

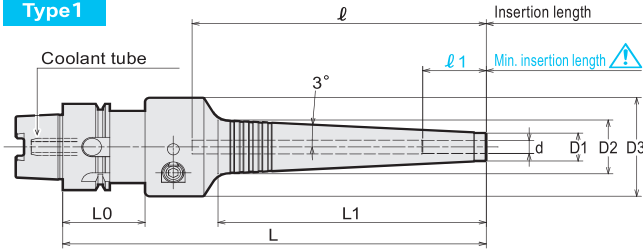


PHC-SB

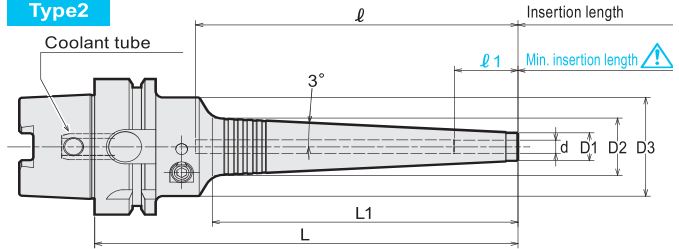
Slim Hydro Chuck

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

Type 1



Type 2



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.

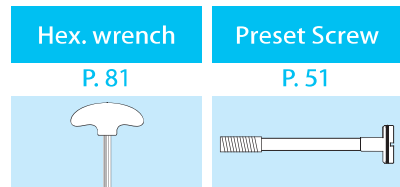
● Coolant tube is included

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ 1	Max min ¹	kg	Wrench (Option)
5750 13403090	HSK40A -PHC03SB -90	1	3	90	28	11	14.0	46	35	74	16	30,000	0.4	L-4T
5750 13403100	-100	1	3	100	37	11	14.9	46	35	84	16	30,000	0.4	
5750 13403145	-145	1	3	145	84	11	19.9	46	35	129	16	17,000	0.7	
5750 13404090	-PHC04SB -90	1	4	90	28	11	14.0	46	35	74	19	30,000	0.4	
5750 13404100	-100	1	4	100	37	11	14.9	46	35	84	19	30,000	0.4	
5750 13404145	-145	1	4	145	84	11	19.9	46	35	129	19	17,000	0.7	
5750 13406105	-PHC06SB -105	1	6	105	38	13	17.0	46	35	55	27	30,000	0.8	
5750 13406150	-150	1	6	150	84	13	21.9	46	35	97	27	17,000	0.9	
5750 13406165	-165	1	6	165	99	13	23.4	46	35	112	27	12,000	1.0	
5750 13406180	-180	1	6	180	114	13	25.0	46	35	127	27	10,000	1.0	
5750 13407105	-PHC07SB -105	1	7	105	38	14	18.0	46	35	55	27	30,000	0.8	
5750 13407150	-150	1	7	150	84	14	22.9	46	35	97	27	16,000	1.0	
5750 13407165	-165	1	7	165	99	14	24.4	46	35	112	27	12,000	1.0	
5750 13407180	-180	1	7	180	114	14	26.0	46	35	127	27	10,000	1.1	
5750 13408105	-PHC08SB -105	1	8	105	38	15	19.0	46	35	55	27	28,000	0.9	
5750 13408150	-150	1	8	150	84	15	23.9	46	35	97	27	16,000	1.0	
5750 13408165	-165	1	8	165	99	15	25.4	46	35	112	27	12,000	1.0	
5750 13408180	-180	1	8	180	114	15	27.0	46	35	127	27	10,000	1.1	
5750 13409120	-PHC09SB -120	1	9	120	53	16	21.6	46	35	69	33	28,000	0.9	
5750 13409150	-150	1	9	150	84	16	24.9	46	35	97	33	16,000	1.0	
5750 13409165	-165	1	9	165	99	16	26.4	46	35	112	33	12,000	1.0	
5750 13409180	-180	1	9	180	114	16	28.0	46	35	127	33	10,000	1.1	
5750 13410120	-PHC10SB -120	1	10	120	53	17	22.6	46	35	69	33	28,000	0.9	
5750 13410150	-150	1	10	150	84	17	25.9	46	35	97	33	16,000	1.0	
5750 13410165	-165	1	10	165	99	17	27.4	46	35	112	33	12,000	1.0	
5750 13410180	-180	1	10	180	114	17	29.0	46	35	127	33	10,000	1.1	
5750 13411120	-PHC11SB -120	1	11	120	53	18	23.6	46	35	69	36	27,000	0.9	L-4T
5750 13411150	-150	1	11	150	84	18	26.9	46	35	97	36	16,000	1.0	
5750 13411165	-165	1	11	165	99	18	28.4	46	35	112	36	12,000	1.1	
5750 13411180	-180	1	11	180	114	18	30.0	46	35	127	36	10,000	1.1	
5750 13412120	-PHC12SB -120	1	12	120	53	19	24.6	46	35	69	36	27,000	0.9	
5750 13412150	-150	1	12	150	84	19	27.9	46	35	97	36	15,000	1.0	
5750 13412165	-165	1	12	165	99	19	29.4	46	35	112	36	12,000	1.1	
5750 13412180	-180	1	12	180	114	19	31.0	46	35	127	36	10,000	1.1	
