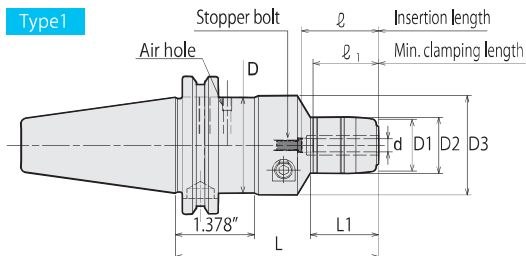




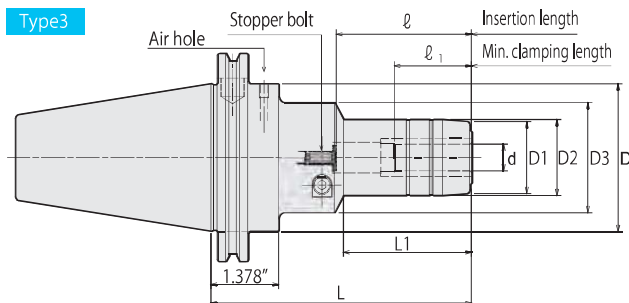
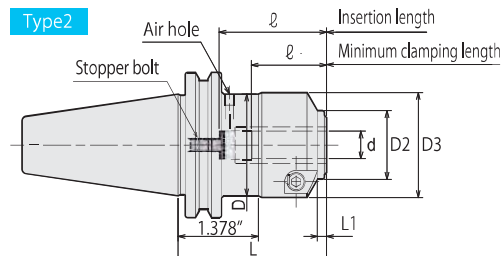
PHC·A Power Hydro Chuck

Hydro chuck with collet holder flexibility. Suitable for high precision cutting.

CAT



For PHC04A, the Stopper bolt is not included.
Please order separately (Special item).



! 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	Type	d	L	L1	D	D1	D2	D3	t	t1	Max Min-1	kg	Wrench (Sold Separate)	
186011408065	CAT40 -PHC0250A	-65	2	0.250	2.560	0.158	1.75	—	1.024	1.807	1.338	1.142	20000	1.3	L-4T (4mm)
186011408090		-90	1	0.250	3.544	1.190	1.75	0.945	1.024	1.811	1.338	1.142	20000	1.3	
186011408120		-120	1	0.250	4.725	1.623	1.75	0.945	1.024	1.811	1.771	1.142	20000	1.5	
186011410065	CAT40 -PHC0312A	-65	2	0.312	2.560	0.158	1.75	—	1.103	1.807	1.338	1.142	20000	1.3	
186011410090		-90	1	0.312	3.544	1.213	1.75	1.024	1.103	1.811	1.338	1.142	20000	1.5	
186011410120		-120	1	0.312	4.725	1.646	1.75	1.024	1.103	1.811	1.771	1.142	20000	1.7	
186011412065	CAT40 -PHC0375A	-65	2	0.375	2.560	0.158	1.75	—	1.182	1.807	1.771	1.300	20000	1.3	
186011412105		-105	1	0.375	4.134	1.758	1.75	1.103	1.182	2.048	1.968	1.575	20000	1.6	
186011412135		-135	1	0.375	5.315	2.546	1.75	1.103	1.182	2.048	2.755	1.575	20000	1.7	
186011416065	CAT40 -PHC0500A	-65	2	0.500	2.560	0.158	1.75	—	1.182	1.969	1.771	1.300	20000	1.3	
186011416105		-105	1	0.500	4.134	1.826	1.75	1.339	1.418	2.048	1.968	1.575	20000	1.5	
186011416135		-135	1	0.500	5.315	2.614	1.75	1.339	1.418	2.048	2.755	1.575	20000	1.8	
186011420065	CAT40 -PHC0625A	-65	2	0.625	2.560	0.158	1.75	—	1.182	1.969	1.771	1.300	20000	1.4	
186011420105		-105	1	0.625	4.134	1.849	1.75	1.418	1.496	2.048	1.968	1.575	20000	1.6	
186011420135		-135	1	0.625	5.315	2.637	1.75	1.418	1.496	2.048	2.755	1.575	20000	1.9	
186011424105	CAT40 -PHC0750A	-105	1	0.750	4.134	1.963	1.75	1.575	1.654	1.811	1.968	1.575	20000	1.6	
186011424135		-135	1	0.750	5.315	2.750	1.75	1.575	1.654	1.811	2.422	1.575	20000	1.9	
186011432120	CAT40 -PHC1000A	-120	1	1.000	4.725	2.328	1.75	1.969	2.048	2.441	2.362	1.969	20000	2.2	
186011432150		-150	1	1.000	5.906	3.115	1.75	1.969	2.048	2.441	3.149	1.969	20000	2.6	
186011440135	CAT40 -PHC1250A	-135	1	1.250	5.315	—	1.75	2.363	2.441	2.441	2.952	2.560	20000	2.7	
186011440165		-165	1	1.250	6.496	—	1.75	2.363	2.441	—	3.148	2.560	20000	3.3	

