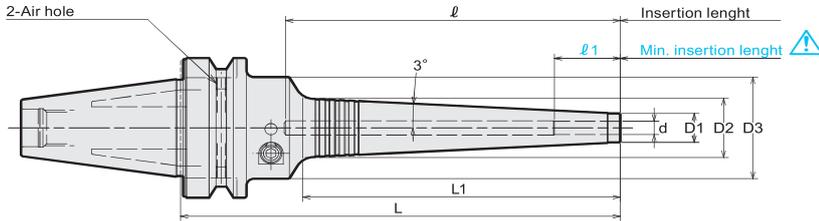




# PHC-SB Slim Hydro Chuck

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



**Caution**  
Strictly keep the min insertion length.

**!** Retention stud for BT shank can be used as is for AHO-A shank.  
Retention stud with coolant pipe for old AHO shank can be used by removing the coolant pipe.

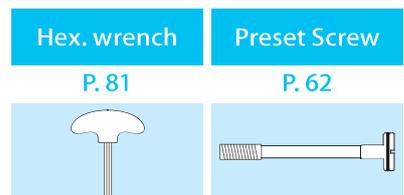
AHO-A (Dual contact)

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ1	Max. min <sup>-3</sup>	kg	Wrench (Option)
3250 62103070	WBT-AHO30A -PHC03SB -70	3	70	28	11	14.0	46	(93)	16	40,000	0.6	L-4T
3250 62103085	-85	3	85	37	11	14.9	46	(108)	16	40,000	0.6	
3250 62103130	-130	3	130	84	11	19.9	46	(153)	16	23,000	0.9	
3250 62104070	-PHC04SB -70	4	70	28	11	14.0	46	(93)	19	40,000	0.6	
3250 62104085	-85	4	85	37	11	14.9	46	(108)	19	40,000	0.6	
3250 62104130	-130	4	130	84	11	19.9	46	(153)	19	22,000	0.9	
3250 62106090	-PHC06SB -90	6	90	38	13	17.0	46	58	27	30,000	0.9	
3250 62106135	-135	6	135	84	13	21.9	46	92	27	21,000	1.0	
3250 62106150	-150	6	150	99	13	23.4	46	107	27	15,000	1.0	
3250 62106165	-165	6	165	114	13	25.0	46	122	27	12,000	1.1	
3250 62106180	-180	6	180	130	13	26.7	46	137	27	10,000	1.1	
3250 62107090	-PHC07SB -90	7	90	38	14	18.0	46	58	27	28,000	0.9	
3250 62107135	-135	7	135	84	14	22.9	46	92	27	21,000	1.0	
3250 62107150	-150	7	150	99	14	24.4	46	107	27	15,000	1.0	
3250 62107165	-165	7	165	114	14	26.0	46	122	27	12,000	1.1	
3250 62107180	-180	7	180	130	14	27.7	46	137	27	10,000	1.1	
3250 62108090	-PHC08SB -90	8	90	38	15	19.0	46	58	27	27,000	0.9	
3250 62108135	-135	8	135	84	15	23.9	46	92	27	20,000	1.0	
3250 62108150	-150	8	150	99	15	25.4	46	107	27	15,000	1.0	
3250 62108165	-165	8	165	114	15	27.0	46	122	27	12,000	1.1	
3250 62108180	-180	8	180	130	15	28.7	46	137	27	10,000	1.2	
3250 62109105	-PHC09SB -105	9	105	53	16	21.6	46	73	33	27,000	0.9	
3250 62109135	-135	9	135	84	16	24.9	46	92	33	20,000	1.0	
3250 62109150	-150	9	150	99	16	26.4	46	107	33	15,000	1.1	
3250 62109165	-165	9	165	114	16	28.0	46	122	33	12,000	1.1	
3250 62109180	-180	9	180	130	16	29.7	46	137	33	10,000	1.2	
3250 62110105	-PHC10SB -105	10	105	53	17	22.6	46	73	33	27,000	0.9	
3250 62110135	-135	10	135	84	17	25.9	46	92	33	20,000	1.0	
3250 62110150	-150	10	150	99	17	27.4	46	107	33	15,000	1.1	
3250 62110165	-165	10	165	114	17	29.0	46	122	33	12,000	1.1	
3250 62110180	-180	10	180	130	17	30.7	46	137	33	10,000	1.2	
3250 62111105	-PHC11SB -105	11	105	53	18	23.6	46	73	36	26,000	0.9	
3250 62111135	-135	11	135	84	18	26.9	46	92	36	19,000	1.0	
3250 62111150	-150	11	150	99	18	28.4	46	107	36	15,000	1.1	
3250 62111165	-165	11	165	114	18	30.0	46	122	36	12,000	1.2	
3250 62111180	-180	11	180	130	18	31.7	46	137	36	10,000	1.2	
3250 62112105	-PHC12SB -105	12	105	53	19	24.6	46	73	36	26,000	0.9	
3250 62112135	-135	12	135	84	19	27.9	46	92	36	19,000	1.0	
3250 62112150	-150	12	150	99	19	29.4	46	107	36	15,000	1.1	
3250 62112165	-165	12	165	114	19	31.0	46	122	36	12,000	1.2	
3250 62112180	-180	12	180	130	19	32.7	46	137	36	10,000	1.2	
3250 62303075	WBT-AHO40A -PHC03SB -75	3	75	28	11	14.0	46	(110)	16	20,000	1.1	
