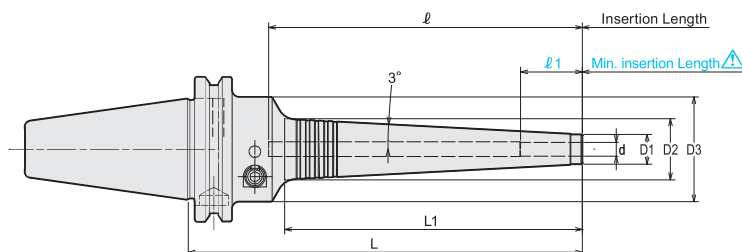




PHC·SB

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.

Inch Sizes											Unit : Inch	
Code	Model	d	L	L1	D1	D2	D3	l	l1	Max. min-1	kg	Wrench (Sold Separate)
183003404090	CAT40-PHC0125SB-90	0.125	3.543	1.457	0.433	0.587	1.811	(4.921)	0.630	20000	1.3	L-4T
183003404135	-135	0.125	5.315	3.307	0.433	0.783	1.811	(6.692)	0.630	20000	1.4	
183003408150	-PHC0250SB-150	0.250	5.906	3.307	0.512	0.862	1.811	3.622	1.063	20000	1.4	
183003408165	-165	0.250	6.496	3.898	0.512	0.921	1.811	4.213	1.063	16000	1.4	
183003408195	-195	0.250	7.677	5.118	0.512	1.051	1.811	5.394	1.063	10000	1.5	
183003410150	-PHC0312SB-150	0.313	5.906	3.307	0.591	0.941	1.811	3.622	1.063	20000	1.3	
183003410165	-165	0.313	6.496	3.898	0.591	1.000	1.811	4.213	1.063	17000	1.4	
183003410195	-195	0.313	7.677	5.118	0.591	1.130	1.811	5.394	1.063	10000	1.5	
183003412150	-PHC0375SB-150	0.375	5.906	3.307	0.669	1.020	1.811	3.622	1.299	20000	1.3	
183003412165	-165	0.375	6.496	3.898	0.669	1.079	1.811	4.213	1.299	16000	1.4	
183003412195	-195	0.375	7.677	5.118	0.669	1.209	1.811	5.394	1.299	10000	1.5	
183003416150	-PHC0500SB-150	0.500	5.906	3.307	0.787	1.138	1.811	3.622	1.417	20000	1.3	
183003416165	-165	0.500	6.496	3.898	0.787	1.197	1.811	4.213	1.417	15000	1.4	
183003416195	-195	0.500	7.677	5.118	0.787	1.327	1.811	5.394	1.417	10000	1.6	
183003420150	-PHC0625SB-150	0.625	5.906	3.307	0.906	1.256	2.067	3.583	1.575	20000	1.5	L-5T
183003420180	-180	0.625	7.087	4.488	0.906	1.378	2.067	4.724	1.575	13000	1.7	
183003420195	-195	0.625	7.677	5.079	0.906	1.441	2.067	5.315	1.575	10000	1.8	
183003424150	-PHC0750SB-150	0.750	5.906	3.307	1.102	1.453	2.362	3.583	1.575	18000	1.9	
183003424180	-180	0.750	7.087	4.488	1.102	1.575	2.362	4.724	1.575	14000	2	
183003424195	-195	0.750	7.677	5.079	1.102	1.638	2.362	5.315	1.575	12000	2.2	
183003432150	-PHC1000SB-150	1.000	5.906	3.307	1.496	1.846	2.362	3.583	1.969	16000	1.9	
183003432180	-180	1.000	7.087	4.488	1.496	1.969	2.362	4.724	1.969	15000	2.2	
183003432195	-195	1.000	7.677	5.079	1.496	2.031	2.362	5.315	1.969	11000	2.3	

- 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.

Ordering Example

CAT 50 - PHC12SB - 150

Shank size

I.D.

