02304090	-90	4	90	37	11	14.9	46	(125)	19	20,000	1.1	
3700 02304135	-135	4	135	84	11	19.9	46	(170)	19	20,000	1.5	
3700 02306090	-PHC06SB -90	6	90	38	13	17.0	46	53	27	20,000	1.4	
3700 02306135	-135	6	135	84	13	21.9	46	92	27	20,000	1.5	
3700 02306150	-150	6	150	99	13	23.4	46	107	27	16,000	1.5	
3700 02306165	-165	6	165	114	13	25.0	46	122	27	12,000	1.6	
3700 02306180	-180	6	180	130	13	26.7	46	137	27	10,000	1.6	
3700 02307090	-PHC07SB -90	7	90	38	14	18.0	46	53	27	20,000	1.4	
3700 02307135	-135	7	135	84	14	22.9	46	92	27	20,000	1.5	
3700 02307150	-150	7	150	99	14	24.4	46	107	27	16,000	1.5	
3700 02307165	-165	7	165	114	14	26.0	46	122	27	13,000	1.6	
3700 02307180	-180	7	180	130	14	27.7	46	137	27	10,000	1.6	

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	Max min ⁻¹	kg	Wrench (Option)
3700 02308090	BT40 -PHC08SB -90	8	90	38	15	19.0	46	53	27	20,000	1.5	L-4T
3700 02308135	-135	8	135	84	15	23.9	46	92	27	20,000	1.5	
3700 02308150	-150	8	150	99	15	25.4	46	107	27	17,000	1.5	
3700 02308165	-165	8	165	114	15	27.0	46	122	27	12,000	1.6	
3700 02308180	-180	8	180	130	15	28.7	46	137	27	10,000	1.7	
3700 02309105	-PHC09SB -105	9	105	53	16	21.6	46	68	33	20,000	1.4	
3700 02309135	-135	9	135	84	16	24.9	46	92	33	20,000	1.5	
3700 02309150	-150	9	150	99	16	26.4	46	107	33	16,000	1.6	
3700 02309165	-165	9	165	114	16	28.0	46	122	33	12,000	1.6	
3700 02309180	-180	9	180	130	16	29.7	46	137	33	10,000	1.7	
3700 02310105	-PHC10SB -105	10	105	53	17	22.6	46	68	33	20,000	1.4	
3700 02310135	-135	10	135	84	17	25.9	46	92	33	20,000	1.5	
3700 02310150	-150	10	150	99	17	27.4	46	107	33	16,000	1.6	
3700 02310165	-165	10	165	114	17	29.0	46	122	33	12,000	1.6	
3700 02310180	-180	10	180	130	17	30.7	46	137	33	10,000	1.7	
3700 02311105	-PHC11SB -105	11	105	53	18	23.6	46	68	36	20,000	1.4	
3700 02311135	-135	11	135	84	18	26.9	46	92	36	20,000	1.5	
3700 02311150	-150	11	150	99	18	28.4	46	107	36	15,000	1.6	
3700 02311165	-165	11	165	114	18	30.0	46	122	36	12,000	1.7	
3700 02311180	-180	11	180	130	18	31.7	46	137	36	10,000	1.7	
3700 02312105	-PHC12SB -105	12	105	53	19	24.6	46	68	36	20,000	1.4	
3700 02312135	-135	12	135	84	19	27.9	46	92	36	20,000	1.5	
3700 02312150	-150	12	150	99	19	29.4	46	107	36	15,000	1.6	
3700 02312165	-165	12	165	114	19	31.0	46	122	36	12,000	1.7	
3700 02312180	-180	12	180	130	19	32.7	46	137	36	10,000	1.8	
3700 02316135	-PHC16SB -135	16	135	84	23	31.9	52.5	91	40	20,000	1.7	L-5T
3700 02316165	-165	16	165	114	23	35.0	52.5	120	40	13,000	1.9	
3700 02316180	-180	16	180	129	23	36.6	52.5	135	40	10,000	2.0	
3700 02320135	-PHC20SB -135	20	135	84	28	36.9	60	91	40	18,000	2.2	
3700 02320165	-165	20	165	114	28	40.0	60	120	40	14,000	2.3	
3700 02320180	-180	20	180	129	28	41.6	60	135	40	12,000	2.5	
3700 02325135	-PHC25SB -135	25	135	84	37	45.9	60	91	50	16,000	2.2	L-4T
3700 02325165	-165	25	165	114	37	49.0	60	120	50	15,000	2.5	
3700 02325180	-180	25	180	129	37	50.6	60	135	50	11,000	2.6	
3700 02503150	BT50 -PHC03SB -150 NEW	3	150	84	11	19.9	46	(206)	16	15,000	3.9	
3700 02503195	-195 NEW	3	195	84	11	19.9	46	(251)	16	12,000	4.3	