Metric Sizes														Unit : Metric	
Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	kg	Max min – 1	Wrench (Sold Separate)	
186001404080	CAT40 -PHC04A -80	1	4	80	25.1	—	25	46	—	29	24	1.3	20000	L-4T	
186001406065	-PHC06A -65	2	6	65	4	—	—	26	44	34	29	1.3	20000		
186001406090	-90	1	6	90	30	44.45	24	26	46	34	29	1.4	20000		
186001406120	-120	1	6	120	41	44.45	24	26	46	45	29	1.5	20000		
186001407065	-PHC07A -65	2	7	65	4	—	—	26	44	34	29	1.3	20000		
186001407090	-90	1	7	90	30	44.45	26	28	46	34	29	1.4	20000		
186001407120	-120	1	7	120	41	44.45	26	28	46	45	29	1.4	20000		
186001408065	-PHC08A -65	2	8	65	4	—	—	28	44	34	29	1.3	20000		
186001408090	-90	1	8	90	30	44.45	26	28	46	34	29	1.4	20000		
186001408120	-120	1	8	4120	41	44.45	26	28	46	45	29	1.6	20000		
186001409065	-PHC09A -65	2	9	65	4	—	—	30	44	45	33	1.4	20000		
186001409105	-105	1	9	105	44	44.45	28	30	52	50	40	1.6	20000		
186001409135	-135	1	9	135	64	44.45	28	30	52	70	40	1.7	20000		
186001410065	-PHC10A -65	2	10	65	4	—	—	30	44	45	33	1.4	20000		
186001410105	-105	1	10	105	44	44.45	28	30	52	50	40	1.6	20000		
186001410135	-135	1	10	135	64	44.45	28	30	52	70	40	1.7	20000		
186001411065	-PHC11A -65	2	11	65	4	—	—	30	44	45	33	1.4	20000		
186001411105	-105	1	11	105	45	44.45	30	32	52	50	40	1.6	20000		
186001411135	-135	1	11	135	65	44.45	30	32	52	70	40	1.7	20000		
186001412065	-PHC12A -65	2	12	65	4	—	—	30	44	45	33	1.4	20000		
186001412105	-105	1	12	105	45	44.45	30	32	52	50	40	1.6	20000		
186001412135	-135	1	12	135	65	44.45	30	32	52	75	40	1.7	20000		
186001413065	-PHC13A -65	3	13	65	4	44.45	—	30	50	45	33	1.5	20000		
186001413105	-105	1	13	105	46	44.45	34	36	52	50	40	1.6	20000		
186001413135	-135	1	13	135	66	44.45	34	36	52	70	40	1.8	20000		
186001414065	-PHC14A -65	3	14	65	4	44.45	—	30	50	45	33	1.5	20000		
186001414105	-105	1	14	105	46	44.45	34	36	52	50	40	1.7	20000		
186001414135	-135	1	14	135	66	44.45	34	36	52	70	40	1.8	20000		
186001415065	-PHC15A -65	3	15	65	4	44.45	—	30	50	45	33	1.5	20000		
186001415105	-105	1	15	105	46	44.45	36	38	52	50	40	1.7	20000		
186001415135	-135	1	15	135	66	44.45	36	38	52	70	40	1.8	20000		
186001416065	-PHC16A -65	3	16	65	4	44.45	—	30	50	45	33	1.5	20000		
186001416105	-105	1	16	105	46	44.45	36	38	52	50	40	1.7	20000		
186001416135	-135	1	16	135	66	44.45	36	38	52	70	40	1.8	20000		
186001420105	-PHC20A -105	1	20	105	49	44.45	40	42	46	50	40	1.5	20000		
186001420135	-135	1	20	135	69	44.45	40	42	46	70	40	1.8	20000		
186001425120	-PHC25A -120	1	25	120	59	44.45	50	52	62	60	50	2.1	15000		
186001425150	-150	1	25	150	79	44.45	50	52	62	80	50	2.5	11000		
186001432135	-PHC32A -135	1	32	135	100	44.45	60	62	—	75	65	2.6	11000		
186001432165	-165	1	32	165	130	44.45	60	62	—	80	65	3.2	10000		

- 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.
- PHC12A and PHC20A have pin holes for collet with stopper pin on its body.
- Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
- For PHC0500A, PHC0750A, PHC03A & PHC04A, the length adjustment unit cannot be used.
- On 3mm and 4mm chuck models there may be leaking from the inner diameter slit when using center through coolant.