Projection length

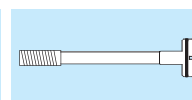
Hex. wrench

P. 81

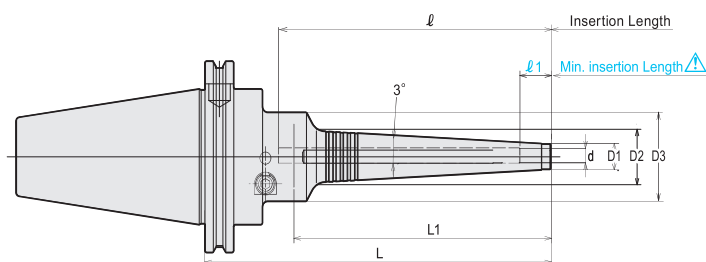


Preset Screw

P. 38



Metric Sizes												Unit : mm
Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ1	Max. min-1	kg	Wrench (Sold Separate)
183002403075	CAT40-PHC03SB-75	3	75	28	11	14	46	(110)	16	20,000	1.2	L-4T
183002403090	-90	3	90	37	11	14.9	46	(125)	16	20,000	1.3	
183002403135	-135	3	135	84	11	19.9	46	(170)	16	20,000	1.4	
183002404075	-PHC04SB-75	4	75	28	11	14	46	(110)	19	20000	1.2	
183002404090	-90	4	90	37	11	14.9	46	(125)	19	20000	1.3	
183002404135	-135	4	135	84	11	19.9	46	(170)	19	20000	1.4	
183002406090	-PHC06SB-90	6	90	38	13	17	46	53	27	20000	1.3	
183002406150	-150	6	150	84	13	21.9	46	92	27	20000	1.4	
183002406165	-165	6	165	99	13	23.4	46	107	27	16000	1.4	
183002406180	-180	6	180	114	13	25	46	122	27	12000	1.5	
183002406195	-195	6	195	130	13	26.7	46	137	27	10000	1.5	
183002407090	-PHC07SB-90	7	90	38	14	18	46	53	27	20000	1.3	
183002407150	-150	7	150	84	14	22.9	46	92	27	20000	1.4	
183002407165	-165	7	165	99	14	24.4	46	107	27	16000	1.4	
183002407180	-180	7	180	114	14	26	46	122	27	13000	1.5	
183002407195	-195	7	195	130	14	27.7	46	137	27	10000	1.5	
183002408090	-PHC08SB-90	8	90	38	15	19	46	53	27	20000	1.2	
183002408150	-150	8	150	84	15	23.9	46	92	27	20000	1.3	
183002408165	-165	8	165	99	15	25.4	46	107	27	17000	1.4	
183002408180	-180	8	180	114	15	27	46	122	27	12000	1.4	
183002408195	-195	8	195	130	15	28.7	46	137	27	10000	1.5	
183002409105	-PHC09SB-105	9	105	53	16	21.6	46	68	33	20000	1.2	
183002409150	-150	9	150	84	16	24.9	46	92	33	20000	1.3	
183002409165	-165	9	165	99	16	26.4	46	107	33	16000	1.4	
183002409180	-180	9	180	114	16	28	46	122	33	12000	1.4	
183002409195	-195	9	195	130	16	29.7	46	137	33	10000	1.5	
183002410105	-PHC10SB-105	10	105	53	17	22.6	46	68	33	20000	1.2	
183002410150	-150	10	150	84	17	25.9	46	92	33	20000	1.3	
183002410165	-165	10	165	99	17	27.4	46	107	33	16000	1.4	
183002410180	-180	10	180	114	17	29	46	122	33	12000	1.4	
183002410195	-195	10	195	130	17	30.7	46	137	33	10000	1.5	
183002411105	-PHC11SB-105	11	105	53	18	23.6	46	68	36	20000	1.2	L-5T
183002411150	-150	11	150	84	18	26.9	46	92	36	20000	1.3	
183002411165	-165	11	165	99	18	28.4	46	107	36	15000	1.4	
183002411180	-180	11	180	114	18	30	46	122	36	12000	1.5	
183002411195	-195	11	195	130	18	31.7	46	137	36	10000	1.5	
183002412105	-PHC12SB-105	12	105	53	19	24.6	46	68	36	20000	1.2	
183002412150	-150	12	150	84	19	27.9	46	92	36	20000	1.3	
183002412165	-165	12	165	99	19	29.4	46	107	36	15000	1.4	
183002412180	-180	12	180	114	19	31	46	122	36	12000	1.5	
183002412195	-195	12	195	130	19	32.7	46	137	36	10000	1.6	
183002416150	-PHC16SB-150	16	150	84	23	31.9	52.5	91	40	20000	1.5	
183002416180	-180	16	180	114	23	35	52.5	120	40	13000	1.7	
183002416195	-195	16	195	129	23	36.6	52.5	135	40	10000	1.8	
183002420150	-PHC20SB-150	20	150	84	28	36.9	60	91	40	18000	1.9	
183002420180	-180	20	180	114	28	40	60	120	40	14000	2.0	
183002420195	-195	20	195	129	28	41.6	60	135	40	12000	2.2	
183002425150	-PHC25SB-150	25	150	84	37	45.9	60	91	50	16000	1.9	
183002425180	-180	25	180	114	37	49	60	120	50	15000	2.2	
183002425195	-195	25	195	129	37	50.6	60	135	50	11000	2.3	



Caution

Strictly keep the min insertion length.

! 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.