5750 14403095	HSK50A -PHC03SB -95	1	3	95	28	11	14.0	46	42	75	16	25,000	0.6	
5750 14403105	-105	1	3	105	37	11	14.9	46	42	85	16	25,000	0.6	
5750 14403150	-150	1	3	150	84	11	19.9	46	42	130	16	18,000	0.9	
5750 14404095	-PHC04SB -95	1	4	95	28	11	14.0	46	42	75	19	25,000	0.6	
5750 14404105	-105	1	4	105	37	11	14.9	46	42	85	19	25,000	0.6	
5750 14404150	-150	1	4	150	84	11	19.9	46	42	130	19	18,000	0.9	
5750 14406105	-PHC06SB -105	1	6	105	38	13	17.0	46	42	53	27	25,000	1.0	
5750 14406150	-150	1	6	150	84	13	21.9	46	42	95	27	18,000	1.1	
5750 14406165	-165	1	6	165	99	13	23.4	46	42	110	27	13,000	1.1	
5750 14406180	-180	1	6	180	114	13	25.0	46	42	125	27	11,000	1.2	
5750 14407105	-PHC07SB -105	1	7	105	38	14	18.0	46	42	53	27	25,000	1.0	
5750 14407150	-150	1	7	150	84	14	22.9	46	42	95	27	18,000	1.1	
5750 14407165	-165	1	7	165	99	14	24.4	46	42	110	27	13,000	1.2	
5750 14407180	-180	1	7	180	114	14	26.0	46	42	125	27	11,000	1.2	
5750 14408105	-PHC08SB -105	1	8	105	38	15	19.0	46	42	53	27	25,000	1.0	L-4T
5750 14408150	-150	1	8	150	84	15	23.9	46	42	95	27	18,000	1.1	
5750 14408165	-165	1	8	165	99	15	25.4	46	42	110	27	13,000	1.2	
5750 14408180	-180	1	8	180	114	15	27.0	46	42	125	27	11,000	1.2	
5750 14409120	-PHC09SB -120	1	9	120	53	16	21.6	46	42	67	33	25,000	1.0	
5750 14409150	-150	1	9	150	84	16	24.9	46	42	95	33	18,000	1.1	
5750 14409165	-165	1	9	165	99	16	26.4	46	42	110	33	13,000	1.2	
5750 14409180	-180	1	9	180	114	16	28.0	46	42	125	33	11,000	1.3	
5750 14410120	-PHC10SB -120	1	10	120	53	17	22.6	46	42	67	33	25,000	1.0	
5750 14410150	-150	1	10	150	84	17	25.9	46	42	95	33	18,000	1.2	
5750 14410165	-165	1	10	165	99	17	27.4	46	42	110	33	13,000	1.2	
5750 14410180	-180	1	10	180	114	17	29.0	46	42	125	33	11,000	1.3	
5750 14411120	-PHC11SB -120	1	11	120	53	18	23.6	46	42	67	36	25,000	1.0	
5750 14411150	-150	1	11	150	84	18	26.9	46	42	95	36	17,000	1.2	
5750 14411165	-165	1	11	165	99	18	28.4	46	42	110	36	13,000	1.2	
5750 14411180	-180	1	11	180	114	18	30.0	46	42	125	36	11,000	1.3	
5750 14412120	-PHC12SB -120	1	12	120	53	19	24.6	46	42	67	36	25,000	1.0	
5750 14412150	-150	1	12	150	84	19	27.9	46	42	95	36	16,000	1.2	
5750 14412165	-165	1	12	165	99	19	29.4	46	42	110	36	13,000	1.2	
5750 14412180	-180	1	12	180	114	19	31.0	46	42	125	36	10,000	1.3	
5750 75403080	HSK63A -PHC03SB -80	2	3	80	28	11	14.0	46	—	58	16	20,500	0.8	L-4T
5750 75403090	-90	2	3	90	37	11	14.9	46	—	68	16	20,500	0.9	
5750 75403135	-135	2	3	135	84	11	19.9	46	—	113	16	20,500	1.2	
5750 75404080	-PHC04SB -80	2	4	80	28	11	14.0	46	—	58	19	20,500	0.8	
5750 75404090	-90	2	4	90	37	11	14.9	46	—	68	19	20,500	0.8	
5750 75404135	-135	2	4	135	84	11	19.9	46	—	113	19	20,500	1.2	