3250 62303090	-90	3	90	37	11	14.9	46	(125)	16	20,000	1.1	
3250 62303135	-135	3	135	84	11	19.9	46	(170)	16	20,000	1.5	
3250 62304075	-PHC04SB -75	4	75	28	11	14.0	46	(110)	19	20,000	1.1	
3250 62304090	-90	4	90	37	11	14.9	46	(125)	19	20,000	1.1	
3250 62304135	-135	4	135	84	11	19.9	46	(170)	19	20,000	1.5	
3250 62306090	-PHC06SB -90	6	90	38	13	17.0	46	53	27	20,000	1.4	
3250 62306135	-135	6	135	84	13	21.9	46	92	27	20,000	1.5	
3250 62306150	-150	6	150	99	13	23.4	46	107	27	16,000	1.5	
3250 62306165	-165	6	165	114	13	25.0	46	122	27	12,000	1.6	
3250 62306180	-180	6	180	130	13	26.7	46	137	27	10,000	1.6	
3250 62307090	-PHC07SB -90	7	90	38	14	18.0	46	53	27	20,000	1.4	
3250 62307135	-135	7	135	84	14	22.9	46	92	27	20,000	1.5	
3250 62307150	-150	7	150	99	14	24.4	46	107	27	16,000	1.5	
3250 62307165	-165	7	165	114	14	26.0	46	122	27	13,000	1.6	
3250 62307180	-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 <sup>-1</sup>	kg	Wrench (Option)
3250 62308090	<b>WBT-AHO40A -PHC08SB -90</b>	8	90	38	15	19.0	46	53	27	20,000	1.5	L-4T
3250 62308135	-135	8	135	84	15	23.9	46	92	27	20,000	1.5	
3250 62308150	-150	8	150	99	15	25.4	46	107	27	17,000	1.5	
3250 62308165	-165	8	165	114	15	27.0	46	122	27	12,000	1.6	
3250 62308180	-180	8	180	130	15	28.7	46	137	27	10,000	1.7	
3250 62309105	<b>-PHC09SB -105</b>	9	105	53	16	21.6	46	68	33	20,000	1.4	
3250 62309135	-135	9	135	84	16	24.9	46	92	33	20,000	1.5	
3250 62309150	-150	9	150	99	16	26.4	46	107	33	16,000	1.6	
3250 62309165	-165	9	165	114	16	28.0	46	122	33	12,000	1.6	
3250 62309180	-180	9	180	130	16	29.7	46	137	33	10,000	1.7	
3250 62310105	<b>-PHC10SB -105</b>	10	105	53	17	22.6	46	68	33	20,000	1.4	
3250 62310135	-135	10	135	84	17	25.9	46	92	33	20,000	1.5	
3250 62310150	-150	10	150	99	17	27.4	46	107	33	16,000	1.6	
3250 62310165	-165	10	165	114	17	29.0	46	122	33	12,000	1.6	
3250 62310180	-180	10	180	130	17	30.7	46	137	33	10,000	1.7	
3250 62311105	<b>-PHC11SB -105</b>	11	105	53	18	23.6	46	68	36	20,000	1.4	
3250 62311135	-135	11	135	84	18	26.9	46	92	36	20,000	1.5	
3250 62311150	-150	11	150	99	18	28.4	46	107	36	15,000	1.6	
3250 62311165	-165	11	165	114	18	30.0	46	122	36	12,000	1.7	
3250 62311180	-180	11	180	130	18	31.7	46	137	36	10,000	1.7	
3250 62312105	<b>-PHC12SB -105</b>	12	105	53	19	24.6	46	68	36	20,000	1.4	
3250 62312135	-135	12	135	84	19	27.9	46	92	36	20,000	1.5	
3250 62312150	-150	12	150	99	19	29.4	46	107	36	15,000	1.6	
3250 62312165	-165	12	165	114	19	31.0	46	122	36	12,000	1.7	
3250 62312180	-180	12	180	130	19	32.7	46	137	36	10,000	1.8	
3250 62316135	<b>-PHC16SB -135</b>	16	135	84	23	31.9	52.5	91	40	20,000	1.7	
3250 62316165	-165	16	165	114	23	35.0	52.5	120	40	13,000	1.9	
3250 62316180	-180	16	180	129	23	36.6	52.5	135	40	10,000	2.0	
3250 62320135	<b>-PHC20SB -135</b>	20	135	84	28	36.9	60	91	40	18,000	2.2	
3250 62320165	-165	20	165	114	28	40.0	60	120	40	14,000	2.3	
3250 62320180	-180	20	180	129	28	41.6	60	135	40	12,000	2.5	
3250 62325135	<b>-PHC25SB -135</b>	25	135	84	37	45.9	60	91	50	16,000	2.2	
3250 62325165	-165	25	165	114	37	49.0	60	120	50	15,000	2.5	
3250 62325180	-180	25	180	129	37	50.6	60	135	50	11,000	2.6	