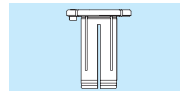
Ordering Example

CAT50 - PHC12A - 135

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

PHS Collet

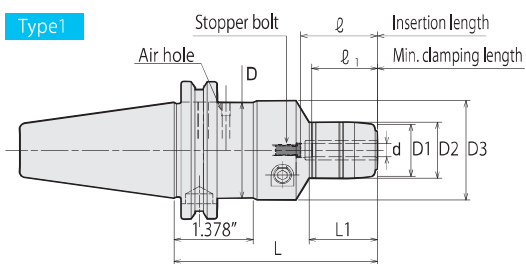
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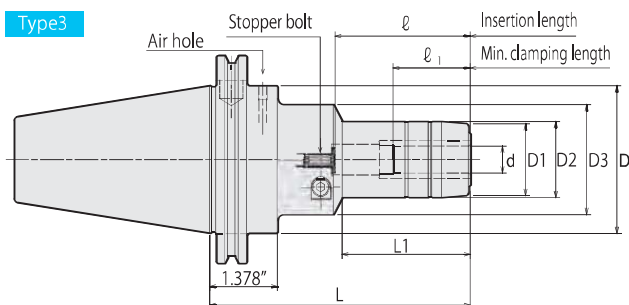
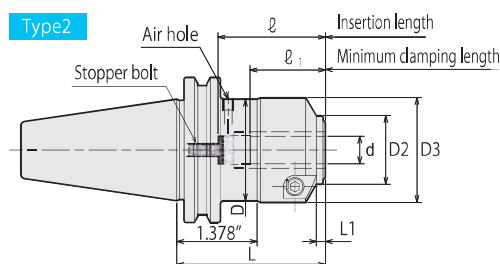
Hex. wrench

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For PHC04A, the Stopper bolt is not included.
Please order separately (Special item).



! 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	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ 1	Wrench (Option)		
3932 00669000	CAT50 -PHC0250A	-90	3	0.25	3.544	1.190	2.750	0.945	1.024	1.811	1.338	1.142	L-4T (4mm)	
3932 00667000		-120	3	0.25	4.725	1.623	2.750	0.945	1.024	1.811	1.771	1.142		
3932 00668000		-150	3	0.25	5.906	1.623	2.750	0.945	1.024	1.811	1.771	1.142		
3932 00672000	CAT50 -PHC0312A	-90	3	0.312	3.544	1.213	2.750	1.024	1.103	1.811	1.338	1.142		
3932 00670000		-120	3	0.312	4.725	1.646	2.750	1.024	1.103	1.811	1.771	1.142		
3932 00671000		-150	3	0.312	5.906	1.646	2.750	1.024	1.103	1.811	1.771	1.142		
3932 00661000	CAT50 -PHC0375A	-105	3	0.375	4.134	1.758	2.750	1.103	1.182	2.048	1.968	1.575		
3932 00662000		-135	3	0.375	5.315	2.546	2.750	1.103	1.182	2.048	2.755	1.575		
3932 00663000		-165	3	0.375	6.496	2.546	2.750	1.103	1.182	2.048	2.755	1.575		
3932 01025000	CAT50 -PHC0500A	-105	3	0.500	4.134	1.826	2.750	1.339	1.418	2.048	1.968	1.575		
3932 00673000		-135	3	0.500	5.315	2.614	2.750	1.339	1.418	2.048	2.755	1.575		
3932 00652000		-165	3	0.500	6.496	2.614	2.750	1.339	1.418	2.048	2.755	1.575		
3932 00653000	CAT50 -PHC0625A	-105	3	0.625	4.134	1.849	2.750	1.418	1.496	2.048	1.968	1.575		
3932 00654000		-135	3	0.625	5.315	2.637	2.750	1.418	1.496	2.048	2.755	1.575		
3932 00655000		-165	3	0.625	6.496	2.637	2.750	1.418	1.496	2.048	2.755	1.575		
1862 00031000	CAT50 -PHC0750A	-105	3	0.750	4.134	1.963	2.750	1.575	1.654	1.811	1.968	1.575	L-6T (6mm)	
3932 00656000		-135	3	0.750	5.315	2.750	2.750	1.575	1.654	1.811	2.755	1.575		
3932 00657000		-165	3	0.750	6.496	2.750	2.750	1.575	1.654	1.811	2.755	1.575		
3932 00658000	CAT50 -PHC1000A	-120	3	1.000	4.725	2.328	2.750	1.969	2.048	2.441	2.362	1.969		
3932 00659000		-150	3	1.000	5.906	3.115	2.750	1.969	2.048	2.441	3.149	1.969		
3932 00660000		-165	3	1.000	6.496	3.115	2.750	1.969	2.048	2.441	3.149	1.969		
3932 00675000	CAT50 -PHC1250A	-135	3	1.250	5.315	-	2.750	2.363	2.441	-	2.952	2.560		
3932 00664000		-165	3	1.250	6.496	-	2.750	2.363	2.441	-	3.149	2.560		

