



Hydro Chuck Series

New Standard For Next Generation

Ver. 01-PHC



NT TOOL CORPORATION

Movie (English)



Power Hydro Chuck

Hydro chuck with collet holder flexibility!

Runout accuracy $3\mu\text{m}$ (0.0001")
(Projection length : 4d *Max100mm)

Anti-vibration effect provides better surface

Repeated chucking accuracy $1\mu\text{m}$ (0.00004")

Easy! Quick! Simple Clamping!

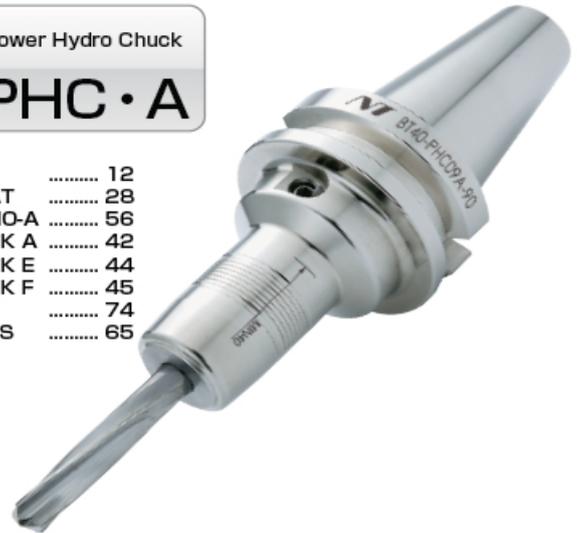
Max. rotational speed $40,000\text{min}^{-1}$

I.D. $\phi 3.0\sim\phi 32.0$ ($\phi 0.125\sim\phi 1.250$ ")

Power Hydro Chuck

PHC·A

BT	.....	12
CAT	.....	28
AHO-A	.....	56
HSK A	.....	42
HSK E	.....	44
HSK F	.....	45
C	.....	74
UTS	.....	65



A High balance

Pre-balanced design and individual balancing for each product allows for high rotational speeds.

Max. rotational : Max. $40,000\text{min}^{-1}$

※For BT30-PHC03A-60. Max rotational speed for other holders can be found on the dimensions page.

Easy! Quick! Simple Clamping!

The simple system of tightening with a single wrench eliminates human error. The same gripping force is ensured regardless of who tightens the chuck.



High precision

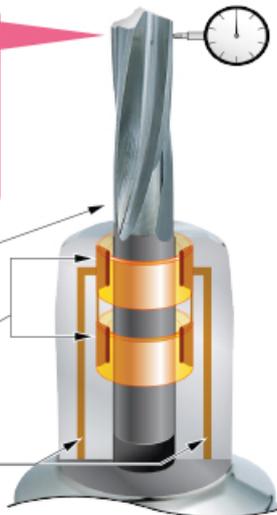
Projection length : 4d

Accuracy : $3\mu\text{m}$ (0.0001")
or less

Repeat accuracy: $1\mu\text{m}$ (0.00004")
or less

Tool pre-set without height offset.
"Dual clamping points system" for stable and high precision clamping.

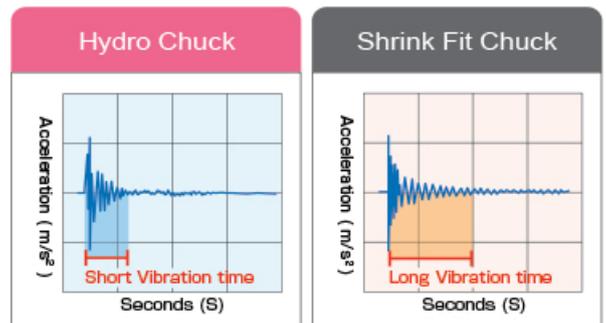
Hydraulic balance design.
Prevents deformation during chucking.



High anti-vibration effect

Special oil chamber around the chucking sleeve absorbs cutting vibrations.

Vibration Test



Length adjustment function (Sold separately)



Cutting tool height can be adjusted on the side with a hex wrench.

- ※Length adjustment unit can be used with BT and CAT.
- ※Length adjustment unit is not available for the models listed below.
 - Products with a projection length of 45mm
 - Products with an inner diameter of 3~4mm
 - BT30 with an inner diameter of 25~32mm

Collet with stopper pin

Collet with stopper pin (Internal coolant feeding enabled)



Tool with oil hole For collet through coolant

Anti-vibration effect provides better surface

Rotational Speed 1650min ⁻¹	4-flute carbide Endmill
Feed 550mm/min	Feed per flute 0.08mm/flute



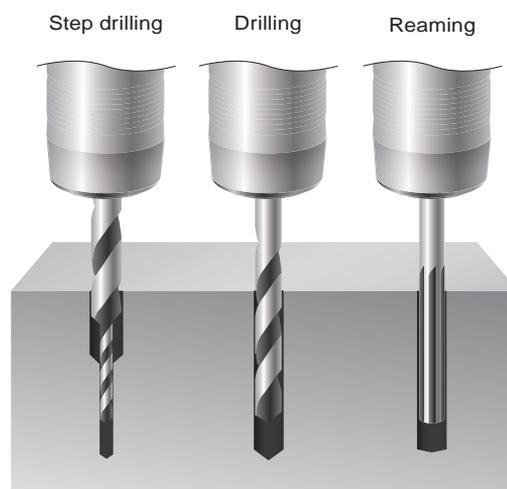
Power Hydro Chuck
Ra1.58



Shrink Fit Chuck
Ra3.52



Applications



Accessories

Inner Shank Cleaner Brush (Included)

P.80



PHC-A

To clean inner shank of Hydro Chuck, etc.

Torque check gauge (Sold separately)

P.80



PHC-A

If the Torque check gauge can't be rotated with your fingers, there is no loss of gripping force.

Collet with stopper pin (Sold separately)

PHS-A 78



PHC-A

Center through type and collet through type are available.

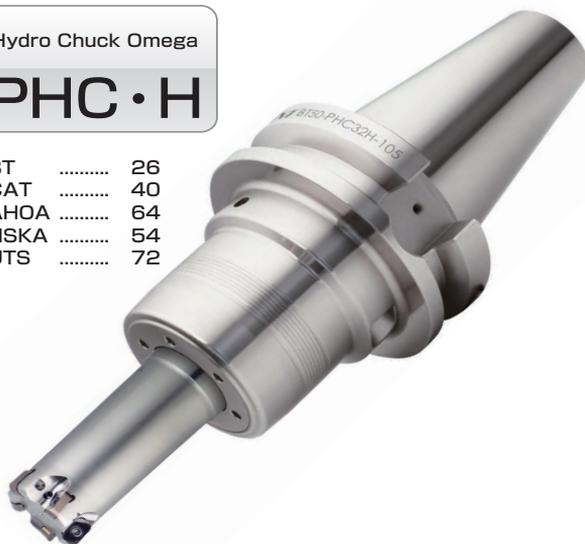
Hydro Chuck Omega

**No more pullout, chatter or deflection!
Step on up to high-efficiency machining!**

- Anti-vibration effect provides better surface**
- Accuracy 3 μ m (0.0001")**
(Projection length : 4d *Max100mm)
- Repeated chucking accuracy 1 μ m (0.00004")**
- Easy! Quick! Simple Clamping!**
- Max. rotational speed 20,500min⁻¹**
- I.D. ϕ 16.0~ ϕ 42.0 (ϕ 0.625"~ ϕ 1.500")**

Hydro Chuck Omega
PHC·H

BT	.....	26
CAT	.....	40
AHOA	.....	64
HSKA	.....	54
UTS	.....	72



High precision

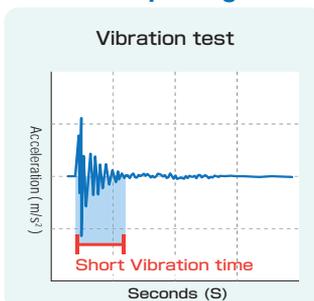
Projection length : 4d
Accuracy : **3 μ m (0.0001")** or less
Repeat accuracy: **1 μ m (0.00004")** or less

"Dual clamping points system" for stable and high precision clamping.

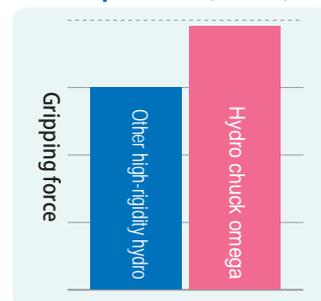
Anti-vibration effect & High clamping force

Special oil chamber around the chucking sleeve absorbs cutting vibrations. Utilizes stronger gripping force than a conventional hydro chuck.

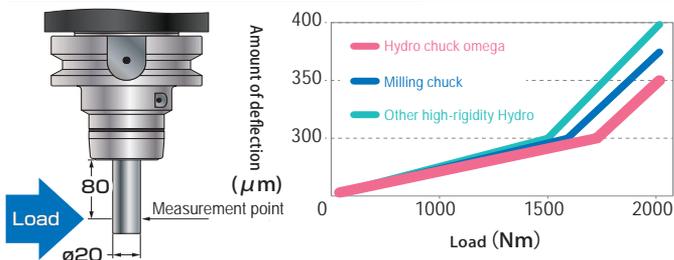
High vibration dampening



Gripping force comparison (ϕ 20mm)



High rigidity



High balance

Pre-balanced design and individual balancing for each product allows for high rotational speeds.

Max. rotational speed : Max. 20,000min⁻¹

※BT40-PHC16H-45, HSK63-PHC16H-80. Max rotational speed for other holders can be found on the dimensions page.

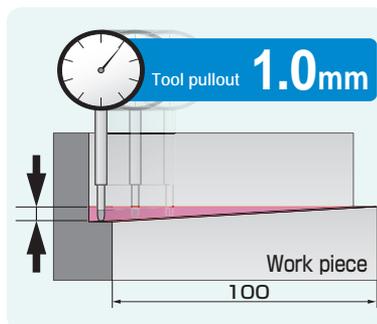
ø40mm 6 flute end mill machining

High gripping force prevents tool pullout!

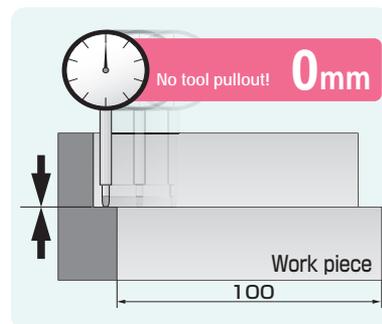


Rotational speed	212 min ⁻¹	Feed rate	0.5 mm/rev
Feed	106 mm/min	Coolant	External Oil Supply
Peripheral speed	21.3 m/min		

Other high-rigidity Hydro



Hydro Chuck Omega



ø20mm carbide 4 flute square end mill machining

High rigidity and accuracy reduce inclination of machining surface!



Rotational speed	6,350 min ⁻¹	Feed rate	0.56 mm/rev
Feed	3,570 mm/min	Coolant	External Oil Supply
Peripheral speed	398.7 m/min		

※ F=2,100 mm/min

Other high-rigidity Hydro



Hydro Chuck Omega



Accessories

Torque check gauge (Sold separately)

P.80



PHC-H

If the Torque check gauge can't be rotated with your fingers, there is no loss of gripping force.

Collet with stopper pin (Sold separately)

PHS-H 79



PHC-H

Center through type and collet through type are available.

Slim Hydro Chuck

These slim tools are optimized for eliminating workpiece interference in tight spaces!

Runout accuracy 3µm (0.0001")
(Projection length : 4d *Max100mm)

Anti-vibration effect provides better surface

Repeated chucking accuracy 1µm (0.00004")

Easy! Quick! Simple Clamping!

Max. rotational speed 40,000min⁻¹

I.D. ø3.0~ø25.0 (ø0.125"~ø1.000")

Slim Hydro Chuck
PHC·SB

BT	.....	18
CAT	.....	34
AHOA	.....	58
HSKA	.....	46
C	.....	75
UTS	.....	66



High anti-vibration effect



Special oil chamber around the chucking sleeve absorbs cutting vibrations.

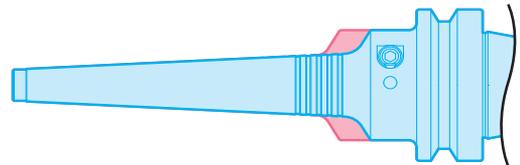
 Oil Chamber

Oil chamber around the chucking sleeve absorbs cutting vibrations.

Further improved slim design

The new design is even slimmer than the PHC·SA.

 : PHC·SB
 : PHC·SA (Previous model)



Anti-vibration effect provides better surface

Rotational Speed 4,200min⁻¹ Feed 850mm/min

ø12 carbide end-mill with 4 irregular pitch flutes



Slim type Shrink Fit Chuck



Slim Hydro Chuck



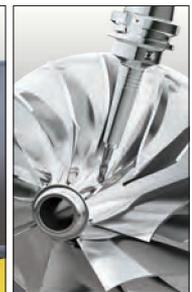
Applications



Drilling in tight space



Finishing with ball endmill in tight space



Finishing with ball endmill on 5-axis machine

NEW!

Straight Shank Hydro Chuck

These slim tools are optimized for eliminating workpiece interference in tight spaces!

Straight Shank Hydro Chuck
ST-PHC•SB

ST 76

Runout accuracy 3µm (0.0001")
(Projection length : 4d *Max100mm)

Anti-vibration effect provides better surface

Repeated chucking accuracy 1µm (0.00004")

Easy! Quick! Simple Clamping!

I.D. ø3.0~ø12.0 (ø0.125"~ø0.500")



Runout accuracy
Projection length : 4d
3µm
(0.0001")



Product Introduction

NEW!

Slim Hydro Chuck Blaster

New "Blaster" series:
Get high efficiency in machining and longer tool life!

(CAT upon request)

Runout accuracy 3 μ m (0.0001")
(Projection length : 4d *Max100mm)

Anti-vibration effect provides better surface

I.D. PHC-SB-C : \varnothing 3.0~ \varnothing 25.0
PHC-SB-NC : \varnothing 4.0~ \varnothing 12.0
(Inch size available upon request)

Slim Hydro Chuck Blaster

PHC·SB-C

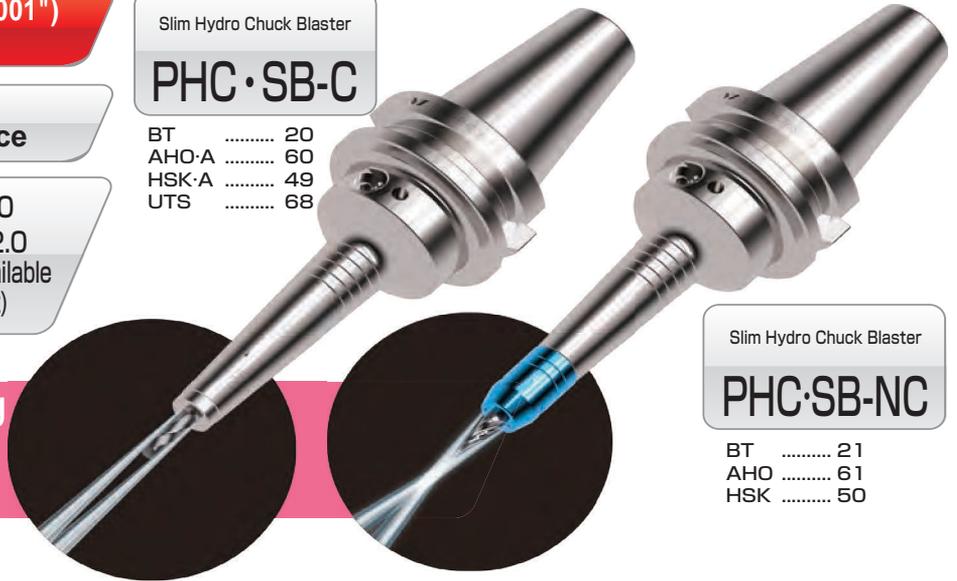
BT 20
AHO·A 60
HSK·A 49
UTS 68

Slim Hydro Chuck Blaster

PHC·SB-NC

BT 21
AHO 61
HSK 50

Effectively supplying coolant to cutting edge.



High anti-vibration effect

Special oil chamber around the chucking sleeve absorbs cutting vibrations.

 Oil Chamber

Oil chamber around the chucking sleeve absorbs cutting vibrations.

Accessories

Inner Shank Cleaner Brush (Included)

P.80



· To clean inner shank.

Torque check gauge (Sold separately)

P.80



PHC.SB (-C,-NC)

· If the Torque check gauge can't be rotated with your fingers, there is no loss of gripping force.

Preset Screw (Sold separately)

BT 24
CAT 32
AHO 62
HSK 51
UTS 70



PHC.SB
PHC.SB-C PHC.SB-NC

· Center through type

Cap for PHC-SB-NC (Included)

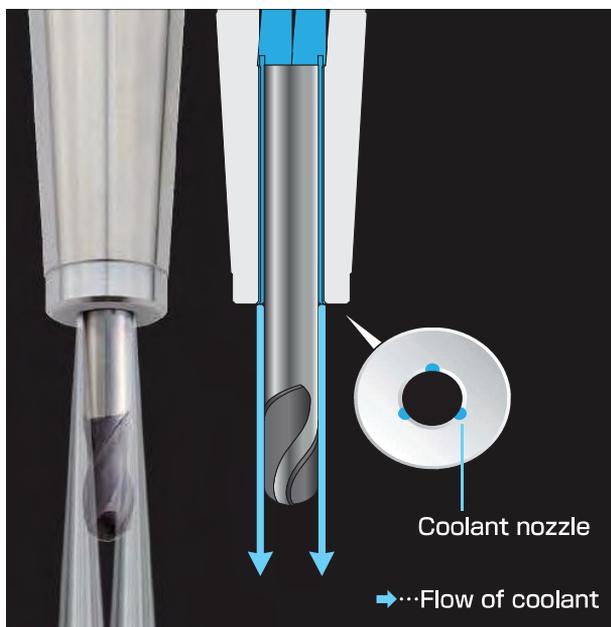
P.81



· Center through type

Blaster type / PHC-SB-C

Able to feed coolant along to cutting tool.



- Provides a cooling effect to the cutting tool.
 - Washes off cutting chips from cutting tool.
 - Sure way to deliver coolant to processing point.
 - Max rotational speed : MAX 40,000min⁻¹
- * BT30-PHC03SB-85-C



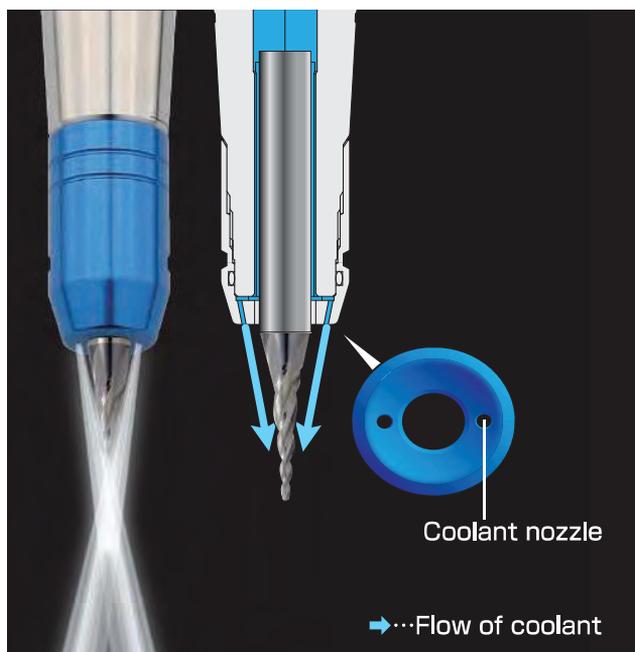
Drilling in tight space



Finishing with ball endmill in tight space

Blaster type with Cap / PHC-SB-NC

Minimize centrifugal force and feed coolant accurately.



- Pinpoint coolant at the cutting tool edge provides a cooling effect to the tip of the cutting tool.
 - Coolant ejection's angle can be changed by switching caps.
 - Max rotational speed : MAX 27,000min⁻¹
- * BT30-PHC10SB-110-NC



Taper Endmill Machining (for Impeller etc)

Slim Hydro "R" Zero Holder

NEW!



ECOHOLDER

Zero runout even with 200mm cutting tool.

Anti-vibration effect provides better surface

Accuracy 0-2 μ m (0~0.0001")

Repeated chucking accuracy 1 μ m (0.00004")

Easy! Quick! Simple Clamping!

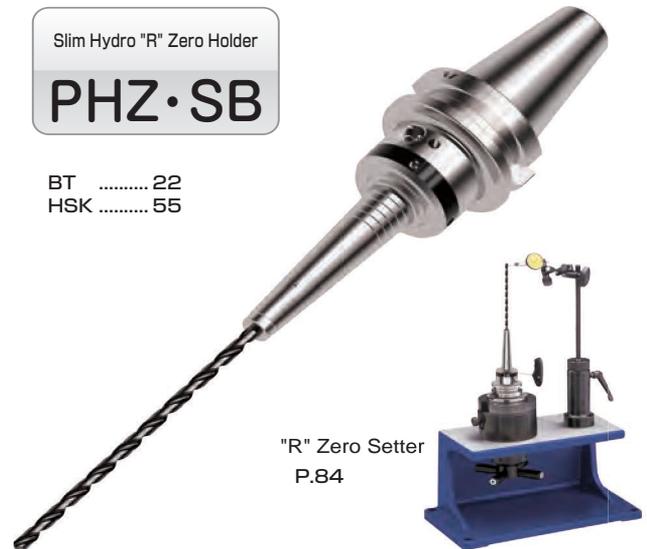
Max. rotational speed 17,000min⁻¹

I.D. ϕ 6.0~ ϕ 12.0 (Inch size available upon request)

Slim Hydro "R" Zero Holder

PHZ·SB

BT 22
HSK 55

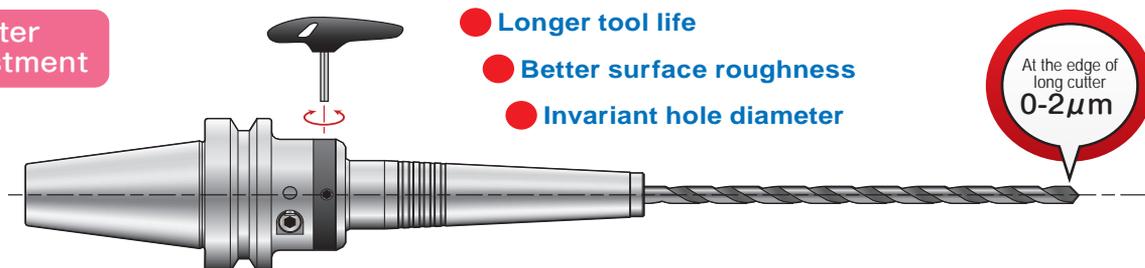


"R" Zero Setter
P.84

Simple Operation- Runout of the cutting edge can be adjusted to 0 to 2 μ m by simply tightening 4 adjustment screws.

Even if the runout at 4d is in allowable range, runout at the actual cutting edge is much larger as the projection length of the cutting tool gets longer. NT's "R" Zero holder realizes invariant hole diameter, better surface roughness and long tool life by adjusting runout at the cutting edge as closely as to zero.

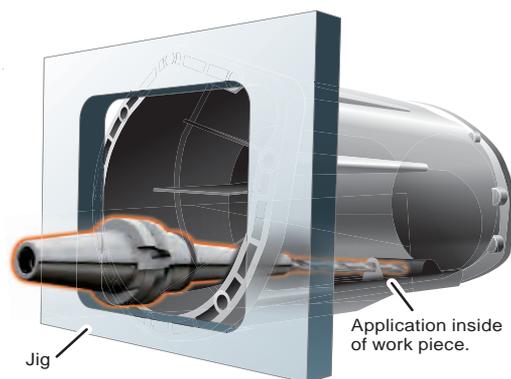
After Adjustment



- Longer tool life
- Better surface roughness
- Invariant hole diameter

Applications

Use long cutting tools to display the holder's true capabilities!



Jig

Application inside of work piece.

High precision cutting without interference with a jig.



High precision cutting in a deep/narrow hole.

ST•L-PHC

Hydro Chuck for CNC automatic lathe / Swiss machines



Efficient tool changing in tight machine spaces!

Shank Size
 Ø16, Ø19.5, Ø20,
 Ø22, Ø25, Ø25.4,

Chucking Size
 Ø3.0~Ø12.0 mm



Picture shown is image only. When using the product, secure the chuck on the fixture before clamping a cutting tool.

Movie (English)



Hydro chuck for CNC lathe ST.M-PHC



High precision Hydro Chuck for
CNC Lathe machines to improve
machining quality + tool life.

- Hydro's anti-vibration effect suppresses chattering during machining.
- Both ① and ② are hydraulically operated.
 - Repeatability accuracy of 2µm or less
 - Suppresses misalignment during cutter mounting



Reduce hole variance and chattering
in drilling and boring applications!