3700 02504150	-PHC04SB -150 NEW	3	150	84	11	19.9	46	(206)	19	15,000	3.9	
3700 02504195	-195 NEW	3	195	84	11	19.9	46	(251)	19	12,000	4.3	
3700 02506105	-PHC06SB -105	6	105	38	13	17.0	46	53	27	15,000	4.1	
3700 02506150	-150	6	150	84	13	21.9	46	92	27	15,000	4.1	
3700 02506165	-165	6	165	99	13	23.4	46	107	27	15,000	4.1	
3700 02506180	-180	6	180	114	13	25.0	46	122	27	12,000	4.2	
3700 02506195	-195	6	195	130	13	26.7	46	137	27	10,000	4.2	
3700 02507105	-PHC07SB -105	7	105	38	14	18.0	46	53	27	15,000	4.1	
3700 02507150	-150	7	150	84	14	22.9	46	92	27	15,000	4.1	
3700 02507165	-165	7	165	99	14	24.4	46	107	27	15,000	4.1	
3700 02507180	-180	7	180	114	14	26.0	46	122	27	12,000	4.2	
3700 02507195	-195	7	195	130	14	27.7	46	137	27	10,000	4.2	
3700 02508105	-PHC08SB -105	8	105	38	15	19.0	46	53	27	15,000	4.1	
3700 02508150	-150	8	150	84	15	23.9	46	92	27	15,000	4.1	
3700 02508165	-165	8	165	99	15	25.4	46	107	27	15,000	4.1	
3700 02508180	-180	8	180	114	15	27.0	46	122	27	12,000	4.2	
3700 02508195	-195	8	195	130	15	28.7	46	137	27	10,000	4.2	
3700 02509150	-PHC09SB -150	9	150	84	16	24.9	46	92	33	15,000	4.1	
3700 02509165	-165	9	165	99	16	26.4	46	107	33	15,000	4.1	
3700 02509180	-180	9	180	114	16	28.0	46	122	33	12,000	4.2	
3700 02509195	-195	9	195	130	16	29.7	46	137	33	10,000	4.3	
3700 02510150	-PHC10SB -150	10	150	84	17	25.9	46	92	33	15,000	4.1	L-5T
3700 02510165	-165	10	165	99	17	27.4	46	107	33	15,000	4.2	
3700 02510180	-180	10	180	114	17	29.0	46	122	33	12,000	4.2	
3700 02510195	-195	10	195	130	17	30.7	46	137	33	10,000	4.3	
3700 02511150	-PHC11SB -150	11	150	84	18	26.9	46	92	36	15,000	4.1	
3700 02511165	-165	11	165	99	18	28.4	46	107	36	15,000	4.2	
3700 02511180	-180	11	180	114	18	30.0	46	122	36	12,000	4.2	
3700 02511195	-195	11	195	130	18	31.7	46	137	36	10,000	4.3	
3700 02512150	-PHC12SB -150	12	150	84	19	27.9	46	92	36	15,000	4.1	
3700 02512165	-165	12	165	99	19	29.4	46	107	36	15,000	4.2	
3700 02512180	-180	12	180	114	19	31.0	46	122	36	12,000	4.3	
3700 02512195	-195	12	195	130	19	32.7	46	137	36	10,000	4.3	
3700 02516150	-PHC16SB -150	16	150	84	23	31.9	52.5	91	40	15,000	4.2	
3700 02516180	-180	16	180	114	23	35.0	52.5	120	40	12,000	4.4	
3700 02516195	-195	16	195	129	23	36.6	52.5	135	40	10,000	4.6	
3700 02520150	-PHC20SB -150	20	150	84	28	36.9	60	91	40	15,000	4.7	
3700 02520180	-180	20	180	114	28	40.0	60	120	40	14,000	4.9	
3700 02520195	-195	20	195	129	28	41.6	60	135	40	12,000	5.0	
3700 02525150	-PHC25SB -150	25	150	84	37	45.9	60	91	50	15,000	4.8	
3700 02525180	-180	25	180	114	37	49.0	60	120	50	14,000	5.0	
3700 02525195	-195	25	195	129	37	50.6	60	135	50	12,000	5.2	

- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
- ℓ indicates dimension when using without a preset screw.
() dimension is to end of retention stud.
- On 3mm and 4mm chuck models there may be leaking from the inner diameter slit when using center through coolant.

Inch size upon request

Ordering Example

BT50 - PHC12SB - 150

Shank size (d) I.D. Projection length (L)

Hex. wrench

Preset Screw

P. 81

P. 24