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ 1	Max min ¹	kg	Wrench (Option)
5750 75406090	HSK63A -PHC06SB -90	2	6	90	38	13	17.0	46	—	53	27	20,500	1.1	L-4T
5750 75406135	-135	2	6	135	84	13	21.9	46	—	92	27	20,500	1.2	
5750 75406150	-150	2	6	150	99	13	23.4	46	—	107	27	16,000	1.3	
5750 75406165	-165	2	6	165	114	13	25.0	46	—	122	27	12,000	1.3	
5750 75406180	-180	2	6	180	130	13	26.7	46	—	137	27	10,000	1.4	
5750 75407090	-PHC07SB -90	2	7	90	38	14	18.0	46	—	53	27	20,500	1.1	
5750 75407135	-135	2	7	135	84	14	22.9	46	—	92	27	20,500	1.2	
5750 75407150	-150	2	7	150	99	14	24.4	46	—	107	27	16,000	1.3	
5750 75407165	-165	2	7	165	114	14	26.0	46	—	122	27	12,000	1.3	
5750 75407180	-180	2	7	180	130	14	27.7	46	—	137	27	10,000	1.4	
5750 75408090	-PHC08SB -90	2	8	90	38	15	19.0	46	—	53	27	20,500	1.1	
5750 75408135	-135	2	8	135	84	15	23.9	46	—	92	27	20,500	1.2	
5750 75408150	-150	2	8	150	99	15	25.4	46	—	107	27	17,000	1.3	
5750 75408165	-165	2	8	165	114	15	27.0	46	—	122	27	12,000	1.3	
5750 75408180	-180	2	8	180	130	15	28.7	46	—	137	27	10,000	1.4	
5750 75409105	-PHC09SB -105	2	9	105	53	16	21.6	46	—	67	33	20,500	1.2	
5750 75409135	-135	2	9	135	84	16	24.9	46	—	92	33	20,500	1.3	
5750 75409150	-150	2	9	150	99	16	26.4	46	—	107	33	16,000	1.3	
5750 75409165	-165	2	9	165	114	16	28.0	46	—	122	33	12,000	1.4	
5750 75409180	-180	2	9	180	130	16	29.7	46	—	137	33	10,000	1.4	
5750 75410105	-PHC10SB -105	2	10	105	53	17	22.6	46	—	67	33	20,500	1.2	
5750 75410135	-135	2	10	135	84	17	25.9	46	—	92	33	20,000	1.3	
5750 75410150	-150	2	10	150	99	17	27.4	46	—	107	33	16,000	1.3	
5750 75410165	-165	2	10	165	114	17	29.0	46	—	122	33	12,000	1.4	
5750 75410180	-180	2	10	180	130	17	30.7	46	—	137	33	10,000	1.5	
5750 75411105	-PHC11SB -105	2	11	105	53	18	23.6	46	—	67	36	20,500	1.2	
5750 75411135	-135	2	11	135	84	18	26.9	46	—	92	36	20,000	1.3	
5750 75411150	-150	2	11	150	99	18	28.4	46	—	107	36	15,000	1.3	
5750 75411165	-165	2	11	165	114	18	30.0	46	—	122	36	12,000	1.4	
5750 75411180	-180	2	11	180	130	18	31.7	46	—	137	36	10,000	1.5	
5750 75412105	-PHC12SB -105	2	12	105	53	19	24.6	46	—	67	36	20,500	1.2	
5750 75412135	-135	2	12	135	84	19	27.9	46	—	92	36	20,000	1.3	
5750 75412150	-150	2	12	150	99	19	29.4	46	—	107	36	15,000	1.3	
5750 75412165	-165	2	12	165	114	19	31.0	46	—	122	36	12,000	1.4	
5750 75412180	-180	2	12	180	130	19	32.7	46	—	137	36	10,000	1.5	
5750 75416135	-PHC16SB -135	2	16	135	84	23	31.9	52.5	—	91	40	20,000	1.4	L-5T
5750 75416165	-165	2	16	165	114	23	35.0	52.5	—	120	40	12,000	1.6	
5750 75416180	-180	2	16	180	129	23	36.6	52.5	—	135	40	10,000	1.7	
5750 75420150	-PHC20SB -150	1	20	150	84	28	36.9	60	42	91	40	19,000	2.2	
5750 75420180	-180	1	20	180	114	28	40.0	60	42	120	40	12,000	2.2	
5750 75420195	-195	1	20	195	129	28	41.6	60	42	135	40	10,000	2.5	
5750 75425150	-PHC25SB -150	1	25	150	84	37	45.9	60	42	91	50	16,000	2.2	L-5T
5750 75425180	-180	1	25	180	114	37	49.0	60	42	120	50	12,000	2.5	
5750 75425195	-195	1	25	195	129	37	50.6	60	42	135	50	10,000	2.6	