Advantages of Hydraulic System

- ① Highly accurate tool clamping due to contraction of the inside diameter!
- ② Reduces misalignment and self centers by expansion of the shank for retention!



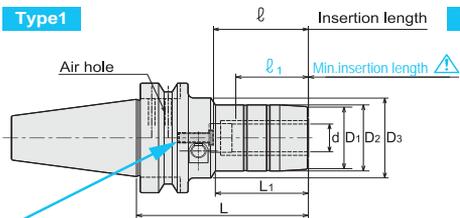
 : Hydraulic chamber



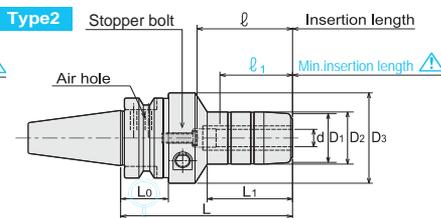
PHC·A Power Hydro Chuck

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

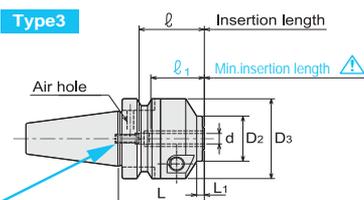
Type1



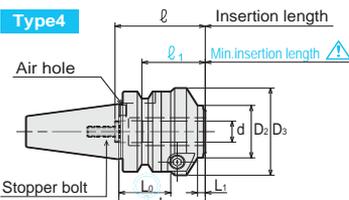
Type2



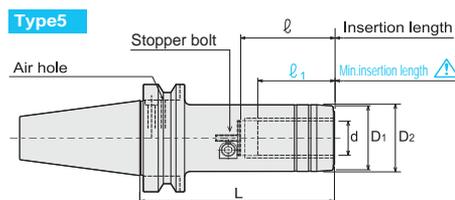
Type3



Type4



Type5



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.

Stopper bolt

For PHC03A & PHC04A a stopper bolt cannot be used.

Model	Hex wrench size for stopper bolt
PHC06A ~ 08A	2.5mm
PHC09A ~ 32A	3mm

Caution

★ : Take caution against A.T.C. arm and tool magazine interference.

Code	Model	Type	d	L	L ₁	D ₁	D ₂	D ₃	L ₀	l	l ₁	Max. min ⁻¹	kg	Wrench (Option)
3930 01103045	BT30 -PHC03A - 45	3	3	45	4	—	24	46	—	—	18	40,000	0.6	
3930 01103060	- 60	1	3	60	19.8	—	24	46	—	27	18	40,000	0.7	
3930 01103090	- 90	1	3	90	44.8	—	24	46	—	52	18	38,000	0.8	
3930 01104045	-PHC04A - 45	3	4	45	4	—	25	46	—	—	24	40,000	0.6	
3930 01104065	- 65	1	4	65	25.1	—	25	46	—	29	24	40,000	0.7	
3930 01104090	- 90	1	4	90	45.1	—	25	46	—	49	24	38,000	0.8	
3930 01106045	-PHC06A - 45	3	6	45	4	—	26	46	—	34	29	40,000	0.6	
3930 01106075	- 75	1	6	75	30	24	26	46	—	34	29	40,000	0.7	
3930 01107045	-PHC07A - 45	3	7	45	4	—	28	46	—	34	29	40,000	0.6	
3930 01107075	- 75	1	7	75	30	26	28	46	—	34	29	38,000	0.8	
3930 01108045	-PHC08A - 45	3	8	45	4	—	28	46	—	34	29	40,000	0.6	
3930 01108075	- 75	1	8	75	30	26	28	46	—	34	29	38,000	0.8	
3930 01109045	-PHC09A - 45	3	9	45	4	—	30	46	—	45	33	40,000	0.6	
3930 01109090	- 90	1	9	90	46	28	30	46	—	55	40	36,000	0.8	
3930 01109105	- 105	2	9	105	44	28	30	52	40	50	40	29,000	1.2	
3930 01110045	-PHC10A - 45	3	10	45	4	—	30	46	—	45	33	40,000	0.6	
3930 01110090	- 90	1	10	90	46	28	30	46	—	55	40	36,000	0.8	
3930 01110105	- 105	2	10	105	44	28	30	52	40	50	40	29,000	1.2	
3930 01111045	-PHC11A - 45	3	11	45	4	—	30	46	—	45	33	39,000	0.6	
3930 01111090	- 90	1	11	90	46	30	32	46	—	55	40	34,000	0.9	
3930 01111105	- 105	2	11	105	45	30	32	52	40	50	40	30,000	1.1	
3930 01112045	-PHC12A - 45	3	12	45	4	—	30	46	—	45	33	38,000	0.6	
3930 01112090	- 90	1	12	90	46	30	32	46	—	55	40	33,000	0.9	
3930 01112105	- 105	2	12	105	45	30	32	52	40	50	40	29,000	1.1	
3930 01113045	-PHC13A - 45	4	13	45	4	—	30	50	27	45	33	37,000	0.6	
3930 01113090	- 90	1	13	90	48	34	36	46	—	55	40	33,000	0.9	
3930 01113105	- 105	2	13	105	46	34	36	52	40	50	40	28,000	1.2	
3930 01114045	-PHC14A - 45	4	14	45	4	—	30	50	27	45	33	36,000	0.6	
3930 01114090	- 90	1	14	90	48	34	36	46	—	55	40	31,000	1.0	
3930 01114105	- 105	2	14	105	46	34	36	52	40	50	40	27,000	1.2	
3930 01115045	-PHC15A - 45	4	15	45	4	—	30	50	27	45	33	35,000	0.6	
3930 01115090	- 90	1	15	90	48	36	38	46	—	55	40	31,000	1.0	
3930 01115105	- 105	2	15	105	46	36	38	52	40	50	40	27,000	1.2	
3930 01116045	-PHC16A - 45	4	16	45	4	—	30	50	27	45	33	34,000	0.6	
3930 01116090	- 90	1	16	90	48	36	38	46	—	55	40	30,000	1.0	
3930 01116105	- 105	2	16	105	46	36	38	52	40	50	40	26,000	1.2	
3930 01118090	NEW -PHC18A - 90	1	18	90	49	38	40	46	—	50	40	28,000	1.0	
3930 01120090	-PHC20A - 90	1	20	90	49	40	42	46	—	50	40	27,000	1.0	
3930 01120120	- 120	1	20	120	69	40	42	46	—	70	40	22,000	1.3	
3930 01125090	NEW -PHC25A - 90	2	25	90	30	50	52	68	32	60	50	11,000	1.5	
3930 01132100	NEW -PHC32A -100	2	32	100	40	58	60	73	32	75	65	8,000	1.7	
3930 01303065	BT40 -PHC03A - 65	1	3	65	19.8	—	24	46	—	27	18	20,000	1.2	
3930 01303090	- 90	1	3	90	44.8	—	24	46	—	52	18	20,000	1.3	
3930 01304070	-PHC04A - 70	1	4	70	25.1	—	25	46	—	29	24	20,000	1.3	
3930 01304090	- 90	1	4	90	45.1	—	25	46	—	49	24	20,000	1.3	
3930 01306075	-PHC06A - 75	1	6	75	30	24	26	46	—	34	29	20,000	1.3	
3930 01306105	- 105	1	6	105	41	24	26	46	—	45	29	20,000	1.5	

Code	Model	Type	d	L	L ₁	D ₁	D ₂	D ₃	L ₀	ℓ	ℓ ₁	Max. min ⁻¹	kg	Wrench (Option)
3930 01307075	BT40 -PHC07A - 75	1	7	75	30	26	28	46	—	34	29	20,000	1.3	L-4T
3930 01307105	- 105	1	7	105	41	26	28	46	—	45	29	20,000	1.4	
3930 01308075	-PHC08A - 75	1	8	75	30	26	28	46	—	34	29	20,000	1.3	
3930 01308105	- 105	1	8	105	41	26	28	46	—	45	29	20,000	1.6	
3930 01309090	-PHC09A - 90	1	9	90	44	28	30	52	—	50	40	20,000	1.4	
3930 01309120	- 120	1	9	120	64	28	30	52	—	70	40	20,000	1.7	
3930 01310090	-PHC10A - 90	1	10	90	44	28	30	52	—	50	40	20,000	1.4	
3930 01310120	- 120	1	10	120	64	28	30	52	—	70	40	20,000	1.7	
3930 01311090	-PHC11A - 90	1	11	90	45	30	32	52	—	50	40	20,000	1.4	
3930 01311120	- 120	1	11	120	65	30	32	52	—	70	40	20,000	1.7	
3930 01312090	-PHC12A - 90	1	12	90	45	30	32	52	—	50	40	20,000	1.4	
3930 01312120	- 120	1	12	120	65	30	32	52	—	70	40	20,000	1.7	
3930 01313090	-PHC13A - 90	1	13	90	46	34	36	52	—	50	40	20,000	1.5	
3930 01313120	- 120	1	13	120	66	34	36	52	—	70	40	20,000	1.8	
3930 01314090	-PHC14A - 90	1	14	90	46	34	36	52	—	50	40	20,000	1.5	
3930 01314120	- 120	1	14	120	66	34	36	52	—	70	40	20,000	1.8	
3930 01315090	-PHC15A - 90	1	15	90	46	36	38	52	—	50	40	20,000	1.5	
3930 01315120	- 120	1	15	120	66	36	38	52	—	70	40	20,000	1.8	
3930 01316090	-PHC16A - 90	1	16	90	46	36	38	52	—	50	40	20,000	1.5	
3930 01316120	- 120	1	16	120	66	36	38	52	—	70	40	20,000	1.8	
3930 01318090	NEW -PHC18A - 90	1	18	90	49	38	40	46	—	50	40	20,000	1.5	
3930 01318120	NEW - 120	1	18	120	69	38	40	46	—	70	40	20,000	1.8	
3930 01320090	-PHC20A - 90	1	20	90	49	40	42	46	—	50	40	20,000	1.5	
3930 01320120	- 120	1	20	120	69	40	42	46	—	70	40	20,000	1.8	
3930 01325105	-PHC25A - 105	1	25	105	59	50	52	62	—	60	50	20,000	2.1	
3930 01325135	- 135	1	25	135	79	50	52	62	—	80	50	20,000	2.5	
3930 01332120	-PHC32A - 120	5	32	120	—	60	62	—	—	75	65	20,000	2.6	
3930 01332150	- 150	5	32	150	—	60	62	—	—	80	65	20,000	3.2	
3930 01506090	BT50 -PHC06A - 90	1	6	90	30	24	26	46	—	34	29	15,000	3.9	
3930 01506120	- 120	1	6	120	41	24	26	46	—	45	29	15,000	4.1	
3930 01506150	- 150	1	6	150	41	24	26	46	—	45	29	15,000	4.4	
3930 01507090	-PHC07A - 90	1	7	90	30	26	28	46	—	34	29	15,000	3.9	
3930 01507120	- 120	1	7	120	41	26	28	46	—	45	29	15,000	4.1	
3930 01507150	- 150	1	7	150	41	26	28	46	—	45	29	15,000	4.5	
3930 01508090	-PHC08A - 90	1	8	90	30	26	28	46	—	34	29	15,000	3.9	
3930 01508120	- 120	1	8	120	41	26	28	46	—	45	29	15,000	4.1	
3930 01508150	- 150	1	8	150	41	26	28	46	—	45	29	15,000	4.5	
3930 01509105	-PHC09A - 105	1	9	105	44	28	30	52	—	50	40	15,000	4.0	
3930 01509135	- 135	1	9	135	64	28	30	52	—	70	40	15,000	4.3	
3930 01509165	- 165	1	9	165	64	28	30	52	—	70	40	15,000	4.7	
3930 01510105	-PHC10A - 105	1	10	105	44	28	30	52	—	50	40	15,000	4.1	
3930 01510135	- 135	1	10	135	64	28	30	52	—	70	40	15,000	4.3	
3930 01510165	- 165	1	10	165	64	28	30	52	—	70	40	15,000	4.7	
3930 01511105	-PHC11A - 105	1	11	105	45	30	32	52	—	50	40	15,000	4.1	
3930 01511135	- 135	1	11	135	65	30	32	52	—	70	40	15,000	4.3	
3930 01511165	- 165	1	11	165	65	30	32	52	—	70	40	15,000	4.7	
3930 01512105	-PHC12A - 105	1	12	105	45	30	32	52	—	50	40	15,000	4.1	
3930 01512135	- 135	1	12	135	65	30	32	52	—	70	40	15,000	4.3	
3930 01512165	- 165	1	12	165	65	30	32	52	—	70	40	15,000	4.7	
3930 01513105	-PHC13A - 105	1	13	105	46	34	36	52	—	50	40	15,000	4.2	
3930 01513135	- 135	1	13	135	66	34	36	52	—	70	40	15,000	4.4	
3930 01513165	- 165	1	13	165	66	34	36	52	—	70	40	15,000	4.8	
3930 01514105	-PHC14A - 105	1	14	105	46	34	36	52	—	50	40	15,000	4.2	
3930 01514135	- 135	1	14	135	66	34	36	52	—	70	40	15,000	4.4	
3930 01514165	- 165	1	14	165	66	34	36	52	—	70	40	15,000	4.8	
3930 01515105	-PHC15A - 105	1	15	105	46	36	38	52	—	50	40	15,000	4.1	
3930 01515135	- 135	1	15	135	66	36	38	52	—	70	40	15,000	4.4	
3930 01515165	- 165	1	15	165	66	36	38	52	—	70	40	15,000	4.8	
3930 01516105	-PHC16A - 105	1	16	105	46	36	38	52	—	50	40	15,000	4.1	
3930 01516135	- 135	1	16	135	66	36	38	52	—	70	40	15,000	4.4	
3930 01516165	- 165	1	16	165	66	36	38	52	—	70	40	15,000	4.8	
3930 01520105	-PHC20A - 105	1	20	105	49	40	42	46	—	50	40	15,000	4.1	
3930 01520135	- 135	1	20	135	69	40	42	46	—	70	40	15,000	4.4	
3930 01520165	- 165	1	20	165	69	40	42	46	—	70	40	15,000	4.7	
3930 01525120	-PHC25A - 120	1	25	120	59	50	52	62	—	64	50	15,000	4.7	
3930 01525150	- 150	1	25	150	79	50	52	62	—	80	50	15,000	5.2	
3930 01525165	- 165	1	25	165	79	50	52	62	—	80	50	15,000	5.5	
3930 01532135	-PHC32A - 135	5	32	135	—	60	62	—	—	75	65	15,000	5.2	
3930 01532165	- 165	5	32	165	—	60	62	—	—	80	65	15,000	5.8	

- 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 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

BT50 - PHC12A - 135

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



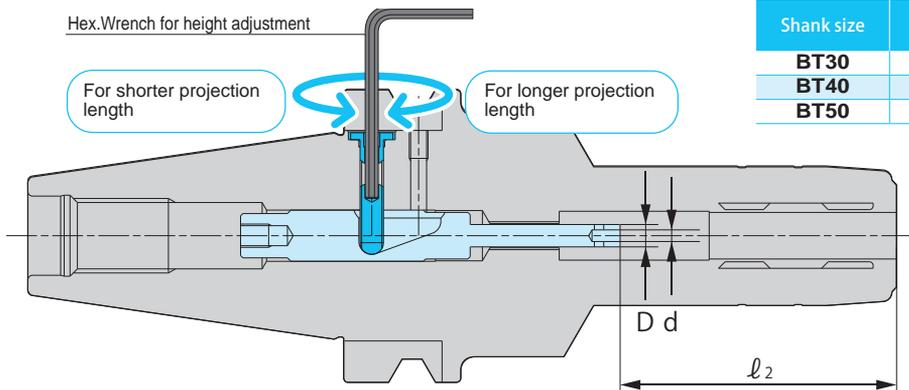
Inch size upon request

Length adjustment unit for PHC·A

Hex.Wrench for height adjustment

For shorter projection length

For longer projection length



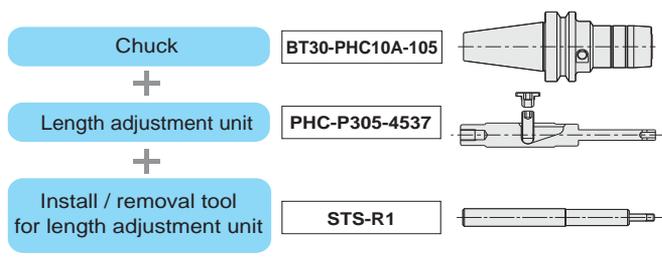
Shank size	Hex wrench size for height adjustment	Install / removal tool for length adjustment unit
BT30	2.5mm	STS-R1
BT40	2.5mm	STS-R2
BT50	3mm	STS-R2

Code	Length adjustment unit	Matched chuck	Adjustment range l_2	Adjustable amount	d Pin end I.D.	D Pin end O.D.
3934 23044023	PHC-P304-4023	BT30 -PHC06A -75	29-34	5	2	3.8
3934 23044023	PHC-P304-4023	-PHC07A -75	29-34	5	2	3.8
3934 23044023	PHC-P304-4023	-PHC08A -75	29-34	5	2	3.8
3934 23053730	PHC-P305-3730	-PHC09A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC10A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC11A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC12A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC13A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC14A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC15A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23053730	PHC-P305-3730	-PHC16A -90	40-45	5	2.5	4.8
3934 23053725	PHC-P305-3725	-90	45-50	5	2.5	4.8
3934 23053720	PHC-P305-3720	-90	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-105	40-45	5	2.5	4.8
3934 23054532	PHC-P305-4532	-105	45-50	5	2.5	4.8
3934 23054027	PHC-P305-4027	NEW -PHC18A -90	40-45	5	2.5	4.8
3934 23054022	PHC-P305-4022	NEW -120	45-50	5	2.5	4.8
3934 23054027	PHC-P305-4027	-PHC20A -90	40-45	5	2.5	4.8
3934 23054022	PHC-P305-4022	-90	45-50	5	2.5	4.8
3934 23054542	PHC-P305-4542	-120	50-55	5	2.5	4.8
3934 23054537	PHC-P305-4537	-120	55-60	5	2.5	4.8
3934 23054532	PHC-P305-4532	-120	60-65	5	2.5	4.8
3934 24044423	PHC-P404-4423	BT40 -PHC06A -75	29-34	5	2	3.8
3934 24046334	PHC-P404-6334	-105	29-39	10	2	3.8
3934 24046328	PHC-P404-6328	-105	35-45	10	2	3.8
3934 24044423	PHC-P404-4423	-PHC07A -75	29-34	5	2	3.8
3934 24046334	PHC-P404-6334	-105	29-39	10	2	3.8

Code	Length adjustment unit	Matched chuck	Adjustment range $\ell 2$	Adjustable amount	d Pin end I.D.	D Pin end O.D.
3934 24046328	PHC-P404-6328	BT40 -PHC07A -105	35-45	10	2	3.8
3934 24044423	PHC-P404-4423	-PHC08A -75	29-34	5	2	3.8
3934 24046334	PHC-P404-6334	-105	29-39	10	2	3.8
3934 24046328	PHC-P404-6328	-105	35-45	10	2	3.8
3934 24054427	PHC-P405-4427	-PHC09A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC10A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC11A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC12A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC13A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC14A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC15A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC16A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	NEW -PHC18A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	NEW -120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	NEW -120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	NEW -120	60-70	10	2.5	4.8
3934 24054427	PHC-P405-4427	-PHC20A -90	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-120	40-50	10	2.5	4.8
3934 24054942	PHC-P405-4942	-120	50-60	10	2.5	4.8
3934 24054932	PHC-P405-4932	-120	60-70	10	2.5	4.8
3934 24054432	PHC-P405-4432	-PHC25A -105	50-60	10	2.5	4.8
3934 24055452	PHC-P405-5452	-135	50-60	10	2.5	4.8
3934 24055442	PHC-P405-5442	-135	60-70	10	2.5	4.8
3934 24055432	PHC-P405-5432	-135	70-80	10	2.5	4.8
3934 24054432	PHC-P405-4432	-PHC32A -120	65-75	10	2.5	4.8
3934 24055452	PHC-P405-5452	-150	65-75	10	2.5	4.8
3934 24054952	PHC-P405-4952	-150	70-80	10	2.5	4.8

Ordering Example

BT30-PHC10A-105 with adjustment range of 40-45mm (Adjustable amount-5mm).



- STS-R1 391410000006
- STS-R2 391430000006

Length adjustment unit is not available for the models listed below.

- Products with a projection length of 45mm
- Products with an inner diameter of 3~4mm
- BT30 with an inner diameter of 25~32mm

Length adjustment unit for PHC · A

Code	Length adjustment unit	Matched chuck	Adjustment range $\ell 2$	Adjustable amount	d Pin end I.D.	D Pin end O.D.
3934 25045129	PHC-P504-5129	BT50 -PHC06A -90	29-34	5	2	3.8
3934 25047139	PHC-P504-7139	-120	29-45	16	2	3.8
3934 25040139	PHC-P504-10139	-150	29-45	16	2	3.8
3934 25045129	PHC-P504-5129	-PHC07A -90	29-34	5	2	3.8
3934 25047139	PHC-P504-7139	-120	29-45	16	2	3.8
3934 25040139	PHC-P504-10139	-150	29-45	16	2	3.8
3934 25045129	PHC-P504-5129	-PHC08A -90	29-34	5	2	3.8
3934 25047139	PHC-P504-7139	-120	29-45	16	2	3.8
3934 25040139	PHC-P504-10139	-150	29-45	16	2	3.8
3934 25055133	PHC-P505-5133	-PHC09A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC10A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC11A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC12A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC13A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC14A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC15A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	-PHC16A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055133	PHC-P505-5133	BT50 -PHC20A -105	40-50	10	2.5	4.8
3934 25056153	PHC-P505-6153	-135	40-55	15	2.5	4.8
3934 25056138	PHC-P505-6138	-135	55-70	15	2.5	4.8
3934 25059153	PHC-P505-9153	-165	40-55	15	2.5	4.8
3934 25059138	PHC-P505-9138	-165	55-70	15	2.5	4.8
3934 25055138	PHC-P505-5138	-PHC25A -120	50-64	14	2.5	4.8
3934 25056158	PHC-P505-6158	-150	50-65	15	2.5	4.8
3934 25056143	PHC-P505-6143	-150	65-80	15	2.5	4.8
3934 25057658	PHC-P505-7658	-165	50-65	15	2.5	4.8
3934 25057643	PHC-P505-7643	-165	65-80	15	2.5	4.8
3934 25055138	PHC-P505-5138	-PHC32A -135	65-75	10	2.5	4.8
3934 25056158	PHC-P505-6158	-165	65-80	15	2.5	4.8

MEMO

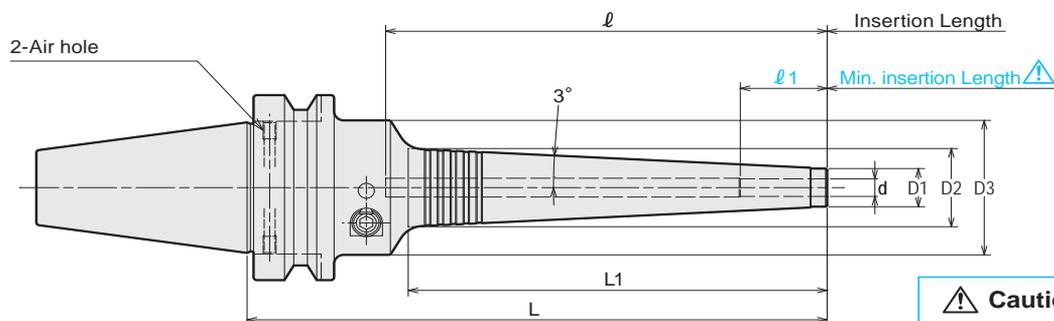


PHC·SB

Slim Hydro Chuck

NEW!

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	
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	
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	
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	
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	3	150	84	11	19.9	46	(206)	16	15,000	3.9	
3700 02503195	-195	3	195	84	11	19.9	46	(251)	16	12,000	4.3	
3700 02504150	-PHC04SB -150	3	150	84	11	19.9	46	(206)	19	15,000	3.9	
3700 02504195	-195	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	
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	

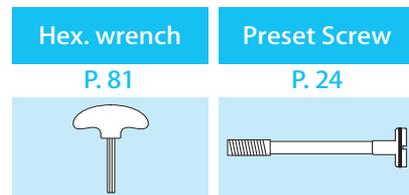
- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Hex-head screws (included) are necessary to plug air hole for 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)



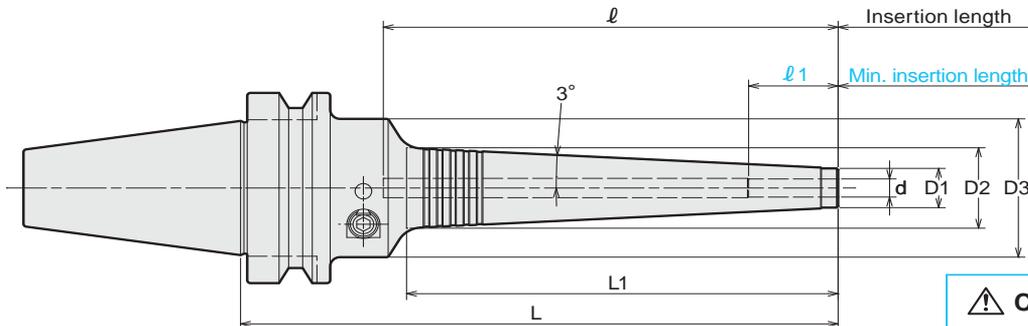


PHC·SB-C

Slim Hydro Chuck Blaster

NEW!