Inch Sizes												Unit : Inch	
Code	Model	d	L	L1	L2	D1	D2	D3	ℓ	ℓ1	Max. min-1	kg	Wrench (Sold Separate)
183003508150	CAT50-PHC0250SB-150	0.250	5.906	3.307	4.528	0.512	0.862	1.811	3.622	1.063	15000	4.2	L-4T
183003508180	-180	0.250	7.087	4.488	5.709	0.512	1.051	1.811	4.803	1.063	12000	4.3	
183003508195	-195	0.250	7.677	5.118	6.299	0.512	1.051	1.811	5.394	1.063	10000	4.3	
183003510150	-PHC0312SB-150	0.312	5.906	3.307	4.528	0.591	0.941	1.811	3.622	1.063	15000	4.1	
183003510180	-180	0.312	7.087	4.488	5.709	0.591	1.13	1.811	4.803	1.063	12000	4.2	
183003510195	-195	0.312	7.677	5.118	6.299	0.591	1.13	1.811	5.394	1.063	10000	4.3	
183003512150	-PHC0375SB-150	0.375	5.906	3.307	4.528	0.669	1.02	1.811	4.803	1.299	15000	4.1	
183003512180	-180	0.375	7.087	4.488	5.709	0.669	1.209	1.811	5.394	1.299	12000	4.2	
183003512195	-195	0.375	7.677	5.118	6.299	0.669	1.209	1.811	5.394	1.299	10000	4.3	
183003516150	-PHC0500SB-150	0.500	5.906	3.307	4.528	0.787	1.138	1.811	3.622	1.417	15000	4.1	
183003516180	-180	0.500	7.087	4.488	5.709	0.787	1.26	1.811	4.803	1.417	12000	4.2	
183003516195	-195	0.500	7.677	5.118	6.299	0.787	1.327	1.811	5.394	1.417	10000	4.3	
183003520150	-PHC0625SB-150	0.625	5.906	3.307	4.528	0.906	1.256	2.067	3.583	1.575	15000	4.3	L-5T
183003520180	-180	0.625	7.087	4.488	5.709	0.906	1.441	2.067	4.724	1.575	12000	4.4	
183003520195	-195	0.625	7.677	5.079	6.299	0.906	1.441	2.067	5.315	1.575	10000	4.5	
183003524150	-PHC0750SB-150	0.750	5.906	3.307	4.528	1.102	1.453	2.362	3.583	1.575	15000	4.6	
183003524180	-180	0.750	7.087	4.488	5.709	1.102	1.638	2.362	4.724	1.575	14000	4.8	
183003524195	-195	0.750	7.677	5.079	6.299	1.102	1.638	2.362	5.315	1.575	12000	4.9	
183003532150	-PHC1000SB-150	1.000	5.906	3.307	4.528	1.496	1.846	2.362	3.583	1.969	15000	4.7	
183003532180	-180	1.000	7.087	4.488	5.709	1.496	1.969	2.362	4.724	1.969	14000	5.0	
183003532195	-195	1.000	7.677	5.079	6.299	1.496	2.031	2.362	5.315	1.969	12000	5.1	

Metric Sizes												Unit : mm	
Code	Model	d	L	L1	L2	D1	D2	D3	ℓ	ℓ1	Max. min-1	kg	Wrench (Sold Separate)
183002506150	CAT50-PHC06SB-150	6	150	84	115	13	21.9	46	92	27	15000	4.2	L-4T
183002506195	-195	6	195	130	160	13	26.7	46	137	27	10000	4.3	
183002508150	-PHC08SB-150	8	150	84	115	15	23.9	46	92	27	15000	4.1	
183002508195	-195	8	195	130	160	15	28.7	46	137	27	10000	4.3	
183002510150	-PHC10SB-150	10	150	84	115	17	25.9	46	92	33	15000	4.1	
183002510195	-195	10	195	130	160	17	30.7	46	137	33	10000	4.3	
183002512150	-PHC12SB-150	12	150	84	115	19	27.9	46	92	36	15000	4.1	
183002512195	-195	12	195	130	160	19	32.7	46	137	36	10000	4.3	
183002516150	-PHC16SB-150	16	150	84	115	23	31.9	52.5	91	40	15000	4.3	
183002516195	-195	16	195	129	160	23	36.6	52.5	135	40	10000	4.5	
183002520150	-PHC20SB-150	20	150	84	115	28	36.9	60	91	40	15000	4.6	L-5T
183002520195	-195	20	195	129	160	28	41.6	60	135	40	12000	4.9	
183002525150	-PHC25SB-150	25	150	84	115	37	45.9	60	91	50	15000	4.7	
183002525195	-195	25	195	129	160	37	50.6	60	135	50	12000	5.1	