Metric Sizes														Unit : Metric	
Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	kg	Max Min-1	Wrench (Sold Separate)	
393200719000	CAT50 -PHC06A -90	3	6	90	30	69.85	24	26	46	34	29	3.9	15000	L-4T	
393200587000	-120	3	6	120	41	69.85	24	26	46	45	29	4.1	15000		
393200718000	-150	3	6	150	41	69.85	24	26	46	45	29	4.4	15000		
393200722000	-PHC07A -90	3	7	90	30	69.85	26	28	46	34	29	3.9	15000		
393200720000	-120	3	7	120	41	69.85	26	28	46	45	29	4.1	15000		
393200721000	-150	3	7	150	41	69.85	26	28	46	45	29	4.5	15000		
393200650000	-PHC08A -90	3	8	105	44	69.85	26	28	46	34	40	3.9	15000		
393200723000	-120	3	8	135	64	69.85	26	28	46	45	40	4.1	15000		
393200724000	-150	3	8	165	64	69.85	26	28	46	45	40	4.5	15000		
393200725000	-PHC09A -105	3	9	105	44	69.85	28	30	52	50	40	4.0	15000		
393200726000	-135	3	9	135	64	69.85	28	30	52	70	40	4.3	15000		
393200727000	-165	3	9	135	64	69.85	28	30	52	70	40	4.7	15000		
393200728000	-PHC10A -105	3	10	105	44	69.85	28	30	52	50	40	4.1	15000		
393200588000	-135	3	10	135	64	69.85	28	30	52	70	40	4.3	15000		
393200729000	-165	3	10	165	64	69.85	28	30	52	70	40	4.7	15000		
393200730000	-PHC11A -105	3	11	105	45	69.85	30	32	52	50	40	4.1	15000		
393200731000	-135	3	11	135	65	69.85	30	32	52	70	40	4.3	15000		
393200732000	-165	3	11	165	65	69.85	30	32	52	70	40	4.7	15000		
393200733000	-PHC12A -105	3	12	105	45	69.85	30	32	52	50	40	4.1	15000		
393200589000	-135	3	12	135	65	69.85	30	32	52	70	40	4.3	15000		
393200734000	-165	3	12	165	65	69.85	30	32	52	70	40	4.7	15000		
393200735000	-PHC13A -105	3	13	105	46	69.85	34	36	52	50	40	4.2	15000		
393200736000	-135	3	13	135	66	69.85	34	36	52	70	40	4.4	15000		
393200737000	-165	3	13	165	66	69.85	34	36	52	70	40	4.8	15000		
393200738000	-PHC14A -105	3	14	105	46	69.85	34	36	52	50	40	4.2	15000		
393200739000	-135	3	14	135	66	69.85	34	36	52	70	40	4.4	15000		
393200740000	-165	3	14	165	66	69.85	34	36	52	70	40	4.8	15000		
393200741000	-PHC15A -105	3	15	105	46	69.85	36	38	52	50	40	4.1	15000		
393200742000	-135	3	15	135	66	69.85	36	38	52	70	40	4.4	15000		
393200743000	-165	3	15	165	66	69.85	36	38	52	70	40	4.8	15000		
393200744000	-PHC16A -105	3	16	105	46	69.85	36	38	52	50	40	4.1	15000		
393200745000	-135	3	16	135	66	69.85	36	38	52	70	40	4.4	15000		
393200746000	-165	3	16	165	66	69.85	36	38	52	70	40	4.8	15000		
186200022000	-PHC20A -105	3	20	105	49	69.85	40	42	46	50	40	4.1	15000		
393200747000	-135	3	20	135	69	69.85	40	42	46	70	40	4.4	15000		
186200027000	-165	3	20	165	69	69.85	40	42	46	70	40	4.7	15000		
186200023000	-PHC25A -120	3	25	120	59	69.85	50	52	62	64	50	4.7	15000		
393200748000	-150	3	25	150	79	69.85	50	52	62	80	50	5.2	15000		
393200749000	-165	3	25	165	79	69.85	50	52	62	80	50	5.5	15000		
393200750000	-PHC32A -135	3	32	135	—	69.85	60	62	—	75	65	5.2	12000		
393200751000	-165	3	32	165	—	69.85	60	62	—	80	65	5.8	12000		

- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h6 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Length adjustment unit cannot be used with $\phi 4$ size.
- Do not leave the holder with actuating screw tightened when the chuck is empty.
- For PHC0500A, PHC0750A, PHC12A and PHC20A have pin holes for collet with stopper pin on its body.
- Hex-head screws are necessary to plug air hole for center through coolant feed (Included).

Ordering Example

CAT50 - PHC12A- 135
Shank size I.D.(d) Projection length(L)

PHS Collet

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Hex. wrench

P. 81