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)
3950 02103085	BT30 -PHC03SB - 85-C	3	85	37	12	15.9	46	(108)	16	40,000	0.6	L-4T
3950 02103130	-130-C	3	130	84	12	20.9	46	(153)	16	23,000	0.9	
3950 02104085	-PHC04SB - 85-C	4	85	37	12	15.9	46	(108)	19	40,000	0.6	
3950 02104130	-130-C	4	130	84	12	20.9	46	(153)	19	22,000	0.9	
3950 02106090	-PHC06SB - 90-C	6	90	38	14	18.0	46	58	27	30,000	0.9	
3950 02106135	-135-C	6	135	84	14	22.9	46	92	27	21,000	1.0	
3950 02108090	-PHC08SB - 90-C	8	90	38	16	20.0	46	58	27	27,000	0.9	
3950 02108135	-135-C	8	135	84	16	24.9	46	92	27	20,000	1.0	
3950 02110105	-PHC10SB -105-C	10	105	53	18	23.6	46	73	33	27,000	0.9	
3950 02110135	-135-C	10	135	84	18	26.9	46	92	33	20,000	1.0	
3950 02112105	-PHC12SB -105-C	12	105	53	20	25.6	46	73	36	26,000	0.9	
3950 02112135	-135-C	12	135	84	20	28.9	46	92	36	19,000	1.0	
3950 02303090	BT40 -PHC03SB - 90-C	3	90	37	12	15.9	46	(125)	16	20,000	1.1	L-4T
3950 02303135	-135-C	3	135	84	12	20.9	46	(170)	16	20,000	1.5	
3950 02304090	-PHC04SB - 90-C	4	90	37	12	15.9	46	(125)	19	20,000	1.1	
3950 02304135	-135-C	4	135	84	12	20.9	46	(170)	19	20,000	1.5	
3950 02306090	-PHC06SB - 90-C	6	90	38	14	18.0	46	53	27	20,000	1.4	
3950 02306135	-135-C	6	135	84	14	22.9	46	92	27	20,000	1.5	
3950 02308090	-PHC08SB - 90-C	8	90	38	16	20.0	46	53	27	20,000	1.5	
3950 02308135	-135-C	8	135	84	16	24.9	46	92	27	20,000	1.5	
3950 02310105	-PHC10SB -105-C	10	105	53	18	23.6	46	68	33	20,000	1.4	
3950 02310135	-135-C	10	135	84	18	26.9	46	92	33	20,000	1.5	
3950 02312105	-PHC12SB -105-C	12	105	53	20	25.6	46	68	36	20,000	1.4	
3950 02312135	-135-C	12	135	84	20	28.9	46	92	36	20,000	1.5	
3950 02316135	-PHC16SB -135-C	16	135	84	24	32.9	52.5	91	40	20,000	1.7	L-5T
3950 02316165	-165-C	16	165	114	24	36.0	52.5	120	40	13,000	1.9	
3950 02320135	-PHC20SB -135-C	20	135	84	29	37.9	60	91	40	18,000	2.2	
3950 02320180	-180-C	20	180	129	29	42.6	60	135	40	12,000	2.5	
3950 02325135	-PHC25SB -135-C	25	135	84	38	46.9	60	91	50	16,000	2.2	
3950 02325180	-180-C	25	180	129	38	51.6	60	135	50	11,000	2.6	
3950 02503150	BT50 -PHC03SB -150-C NEW	3	150	84	12	20.9	46	(206)	16	15,000	4.0	L-4T
3950 02503195	-195-C NEW	3	195	84	12	20.9	46	(251)	16	12,000	4.4	
3950 02504150	-PHC04SB -150-C NEW	4	150	84	12	20.9	46	(206)	19	15,000	4.0	
3950 02504195	-195-C NEW	4	195	84	12	20.9	46	(251)	19	12,000	4.4	
3950 02506150	-PHC06SB -150-C	6	150	84	14	22.9	46	92	27	15,000	4.1	
3950 02506195	-195-C	6	195	130	14	27.7	46	137	27	10,000	4.2	
3950 02508150	-PHC08SB -150-C	8	150	84	16	24.9	46	92	27	15,000	4.1	
3950 02508195	-195-C	8	195	130	16	29.7	46	137	27	10,000	4.2	
3950 02510150	-PHC10SB -150-C	10	150	84	18	26.9	46	92	33	15,000	4.1	
3950 02510195	-195-C	10	195	130	18	31.7	46	137	33	10,000	4.3	
3950 02512150	-PHC12SB -150-C	12	150	84	20	28.9	46	92	36	15,000	4.1	
3950 02512195	-195-C	12	195	130	20	33.7	46	137	36	10,000	4.3	
3950 02516150	-PHC16SB -150-C	16	150	84	24	32.9	52.5	91	40	15,000	4.2	L-5T
3950 02516195	-195-C	16	195	129	24	37.6	52.5	135	40	10,000	4.6	
3950 02520150	-PHC20SB -150-C	20	150	84	29	37.9	60	91	40	15,000	4.7	
3950 02520195	-195-C	20	195	129	29	42.6	60	135	40	12,000	5.0	
3950 02525150	-PHC25SB -150-C	25	150	84	38	46.9	60	91	50	15,000	4.8	
3950 02525195	-195-C	25	195	129	38	51.6	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.

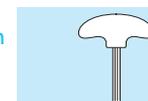
Ordering Example

BT50 - PHC12SB - 150 - C

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

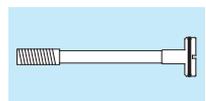
Hex. wrench

P. 81



Preset Screw

P. 24



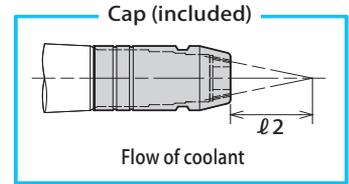
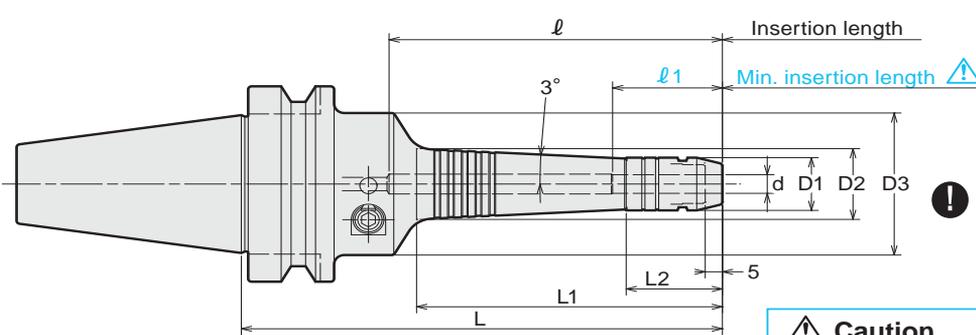
Inch size upon request



PHC·SB-NC Slim Hydro Chuck Blaster (With cap)

NEW!

Perfect choice for tight space applications, such as endmill finishing, drilling and reaming on 5-axis machines. Minimize centrifugal force and feed coolant accurately.



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	L2	D1	D2	D3	ℓ	ℓ 1	ℓ 2	Max min ⁻¹	kg	Wrench (Option)
3950 06104135	BT30 -PHC04SB -135-NC	4	135	89	33	15	20.9	46	(158)	24	20	22,000	0.9	L-4T
3950 06106140	-PHC06SB -140-NC	6	140	89	28	17	22.9	46	97	32	30	21,000	1.0	
3950 06108140	-PHC08SB -140-NC	8	140	89	28	19	24.9	46	97	32	40	20,000	1.0	
3950 06110110	-PHC10SB -110-NC	10	110	58	33	21	23.6	46	78	38	50	27,000	0.9	
3950 06110140	-140-NC	10	140	89	33	21	26.9	46	97	38	50	20,000	1.0	
3950 06112110	-PHC12SB -110-NC	12	110	58	33	23	25.6	46	78	41	60	26,000	0.9	
3950 06112140	-140-NC	12	140	89	33	23	28.9	46	97	41	60	19,000	1.0	L-4T
3950 06304140	BT40 -PHC04SB -140-NC	4	140	89	33	15	20.9	46	(175)	24	20	20,000	1.5	
3950 06306140	-PHC06SB -140-NC	6	140	89	28	17	22.9	46	97	32	30	20,000	1.5	
3950 06308140	-PHC08SB -140-NC	8	140	89	28	19	24.9	46	97	32	40	20,000	1.5	
3950 06310110	-PHC10SB -110-NC	10	110	58	33	21	23.6	46	73	38	50	20,000	1.4	
3950 06310140	-140-NC	10	140	89	33	21	26.9	46	97	38	50	20,000	1.5	
3950 06312110	-PHC12SB -110-NC	12	110	58	33	23	25.6	46	73	41	60	20,000	1.4	L-4T
3950 06312140	-140-NC	12	140	89	33	23	28.9	46	97	41	60	20,000	1.5	
3950 06506155	BT50 -PHC06SB -155-NC	6	155	89	28	17	22.9	46	97	32	30	15,000	4.1	
3950 06506200	-200-NC	6	200	135	28	17	27.7	46	142	32	30	10,000	4.2	
3950 06508155	-PHC08SB -155-NC	8	155	89	28	19	24.9	46	97	32	40	15,000	4.1	
3950 06508200	-200-NC	8	200	135	28	19	29.7	46	142	32	40	10,000	4.2	
3950 06510155	-PHC10SB -155-NC	10	155	89	33	21	26.9	46	97	38	50	15,000	4.1	L-4T
3950 06510200	-200-NC	10	200	135	33	21	31.7	46	142	38	50	10,000	4.3	
3950 06512155	-PHC12SB -155-NC	12	155	89	33	23	28.9	46	97	41	60	15,000	4.1	
3950 06512200	-200-NC	12	200	135	33	23	33.7	46	142	41	60	10,000	4.3	

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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

BT40 - PHC12SB - 140 - NC

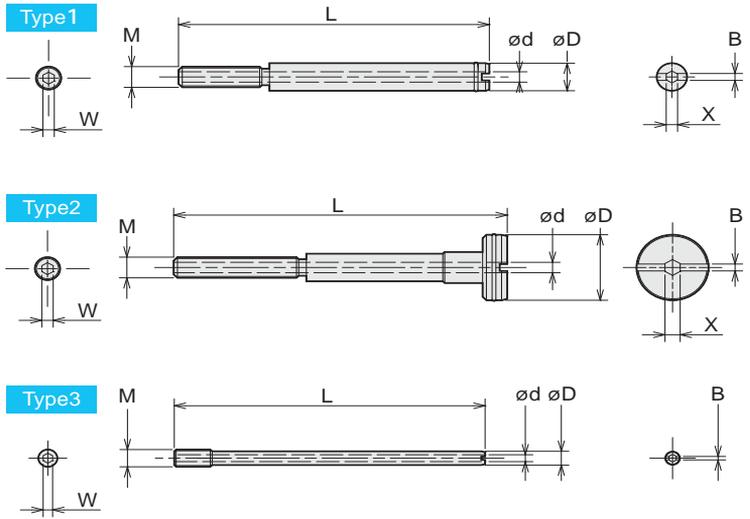
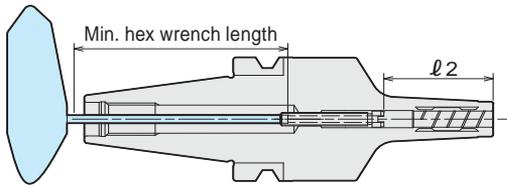
Shank size (d) Projection length (L)

Hex. wrench P. 81	Preset Screw P. 24	Cap P. 81

Inch size upon request

MEMO

Preset Screw for Slim Hydro Chuck



Shank size	Chuck ID	Min. hex wrench length
BT30	ø3 ~ ø 4	44mm
	ø6 ~ ø12	90mm
BT40	ø3 ~ ø 4	59mm
	ø6 ~ ø25	109mm
BT50	ø6 ~ ø25	160mm

preset screw		Matched chuck	Adjustment range l_2		Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model		PHC · SB PHZ · SB PHC · SB-C	PHC · SB-NC									
3704 01030010	PHCSB -P03 -01	BT30 -PHC03SB -70	16 ~ 30	—	14	3	3	—	1	3.2	—	63	M8 P=1
3704 01030020	PHCSB -P03 -02	-85, -85-C	16 ~ 30	—	14	3	3	—	1	3.2	—	78	
3704 01030030	PHCSB -P03 -03	-130, -130-C	16 ~ 30	—	14	3	3	—	1	3.2	—	123	
3704 01040010	PHCSB -P04 -01	-PHC04SB -70	19 ~ 30	—	11	3	3	—	1	3.8	—	63	
3704 01040020	PHCSB -P04 -02	-85, -85-C	19 ~ 30	—	11	3	3	—	1	3.8	—	78	
3704 01040030	PHCSB -P04 -03	-130, -130-C, -135-NC	19 ~ 30	24 ~ 35	11	3	3	—	1	3.8	—	123	
3704 01060010	PHCSB -P06 -01	-PHC06SB -PHZ06SB	-90, -90-C	—	26	1	2.5	—	2	6	2.5	35	M5 P=0.8
3704 01060020	PHCSB -P06 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74	
3704 01060030	PHCSB -P06 -03	-150	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04	-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104	
3704 01060050	PHCSB -P06 -05	-180	27 ~ 61	—	34	1	2.5	—	2	5.5	2.5	115	
3704 01060010	PHCSB -P06 -01	-PHC07SB -PHZ07SB	-90	—	26	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02	-135	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75	
3704 01070030	PHCSB -P07 -03	-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04	-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105	
3704 01070050	PHCSB -P07 -05	-180	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115	
3704 01060010	PHCSB -P06 -01	-PHC08SB -PHZ08SB	-90, -90-C	—	26	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75	
3704 01080030	PHCSB -P08 -03	-150	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04	-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105	
3704 01080050	PHCSB -P08 -05	-180	27 ~ 61	—	34	2	2.5	3	2	7.5	2	115	
3704 01090010	PHCSB -P09 -01	-PHC09SB -PHZ09SB	-105	—	29	1	2.5	3	2	9	2.5	45	
3704 01090020	PHCSB -P09 -02	-135	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69	
3704 01090030	PHCSB -P09 -03	-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04	-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99	
3704 01090050	PHCSB -P09 -05	-180	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC10SB -PHZ10SB	-105, -105-C, -110-NC	—	29	1	2.5	3	2	9	2.5	45	
3704 01100020	PHCSB -P10 -02	-135, -135-C, -140-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69	
3704 01100030	PHCSB -P10 -03	-150	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04	-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99	
3704 01100050	PHCSB -P10 -05	-180	33 ~ 66	—	33	2	2.5	3	2	9.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC11SB -PHZ11SB	-105	—	26	1	2.5	3	2	9	2.5	45	
3704 01110020	PHCSB -P11 -02	-135	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67	
3704 01110030	PHCSB -P11 -03	-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04	-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
3704 01110050	PHCSB -P11 -05	-180	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108	
3704 01090010	PHCSB -P09 -01	-PHC12SB -PHZ12SB	-105, -105-C, -110-NC	—	26	1	2.5	3	2	9	2.5	45	
3704 01120020	PHCSB -P12 -02	-135, -135-C, -140-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67	
3704 01120030	PHCSB -P12 -03	-150	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04	-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
3704 01120050	PHCSB -P12 -05	-180	36 ~ 68	—	32	2	2.5	3	2	11.5	2.5	108	
3704 01030040	PHCSB -P03 -04	BT40 -PHC03SB -75	16 ~ 37	—	21	3	3	—	1	3.2	—	73	M8 P=1
3704 01030050	PHCSB -P03 -05	-90, -90-C	16 ~ 37	—	21	3	3	—	1	3.2	—	85	
3704 01030060	PHCSB -P03 -06	-135, -135-C	16 ~ 37	—	21	3	3	—	1	3.2	—	130	
3704 01040040	PHCSB -P04 -04	-PHC04SB -75	19 ~ 37	—	18	3	3	—	1	3.8	—	73	
3704 01040050	PHCSB -P04 -05	-90, -90-C	19 ~ 37	—	18	3	3	—	1	3.8	—	88	
3704 01040060	PHCSB -P04 -06	-135, -135-C, -140-NC	19 ~ 37	24 ~ 42	18	3	3	—	1	3.8	—	133	

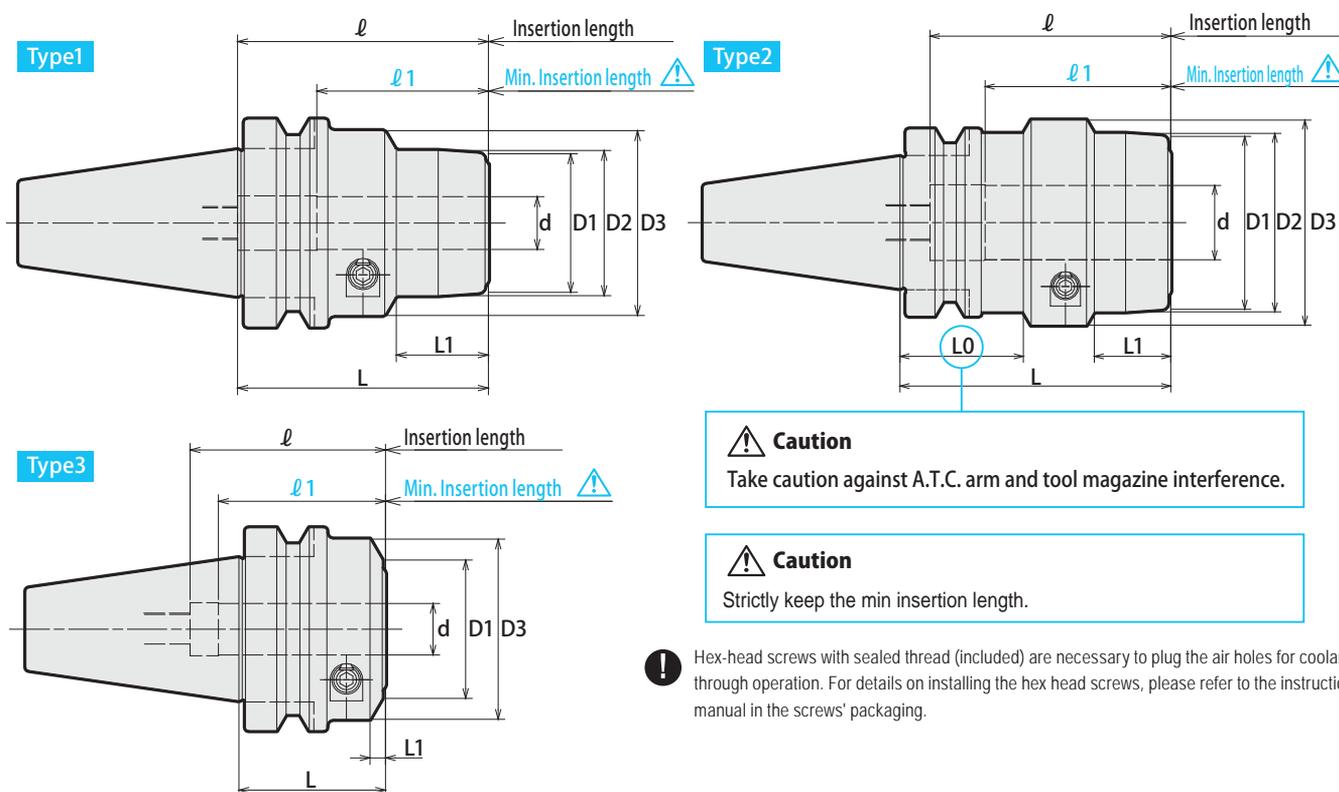
preset screw			Matched chuck	Adjustment range t2		Adjustment amount	Type	W	X	B	D	d	L	M		
Code	Model			PHC · SB PHZ · SB PHC · SB-C	PHC · SB-NC											
3704 01060010	PHCSB	-P06 -01	-PHC06SB -PHZ06SB	-90, -90-C	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	M5 P=0.8	
3704 01060020	PHCSB	-P06 -02		-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74		
3704 01060030	PHCSB	-P06 -03		-150	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89		
3704 01060040	PHCSB	-P06 -04		-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104		
3704 01060050	PHCSB	-P06 -05		-180	27 ~ 61	—	34	1	2.5	—	2	5.5	2.5	115		
3704 01060010	PHCSB	-P06 -01	-PHC07SB -PHZ07SB	-90	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35		
3704 01070020	PHCSB	-P07 -02		-135	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75		
3704 01070030	PHCSB	-P07 -03		-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90		
3704 01070040	PHCSB	-P07 -04		-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105		
3704 01070050	PHCSB	-P07 -05		-180	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115		
3704 01060010	PHCSB	-P06 -01	-PHC08SB -PHZ08SB	-90, -90-C	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35		
3704 01080020	PHCSB	-P08 -02		-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75		
3704 01080030	PHCSB	-P08 -03		-150	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90		
3704 01080040	PHCSB	-P08 -04		-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105		
3704 01080050	PHCSB	-P08 -05		-180	27 ~ 61	—	34	2	2.5	3	2	7.5	2	115		
3704 01090010	PHCSB	-P09 -01	-PHC09SB -PHZ09SB	-105	33 ~ 57	—	24	1	2.5	3	2	9	2.5	45		
3704 01090020	PHCSB	-P09 -02		-135	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69		
3704 01090030	PHCSB	-P09 -03		-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84		
3704 01090040	PHCSB	-P09 -04		-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99		
3704 01090050	PHCSB	-P09 -05		-180	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110		
3704 01090010	PHCSB	-P09 -01	-PHC10SB -PHZ10SB	-105, -105-C, -110-NC	33 ~ 57	38 ~ 62	24	1	2.5	3	2	9	2.5	45		
3704 01100020	PHCSB	-P10 -02		-135, -135-C, -140-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69		
3704 01100030	PHCSB	-P10 -03		-150	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84		
3704 01100040	PHCSB	-P10 -04		-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99		
3704 01100050	PHCSB	-P10 -05		-180	33 ~ 66	—	33	2	2.5	3	2	9.5	2.5	110		
3704 01090010	PHCSB	-P09 -01	-PHC11SB -PHZ11SB	-105	36 ~ 57	—	21	1	2.5	3	2	9	2.5	45		
3704 01110020	PHCSB	-P11 -02		-135	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67		
3704 01110030	PHCSB	-P11 -03		-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82		
3704 01110040	PHCSB	-P11 -04		-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97		
3704 01110050	PHCSB	-P11 -05		-180	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108		
3704 01090010	PHCSB	-P09 -01	-PHC12SB -PHZ12SB	-105, -105-C, -110-NC	36 ~ 57	41 ~ 62	21	1	2.5	3	2	9	2.5	45		
3704 01120020	PHCSB	-P12 -02		-135, -135-C, -140-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67		
3704 01120030	PHCSB	-P12 -03		-150	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82		
3704 01120040	PHCSB	-P12 -04		-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97		
3704 01120050	PHCSB	-P12 -05		-180	36 ~ 68	—	32	2	2.5	3	2	11.5	2.5	108		
3704 01160010	PHCSB	-P16 -01	-PHC16SB	-135, -135-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60		
3704 01160020	PHCSB	-P16 -02		-165, -165-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87		
3704 01160030	PHCSB	-P16 -03		-180	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102		
3704 01200010	PHCSB	-P20 -01	-PHC20SB	-135, -135-C	40 ~ 85	—	45	1	3	3	2	19	3	57		
3704 01200020	PHCSB	-P20 -02		-165	40 ~ 90	—	50	2	3	3	2	19.5	3	86		
3704 01200030	PHCSB	-P20 -03		-180, -180-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101		
3704 01250010	PHCSB	-P25 -01	-PHC25SB	-135, -135-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47		
3704 01250020	PHCSB	-P25 -02		-165	50 ~ 99	—	49	2	3	3	2	24.5	3	76		
3704 01250030	PHCSB	-P25 -03		-180, -180-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91		
3704 01060010	PHCSB	-P06 -01	BT50 -PHC06SB -PHZ06SB	-105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35		M5 P=0.8
3704 01060020	PHCSB	-P06 -02		-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74		
3704 01060030	PHCSB	-P06 -03		-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89		
3704 01060040	PHCSB	-P06 -04		-180	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104		
3704 01060050	PHCSB	-P06 -05		-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	115		
3704 01060010	PHCSB	-P06 -01	-PHC07SB -PHZ07SB	-105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35		
3704 01070020	PHCSB	-P07 -02		-150	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75		
3704 01070030	PHCSB	-P07 -03		-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90		
3704 01070040	PHCSB	-P07 -04		-180	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105		
3704 01070050	PHCSB	-P07 -05		-195	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115		
3704 01060010	PHCSB	-P06 -01	-PHC08SB -PHZ08SB	-105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35		
3704 01080020	PHCSB	-P08 -02		-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75		
3704 01080030	PHCSB	-P08 -03		-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90		
3704 01080040	PHCSB	-P08 -04		-180	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105		
3704 01080050	PHCSB	-P08 -05		-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	115		
3704 01090020	PHCSB	-P09 -02	-PHC09SB -PHZ09SB	-150	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69		
3704 01090030	PHCSB	-P09 -03		-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84		
3704 01090040	PHCSB	-P09 -04		-180	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99		
3704 01090050	PHCSB	-P09 -05		-195	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110		
3704 01100020	PHCSB	-P10 -02	-PHC10SB -PHZ10SB	-150, -150-C, -155-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69		
3704 01100030	PHCSB	-P10 -03		-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84		
3704 01100040	PHCSB	-P10 -04		-180	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99		
3704 01100050	PHCSB	-P10 -05		-195, -195-C, -200-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	110		
3704 01110020	PHCSB	-P11 -02	-PHC11SB -PHZ11SB	-150	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67		
3704 01110030	PHCSB	-P11 -03		-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82		
3704 01110040	PHCSB	-P11 -04		-180	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97		
3704 01110050	PHCSB	-P11 -05		-195	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108		
3704 01120020	PHCSB	-P12 -02	-PHC12SB -PHZ12SB	-150, -150-C, -155-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67		
3704 01120030	PHCSB	-P12 -03		-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82		
3704 01120040	PHCSB	-P12 -04		-180	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97		
3704 01120050	PHCSB	-P12 -05		-195, -195-C, -200-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	108		
3704 01160010	PHCSB	-P16 -01	-PHC16SB	-150, -150-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60		
3704 01160020	PHCSB	-P16 -02		-180	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87		
3704 01160030	PHCSB	-P16 -03		-195, -195-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102		
3704 01200010	PHCSB	-P20 -01	-PHC20SB	-150, -150-C	40 ~ 85	—	45	1	3	3	2	19	3	57		
3704 01200020	PHCSB	-P20 -02		-180	40 ~ 90	—	50	2	3	3	2	19.5	3	86		
3704 01200030	PHCSB	-P20 -03		-195, -195-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101		
3704 01250010	PHCSB	-P25 -01	-PHC25SB	-150, -150-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47		
3704 01250020	PHCSB	-P25 -02		-180	50 ~ 99	—	49	2	3	3	2	24.5	3	76		
3704 01250030	PHCSB	-P25 -03		-195, -195-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91		

*For BT50-PHC03SB(-C) and BT50-PHC04SB(-C) a preset screw cannot be used.