3250 62503150	<b>WBT-AHO50A -PHC03SB -150</b> <small>NEW</small>	3	150	84	11	19.9	46	(130)	16	15,000	3.1	
3250 62503195	-195 <small>NEW</small>	3	195	84	11	19.9	46	(175)	16	12,000	4.3	
3250 62504150	<b>-PHC04SB -150</b> <small>NEW</small>	4	150	84	11	19.9	46	(130)	19	15,000	3.1	
3250 62504195	-195 <small>NEW</small>	4	195	84	11	19.9	46	(175)	19	12,000	4.3	
3250 62506105	<b>-PHC06SB -105</b>	6	105	38	13	17.0	46	53	27	15,000	4.1	
3250 62506150	-150	6	150	84	13	21.9	46	92	27	15,000	4.1	
3250 62506165	-165	6	165	99	13	23.4	46	107	27	15,000	4.1	
3250 62506180	-180	6	180	114	13	25.0	46	122	27	12,000	4.2	
3250 62506195	-195	6	195	130	13	26.7	46	137	27	10,000	4.2	
3250 62507105	<b>-PHC07SB -105</b>	7	105	38	14	18.0	46	53	27	15,000	4.1	
3250 62507150	-150	7	150	84	14	22.9	46	92	27	15,000	4.1	
3250 62507165	-165	7	165	99	14	24.4	46	107	27	15,000	4.1	
3250 62507180	-180	7	180	114	14	26.0	46	122	27	12,000	4.2	
3250 62507195	-195	7	195	130	14	27.7	46	137	27	10,000	4.2	
3250 62508105	<b>-PHC08SB -105</b>	8	105	38	15	19.0	46	53	27	15,000	4.1	
3250 62508150	-150	8	150	84	15	23.9	46	92	27	15,000	4.1	
3250 62508165	-165	8	165	99	15	25.4	46	107	27	15,000	4.1	
3250 62508180	-180	8	180	114	15	27.0	46	122	27	12,000	4.2	
3250 62508195	-195	8	195	130	15	28.7	46	137	27	10,000	4.2	
3250 62509150	<b>-PHC09SB -150</b>	9	150	84	16	24.9	46	92	33	15,000	4.1	
3250 62509165	-165	9	165	99	16	26.4	46	107	33	15,000	4.1	
3250 62509180	-180	9	180	114	16	28.0	46	122	33	12,000	4.2	
3250 62509195	-195	9	195	130	16	29.7	46	137	33	10,000	4.3	
3250 62510150	<b>-PHC10SB -150</b>	10	150	84	17	25.9	46	92	33	15,000	4.1	
3250 62510165	-165	10	165	99	17	27.4	46	107	33	15,000	4.2	
3250 62510180	-180	10	180	114	17	29.0	46	122	33	12,000	4.2	
3250 62510195	-195	10	195	130	17	30.7	46	137	33	10,000	4.3	
3250 62511150	<b>-PHC11SB -150</b>	11	150	84	18	26.9	46	92	36	15,000	4.1	
3250 62511165	-165	11	165	99	18	28.4	46	107	36	15,000	4.2	
3250 62511180	-180	11	180	114	18	30.0	46	122	36	12,000	4.2	
3250 62511195	-195	11	195	130	18	31.7	46	137	36	10,000	4.3	
3250 62512150	<b>-PHC12SB -150</b>	12	150	84	19	27.9	46	92	36	15,000	4.1	
3250 62512165	-165	12	165	99	19	29.4	46	107	36	15,000	4.2	
3250 62512180	-180	12	180	114	19	31.0	46	122	36	12,000	4.3	
3250 62512195	-195	12	195	130	19	32.7	46	137	36	10,000	4.3	
3250 62516150	<b>-PHC16SB -150</b>	16	150	84	23	31.9	52.5	91	40	15,000	4.2	
3250 62516180	-180	16	180	114	23	35.0	52.5	120	40	12,000	4.4	
3250 62516195	-195	16	195	129	23	36.6	52.5	135	40	10,000	4.6	
3250 62520150	<b>-PHC20SB -150</b>	20	150	84	28	36.9	60	91	40	15,000	4.7	
3250 62520180	-180	20	180	114	28	40.0	60	120	40	14,000	4.9	
3250 62520195	-195	20	195	129	28	41.6	60	135	40	12,000	5.0	
3250 62525150	<b>-PHC25SB -150</b>	25	150	84	37	45.9	60	91	50	15,000	4.8	
3250 62525180	-180	25	180	114	37	49.0	60	120	50	14,000	5.0	
3250 62525195	-195	25	195	129	37	50.6	60	135	50	12,000	5.2	

AHO-A (Dual Contact)

- 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**

**WBT-AHO50A - PHC12SB - 150**

AHO Shank size

I.D.

Projection length

Inch size upon request