5750 77403150	HSK100A -PHC03SB -150 NEW	2	3	150	84	11	19.9	46	—	121	16	12,500	2.4	L-4T
5750 77403195	-195 NEW	2	3	195	84	11	19.9	46	—	166	16	12,000	2.8	
5750 77404150	-PHC04SB -150 NEW	2	4	150	84	11	19.9	46	—	121	19	12,500	2.4	
5750 77404195	-195 NEW	2	4	195	84	11	19.9	46	—	166	19	12,000	2.8	
5750 77406105	-PHC06SB -105	2	6	105	38	13	17.0	46	—	53	27	12,500	2.6	
5750 77406150	-150	2	6	150	84	13	21.9	46	—	92	27	12,500	2.7	
5750 77406165	-165	2	6	165	99	13	23.4	46	—	107	27	12,500	2.7	
5750 77406180	-180	2	6	180	114	13	25.0	46	—	122	27	11,000	2.8	
5750 77406195	-195	2	6	195	130	13	26.7	46	—	137	27	9,000	2.8	
5750 77407105	-PHC07SB -105	2	7	105	38	14	18.0	46	—	53	27	12,500	2.6	
5750 77407150	-150	2	7	150	84	14	22.9	46	—	92	27	12,500	2.7	
5750 77407165	-165	2	7	165	99	14	24.4	46	—	107	27	12,500	2.8	
5750 77407180	-180	2	7	180	114	14	26.0	46	—	122	27	11,000	2.8	
5750 77407195	-195	2	7	195	130	14	27.7	46	—	137	27	9,000	2.9	
5750 77408105	-PHC08SB -105	2	8	105	38	15	19.0	46	—	53	27	12,500	2.7	
5750 77408150	-150	2	8	150	84	15	23.9	46	—	92	27	12,500	2.7	
5750 77408165	-165	2	8	165	99	15	25.4	46	—	107	27	12,500	2.8	
5750 77408180	-180	2	8	180	114	15	27.0	46	—	122	27	11,000	2.8	
5750 77408195	-195	2	8	195	130	15	28.7	46	—	137	27	9,000	2.9	
5750 77409150	-PHC09SB -150	2	9	150	84	16	24.9	46	—	92	33	12,500	2.7	
5750 77409165	-165	2	9	165	99	16	26.4	46	—	107	33	12,500	2.8	
5750 77409180	-180	2	9	180	114	16	28.0	46	—	122	33	11,000	2.8	
5750 77409195	-195	2	9	195	130	16	29.7	46	—	137	33	10,000	2.9	
5750 77410150	-PHC10SB -150	2	10	150	84	17	25.9	46	—	92	33	12,500	2.7	
5750 77410165	-165	2	10	165	99	17	27.4	46	—	107	33	12,500	2.8	
5750 77410180	-180	2	10	180	114	17	29.0	46	—	122	33	11,000	2.9	
5750 77410195	-195	2	10	195	130	17	30.7	46	—	137	33	9,000	2.9	
5750 77411150	-PHC11SB -150	2	11	150	84	18	26.9	46	—	92	36	12,500	2.8	
5750 77411165	-165	2	11	165	99	18	28.4	46	—	107	36	12,500	2.8	
5750 77411180	-180	2	11	180	114	18	30.0	46	—	122	36	11,000	2.9	
5750 77411195	-195	2	11	195	130	18	31.7	46	—	137	36	9,000	3.0	
5750 77412150	-PHC12SB -150	2	12	150	84	19	27.9	46	—	92	36	12,500	2.8	L-5T
5750 77412165	-165	2	12	165	99	19	29.4	46	—	107	36	12,500	2.8	
5750 77412180	-180	2	12	180	114	19	31.0	46	—	122	36	11,000	2.9	
5750 77412195	-195	2	12	195	130	19	32.7	46	—	137	36	9,000	3.0	
5750 77416150	-PHC16SB -150	2	16	150	84	23	31.9	52.5	—	91	40	12,500	3.1	
5750 77416180	-180	2	16	180	114	23	35.0	52.5	—	120	40	11,000	3.2	
5750 77416195	-195	2	16	195	129	23	36.6	52.5	—	135	40	10,000	3.3	
5750 77420150	-PHC20SB -150	2	20	150	84	28	36.9	60	—	91	40	12,500	3.6	
5750 77420180	-180	2	20	180	114	28	40.0	60	—	120	40	12,500	3.7	
5750 77420195	-195	2	20	195	129	28	41.6	60	—	135	40	11,000	3.8	
5750 77425150	-PHC25SB -150	2	25	150	84	37	45.9	60	—	91	50	12,500	3.6	L-5T
5750 77425180	-180	2	25	180	114	37	49.0	60	—	120	50	12,500	3.9	
5750 77425195	-195	2	25	195	129	37	50.6	60	—	135	50	11,000	4.0	