PHC·H Hydro Chuck Omega Ω

High Rigidity Hydro Chuck is the best holder for high efficiency rough machining.



Code	Model	Type	d	L	L1	D1	D2	D3	L0	l	l 1	Max. min ⁻¹	kg	Wrench (Option)	
2580 00316045	BT40 -PHC16H - 45	3	16	45	18	42	—	56	—	60	45	20,000	1.2	L-4T	
2580 00316075		1	16	75	27	42	44	56	—	85	45	20,000	1.5		
2580 00320075		1	20	75	32	48	50	60	—	80	50	20,000	1.6		
2580 00320105	-PHC20H - 75	-105	1	20	105	32	48	50	60	—	95	50	20,000	2.2	L-5T
2580 00325075		-75	2	25	75	25	58	60	69	31	80	55	20,000	1.8	
2580 00325105	-PHC25H - 75	-105	2	25	105	35	58	60	69	39	110	55	20,000	2.4	L-5T
2580 00332105		-105	2	32	105	40	63	65	75	39	90	65	20,000	2.4	
2580 00332135		-135	2	32	135	47	63	65	75	39	120	65	20,000	3.2	
2580 00516075	BT50 -PHC16H - 75	1	16	75	17	—	44	56	—	75	45	15,000	4.0	L-4T	
2580 00516105		-105	1	16	105	27	42	44	56	—	105	45	15,000		4.5
2580 00520075		-75	1	20	75	17	—	50	60	—	80	50	15,000		4.1
2580 00520105	-PHC20H - 75	-105	1	20	105	32	48	50	60	—	110	50	15,000	4.6	L-5T
2580 00525075		-75	1	25	75	17	—	60	69	—	80	55	15,000	4.2	
2580 00525105	-PHC25H - 75	-105	1	25	105	35	58	60	69	—	110	55	15,000	4.8	L-5T
2580 00525135		-135	1	25	135	35	58	60	69	—	110	55	15,000	5.6	
2580 00532075		-75	1	32	75	17	—	65	75	—	90	65	15,000	4.2	
2580 00532105	-PHC32H - 75	-105	1	32	105	47	63	65	75	—	120	65	15,000	4.7	L-6T
2580 00532135		-135	1	32	135	47	63	65	75	—	120	65	15,000	5.6	
2580 00542075		-75	1	42	75	37	—	74	90	—	100	73	15,000	4.1	
2580 00542105	-PHC42H - 75	-105	1	42	105	46	78	80	90	—	130	73	15,000	5.0	L-6T
2580 00542135		-135	1	42	135	52	78	80	90	—	130	73	15,000	6.3	

Inch Sizes

Unit : Inch

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	Wrench (Option)
2582 00040000	BT40 -PHC0625H -45	3	0.625	1.772	0.709	1.654	—	2.205	—	2.362	1.772	L-4T
2582 00041000	-75	1	0.625	2.953	1.063	1.654	1.732	2.205	—	3.346	1.772	
2582 00042000	-PHC0750H -75	1	0.750	2.953	1.260	1.890	1.969	2.362	—	3.150	1.969	L-4T
2582 00043000	-105	1	0.750	4.134	1.260	1.890	1.969	2.362	—	3.740	1.969	
2582 00044000	-PHC1000H -75	2	1.000	2.953	0.984	2.283	2.362	2.717	1.220	3.150	2.165	L-5T
2582 00045000	-105	2	0.965	4.134	1.378	2.283	2.362	2.717	1.535	4.331	2.165	
2582 00046000	-PHC1250H -105	2	1.250	4.134	1.575	2.480	2.559	2.953	1.535	3.543	2.559	L-5T
2582 00047000	-135	2	1.250	5.315	1.850	2.480	2.559	2.953	1.535	4.724	2.559	
2582 00048000	BT50 -PHC0625H -75	1	0.625	2.953	0.669	—	1.732	2.205	—	2.953	1.772	L-4T
2582 00049000	-105	1	0.625	4.134	1.063	1.654	1.732	2.205	—	4.134	1.772	
2582 00050000	-PHC0750H -75	1	0.750	2.953	0.669	—	1.969	2.362	—	3.150	1.969	L-4T
2582 00051000	-105	1	0.750	4.134	1.260	1.890	1.969	2.362	—	4.331	1.969	
2582 00052000	-PHC1000H -75	1	1.000	2.953	0.669	—	2.362	2.717	—	3.150	2.165	L-5T
2582 00053000	-105	1	1.000	4.134	1.378	2.283	2.362	2.717	—	4.331	2.165	
2582 00054000	-135	1	1.000	5.315	1.378	2.283	2.362	2.717	—	4.331	2.165	L-5T
2582 00055000	-PHC1250H -75	1	1.250	2.953	0.669	—	2.559	2.953	—	3.543	2.559	
2582 00056000	-105	1	1.250	4.134	1.850	2.480	2.559	2.953	—	4.724	2.559	L-5T
2582 00057000	-135	1	1.250	5.315	1.850	2.480	2.559	2.953	—	4.724	2.559	
2582 00058000	-PHC1500H -75	1	1.500	2.953	1.457	—	2.913	3.543	—	3.937	2.874	L-6T
2582 00059000	-105	1	1.500	4.134	1.811	3.071	3.150	3.543	—	5.118	2.874	
2582 00060000	-135	1	1.500	5.315	2.047	3.071	3.150	3.543	—	5.118	2.874	L-6T

1. Tool shank diameter tolerance must be within h7.
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
2. PHC20H and PHC32H have pin holes for collet with stopper pin on its body.
3. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.



Ordering Example

BT40 - PHC16H - 45

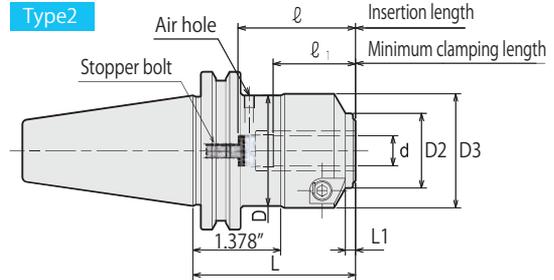
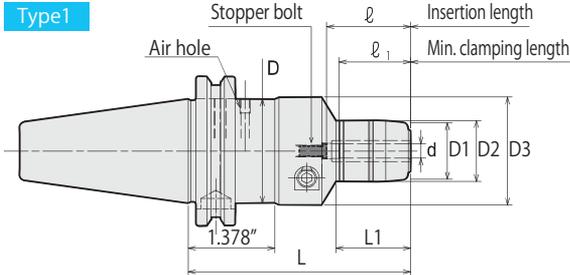
Shank size (d) I.D. Projection length (L)



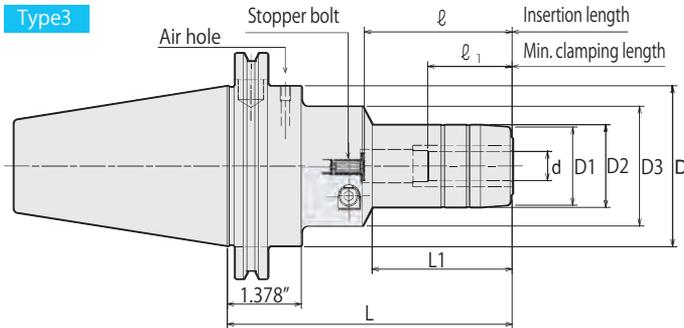
PHC·A Power Hydro Chuck

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	ℓ	ℓ1	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	L-6T (6mm)
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	

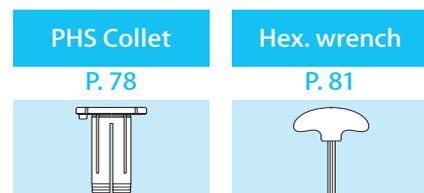
Metric Sizes														Unit : Metric	
Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	kg	Max min -1	Wrench (Sold Separate)	
186001404080	CAT40 -PHC04A -80	1	4	80	25.1	—	25	46	—	29	24	1.3	20000	L-4T	
186001406065	-PHC06A -65	2	6	65	4	—	—	26	44	34	29	1.3	20000		
186001406090	-90	1	6	90	30	44.45	24	26	46	34	29	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		

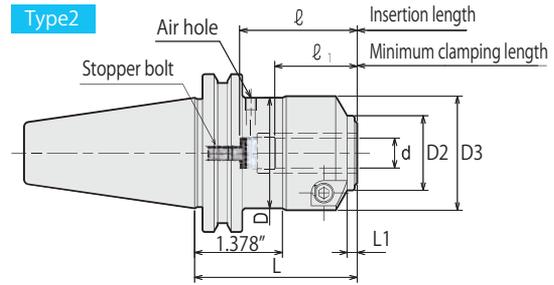
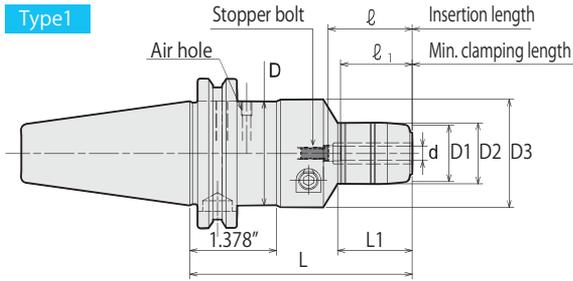
- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- PHC12A and PHC20A have pin holes for collet with stopper pin 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

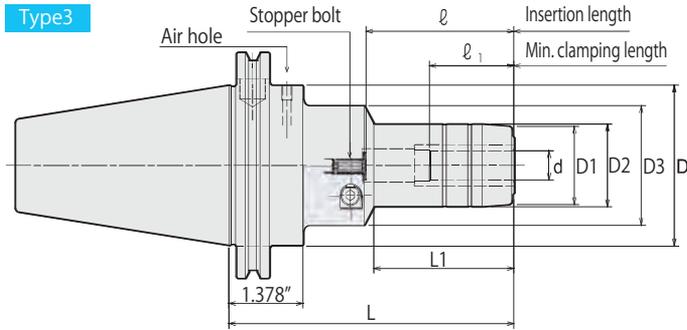
CAT50 - PHC12A - 135

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





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	l1	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		
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	L-6T (6mm)	
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		

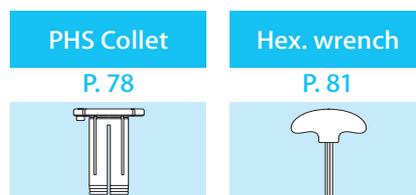
L-4T

L-6T

- 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).

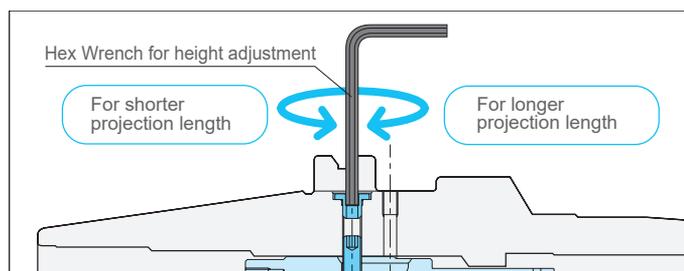
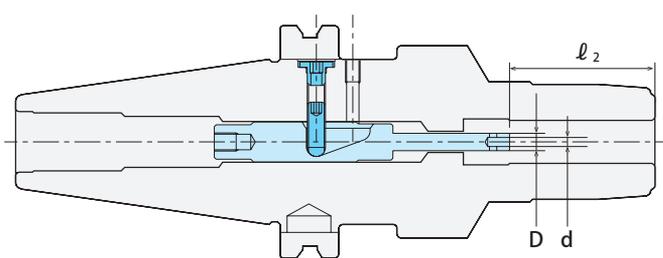
Ordering Example

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



Length adjustment unit

CAT



Inch Sizes

Unit : Metric

Code	Length adjustment unit	Matched chuck	Adjustment range l_2	Adjustable amount	Pin end I.D. d	Pin end O.D. D
3934 24045423	PHC-P404-5423	CAT40 -PHC0250A -90	29-34	5	2	3.8
3934 24047334	PHC-P404-7334	-120	29-39	10	2	3.8
3934 24047328	PHC-P404-7328	-120	35-45	10	2	3.8
3934 24045423	PHC-P404-5423	CAT40 -PHC0312A -90	29-34	5	2	3.8
3934 24047334	PHC-P404-7334	-120	29-39	10	2	3.8
3934 24047328	PHC-P404-7328	-120	35-45	10	2	3.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0375A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0500A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0625A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0750A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24055432	PHC-P405-5432	CAT40 -PHC1000A -120	50-60	10	2.5	4.8
3934 24056452	PHC-P405-6452	-150	50-60	10	2.5	4.8
3934 24055452	PHC-P405-5452	-150	60-70	10	2.5	4.8
3934 24055442	PHC-P405-5442	-150	70-80	10	2.5	4.8
3934 24055432	PHC-P405-5432	CAT40 -PHC1250A -135	65-75	10	2.5	4.8
3934 24056452	PHC-P405-6452	-165	65-75	10	2.5	4.8
3934 24055952	PHC-P405-5952	-165	70-80	10	2.5	4.8

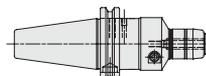
1. Length adjustment unit can be used for chucks other than 45mm projection length.
2. For PHC04A, the length adjustment unit cannot be used.

Ordering Example

CAT40-PHC10A-105 with adjustment range of 40-50mm
(Adjustable amount-10mm).

Chuck

CAT40-PHC10A-105



+

Length adjustment unit

PHC-P405-4932



+

Install / removal tool
for length adjustment unit

STS-R2



Shank size	Hex wrench size for height adjustment	Install / removal tool for length adjustment unit
CAT40	2.5mm	STS-R2
		39143000006

Metric Sizes

Unit : Metric

Code	Length adjustment unit	Adjustment range £2	Matched chuck	Adjustable amount	Pin end I.D. d	Pin end O.D. D
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC06A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC07A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC08A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC09A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC10A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC11A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC12A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC13A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC14A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC15A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC16A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC20A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24055432	PHC-P405-5432	50-60	CAT40 -PHC25A -120	10	2.5	4.8
3934 24056452	PHC-P405-6452	50-60	-150	10	2.5	4.8
3934 24055452	PHC-P405-5452	60-70	-150	10	2.5	4.8
3934 24055442	PHC-P405-5442	70-80	-150	10	2.5	4.8
3934 24055432	PHC-P405-5432	65-75	CAT40 -PHC32A -135	10	2.5	4.8
3934 24056452	PHC-P405-6452	65-75	-165	10	2.5	4.8
3934 24055952	PHC-P405-5952	70-80	-165	10	2.5	4.8

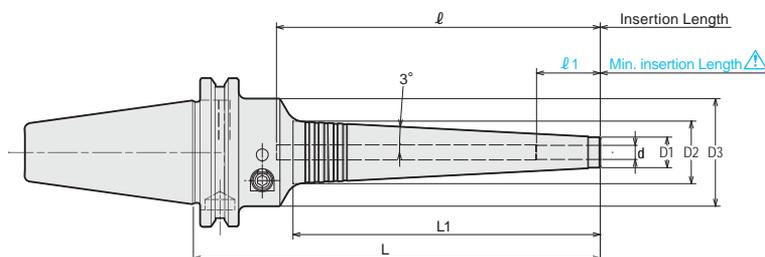
1. Length adjustment unit can be used for chucks other than 45mm projection length.
2. For PHC04A, the length adjustment unit cannot be used.



PHC-SB Slim Hydro Chuck

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

CAT



! 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	
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	L-5T
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.

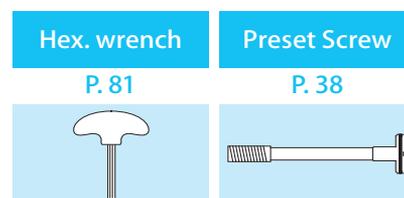
Ordering Example

CAT 50 - PHC12SB - 150

Shank size

I.D.

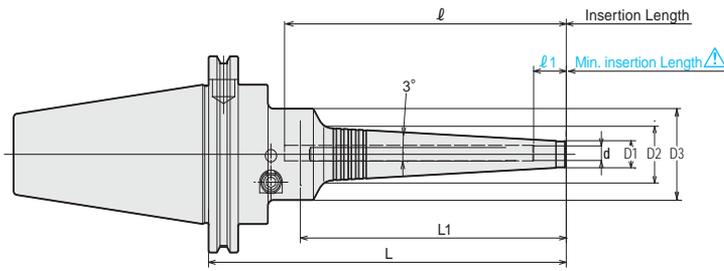
Projection length



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	
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	

L-4T

L-5T



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	t	t1	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	
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

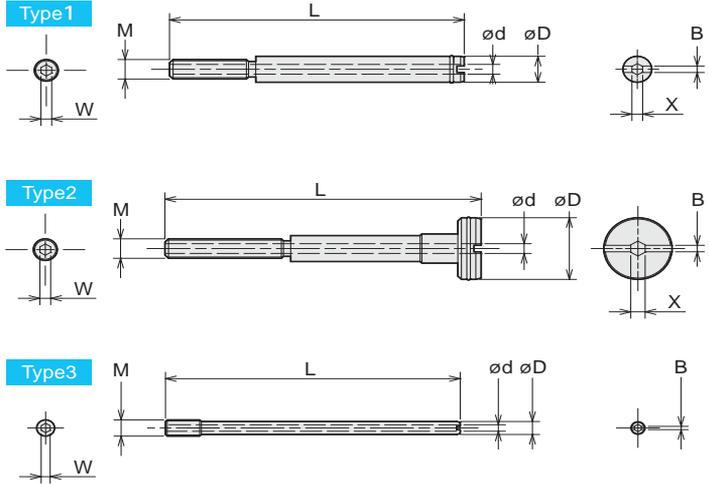
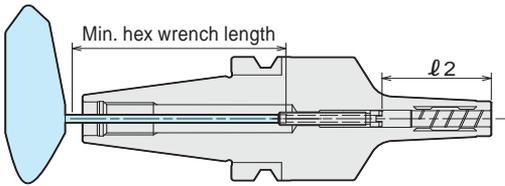
Code	Model	d	L	L1	L2	D1	D2	D3	t	t1	Max. min-1	kg	Wrench (Sold Separate)
183002506150	CAT50-PHC06SB-150	6	150	84	115	13	21.9	46	92	27	15000	4.2	L-4T
183002506195	-195	6	195	130	160	13	26.7	46	137	27	10000	4.3	
183002508150	-PHC08SB-150	8	150	84	115	15	23.9	46	92	27	15000	4.1	
183002508195	-195	8	195	130	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	
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	

MEMO

CAT

Preset Screw for Slim Hydro Chuck

CAT



Shank size	Chuck ID	Min. hex wrench length
CAT40	ø3 ~ ø 4	59mm
	ø6 ~ ø25	109mm
CAT50	ø6 ~ ø25	160mm

Preset screw		Matched chuck	Adjustment range l_2	Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model											
370401030050	PHCSB-P03-05	CAT40 -PHC0125SB -90	16~37	21	3	3	-	1	3.2	-	85	M8 P=1
370401030060	PHCSB-P03-06	-135	16~37	21	3	3	-	1	3.2	-	130	
370401060020	PHCSB-P06-02	-PHC0250SB -150	27~61	34	1	2.5	-	2	5.5	2.5	74	M5 P=0.8
370401060030	PHCSB-P06-03	-165	27~57	30	1	2.5	-	2	5.5	2.5	89	
370401060050	PHCSB-P06-05	-195	27~61	34	1	2.5	-	2	5.5	2.5	115	
370401080020	PHCSB-P08-02	-PHC0312SB -150	27~61	34	2	2.5	3	2	7.5	2	75	
370401080030	PHCSB-P08-03	-165	27~56	29	2	2.5	3	2	7.5	2	90	
370401080050	PHCSB-P08-05	-195	27~61	34	2	2.5	3	2	7.5	2	115	
370401100080	PHCSB-P10-08	-PHC0375SB -150	33~66	33	2	2.5	3	2	8.5	2.5	69	
370401100090	PHCSB-P10-09	-165	33~62	29	2	2.5	3	2	8.5	2.5	84	
370401100110	PHCSB-P10-11	-195	33~66	33	2	2.5	3	2	8.5	2.5	110	
370401120020	PHCSB-P12-02	-PHC0500SB -150	36~68	32	2	2.5	3	2	11.5	2.5	67	
370401120030	PHCSB-P12-03	-165	36~64	28	2	2.5	3	2	11.5	2.5	82	
370401120050	PHCSB-P12-05	-195	36~68	32	2	2.5	3	2	11.5	2.5	108	
370401160010	PHCSB-P16-01	-PHC0625SB -150	40~80	40	1	2.5	3	2	15.5	2.5	60	M6 P=1
370401160020	PHCSB-P16-02	-180	40~82	42	2	2.5	3	2	15.5	2.5	87	
370401160030	PHCSB-P16-03	-195	40~82	42	2	2.5	3	2	15.5	2.5	102	
370401200010	PHCSB-P20-01	-PHC0750SB -150	40~85	45	1	3	3	2	19	3	57	M6 P=1
370401200040	PHCSB-P20-04	-180	40~90	50	2	3	3	2	15.5	2	86	
370401200050	PHCSB-P20-05	-195	40~90	50	2	3	3	2	15.5	2	101	
370401250010	PHCSB-P25-01	-PHC1000SB -150	50~85	35	1	3	3	2	24.5	3	47	
370401250020	PHCSB-P25-02	-180	50~99	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB-P25-03	-195	50~100	50	2	3	3	2	24.5	3	91	
370401060020	PHCSB-P06-02	CAT50 -PHC0250SB -150	27~61	34	1	2.5	-	2	5.5	2.5	74	M5 P=0.8
370401060040	PHCSB-P06-04	-180	27~57	30	1	2.5	-	2	5.5	2.5	104	
370401060050	PHCSB-P06-05	-195	27~61	34	1	2.5	-	2	5.5	2.5	115	
370401080020	PHCSB-P08-02	-PHC0312SB -150	27~61	34	2	2.5	3	2	7.5	2	75	
370401080040	PHCSB-P08-04	-180	27~56	29	2	2.5	3	2	7.5	2	105	
370401080050	PHCSB-P08-05	-195	27~61	34	2	2.5	3	2	7.5	2	115	
370401100080	PHCSB-P10-08	-PHC0375SB -150	33~66	33	2	2.5	3	2	8.5	2.5	69	
370401100100	PHCSB-P10-10	-180	33~62	29	2	2.5	3	2	8.5	2.5	99	
370401100110	PHCSB-P10-11	-195	33~66	33	2	2.5	3	2	8.5	2.5	110	
370401120020	PHCSB-P12-02	-PHC0500SB -150	36~68	32	2	2.5	3	2	11.5	2.5	67	
370401120040	PHCSB-P12-04	-180	36~64	28	2	2.5	3	2	11.5	2.5	97	
370401120050	PHCSB-P12-05	-195	36~68	32	2	2.5	3	2	11.5	2.5	108	
370401160010	PHCSB-P16-01	-PHC0625SB -150	40~80	40	1	2.5	3	2	15.5	2.5	60	M6 P=1
370401160020	PHCSB-P16-02	-180	40~82	42	2	2.5	3	2	15.5	2.5	87	
370401160030	PHCSB-P16-03	-195	40~82	42	2	2.5	3	2	15.5	2.5	102	
370401200010	PHCSB-P20-01	-PHC0750SB -150	40~85	45	1	3	3	2	19	3	57	M6 P=1
370401200040	PHCSB-P20-04	-180	40~90	50	2	3	3	2	15.5	2	86	
370401200050	PHCSB-P20-05	-195	40~90	50	2	3	3	2	15.5	2	101	
370401250010	PHCSB-P25-01	-PHC1000SB -150	50~85	35	1	3	3	2	24.5	3	47	
370401250020	PHCSB-P25-02	-180	50~99	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB-P25-03	-195	50~100	50	2	3	3	2	24.5	3	91	

Preset screw		Matched chuck	Adjustment range f2	Adjustment amount	Type	W	X	B	D	d	L	M	
Code	Model												
370401030040	PHCSB-P03-04	CAT40 -PHC03SB -75	16~37	21	3	3	-	1	3.2	-	73	M8 P=1	
370401030050	PHCSB-P03-05	-90	16~37	21	3	3	-	1	3.2	-	85		
370401030060	PHCSB-P03-06	-135	16~37	21	3	3	-	1	3.2	-	130		
370401040040	PHCSB-P04-04	-PHC04SB -75	19~37	18	3	3	-	1	3.8	-	73		
370401040050	PHCSB-P04-05	-90	19~37	18	3	3	-	1	3.8	-	88		
370401040060	PHCSB-P04-06	-135	19~37	18	3	3	-	1	3.8	-	133		
370401060010	PHCSB-P06-01	-PHC06SB -90	27~48	21	1	2.5	-	2	6	2.5	35	M5 P=0.8	
370401060020	PHCSB-P06-02	-150	27~61	34	1	2.5	-	2	5.5	2.5	74		
370401060030	PHCSB-P06-03	-165	27~57	30	1	2.5	-	2	5.5	2.5	89		
370401060040	PHCSB-P06-04	-180	27~57	30	1	2.5	-	2	5.5	2.5	104		
370401060050	PHCSB-P06-05	-195	27~61	34	1	2.5	-	2	5.5	2.5	115		
370401060010	PHCSB-P06-01	-PHC07SB -90	27~48	21	1	2.5	-	2	6	2.5	35		
370401070020	PHCSB-P07-02	-150	27~61	34	2	2.5	-	2	6.5	2	75		
370401070030	PHCSB-P07-03	-165	27~56	29	2	2.5	-	2	6.5	2	90		
370401070040	PHCSB-P07-04	-180	27~56	29	2	2.5	-	2	6.5	2	105		
370401070050	PHCSB-P07-05	-195	27~61	34	2	2.5	-	2	6.5	2	115		
370401060010	PHCSB-P06-01	-PHC08SB -90	27~48	21	1	2.5	-	2	6	2.5	35		
370401080020	PHCSB-P08-02	-150	27~61	34	2	2.5	3	2	7.5	2	75		
370401080030	PHCSB-P08-03	-165	27~56	29	2	2.5	3	2	7.5	2	90		
370401080040	PHCSB-P08-04	-180	27~56	29	2	2.5	3	2	7.5	2	105		
370401080050	PHCSB-P08-05	-195	27~61	34	2	2.5	3	2	7.5	2	115		
370401090010	PHCSB-P09-01	-PHC09SB -105	33~57	24	1	2.5	3	2	9	2.5	45		
370401090020	PHCSB-P09-02	-150	33~66	33	2	2.5	3	2	8.5	2.5	69		
370401090030	PHCSB-P09-03	-165	33~62	29	2	2.5	3	2	8.5	2.5	84		
370401090040	PHCSB-P09-04	-180	33~62	29	2	2.5	3	2	8.5	2.5	99		
370401090050	PHCSB-P09-05	-195	33~66	33	2	2.5	3	2	8.5	2.5	110		
370401090010	PHCSB-P09-01	-PHC10SB -105	33~57	24	1	2.5	3	2	9	2.5	45		
370401100020	PHCSB-P10-02	-150	33~66	33	2	2.5	3	2	9.5	2.5	69		
370401100030	PHCSB-P10-03	-165	33~62	29	2	2.5	3	2	9.5	2.5	84		
370401100040	PHCSB-P10-04	-180	33~62	29	2	2.5	3	2	9.5	2.5	99		
370401100050	PHCSB-P10-05	-195	33~66	33	2	2.5	3	2	9.5	2.5	110		
370401090010	PHCSB-P09-01	-PHC11SB -105	36~57	21	1	2.5	3	2	9	2.5	45		
370401110020	PHCSB-P11-02	-150	36~68	32	2	2.5	3	2	10.5	2.5	67		
370401110030	PHCSB-P11-03	-165	36~64	28	2	2.5	3	2	10.5	2.5	82		
370401110040	PHCSB-P11-04	-180	36~64	28	2	2.5	3	2	10.5	2.5	97		
370401110050	PHCSB-P11-05	-195	36~68	32	2	2.5	3	2	10.5	2.5	108		
370401090010	PHCSB-P09-01	-PHC12SB -105	36~57	21	1	2.5	3	2	9	2.5	45		
370401120020	PHCSB-P12-02	-150	36~68	32	2	2.5	3	2	11.5	2.5	67		
370401120030	PHCSB-P12-03	-165	36~64	28	2	2.5	3	2	11.5	2.5	82		
370401120040	PHCSB-P12-04	-180	36~64	28	2	2.5	3	2	11.5	2.5	97		
370401120050	PHCSB-P12-05	-195	36~68	32	2	2.5	3	2	11.5	2.5	108		
370401160010	PHCSB-P16-01	-PHC16SB -150	40~80	40	1	2.5	3	2	15.5	2.5	60	M6 P=1	
370401160020	PHCSB-P16-02	-180	40~82	42	2	2.5	3	2	15.5	2.5	87		
370401160030	PHCSB-P16-03	-195	40~82	42	2	2.5	3	2	15.5	2.5	102		
370401200010	PHCSB-P20-01	-PHC20SB -150	40~85	45	1	3	3	2	19	3	57		
370401200020	PHCSB-P20-02	-180	40~90	50	2	3	3	2	19.5	3	86		
370401200030	PHCSB-P20-03	-195	40~90	50	2	3	3	2	19.5	3	101		
370401250010	PHCSB-P25-01	-PHC25SB -150	50~85	35	1	3	3	2	24.5	3	47		
370401250020	PHCSB-P25-02	-180	50~99	49	2	3	3	2	24.5	3	76		
370401250030	PHCSB-P25-03	-195	50~100	50	2	3	3	2	24.5	3	91		
370401060020	PHCSB-P06-02	CAT50 -PHC06SB -150	27~61	34	1	2.5	-	2	5.5	2.5	74		M5 P=0.8
370401060050	PHCSB-P06-05	-195	27~61	34	1	2.5	-	2	5.5	2.5	115		
370401080020	PHCSB-P08-02	-PHC08SB -150	27~61	34	2	2.5	3	2	7.5	2	75		
370401080050	PHCSB-P08-05	-195	27~61	34	2	2.5	3	2	7.5	2	115		
370401100020	PHCSB-P10-02	-PHC10SB -150	33~66	33	2	2.5	3	2	9.5	2.5	69		
370401100050	PHCSB-P10-05	-195	33~66	33	2	2.5	3	2	9.5	2.5	110		
370401120020	PHCSB-P12-02	-PHC12SB -150	36~68	32	2	2.5	3	2	11.5	2.5	67		
370401120050	PHCSB-P12-05	-195	36~68	32	2	2.5	3	2	11.5	2.5	108		
370401160010	PHCSB-P16-01	-PHC16SB -150	40~80	40	1	2.5	3	2	15.5	2.5	60		
370401160030	PHCSB-P16-03	-195	40~82	42	2	2.5	3	2	15.5	2.5	102		
370401200010	PHCSB-P20-01	-PHC20SB -150	40~85	45	1	3	3	2	19	3	57		
370401200030	PHCSB-P20-03	-195	40~90	50	2	3	3	2	19.5	3	101		
370401250010	PHCSB-P25-01	-PHC25SB -150	50~85	35	1	3	3	2	24.5	3	47		
370401250030	PHCSB-P25-03	-195	50~100	50	2	3	3	2	24.5	3	91		

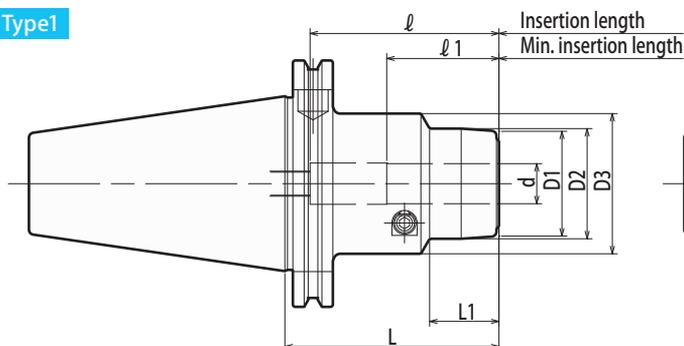


PHC·H Hydro Chuck Omega Ω

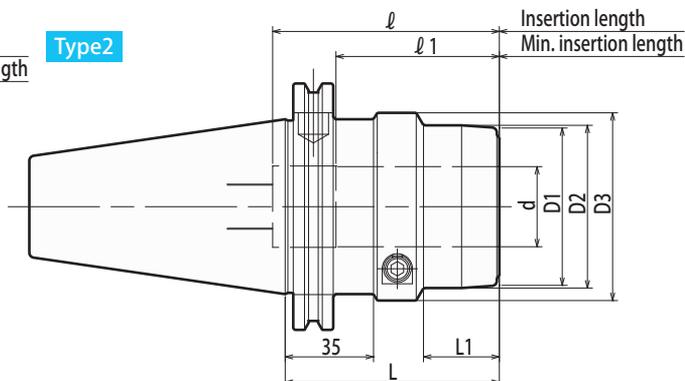
High Rigidity Hydro Chuck is the best holder for high efficiency rough machining.

CAT

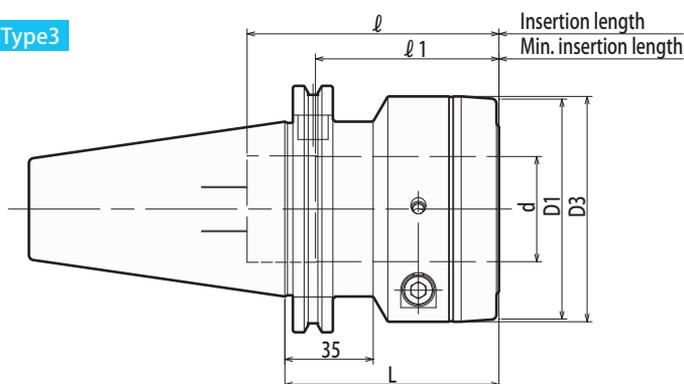
Type1



Type2



Type3



Caution

strictly keep minimum 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	Type	d	L	L1	D1	D2	D3	ℓ	ℓ1	Wrench (Option)
2582 00004000	CAT40 -PHC0625H -60	3	0.625	2.362	—	1.654	—	2.205	2.756	1.772	L-4T
2582 00005000	-85	2	0.625	3.346	1.063	1.654	1.732	2.205	3.346	1.772	
2582 00006000	-PHC0750H -85	2	0.750	3.346	1.024	1.890	1.969	2.362	3.150	1.969	
2582 00007000	-105	2	0.750	4.134	1.260	1.890	1.969	2.362	4.331	1.969	
2582 00008000	-PHC1000H -85	2	1.000	3.346	0.984	2.283	2.362	2.717	3.150	2.165	L-5T
2582 00009000	-105	2	1.000	4.134	1.378	2.283	2.362	2.717	4.331	2.165	
2582 00010000	-PHC1250H -120	2	1.250	4.724	1.850	2.480	2.559	2.953	4.134	2.559	
2582 00011000	-135	2	1.250	5.315	1.850	2.480	2.559	2.953	4.724	2.559	L-4T
2582 00012000	CAT50 -PHC0625H -85	1	0.625	3.346	1.063	1.654	1.732	2.205	2.953	1.772	
2582 00013000	-105	1	0.625	4.134	1.063	1.654	1.732	2.205	3.740	1.772	
2582 00014000	-PHC0750H -85	1	0.750	3.346	1.260	1.890	1.969	2.362	3.543	1.969	
2582 00015000	-105	1	0.750	4.134	1.260	1.890	1.969	2.362	4.331	1.969	L-5T
2582 00016000	-PHC1000H -85	1	1.000	3.346	1.378	2.283	2.362	2.717	3.543	2.165	
2582 00017000	-105	1	1.000	4.134	1.378	2.283	2.362	2.717	4.331	2.165	
2582 00018000	-135	1	1.000	5.315	1.378	2.283	2.362	2.717	4.331	2.165	
2582 00019000	-PHC1250H -85	2	1.250	3.346	1.260	2.480	2.559	2.953	3.543	2.559	L-5T
2582 00020000	-105	2	1.250	4.134	1.850	2.480	2.559	2.953	4.724	2.559	
2582 00021000	-135	2	1.250	5.315	1.850	2.480	2.559	2.953	4.724	2.559	
2582 00022000	-PHC1500H -85	2	1.500	3.346	—	2.913	—	3.543	3.937	2.874	L-6T
2582 00023000	-105	2	1.500	4.134	1.811	3.071	3.150	3.543	4.724	2.874	
2582 00024000	-135	2	1.500	5.315	2.047	3.071	3.150	3.543	4.724	2.874	

Metric Sizes

Unit : Metric

Code	Model	Type	d	L	L1	D1	D2	D3	ℓ	ℓ1	Wrench (Option)
1820 01416060	CAT40 -PHC16H -60	3	16	60	—	42	—	56	70	45	L-4T
1820 01416085	-85	2	16	85	27	42	44	56	85	45	
1820 01420085	-PHC20H -85	2	20	85	26	48	50	60	80	50	
1820 01420105	-105	2	20	105	32	48	50	60	110	50	L-5T
1820 01425085	-PHC25H -85	2	25	85	25	58	60	69	80	55	
1820 01425105	-105	2	25	105	35	58	60	69	110	55	
1820 01432120	-PHC32H -120	2	32	120	47	63	65	75	105	65	L-5T
1820 01432135	-135	2	32	135	47	63	65	75	120	65	
1820 01516085	CAT50 -PHC16H -85	1	16	85	27	42	44	56	75	45	L-4T
1820 01516105	-105	1	16	105	27	42	44	56	95	45	
1820 01520085	-PHC20H -85	1	20	85	32	48	50	60	90	50	
1820 01520105	-105	1	20	105	32	48	50	60	110	50	L-5T
1820 01525085	-PHC25H -85	1	25	85	35	58	60	69	90	55	
1820 01525105	-105	1	25	105	35	58	60	69	110	55	
1820 01525135	-135	1	25	135	35	58	60	69	110	55	L-5T
1820 01532085	-PHC32H -85	2	32	85	32	63	65	75	90	65	
1820 01532105	-105	2	32	105	47	63	65	75	120	65	
1820 01532135	-135	2	32	135	47	63	65	75	120	65	L-6T
1820 01542085	-PHC42H -85	2	42	85	—	74	—	90	100	73	
1820 01542105	-105	2	42	105	46	78	80	90	120	73	
1820 01542135	-135	2	42	135	52	78	80	90	120	73	

1. PHC20H, PHC32H, PHC0750H, and PHC1250H have pin holes for collet with stopper pin on its body.
2. Tool shank diameter tolerance must be within h7.
A tolerance of h6 or 0/-0.01 is recommended when newly making a cutting tool.
3. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
4. Permissible speed is greatly affected by the stiffness of the machine spindle and the balance of the cutting tool. Gradually increase from a low speed, and use at the proper speed.

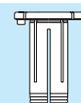
Hex. wrench

P. 81



PHS · H Collet

P. 79



Stopper Bolt

P. 77



Ordering Example

CAT40 - PHC16H - 60

Shank size

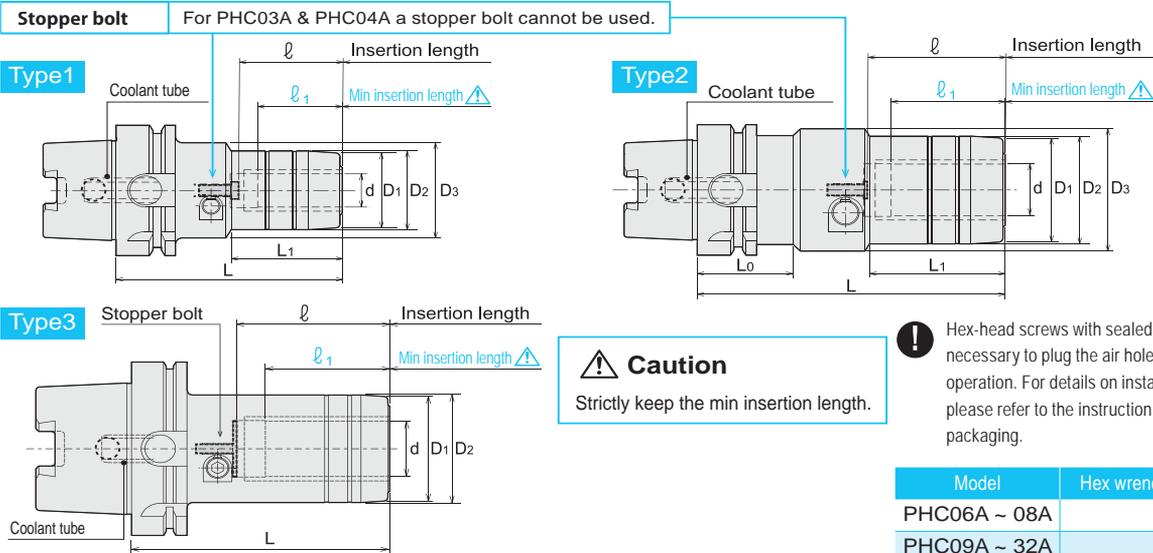
I.D.

Projection length



PHC·A Power Hydro Chuck

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



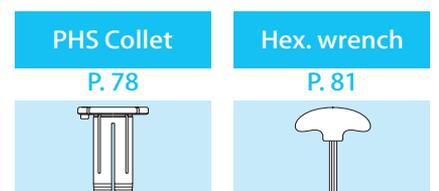
Inch Sizes

Unit: Inch

Code	Description	Type	d	L	L1	D1	D2	D3	L0	t	t1	kg	Max. min ⁻¹	Wrench (sold separate)	
573015308075	HSK63A -PHC0250A -75	1	0.250	2.953	1.190	0.945	1.024	1.811	—	1.338	1.142	1.0	20500	L-4T	
573015308120	-120	1	0.250	4.725	1.624	0.945	1.024	1.811	—	1.771	1.142	1.5	20500		
573015310075	-PHC0312A -75	1	0.312	2.953	1.213	1.024	1.103	1.811	—	1.338	1.142	1.0	20500		
573015310120	-120	1	0.312	4.725	1.646	1.024	1.103	1.811	—	1.771	1.142	1.5	20500		
573015312090	-PHC0375A -90	1	0.375	3.544	1.758	1.103	1.182	2.048	—	1.968	1.575	1.2	20500		
573015312120	-120	1	0.375	4.725	2.546	1.103	1.182	2.048	—	2.755	1.575	1.4	20500		
573015316090	-PHC0500A -90	1	0.500	3.544	1.826	1.339	1.418	2.048	—	1.968	1.575	1.2	20500		
573015316120	-120	1	0.500	4.725	2.614	1.339	1.418	2.048	—	2.755	1.575	1.5	20500		
573015320090	-PHC0625A -90	1	0.625	3.544	1.849	1.418	1.496	2.048	—	1.968	1.575	1.3	20500		
573015320120	-120	1	0.625	4.725	2.637	1.418	1.496	2.048	—	2.755	1.575	1.6	20500		
573015324090	-PHC0750A -90	1	0.750	3.544	1.963	1.575	1.654	1.811	—	1.968	1.575	1.3	20500		
573015324120	-120	1	0.750	4.725	2.750	1.575	1.654	1.811	—	2.755	1.575	1.6	20500		
573015332135	-PHC1000A -135	2	1.000	5.315	2.342	1.969	2.048	2.323	1.654	2.362	1.969	2.3	16000		L-6T
573015332150	-150	2	1.000	5.906	3.130	1.969	2.048	2.323	1.654	3.149	1.969	2.5	16000		
573015340135	-PHC1250A -135	2	1.250	5.315	1.668	2.363	2.441	3.347	1.654	3.149	2.560	2.9	12000		
573015340150	-150	2	1.250	5.906	—	2.363	2.441	—	1.654	3.149	2.560	3.1	12000		
573200765000	HSK100A -PHC0250A -90	1	0.250	3.544	1.190	0.945	1.024	1.811	—	1.338	1.142	2.6	12500	L-4T	
573200763000	-120	1	0.250	4.725	1.624	0.945	1.024	1.811	—	1.771	1.142	2.8	12500		
573200764000	-150	1	0.250	5.906	1.624	0.945	1.024	1.811	—	1.771	1.142	3.2	12500		
573200769000	-PHC0375A -105	1	0.375	4.134	1.758	1.103	1.182	2.048	—	1.968	1.575	2.6	12500		
573200770000	-135	1	0.375	5.315	2.546	1.103	1.182	2.048	—	2.755	1.575	2.8	12500		
573200771000	-165	1	0.375	6.496	2.546	1.103	1.182	2.048	—	2.755	1.575	3.2	12500		
573200777000	-PHC0500A -105	1	0.500	4.134	1.826	1.339	1.418	2.048	—	1.968	1.575	2.8	12500		
573200778000	-135	1	0.500	5.315	2.614	1.339	1.418	2.048	—	2.755	1.575	3.1	12500		
573200779000	-165	1	0.500	6.496	2.614	1.339	1.418	2.048	—	2.755	1.575	3.5	12500		
573200772000	-PHC0625A -105	1	0.625	4.134	1.849	1.418	1.496	2.048	—	1.968	1.575	2.8	12500		
573200773000	-135	1	0.625	5.315	2.637	1.418	1.496	2.048	—	2.755	1.575	3.1	12500		
573200774000	-165	1	0.625	6.496	2.637	1.418	1.496	2.048	—	2.755	1.575	3.6	12500		
573200780000	-PHC0750A -105	1	0.750	4.134	1.963	1.575	1.654	1.811	—	1.968	1.575	2.8	12500		
573200781000	-135	1	0.750	5.315	2.750	1.575	1.654	1.811	—	2.755	1.575	3.1	12500		
573200782000	-165	1	0.750	6.496	2.750	1.575	1.654	1.811	—	2.755	1.575	3.5	12500		
573200775000	-PHC1000A -120	1	1.000	4.725	2.347	1.969	2.048	2.441	—	2.519	1.969	3.4	12500	L-6T	
573200776000	-165	1	1.000	6.496	3.135	1.969	2.048	2.441	—	3.149	1.969	4.3	12500		
573200783000	-PHC1250A -135	3	1.250	5.315	—	2.363	2.441	—	—	3.149	2.560	3.9	12000		
573200784000	-165	3	1.250	6.496	—	2.363	2.441	—	—	3.149	2.560	4.6	12000		

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

1. 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.
- *2. PHC0500A, PHC0750A, PHC12A and PHC20A have pin holes for collet with stopper pin on its body.
3. On 3mm and 4mm chuck models there may be leaking from the inner diameter slit when using center through coolant.