*HSK63A, HSK100A have manual clamp holes in the shank.

- 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

HSK63A - PHC12SB - 135

Shank size

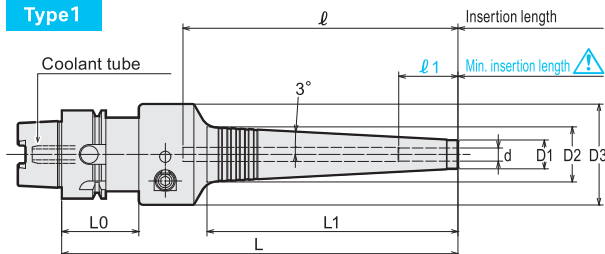


PHC-SB

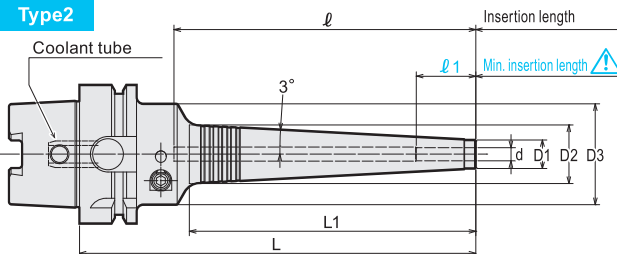
Slim Hydro Chuck

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

Type1



Type2



⚠ Caution : Strictly keep the min insertion length.