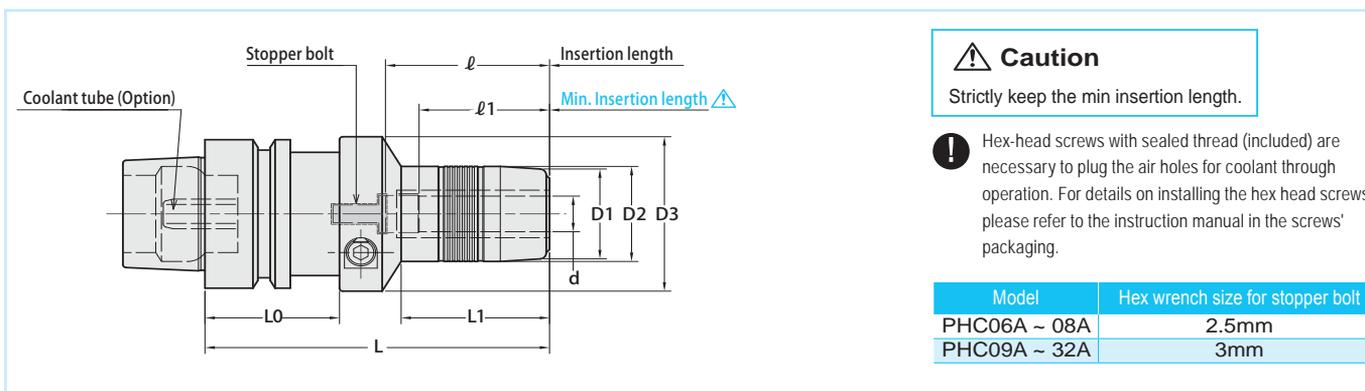


Code	Model	Type	d	L	L ₁	D ₁	D ₂	D ₃	L ₆	ℓ	ℓ ₁	Max. min ⁻¹	kg	Wrench (Option)	
5730 13203075	HSK40A -PHC03A -75	2	3	75	19.8	—	24	46	35	27	18	30,000	0.6	L-4T	
5730 13204080	-PHC04A -80	2	4	80	25.1	—	25	46	35	29	24	30,000	0.6		
5730 13206090	-PHC06A -90	2	6	90	30	24	26	46	35	34	29	28,000	0.7		
5730 13207090	-PHC07A -90	2	7	90	30	26	28	46	35	34	29	28,000	0.7		
5730 13208090	-PHC08A -90	2	8	90	30	26	28	46	35	34	29	27,000	0.7		
5730 13209105	-PHC09A -105	2	9	105	44	28	30	52	35	50	40	26,000	0.9		
5730 13210105	-PHC10A -105	2	10	105	44	28	30	52	35	50	40	26,000	0.9		
5730 13211105	-PHC11A -105	2	11	105	45	30	32	52	35	50	40	25,000	0.9		
5730 13212105	-PHC12A -105	2	12	105	45	30	32	52	35	50	40	25,000	0.9		
5730 13213105	-PHC13A -105	2	13	105	46	34	36	52	35	50	40	25,000	1.0		
5730 13214105	-PHC14A -105	2	14	105	46	34	36	52	35	50	40	25,000	1.0		
5730 13215105	-PHC15A -105	2	15	105	46	36	38	52	35	50	40	25,000	1.0		
5730 13216105	-PHC16A -105	2	16	105	46	36	38	52	35	50	40	24,000	1.0		
5730 13220105	-PHC20A -105	2	20	105	49	40	42	46	35	50	40	20,000	1.0		
5730 13225120	-PHC25A -120	2	25	120	59	50	52	59	35	60	50	16,000	1.5		L-6T
5730 14203080	HSK50A -PHC03A -80	2	3	80	19.8	—	24	46	42	27	18	25,000	0.9	L-4T	
5730 14204085	-PHC04A -85	2	4	85	25.1	—	25	46	42	29	24	25,000	0.9		
5730 14206090	-PHC06A -90	2	6	90	30	24	26	46	41	34	29	25,000	0.9		
5730 14207090	-PHC07A -90	2	7	90	30	26	28	46	41	34	29	25,000	0.9		
5730 14208090	-PHC08A -90	2	8	90	30	26	28	46	41	34	29	25,000	0.9		
5730 14209105	-PHC09A -105	2	9	105	44	28	30	52	41	50	40	25,000	1.0		
5730 14210105	-PHC10A -105	2	10	105	44	28	30	52	41	50	40	25,000	1.0		
5730 14211105	-PHC11A -105	2	11	105	45	30	32	52	41	50	40	25,000	1.1		
5730 14212105	-PHC12A -105	2	12	105	45	30	32	52	41	50	40	25,000	1.1		
5730 14213105	-PHC13A -105	2	13	105	46	34	36	52	41	50	40	25,000	1.1		
5730 14214105	-PHC14A -105	2	14	105	46	34	36	52	41	50	40	25,000	1.1		
5730 14215105	-PHC15A -105	2	15	105	46	36	38	52	41	50	40	25,000	1.2		
5730 14216105	-PHC16A -105	2	16	105	46	36	38	52	41	50	40	25,000	1.1		
5730 14220105	-PHC20A -105	2	20	105	49	40	42	46	41	50	40	20,000	1.1		
5730 14225135	-PHC25A -135	2	25	135	59	50	52	59	42	60	50	16,000	1.9		L-6T
5730 75203065	HSK63A -PHC03A -65 -H	1	3	65	19.8	—	24	46	—	27	18	20,500	1.0	L-4T	
5730 75204070	-PHC04A -70 -H	1	4	70	25.1	—	25	46	—	29	24	20,500	1.0		
5730 75206075	-PHC06A -75 -H	1	6	75	30	24	26	46	—	34	29	20,500	1.0		
5730 75206120	-120 -H	1	6	120	41	24	26	46	—	45	29	20,500	1.5		
5730 75207075	-PHC07A -75 -H	1	7	75	30	26	28	46	—	34	29	20,500	1.0		
5730 75207120	-120 -H	1	7	120	41	26	28	46	—	45	29	20,500	1.5		
5730 75208075	-PHC08A -75 -H	1	8	75	30	26	28	46	—	34	29	20,500	1.0		
5730 75208120	-120 -H	1	8	120	41	26	28	46	—	45	29	20,500	1.5		
5730 75209090	-PHC09A -90 -H	1	9	90	44	28	30	52	—	50	40	20,500	1.2		
5730 75209120	-120 -H	1	9	120	64	28	30	52	—	70	40	20,500	1.4		
5730 75210090	-PHC10A -90 -H	1	10	90	44	28	30	52	—	50	40	20,500	1.2		
5730 75210120	-120 -H	1	10	120	64	28	30	52	—	70	40	20,500	1.4		
5730 75211090	-PHC11A -90 -H	1	11	90	45	30	32	52	—	50	40	20,500	1.2		
5730 75211120	-120 -H	1	11	120	65	30	32	52	—	70	40	20,500	1.4		
5730 75212090	-PHC12A -90 -H	1	12	90	45	30	32	52	—	50	40	20,500	1.2		
5730 75212120	-120 -H	1	12	120	65	30	32	52	—	70	40	20,500	1.4		
5730 75213090	-PHC13A -90 -H	1	13	90	46	34	36	52	—	50	40	20,500	1.2		
5730 75213120	-120 -H	1	13	120	66	34	36	52	—	70	40	20,500	1.5		
5730 75214090	-PHC14A -90 -H	1	14	90	46	34	36	52	—	50	40	20,500	1.2		
5730 75214120	-120 -H	1	14	120	66	34	36	52	—	70	40	20,500	1.5		
5730 75215090	-PHC15A -90 -H	1	15	90	46	36	38	52	—	50	40	20,500	1.3		
5730 75215120	-120 -H	1	15	120	66	36	38	52	—	70	40	20,500	1.6		
5730 75216090	-PHC16A -90 -H	1	16	90	46	36	38	52	—	50	40	20,500	1.3		
5730 75216120	-120 -H	1	16	120	66	36	38	52	—	70	40	20,500	1.6		
5730 75220090	-PHC20A -90 -H	1	20	90	49	40	42	46	—	50	40	20,500	1.3		
5730 75220120	-120 -H	1	20	120	69	40	42	46	—	70	40	20,500	1.5		
5730 75225135	-PHC25A -135 -H	2	25	135	59	50	52	59	42	60	50	16,000	2.3	L-6T	
5730 75225150	-150 -H	2	25	150	79	50	52	59	42	80	50	16,000	2.5		
5730 75232135	-PHC32A -135 -H	2	32	135	42	60	62	85	42	80	65	12,000	3.1		
5730 75232150	-150 -H	2	32	150	108	60	62	62	42	80	65	12,000	2.9		
5730 77206090	HSK100A -PHC06A -90 -H	1	6	90	30	24	26	46	—	34	29	12,500	2.6		L-4T
5730 77206120	-120 -H	1	6	120	41	24	26	46	—	45	29	12,500	2.8		
5730 77206150	-150 -H	1	6	150	41	24	26	46	—	45	29	12,500	3.2		
5730 77207090	-PHC07A -90 -H	1	7	90	30	26	28	46	—	34	29	12,500	2.6		
5730 77207120	-120 -H	1	7	120	41	26	28	46	—	45	29	12,500	2.8		
5730 77207150	-150 -H	1	7	150	41	26	28	46	—	45	29	12,500	3.2		
5730 77208090	-PHC08A -90 -H	1	8	90	30	26	28	46	—	34	29	12,500	2.6		
5730 77208120	-120 -H	1	8	120	41	26	28	46	—	45	29	12,500	2.8		
5730 77208150	-150 -H	1	8	150	41	26	28	46	—	45	29	12,500	3.2		
5730 77209105	-PHC09A -105 -H	1	9	105	44	28	30	52	—	50	40	12,500	2.7		
5730 77209135	-135 -H	1	9	135	64	28	30	52	—	70	40	12,500	3.0		
5730 77209165	-165 -H	1	9	165	64	28	30	52	—	70	40	12,500	3.5		
5730 77210105	-PHC10A -105 -H	1	10	105	44	28	30	52	—	50	40	12,500	2.7		
5730 77210135	-135 -H	1	10	135	64	28	30	52	—	70	40	12,500	3.0		
5730 77210165	-165 -H	1	10	165	64	28	30	52	—	70	40	12,500	3.5		
5730 77211105	-PHC11A -105 -H	1	11	105	45	30	32	52	—	50	40	12,500	2.7		
5730 77211135	-135 -H	1	11	135	65	30	32	52	—	70	40	12,500	3.0		
5730 77211165	-165 -H	1	11	165	65	30	32	52	—	70	40	12,500	3.5		
5730 77212105	-PHC12A -105 -H	1	12	105	45	30	32	52	—	50	40	12,500	2.7		
5730 77212135	-135 -H	1	12	135	65	30	32	52	—	70	40	12,500	3.0		
5730 77212165	-165 -H	1	12	165	65	30	32	52	—	70	40	12,500	3.5		
5730 77213105	-PHC13A -105 -H	1	13	105	46	34	36	52	—	50	40	12,500	2.8		
5730 77213135	-135 -H	1	13	135	66	34	36	52	—	70	40	12,500	3.1		
5730 77213165	-165 -H	1	13	165	66	34	36	52	—	70	40	12,500	3.5		
5730 77214105	-PHC14A -105 -H	1	14	105	46	34	36	52	—	50	40	12,500	2.8		
5730 77214135	-135 -H	1	14	135	66	34	36	52	—	70	40	12,500	3.1		
5730 77214165	-165 -H	1	14	165	66	34	36	52	—	70	40	12,500	3.5		
5730 77215105	-PHC15A -105 -H	1	15	105	46	36	38	52	—	50	40	12,500	2.8		
5730 77215135	-135 -H	1	15	135	66	36	38	52	—	70	40	12,500	3.1		
5730 77215165	-165 -H	1	15	165	66	36	38	52	—	70	40	12,500	3.6		
5730 77216105	-PHC16A -105 -H	1	16	105	46	36	38	52	—	50	40	12,500	2.8		
5730 77216135	-135 -H	1	16	135	66	36	38	52	—	70	40	12,500	3.1		
5730 77216165	-165 -H	1	16	165	66	36	38	52	—	70	40	12,500	3.6		
5730 77220105	-PHC20A -105 -H	1	20	105	49	40	42	46	—	50	40	12,500	2.8		
5730 77220135	-135 -H	1	20	135	69	40	42	46	—	70	40	12,500	3.1		
5730 77220165	-165 -H	1	20	165	69	40	42	46	—	70	40	12,500	3.6		
5730 77225120	-PHC25A -120 -H	1	25	120	59	50	52	62	—	64	50	12,500	3.4		
5730 77225165	-165 -H	1													

PHC·A Power Hydro Chuck

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

HSK



Caution
Strictly keep the min insertion length.

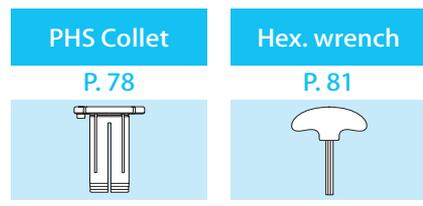
Hex-head screws with sealed thread (included) are necessary to plug the air holes for coolant through operation. For details on installing the hex head screws, please refer to the instruction manual in the screws' packaging.

Model	Hex wrench size for stopper bolt
PHC06A ~ 08A	2.5mm
PHC09A ~ 32A	3mm

Code	Model	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	kg	Wrench (Option)
5730 53206090	HSK40E -PHC06A -90	6	90	30	24	26	46	35	34	29	0.7	L-4T
5730 53207090	-PHC07A -90	7	90	30	26	28	46	35	34	29		
5730 53208090	-PHC08A -90	8	90	30	26	28	46	35	34	29	0.7	
5730 53209105	-PHC09A -105	9	105	44	28	30	52	35	50	40		
5730 53210105	-PHC10A -105	10	105	44	28	30	52	35	50	40	0.8	
5730 53211105	-PHC11A -105	11	105	45	30	32	52	35	50	40		
5730 53212105	-PHC12A -105	12	105	45	30	32	52	35	50	40	0.9	L-4T
5730 54206090	HSK50E -PHC06A -90	6	90	30	24	26	46	41	34	29	0.9	
5730 54207090	-PHC07A -90	7	90	30	26	28	46	41	34	29		
5730 54208090	-PHC08A -90	8	90	30	26	28	46	41	34	29	0.9	
5730 54209105	-PHC09A -105	9	105	44	28	30	52	41	50	40		
5730 54210105	-PHC10A -105	10	105	44	28	30	52	41	50	40	1.0	
5730 54211105	-PHC11A -105	11	105	45	30	32	52	41	50	40		
5730 54212105	-PHC12A -105	12	105	45	30	32	52	41	50	40	1.0	
5730 54213105	-PHC13A -105	13	105	46	34	36	52	41	50	40		
5730 54214105	-PHC14A -105	14	105	46	34	36	52	41	50	40		
5730 54215105	-PHC15A -105	15	105	46	36	38	52	41	50	40		
5730 54216105	-PHC16A -105	16	105	46	36	38	52	41	50	40	1.1	
5730 54220105	-PHC20A -105	20	105	49	40	42	46	41	50	40	1.1	

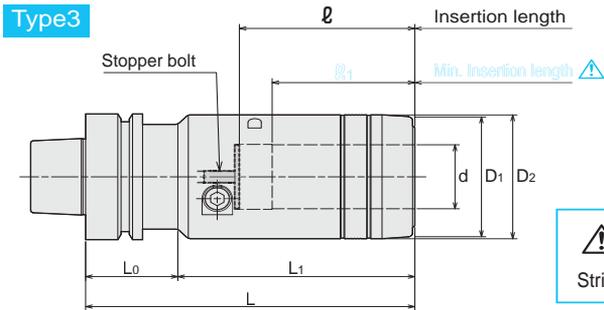
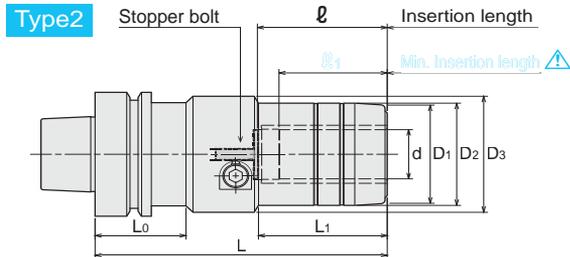
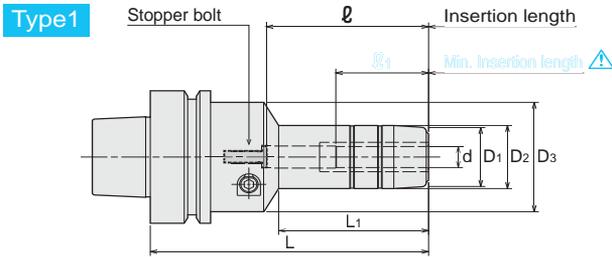
- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- PHC12A and PHC20A have pin holes for collet with stopper pin on its body.
- Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
- For 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
HSK50E - PHC12A- 105
 Shank size I.D. Pojection length



PHC·A Power Hydro Chuck

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



! 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.

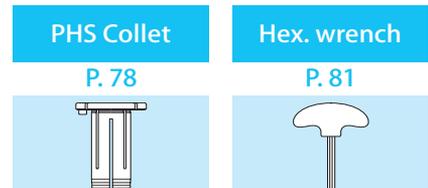
Model	Hex wrench size for stopper bolt
PHC06A ~ 08A	2.5mm
PHC09A ~ 32A	3mm

Code	Model	Type	d	L	L1	D1	D2	D3	L0	l	l1	kg	Wrench (Option)
5730 65206075	HSK63F -PHC06A -75	1	6	75	30	24	26	46	—	34	29	0.9	L-4T
5730 65206120	-120	1	6	120	41	24	26	46	—	45	29		
5730 65207075	-PHC07A -75	1	7	75	30	26	28	46	—	34	29		
5730 65207120	-120	1	7	120	41	26	28	46	—	45	29		
5730 65208075	-PHC08A -75	1	8	75	30	26	28	46	—	34	29		
5730 65208120	-120	1	8	120	41	26	28	46	—	45	29		
5730 65209090	-PHC09A -90	1	9	90	44	28	30	52	—	50	40		
5730 65209120	-120	1	9	120	64	28	30	52	—	70	40		
5730 65210090	-PHC10A -90	1	10	90	44	28	30	52	—	50	40	1.1	
5730 65210120	-120	1	10	120	64	28	30	52	—	70	40		
5730 65211090	-PHC11A -90	1	11	90	45	30	32	52	—	50	40		
5730 65211120	-120	1	11	120	65	30	32	52	—	70	40		
5730 65212090	-PHC12A -90	1	12	90	45	30	32	52	—	50	40	1.1	
5730 65212120	-120	1	12	120	65	30	32	52	—	70	40	1.4	
5730 65213090	-PHC13A -90	1	13	90	46	34	36	52	—	50	40		
5730 65213120	-120	1	13	120	66	34	36	52	—	70	40		
5730 65214090	-PHC14A -90	1	14	90	46	34	36	52	—	50	40		
5730 65214120	-120	1	14	120	66	34	36	52	—	70	40		
5730 65215090	-PHC15A -90	1	15	90	46	36	38	52	—	50	40		
5730 65215120	-120	1	15	120	66	36	38	52	—	70	40		
5730 65216090	-PHC16A -90	1	16	90	46	36	38	52	—	50	40		
5730 65216120	-120	1	16	120	66	36	38	52	—	70	40		
5730 65220090	-PHC20A -90	1	20	90	49	40	42	46	—	50	40	1.2	
5730 65220120	-120	1	20	120	69	40	42	46	—	70	40	1.5	
5730 65225135	-PHC25A -135	2	25	135	59	50	52	59	42	60	50	2.3	L-6T
5730 65225150	-150	2	25	150	79	50	52	59	42	80	50	2.4	
5730 65232135	-PHC32A -135	2	32	135	42	60	62	85	42	80	65	3.0	
5730 65232150	-150	3	32	150	108	60	62	—	42	80	65	2.8	

- 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 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

HSK63F - PHC12A - 120
Shank size I.D. Projection length

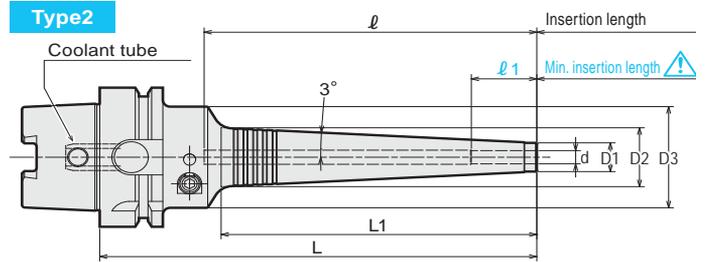
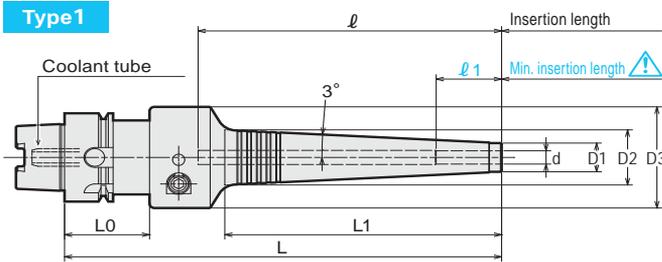




PHC·SB Slim Hydro Chuck



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



Caution : Strictly keep the min insertion length.

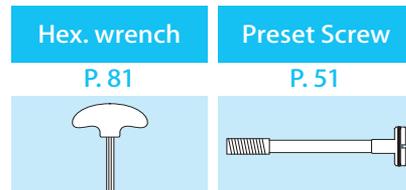
! Hex-head screws with sealed thread (included) are necessary to plug the air holes for coolant through operation. For details on installing the hex head screws, please refer to the instruction manual in the screws' packaging.

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	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	
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	
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	
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	
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	
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	
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	2	3	150	84	11	19.9	46	—	121	16	12,500	2.4	
5750 77403195	-195	2	3	195	84	11	19.9	46	—	166	16	12,000	2.8	
5750 77404150	-PHC04SB -150	2	4	150	84	11	19.9	46	—	121	19	12,500	2.4	
5750 77404195	-195	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	
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	
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

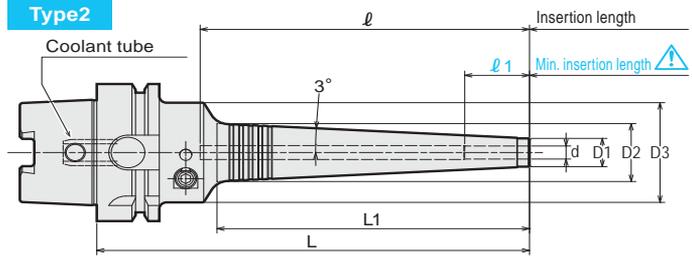
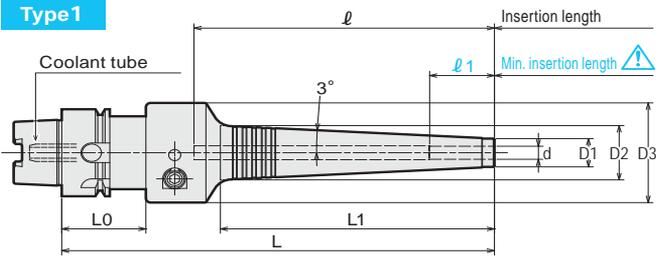
HSK63A - PHC12SB - 135
Shank size I.D. Projection length



PHC·SB-C Slim Hydro Chuck Blaster

NEW!

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



Caution : Strictly keep the min insertion length.

HSK

Code	Model	Type	d	L	L1	D1	D2	D3	L0	l	l 1	Max min ⁻¹	kg	Wrench (Option)
5770 13403100	HSK40A -PHC03SB -100-C	1	3	100	37	12	15.9	46	35	84	16	30,000	0.4	L-4T
5770 13404100	-PHC04SB -100-C	1	4	100	37	12	15.9	46	35	84	19	30,000	0.4	
5770 13406150	-PHC06SB -150-C	1	6	150	84	14	22.9	46	35	97	27	17,000	0.9	
5770 13408150	-PHC08SB -150-C	1	8	150	84	16	24.9	46	35	97	27	16,000	1.0	
5770 13410150	-PHC10SB -150-C	1	10	150	84	18	26.9	46	35	97	33	16,000	1.0	
5770 13412150	-PHC12SB -150-C	1	12	150	84	20	28.9	46	35	97	36	15,000	1.0	
5770 14403150	HSK50A -PHC03SB -150-C	1	3	150	84	12	20.9	46	42	130	16	18,000	0.9	L-4T
5770 14404150	-PHC04SB -150-C	1	4	150	84	12	20.9	46	42	130	19	18,000	0.9	
5770 14406150	-PHC06SB -150-C	1	6	150	84	14	22.9	46	42	95	27	18,000	1.1	
5770 14408150	-PHC08SB -150-C	1	8	150	84	16	24.9	46	42	95	27	18,000	1.1	
5770 14410150	-PHC10SB -150-C	1	10	150	84	18	26.9	46	42	95	33	18,000	1.2	
5770 14412150	-PHC12SB -150-C	1	12	150	84	20	28.9	46	42	95	36	16,000	1.2	
5770 75403135	HSK63A -PHC03SB -135-C	2	3	135	84	12	20.9	46	—	113	16	20,500	1.2	L-4T
5770 75404080	-PHC04SB -80-C	2	4	80	28	12	15.0	46	—	58	19	20,500	0.8	
5770 75404135	-135-C	2	4	135	84	12	20.9	46	—	113	19	20,500	1.2	
5770 75406135	-PHC06SB -135-C	2	6	135	84	14	22.9	46	—	92	27	20,500	1.2	
5770 75408135	-PHC08SB -135-C	2	8	135	84	16	24.9	46	—	92	27	20,500	1.2	
5770 75410135	-PHC10SB -135-C	2	10	135	84	18	26.9	46	—	92	33	20,000	1.3	
5770 75412135	-PHC12SB -135-C	2	12	135	84	20	28.9	46	—	92	36	20,000	1.3	
5770 75412180	-180-C	2	12	180	130	20	33.7	46	—	137	36	10,000	1.5	
5770 75416135	-PHC16SB -135-C	2	16	135	84	24	32.9	52.5	—	91	40	20,000	1.4	
5770 75416180	-180-C	2	16	180	129	24	37.6	52.5	—	135	40	10,000	1.7	
5770 75420150	-PHC20SB -150-C	1	20	150	84	29	37.9	60	42	91	40	19,000	2.2	L-5T
5770 75420195	-195-C	1	20	195	129	29	42.6	60	42	135	40	10,000	2.5	
5770 75425150	-PHC25SB -150-C	1	25	150	84	38	46.9	60	42	91	50	16,000	2.2	
5770 75425195	-195-C	1	25	195	129	38	51.6	60	42	135	50	10,000	2.6	
5770 77403150	HSK100A -PHC03SB -150-C	2	3	150	84	12	20.9	46	—	121	16	12,500	2.5	
5770 77403195	-195-C	2	3	195	84	12	20.9	46	—	166	16	12,000	2.9	
5770 77404150	-PHC04SB -150-C	2	4	150	84	12	20.9	46	—	121	19	12,500	2.5	
5770 77404195	-195-C	2	4	195	84	12	20.9	46	—	166	19	12,000	2.9	
5770 77406150	-PHC06SB -150-C	2	6	150	84	14	22.9	46	—	92	27	12,500	2.7	
5770 77406195	-195-C	2	6	195	130	14	27.7	46	—	137	27	9,000	2.8	
5770 77408150	-PHC08SB -150-C	2	8	150	84	16	24.9	46	—	92	27	12,500	2.7	
5770 77408195	-195-C	2	8	195	130	16	29.7	46	—	137	27	9,000	2.9	
5770 77410150	-PHC10SB -150-C	2	10	150	84	18	26.9	46	—	92	33	12,500	2.7	
5770 77410195	-195-C	2	10	195	130	18	31.7	46	—	137	33	9,000	2.9	
5770 77412150	-PHC12SB -150-C	2	12	150	84	20	28.9	46	—	92	36	12,500	2.8	
5770 77412195	-195-C	2	12	195	130	20	33.7	46	—	137	36	9,000	3.0	
5770 77416150	-PHC16SB -150-C	2	16	150	84	24	32.9	52.5	—	91	40	12,500	3.1	
5770 77416195	-195-C	2	16	195	129	24	37.6	52.5	—	135	40	10,000	3.3	
5770 77420150	-PHC20SB -150-C	2	20	150	84	29	37.9	60	—	91	40	12,500	3.6	
5770 77420195	-195-C	2	20	195	129	29	42.6	60	—	135	40	11,000	3.8	
5770 77425150	-PHC25SB -150-C	2	25	150	84	38	46.9	60	—	91	50	12,500	3.6	
5770 77425195	-195-C	2	25	195	129	38	51.6	60	—	135	50	11,000	4.0	

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

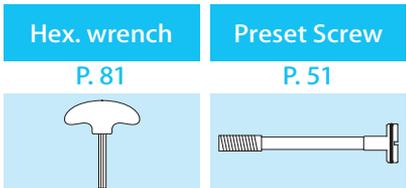
- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Hex-head screws (included) are necessary to plug air hole for 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.

Inch size upon request

Ordering Example

HSK63A -PHC12SB- 135 - C

Shank size I.D. Projection length



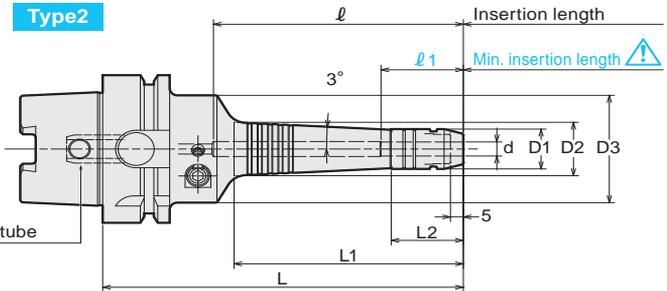
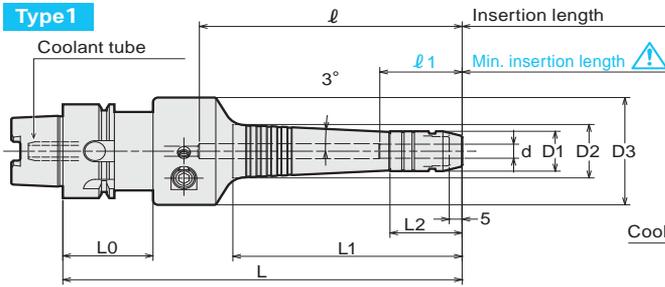


PHC·SB-NC

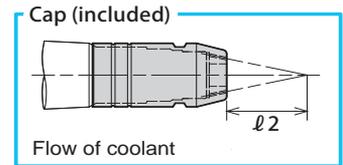
Slim Hydro Chuck Blaster (With cap)

NEW!

Perfect choice for tight space applications, such as endmill finishing, drilling and reaming on 5-axis machines. Minimize centrifugal force and feed coolant accurately.



Caution
Strictly keep the min insertion length.



Code	Model	Type	d	L	L1	L2	D1	D2	D3	L0	ℓ	ℓ 1	ℓ 2	Max min ⁻¹	kg	Wrench (Option)
5770 13606155	HSK40A -PHC06SB -155-NC	1	6	155	89	28	17	22.9	46	35	102	32	30	17,000	0.9	L-4T
5770 13608155	-PHC08SB -155-NC	1	8	155	89	28	19	24.9	46	35	102	32	40	16,000	1.0	
5770 13610155	-PHC10SB -155-NC	1	10	155	89	33	21	26.9	46	35	102	38	50	16,000	1.0	
5770 13612155	-PHC12SB -155-NC	1	12	155	89	33	23	28.9	46	35	102	41	60	15,000	1.0	
5770 14604155	HSK50A -PHC04SB -155-NC	1	4	155	89	33	15	20.9	46	42	135	24	20	18,000	0.9	L-4T
5770 14606155	-PHC06SB -155-NC	1	6	155	89	28	17	22.9	46	42	100	32	30	18,000	1.1	
5770 14608155	-PHC08SB -155-NC	1	8	155	89	28	19	24.9	46	42	100	32	40	18,000	1.1	
5770 14610155	-PHC10SB -155-NC	1	10	155	89	33	21	26.9	46	42	100	38	50	18,000	1.2	
5770 14612155	-PHC12SB -155-NC	1	12	155	89	33	23	28.9	46	42	100	41	60	16,000	1.2	L-4T
5770 75604140	HSK63A -PHC04SB -140-NC	2	4	140	89	33	15	20.9	46	—	118	24	20	20,500	1.2	
5770 75606140	-PHC06SB -140-NC	2	6	140	89	28	17	22.9	46	—	97	32	30	20,500	1.2	
5770 75608140	-PHC08SB -140-NC	2	8	140	89	28	19	24.9	46	—	97	32	40	20,500	1.2	
5770 75610140	-PHC10SB -140-NC	2	10	140	89	33	21	26.9	46	—	97	38	50	20,000	1.3	L-4T
5770 75612140	-PHC12SB -140-NC	2	12	140	89	33	23	28.9	46	—	97	41	60	20,000	1.3	
5770 75612185	-185-NC	2	12	185	135	33	23	33.7	46	—	142	41	60	10,000	1.5	
5770 77606155	HSK100A -PHC06SB -155-NC	2	6	155	89	28	17	22.9	46	—	97	32	30	12,500	2.7		L-4T
5770 77606200	-200-NC	2	6	200	135	28	17	27.7	46	—	142	32	30	9,000	2.8	
5770 77608155	-PHC08SB -155-NC	2	8	155	89	28	19	24.9	46	—	97	32	40	12,500	2.7	
5770 77608200	-200-NC	2	8	200	135	28	19	29.7	46	—	142	32	40	9,000	2.9	
5770 77610155	-PHC10SB -155-NC	2	10	155	89	33	21	26.9	46	—	97	38	50	12,500	2.7	
5770 77610200	-200-NC	2	10	200	135	33	21	31.7	46	—	142	38	50	9,000	2.9	
5770 77612155	-PHC12SB -155-NC	2	12	155	89	33	23	28.9	46	—	97	41	60	12,500	2.8	
5770 77612200	-200-NC	2	12	200	135	33	23	33.7	46	—	142	41	60	9,000	3.0	

*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

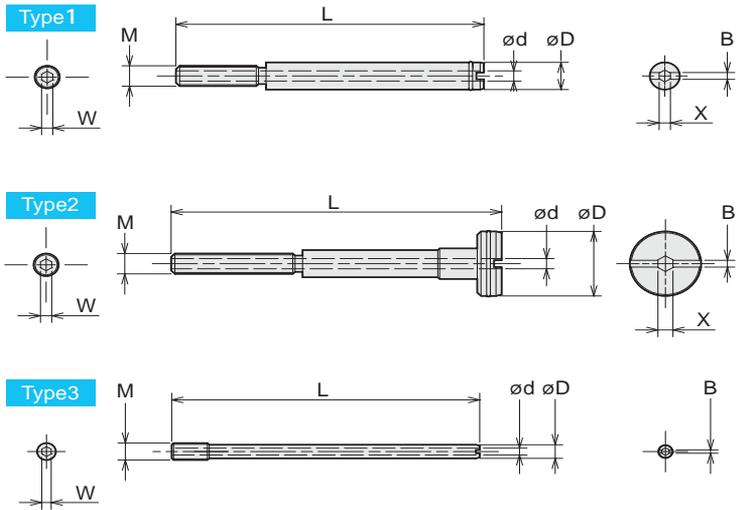
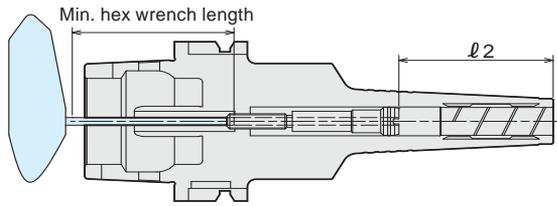
HSK63A - PHC12SB - 140 - NC

Shank size I.D. Projection length

Inch size upon request



Preset Screw for Slim Hydro Chuck



Shank size	Chuck ID	Min. hex wrench length
HSK40A	ø6 ~ ø12	72mm
HSK50A	ø3 ~ ø 4	109mm
	ø6 ~ ø12	77mm
HSK63A	ø3 ~ ø 4	101mm
	ø6 ~ ø16	73mm
HSK100A	ø6 ~ ø25	90mm
	ø6 ~ ø25	108mm

Preset screw			Matched chuck	Adjustment range ø2		Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model			PHC-SB PHC-SB-C	PHC-SB-NC									
3704 01060010	PHCSB -P06 -01	HSK40A	-PHC06SB -105	27 ~ 50	—	23	1	2.5	—	2	6	2.5	35	M5 P=0.8
3704 01060020	PHCSB -P06 -02		-150, -150-C, -155-NC	27 ~ 57	32 ~ 62	30	1	2.5	—	2	5.5	2.5	74	
3704 01060060	PHCSB -P06 -06			27 ~ 59	—	32	1	2.5	—	2	5.5	2.5	89	
3704 01060070	PHCSB -P06 -07			27 ~ 59	—	32	1	2.5	—	2	5.5	2.5	104	
3704 01060010	PHCSB -P06 -01		-PHC07SB -105	27 ~ 50	—	23	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02		-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	75	
3704 01070060	PHCSB -P07 -06		-165	27 ~ 57	—	30	2	2.5	—	2	6.5	2	90	
3704 01070070	PHCSB -P07 -07		-180	27 ~ 57	—	30	2	2.5	—	2	6.5	2	105	
3704 01060010	PHCSB -P06 -01		-PHC08SB -105	27 ~ 50	—	23	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02		-150, -150-C, -155-NC	27 ~ 56	32 ~ 61	29	2	2.5	3	2	7.5	2	75	
3704 01080060	PHCSB -P08 -06			27 ~ 57	—	30	2	2.5	3	2	7.5	2	90	
3704 01080070	PHCSB -P08 -07			27 ~ 57	—	30	2	2.5	3	2	7.5	2	105	
3704 01090010	PHCSB -P09 -01		-PHC09SB -120	33 ~ 58	—	25	1	2.5	3	2	9	2.5	45	
3704 01090020	PHCSB -P09 -02		-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	69	
3704 01090060	PHCSB -P09 -06		-165	33 ~ 63	—	30	2	2.5	3	2	8.5	2.5	84	
3704 01090070	PHCSB -P09 -07		-180	33 ~ 63	—	30	2	2.5	3	2	8.5	2.5	99	
3704 01090010	PHCSB -P09 -01		-PHC10SB -120	33 ~ 58	—	25	1	2.5	3	2	9	2.5	45	
3704 01100020	PHCSB -P10 -02		-150, -150-C, -155-NC	33 ~ 62	38 ~ 67	29	2	2.5	3	2	9.5	2.5	69	
3704 01100060	PHCSB -P10 -06			33 ~ 63	—	30	2	2.5	3	2	9.5	2.5	84	
3704 01100070	PHCSB -P10 -07			33 ~ 63	—	30	2	2.5	3	2	9.5	2.5	99	
3704 01090010	PHCSB -P09 -01		-PHC11SB -120	36 ~ 58	—	22	1	2.5	3	2	9	2.5	45	
3704 01110020	PHCSB -P11 -02		-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	67	
3704 01110060	PHCSB -P11 -06		-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
3704 01110070	PHCSB -P11 -07		-180	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
3704 01090010	PHCSB -P09 -01		-PHC12SB -120	36 ~ 58	—	22	1	2.5	3	2	9	2.5	45	
3704 01120020	PHCSB -P12 -02		-150, -150-C, -155-NC	36 ~ 64	41 ~ 69	28	2	2.5	3	2	11.5	2.5	67	
3704 01120060	PHCSB -P12 -06			36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
3704 01120070	PHCSB -P12 -07			36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
3704 01030071	PHCSB -P03 -07A	HSK50A	-PHC03SB -95	16 ~ 38	—	22	3	2.5	—	1	3.2	1.5	33	
3704 01030071	PHCSB -P03 -07A		-105	16 ~ 38	—	22	3	2.5	—	1	3.2	1.5	33	
3704 01030081	PHCSB -P03 -08A		-150, -150-C	16 ~ 38	—	22	3	2.5	—	1	3.2	1.5	54	
3704 01040071	PHCSB -P04 -07A		-PHC04SB -95	19 ~ 41	—	22	3	2.5	—	1	3.8	2	26	
3704 01040071	PHCSB -P04 -07A		-105	19 ~ 41	—	22	3	2.5	—	1	3.8	2	26	
3704 01040081	PHCSB -P04 -08A		-150, -150-C, -155-NC	19 ~ 41	24 ~ 46	22	3	2.5	—	1	3.8	2	51	
3704 01060010	PHCSB -P06 -01		-PHC06SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01060020	PHCSB -P06 -02		-150, -150-C, -155-NC	27 ~ 64	32 ~ 69	37	1	2.5	—	2	5.5	2.5	74	
3704 01060030	PHCSB -P06 -03			27 ~ 60	—	33	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04			27 ~ 60	—	33	1	2.5	—	2	5.5	2.5	104	
3704 01060010	PHCSB -P06 -01		-PHC07SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02		-150	27 ~ 64	—	37	2	2.5	—	2	6.5	2	75	
3704 01070030	PHCSB -P07 -03		-165	27 ~ 59	—	32	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04		-180	27 ~ 59	—	32	2	2.5	—	2	6.5	2	105	
3704 01060010	PHCSB -P06 -01		-PHC08SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02		-150, -150-C, -155-NC	27 ~ 64	32 ~ 69	37	2	2.5	3	2	7.5	2	75	
3704 01080030	PHCSB -P08 -03			27 ~ 59	—	32	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04			27 ~ 59	—	32	2	2.5	3	2	7.5	2	105	
3704 01090010	PHCSB -P09 -01		-PHC09SB -120	33 ~ 56	—	23	1	2.5	3	2	9	2.5	45	
3704 01090020	PHCSB -P09 -02		-150	33 ~ 69	—	36	2	2.5	3	2	8.5	2.5	69	
3704 01090030	PHCSB -P09 -03		-165	33 ~ 65	—	32	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04		-180	33 ~ 65	—	32	2	2.5	3	2	8.5	2.5	99	
3704 01090010	PHCSB -P09 -01		-PHC10SB -120	33 ~ 56	—	23	1	2.5	3	2	9	2.5	45	
3704 01100020	PHCSB -P10 -02		-150, -150-C, -155-NC	33 ~ 69	38 ~ 74	36	2	2.5	3	2	9.5	2.5	69	
3704 01100030	PHCSB -P10 -03			33 ~ 65	—	32	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04			33 ~ 65	—	32	2	2.5	3	2	9.5	2.5	99	
3704 01090010	PHCSB -P09 -01		-PHC11SB -120	36 ~ 56	—	20	1	2.5	3	2	9	2.5	45	
3704 01110020	PHCSB -P11 -02		-150	36 ~ 71	—	35	2	2.5	3	2	10.5	2.5	67	
3704 01110030	PHCSB -P11 -03		-165	36 ~ 67	—	31	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04		-180	36 ~ 67	—	31	2	2.5	3	2	10.5	2.5	97	
3704 01090010	PHCSB -P09 -01		-PHC12SB -120	36 ~ 56	—	20	1	2.5	3	2	9	2.5	45	
3704 01120020	PHCSB -P12 -02		-150, -150-C, -155-NC	36 ~ 71	41 ~ 76	35	2	2.5	3	2	11.5	2.5	67	
3704 01120030	PHCSB -P12 -03			36 ~ 67	—	31	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04			36 ~ 67	—	31	2	2.5	3	2	11.5	2.5	97	

HSK

Preset screw		Matched chuck	Adjustment range <i>ℓ</i> 2		Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model		PHC-SB PHC-SB-C	PHC-SB-NC									
3704 01030072	PHCSB -P03 -07B	HSK63A -PHC03SB -80	16 ~ 25	—	9	3	2.5	—	1	3.2	1.5	33	M5 P=0.8
3704 01030072	PHCSB -P03 -07B	-90	16 ~ 35	—	19	3	2.5	—	1	3.2	1.5	33	
3704 01030082	PHCSB -P03 -08B	-135, -135-C	16 ~ 38	—	22	3	2.5	—	1	3.2	1.5	54	
3704 01040072	PHCSB -P04 -07B	-PHC04SB -80, -80-C	19 ~ 29	—	10	3	2.5	—	1	3.8	2	26	
3704 01040072	PHCSB -P04 -07B	-90	19 ~ 39	—	20	3	2.5	—	1	3.8	2	26	
3704 01040082	PHCSB -P04 -08B	-135, -135-C, -140-NC	19 ~ 41	24 ~ 46	22	3	2.5	—	1	3.8	2	51	
3704 01060010	PHCSB -P06 -01	-PHC06SB -PHZ06SB -90	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01060020	PHCSB -P06 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74	
3704 01060030	PHCSB -P06 -03	-150	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04	-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104	
3704 01060050	PHCSB -P06 -05	-180	27 ~ 61	—	34	1	2.5	—	2	5.5	2.5	115	
3704 01060010	PHCSB -P06 -01	-PHC07SB -PHZ07SB -90	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02	-135	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75	
3704 01070030	PHCSB -P07 -03	-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04	-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105	
3704 01070050	PHCSB -P07 -05	-180	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115	
3704 01060010	PHCSB -P06 -01	-PHC08SB -PHZ08SB -90	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75	
3704 01080030	PHCSB -P08 -03	-150	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04	-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105	
3704 01080050	PHCSB -P08 -05	-180	27 ~ 61	—	34	2	2.5	3	2	7.5	2	115	
3704 01090010	PHCSB -P09 -01	-PHC09SB -PHZ09SB -105	33 ~ 56	—	23	1	2.5	3	2	9	2.5	45	
3704 01090020	PHCSB -P09 -02	-135	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69	
3704 01090030	PHCSB -P09 -03	-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04	-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99	
3704 01090050	PHCSB -P09 -05	-180	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC10SB -PHZ10SB -105	33 ~ 56	—	23	1	2.5	3	2	9	2.5	45	
3704 01100020	PHCSB -P10 -02	-135, -135-C, -140-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69	
3704 01100030	PHCSB -P10 -03	-150	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04	-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99	
3704 01100050	PHCSB -P10 -05	-180	33 ~ 66	—	33	2	2.5	3	2	9.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC11SB -PHZ11SB -105	36 ~ 56	—	20	1	2.5	3	2	9	2.5	45	
3704 01110020	PHCSB -P11 -02	-135	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67	
3704 01110030	PHCSB -P11 -03	-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04	-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
3704 01110050	PHCSB -P11 -05	-180	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108	
3704 01090010	PHCSB -P09 -01	-PHC12SB -PHZ12SB -105	36 ~ 56	—	20	1	2.5	3	2	9	2.5	45	
3704 01120020	PHCSB -P12 -02	-135, -135-C, -140-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67	
3704 01120030	PHCSB -P12 -03	-150	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04	-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
3704 01120050	PHCSB -P12 -05	-180, -180-C, -185-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	108	
3704 01160010	PHCSB -P16 -01	-PHC16SB -135, -135-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60	
3704 01160020	PHCSB -P16 -02	-165	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87	
3704 01160030	PHCSB -P16 -03	-180, -180-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102	
3704 01200010	PHCSB -P20 -01	-PHC20SB -150, -150-C	40 ~ 85	—	45	1	3	3	2	19	3	57	
3704 01200020	PHCSB -P20 -02	-180	40 ~ 90	—	50	2	3	3	2	19.5	3	86	
3704 01200030	PHCSB -P20 -03	-195, -195-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101	
3704 01250010	PHCSB -P25 -01	-PHC25SB -150, -150-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47	
3704 01250020	PHCSB -P25 -02	-180	50 ~ 99	—	49	2	3	3	2	24.5	3	76	
3704 01250030	PHCSB -P25 -03	-195, -195-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91	
3704 01060010	PHCSB -P06 -01	HSK100A -PHC06SB -PHZ06SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01060020	PHCSB -P06 -02	-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74	
3704 01060030	PHCSB -P06 -03	-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04	-180	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104	
3704 01060050	PHCSB -P06 -05	-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	115	
3704 01060010	PHCSB -P06 -01	-PHC07SB -PHZ07SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02	-150	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75	
3704 01070030	PHCSB -P07 -03	-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04	-180	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105	
3704 01070050	PHCSB -P07 -05	-195	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115	
3704 01060010	PHCSB -P06 -01	-PHC08SB -PHZ08SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02	-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75	
3704 01080030	PHCSB -P08 -03	-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04	-180	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105	
3704 01080050	PHCSB -P08 -05	-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	115	
3704 01090020	PHCSB -P09 -02	-PHC09SB -PHZ09SB -150	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69	
3704 01090030	PHCSB -P09 -03	-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04	-180	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99	
3704 01090050	PHCSB -P09 -05	-195	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110	
3704 01100020	PHCSB -P10 -02	-PHC10SB -PHZ10SB -150, -150-C, -155-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69	
3704 01100030	PHCSB -P10 -03	-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04	-180	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99	
3704 01100050	PHCSB -P10 -05	-195, -195-C, -200-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	110	
3704 01110020	PHCSB -P11 -02	-PHC11SB -PHZ11SB -150	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67	
3704 01110030	PHCSB -P11 -03	-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04	-180	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
3704 01110050	PHCSB -P11 -05	-195	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108	
3704 01120020	PHCSB -P12 -02	-PHC12SB -PHZ12SB -150, -150-C, -155-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67	
3704 01120030	PHCSB -P12 -03	-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04	-180	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
3704 01120050	PHCSB -P12 -05	-195, -195-C, -200-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	108	
3704 01160010	PHCSB -P16 -01	-PHC16SB -150, -150-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60	
3704 01160020	PHCSB -P16 -02	-180	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87	
3704 01160030	PHCSB -P16 -03	-195, -195-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102	
3704 01200010	PHCSB -P20 -01	-PHC20SB -150, -150-C	40 ~ 85	—	45	1	3	3	2	19	3	57	
3704 01200020	PHCSB -P20 -02	-180	40 ~ 90	—	50	2	3	3	2	19.5	3	86	
3704 01200030	PHCSB -P20 -03	-195, -195-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101	
3704 01250010	PHCSB -P25 -01	-PHC25SB -150, -150-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47	
3704 01250020	PHCSB -P25 -02	-180	50 ~ 99	—	49	2	3	3	2	24.5	3	76	
3704 01250030	PHCSB -P25 -03	-195, -195-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91	

*For HSK40A-PHC03SB, HSK40A-PHC04SB, HSK100A-PHC03SB(-C) and HSK100A-PHC04SB(-C) a preset screw cannot be used.