● Coolant tube is included

Code	Model			Type	d	L	L1	D1	D2	D3	L0	ℓ※1	ℓ1
575075504090	HSK63A	-PHC0125SB	-90	2	3.175	90	37	11	14.9	46	—	68	16
575075504135			-135	2	3.175	135	84	11	19.9	46	—	113	16
575075508150		-PHC0250SB	-150	2	6.35	150	99	13	23.4	46	—	107	27
575075508165			-165	2	6.35	165	114	13	25.0	46	—	122	27
575075508180			-180	2	6.35	180	130	13	26.7	46	—	137	27
575075510150		-PHC0312SB	-150	2	7.938	150	99	15	25.4	46	—	107	27
575075510165			-165	2	7.938	165	114	15	27.0	46	—	122	27
575075510180			-180	2	7.938	180	130	15	28.7	46	—	137	27
575075512150		-PHC0375SB	-150	2	9.525	150	99	17	27.4	46	—	107	33
575075512165			-165	2	9.525	165	114	17	29.0	46	—	122	33
575075512180			-180	2	9.525	180	130	17	30.7	46	—	137	33
575075516150		-PHC0500SB	-150	2	12.7	150	99	20	30.4	46	—	107	36
575075516165			-165	2	12.7	165	114	20	32.0	46	—	122	36
575075516180			-180	2	12.7	180	130	20	33.7	46	—	137	36
575075520135		-PHC0625SB	-135	2	15.875	135	84	23	31.9	52.5	—	91	40
575075520165			-165	2	15.875	165	114	23	35.0	52.5	—	120	40
575075520180			-180	2	15.875	180	129	23	36.6	52.5	—	135	40
575075524150		-PHC0750SB	-150	1	19.05	150	84	28	36.9	60	42	91	40
575075524180			-180	1	19.05	180	114	28	40.0	60	42	120	40
575075524195			-195	1	19.05	195	129	28	41.6	60	42	135	40
575075532150		-PHC1000SB	-150	1	25.4	150	84	38	46.9	60	42	91	50
575075532180			-180	1	25.4	180	114	38	50.0	60	42	120	50
575075532195			-195	1	25.4	195	129	38	51.6	60	42	135	50

※1 : Dimension up to pull bolt when preset screw is not used.

Code	Model			Type	d	L	L1	D1	D2	D3	L0	ℓ※1	ℓ1
575077508150	HSK100A	-PHC0250SB	-150	2	6.35	150	84	13	21.9	46	—	92	27
575077508180			-180	2	6.35	180	114	13	25.0	46	—	122	27
575077508195			-195	2	6.35	195	130	13	26.7	46	—	137	27
575077510150		-PHC0312SB	-150	2	7.938	150	84	15	23.9	46	—	92	27
575077510180			-165	2	7.938	180	114	15	27.0	46	—	122	27
575077510195			-195	2	7.938	195	130	15	28.7	46	—	137	27
575077512150		-PHC0375SB	-150	2	9.525	150	84	17	25.9	46	—	92	33
575077512180			-180	2	9.525	180	114	17	29.0	46	—	122	33
575077512195			-195	2	9.525	195	130	17	30.7	46	—	137	33
575077516150		-PHC0500SB	-150	2	12.7	150	84	20	28.9	46	—	92	36
575077516180			-180	2	12.7	180	114	20	32.0	46	—	122	36
575077516195			-195	2	12.7	195	130	20	33.7	46	—	137	36
575077520150		-PHC0625SB	-150	2	15.875	150	84	23	31.9	52.5	—	91	40
575077520180			-180	2	15.875	180	114	23	35.0	52.5	—	120	40
575077520195			-195	2	15.875	195	129	23	36.6	52.5	—	135	40
575077524150		-PHC0750SB	-150	2	19.05	150	84	28	36.9	60	—	91	40
575077524180			-180	2	19.05	180	114	28	40.0	60	—	120	40
575077524195			-195	2	19.05	195	129	28	41.6	60	—	135	40
575077532150		-PHC1000SB	-150	2	25.4	150	84	38	46.9	60	—	91	50
575077532180			-180	2	25.4	180	114	38	50.0	60	—	120	50
575077532195			-195	2	25.4	195	129	38	51.6	60	—	135	50

※ 1 : Dimension up to pull bolt when preset screw (not included) is not used.