Preset Screw for Slim Hydro Chuck

Preset screw		Matched chuck	Adjustment range ℓ2	Adjustment amount	Type	W	X	B	D	d	L	M	
Code	Model												
370401030072	PHCSB-P03-07B	HSK63A -PHC0125SB -90	16~35	19	3	2.5	-	1	3.2	1.5	33	M5 P=0.8	
370401030082	PHCSB-P03-08B		-135	16~38	22	3	2.5	-	1	3.2	1.5		54
370401060030	PHCSB-P06-03	-PHC0250SB -150	27~57	30	1	2.5	-	2	5.5	2.5	89		
370401060040	PHCSB-P06-04		-165	27~57	30	1	2.5	-	2	5.5	2.5		104
370401060050	PHCSB-P06-05		-180	27~61	34	1	2.5	-	2	5.5	2.5		115
370401080030	PHCSB-P08-03	-PHC0312SB -150	27~56	29	2	2.5	3	2	7.5	2	90		
370401080040	PHCSB-P08-04		-165	27~56	29	2	2.5	3	2	7.5	2		105
370401080050	PHCSB-P08-05		-180	27~61	34	2	2.5	3	2	7.5	2		115
370401100090	PHCSB-P10-09	-PHC0375SB -150	33~62	29	2	2.5	3	2	8.5	2.5	84		
370401100100	PHCSB-P10-10		-165	33~62	29	2	2.5	3	2	8.5	2.5		99
370401100110	PHCSB-P10-11		-180	33~66	33	2	2.5	3	2	8.5	2.5		110
370401120030	PHCSB-P12-03	-PHC0500SB -150	36~64	28	2	2.5	3	2	11.5	2.5	82		
370401120040	PHCSB-P12-04		-165	36~64	28	2	2.5	3	2	11.5	2.5		97
370401120050	PHCSB-P12-05		-180	36~68	32	2	2.5	3	2	11.5	2.5		108
370401160010	PHCSB-P16-01	-PHC0625SB -135	40~82	42	1	2.5	3	2	15.5	2.5	60		
370401160020	PHCSB-P16-02		-165	40~82	42	2	2.5	3	2	15.5	2.5	87	
370401160030	PHCSB-P16-03		-180	40~82	42	2	2.5	3	2	15.5	2.5	102	
370401200010	PHCSB-P20-01	-PHC0750SB -150	40~85	45	1	3	3	2	19	3	57		
370401200040	PHCSB-P20-04		-180	40~90	50	2	3	3	2	15.5	2	86	
370401200050	PHCSB-P20-05		-195	40~90	50	2	3	3	2	15.5	2	101	
370401250010	PHCSB-P25-01	-PHC1000SB -150	50~85	35	1	3	3	2	24.5	3	47		
370401250020	PHCSB-P25-02		-180	50~99	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB-P25-03		-195	50~100	50	2	3	3	2	24.5	3	91	
370401060020	PHCSB-P06-02	HSK100A -PHC0250SB -150	27~61	34	1	2.5	-	2	5.5	2.5	74	M6 P=1	
370401060040	PHCSB-P06-04		-180	27~57	30	1	2.5	-	2	5.5	2.5		104
370401060050	PHCSB-P06-05		-195	27~61	34	1	2.5	-	2	5.5	2.5		115
370401080020	PHCSB-P08-02	-PHC0312SB -150	27~61	34	2	2.5	3	2	7.5	2	75		
370401080040	PHCSB-P08-04		-180	27~56	29	2	2.5	3	2	7.5	2		105
370401080050	PHCSB-P08-05		-195	27~61	34	2	2.5	3	2	7.5	2		115
370401100080	PHCSB-P10-08	-PHC0375SB -150	33~66	33	2	2.5	3	2	8.5	2.5	69		
370401100100	PHCSB-P10-10		-180	33~62	29	2	2.5	3	2	8.5	2.5		99
370401100110	PHCSB-P10-11		-195	33~66	33	2	2.5	3	2	8.5	2.5		110
370401120020	PHCSB-P12-02	-PHC0500SB -150	36~68	32	2	2.5	3	2	11.5	2.5	67		
370401120040	PHCSB-P12-04		-180	36~64	28	2	2.5	3	2	11.5	2.5		97
370401120050	PHCSB-P12-05		-195	36~68	32	2	2.5	3	2	11.5	2.5		108
370401160010	PHCSB-P16-01	-PHC0625SB -150	40~80	40	1	2.5	3	2	15.5	2.5	60		
370401160020	PHCSB-P16-02		-180	40~82	42	2	2.5	3	2	15.5	2.5		87
370401160030	PHCSB-P16-03		-195	40~82	42	2	2.5	3	2	15.5	2.5		102
370401200010	PHCSB-P20-01	-PHC0750SB -150	40~85	45	1	3	3	2	19	3	57		
370401200040	PHCSB-P20-04		-180	40~90	50	2	3	3	2	15.5	2	86	
370401200050	PHCSB-P20-05		-195	40~90	50	2	3	3	2	15.5	2	101	
370401250010	PHCSB-P25-01	-PHC1000SB -150	50~85	35	1	3	3	2	24.5	3	47		
370401250020	PHCSB-P25-02		-180	50~99	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB-P25-03		-195	50~100	50	2	3	3	2	24.5	3	91	

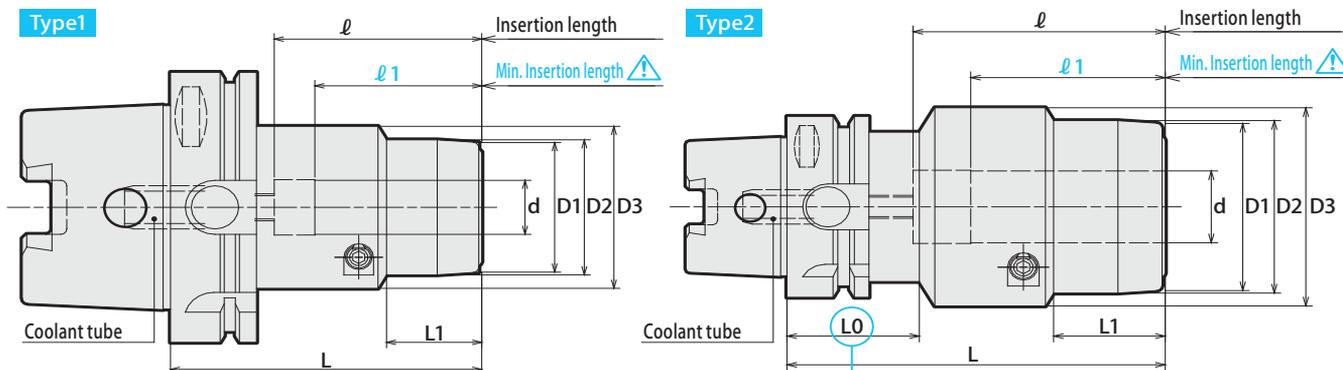
HSK



PHC·H Hydro Chuck Omega Ω

High Rigidity Hydro Chuck is the best holder for high efficiency rough machining.

HSK



Caution
Strictly keep the min insertion length.

Caution
Take caution against A.T.C. arm and tool magazine interference.

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ 1	Max. min. ⁻¹	kg	Wrench (Option)
5330 75016080	HSK63A -PHC16H - 80 -H	2	16	80	21	—	44	56	42	51	45	20,500	1.4	L-4T
5330 75020105	-PHC20H -105 -H	2	20	105	32	48	50	60	42	75	50	20,500	1.9	
5330 75025105	-PHC25H -105 -H	2	25	105	35	58	60	69	42	75	55	20,500	2.1	
5330 75032105	-PHC32H -105 -H	2	32	105	37	63	65	75	42	78	65	20,500	2.2	L-5T
5330 75032135	-135 -H	2	32	135	47	63	65	75	42	105	65	20,500	2.9	L-4T
5330 77016105	HSK100A -PHC16H -105 -H	1	16	105	27	—	44	56	—	70	45	12,500	3.1	
5330 77020105	-PHC20H -105 -H	1	20	105	32	48	50	60	—	70	50	12,500	3.3	
5330 77025105	-PHC25H -105 -H	1	25	105	35	58	60	69	—	70	55	12,500	3.6	L-5T
5330 77025135	-135 -H	1	25	135	35	58	60	69	—	100	55	12,500	4.4	
5330 77032110	-PHC32H -110 -H	1	32	110	47	63	65	75	—	78	65	12,500	3.8	
5330 77032135	-135 -H	1	32	135	47	63	65	75	—	100	65	12,500	4.5	L-6T
5330 77042135	-PHC42H -135 -H	2	42	135	52	78	80	90	—	100	73	12,500	5.4	

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

1. Tool shank diameter tolerance must be within h7.
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
2. PHC20H and PHC32H have pin holes for collet with stopper pin on its body.

Inch Sizes

Unit : Inch

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ 1	Wrench (Option)
533200001000	HSK63A -PHC0625H -80-H	2	0.625	3.150	0.827	—	1.732	2.205	1.654	2.008	1.772	L-4T
533200002000	-PHC0750H -105-H	2	0.750	4.134	1.260	1.890	1.969	2.362	1.654	2.953	1.969	
533200003000	-PHC1000H -105-H	2	1.000	4.134	1.378	2.283	2.362	2.717	1.654	2.953	2.165	L-5T
533200004000	-PHC1250H -105-H	2	1.250	4.134	1.457	2.480	2.559	2.953	1.654	3.071	2.559	
533200005000	-135-H	2	1.250	5.315	1.850	2.480	2.559	2.953	1.654	4.134	2.559	L-4T
533200006000	HSK100A -PHC0625H -105-H	1	0.625	4.134	1.063	—	1.732	2.205	—	2.756	1.772	
533200007000	-PHC0750H -105-H	1	0.750	4.134	1.260	1.890	1.969	2.362	—	2.756	1.969	
533200008000	-PHC1000H -105-H	1	1.000	4.134	1.378	2.283	2.362	2.717	—	2.756	2.165	L-5T
533200009000	-135-H	1	1.000	5.315	1.378	2.283	2.362	2.717	—	3.937	2.165	
533200010000	-PHC1250H* -110-H	1	1.250	4.331	1.850	2.480	2.559	2.953	—	3.071	2.559	
533200011000	-135-H	1	1.250	5.315	1.850	2.480	2.559	2.953	—	3.937	2.559	L-6T
533200012000	-PHC1500H -135-H	2	1.500	5.315	2.047	3.071	3.150	3.543	—	4.331	2.874	

Ordering Example

With manual clamp holes (HSK63A, HSK100A)

HSK63A - PHC16H - 80 - H
 Shank size I.D. Projection length With manual clamp holes

Hex. wrench	PHS·H Collet	Stopper Bolt
P. 81	P. 79	P. 77

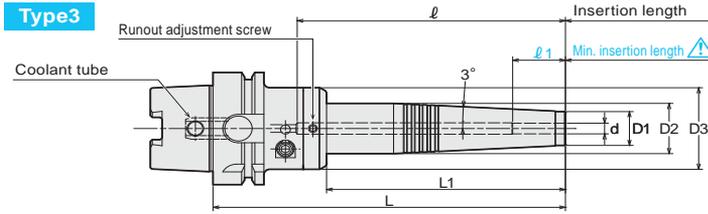
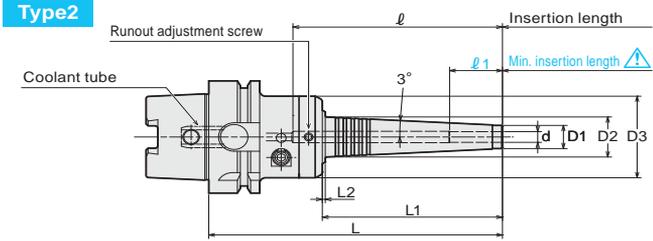
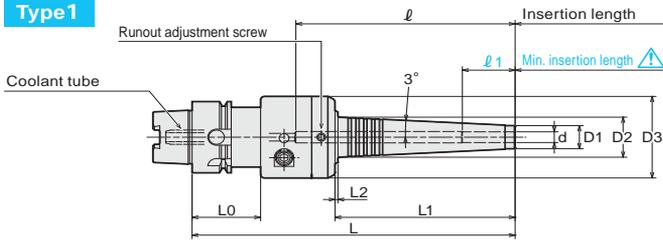


PHZ-SB

Slim Hydro "R" Zero Holder

NEW!

Slim Hydro Chuck with "R" zero runout adjustment function. Suitable for high precision cutting in a deep/narrow hole.



Caution
Strictly keep the min insertion length.

HSK

Code	Model	Type	d	L	L1	L2	D1	D2	D3	L0	ℓ	ℓ 1	Max. min ⁻¹	kg	Hex. wrench for the actuating screw (Option)	Hex. wrench for runout adjustment screw (Included)
5930 13406165	HSK40A -PHZ06SB -165	1	6	165	92	1.5	13	22.5	46	35	112	27	13,000	1.0	L-4T	L-3T-S
5930 13407165	-PHZ07SB -165	1	7	165	92	1.5	14	23.5	46	35	112	27	13,000	1.0		
5930 13408165	-PHZ08SB -165	1	8	165	92	1.5	15	24.5	46	35	112	27	13,000	1.0		
5930 13409165	-PHZ09SB -165	1	9	165	92	1.5	16	25.5	46	35	112	33	13,000	1.0		
5930 13410165	-PHZ10SB -165	1	10	165	92	1.5	17	26.5	46	35	112	33	12,000	1.0		
5930 13411165	-PHZ11SB -165	1	11	165	92	-	18	27.5	46	35	112	36	12,000	1.1		
5930 13412165	-PHZ12SB -165	1	12	165	92	-	19	28.6	46	35	112	36	12,000	1.1		
5930 75406150	HSK63A -PHZ06SB -150	2	6	150	92	1.5	13	22.5	46	-	107	27	16,000	1.3		
5930 75406180	-PHZ06SB -180	2	6	180	122	1.5	13	26.7	46	-	137	27	10,000	1.4		
5930 75407150	-PHZ07SB -150	2	7	150	92	1.5	14	23.5	46	-	107	27	16,000	1.3		
5930 75407180	-PHZ07SB -180	2	7	180	122	1.5	14	26.7	46	-	137	27	10,000	1.4		
5930 75408150	-PHZ08SB -150	2	8	150	92	1.5	15	24.5	46	-	107	27	16,000	1.3		
5930 75408180	-180	2	8	180	122	-	15	27.6	46	-	137	27	10,000	1.4		
5930 75409150	-PHZ09SB -150	2	9	150	92	1.5	16	25.5	46	-	107	33	16,000	1.3		
5930 75409180	-180	2	9	180	122	-	16	28.7	46	-	137	33	10,000	1.4		
5930 75410150	-PHZ10SB -150	2	10	150	92	1.5	17	26.5	46	-	107	33	16,000	1.3		
5930 75410180	-180	3	10	180	122	-	17	28.2	46	-	137	33	10,000	1.5		
5930 75411150	-PHZ11SB -150	2	11	150	92	-	18	27.5	46	-	107	36	16,000	1.3		
5930 75411180	-180	3	11	180	122	-	18	28.2	46	-	137	36	10,000	1.5		
5930 75412150	-PHZ12SB -150	2	12	150	92	-	19	28.6	46	-	107	36	15,000	1.3		
5930 75412180	-180	3	12	180	122	-	19	28.2	46	-	137	36	10,000	1.5		
5930 77406165	HSK100A -PHZ06SB -165	2	6	165	92	1.5	13	22.5	46	-	107	27	12,500	2.7		
5930 77406195	-195	2	6	195	122	1.5	13	26.7	46	-	137	27	9,000	2.8		
5930 77407165	-PHZ07SB -165	2	7	165	92	1.5	14	23.5	46	-	107	27	12,500	2.8		
5930 77407195	-195	2	7	195	122	1.5	14	26.7	46	-	137	27	9,000	2.9		
5930 77408165	-PHZ08SB -165	2	8	165	92	1.5	15	24.5	46	-	107	27	12,500	2.8		
5930 77408195	-195	2	8	195	122	-	15	27.6	46	-	137	27	9,000	2.9		
5930 77409165	-PHZ09SB -165	2	9	165	92	1.5	16	25.5	46	-	107	33	12,500	2.8		
5930 77409195	-195	2	9	195	122	-	16	28.7	46	-	137	33	10,000	2.9		
5930 77410165	-PHZ10SB -165	2	10	165	92	1.5	17	26.5	46	-	107	33	12,500	2.8		
5930 77410195	-195	3	10	195	122	-	17	28.2	46	-	137	33	9,000	2.9		
5930 77411165	-PHZ11SB -165	2	11	165	92	-	18	27.5	46	-	107	36	12,500	2.8		
5930 77411195	-195	3	11	195	122	-	18	28.2	46	-	137	36	9,000	3.0		
5930 77412165	-PHZ12SB -165	2	12	165	92	-	19	28.6	46	-	107	36	12,500	2.8		
5930 77412195	-195	3	12	195	122	-	19	28.2	46	-	137	36	9,000	3.0		

*HSK63A, HSK100A have manual clamp holes in the shank. Tool shank diameter tolerance must be within h6.

- 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

HSK40A - PHZ06SB - 165
Shank size I.D. Projection length

Hex. wrench

P. 81





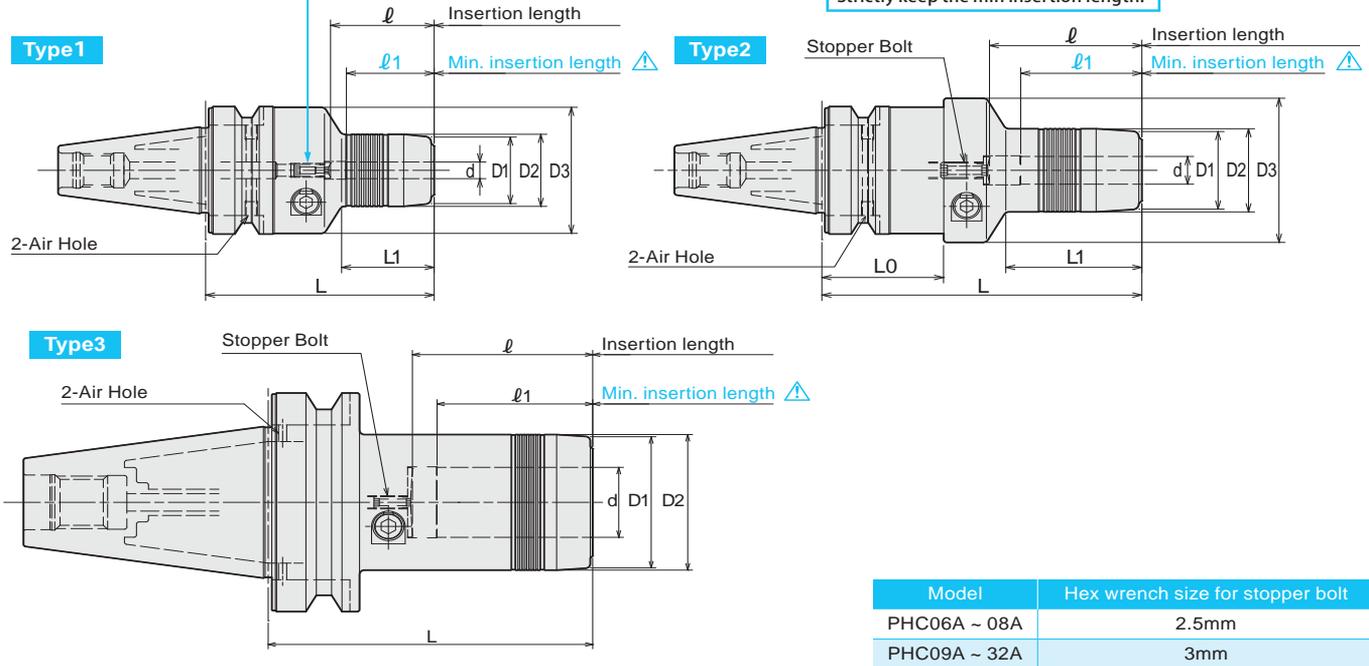
PHC-A Power Hydro Chuck

NEW!

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

Stopper bolt For PHC03A & PHC04A a stopper bolt cannot be used.

Caution Strictly keep the min insertion length.



Model	Hex wrench size for stopper bolt
PHC06A ~ 08A	2.5mm
PHC09A ~ 32A	3mm

Warning: 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.

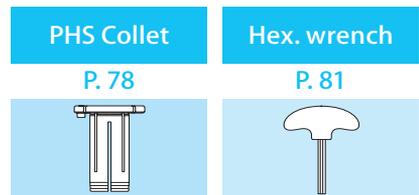
AHO (Dual contact)

Code	Model	Type	d	L	L1	D1	D2	D3	L0	l	l1	Max.min ⁻¹	kg	Wrench (Option)
3220 61103060	WBT-AHO30A -PHC03A - 60	1	3	60	19.5	-	24	46	-	27	18	40,000	0.7	L-4T
3220 61103090	- 90	1	3	90	44.5	-	24	46	-	52	18	38,000	0.8	
3220 61104065	-PHC04A - 65	1	4	65	25	-	25	46	-	29	24	40,000	0.7	
3220 61104090	- 90	1	4	90	45	-	25	46	-	49	24	38,000	0.8	
3220 61106075	-PHC06A - 75	1	6	75	30	24	26	46	-	34	29	40,000	0.7	
3220 61107075	-PHC07A - 75	1	7	75	30.5	26	28	46	-	34	29	38,000	0.8	
3220 61108075	-PHC08A - 75	1	8	75	30.5	26	28	46	-	34	29	38,000	0.8	
3220 61109090	-PHC09A - 90	1	9	90	46	28	30	46	-	55	40	36,000	0.8	
3220 61109105	-105	2	9	105	44.5	28	30	52	40	50	40	29,000	1.2	
3220 61110090	-PHC10A - 90	1	10	90	46	28	30	46	-	55	40	36,000	0.8	
3220 61110105	-105	2	10	105	44.5	28	30	52	40	50	40	29,000	1.2	
3220 61111090	-PHC11A - 90	1	11	90	47	30	32	46	-	55	40	34,000	0.9	
3220 61111105	-105	2	11	105	45	30	32	52	40	50	40	30,000	1.1	
3220 61112090	-PHC12A - 90	1	12	90	47	30	32	46	-	55	40	33,000	0.9	
3220 61112105	-105	2	12	105	45	30	32	52	40	50	40	29,000	1.1	
3220 61113090	-PHC13A - 90	1	13	90	48	34	36	46	-	55	40	33,000	0.9	
3220 61113105	-105	2	13	105	46	34	36	52	40	50	40	28,000	1.2	
3220 61114090	-PHC14A - 90	1	14	90	48	34	36	46	-	55	40	31,000	1.0	
3220 61114105	-105	2	14	105	46	34	36	52	40	50	40	27,000	1.2	
3220 61115090	-PHC15A - 90	1	15	90	48.5	36	38	46	-	55	40	31,000	1.0	
3220 61115105	-105	2	15	105	46.5	36	38	52	40	50	40	27,000	1.2	
3220 61116090	-PHC16A - 90	1	16	90	48.5	36	38	46	-	55	40	30,000	1.0	
3220 61116105	-105	2	16	105	47	36	38	52	40	50	40	26,000	1.2	
3220 61118090	NEW -PHC18A - 90	1	18	90	49	38	40	46	-	50	40	28,000	1.0	
3220 61120090	-PHC20A - 90	1	20	90	50	40	42	46	-	50	40	27,000	1.0	
3220 61120120	-120	1	20	120	70	40	42	46	-	70	40	22,000	1.3	
3220 61125090	NEW -PHC25A - 90	2	25	90	30	50	52	68	32	60	50	11,000	1.5	
3220 61132100	NEW -PHC32A -100	2	32	100	40	58	60	73	32	75	65	8,000	1.7	

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ 1	Max.min ⁻¹	kg	Wrench (Option)
3220 61303065	WBT-AHO40A -PHC03A - 65	1	3	65	19.5	-	24	46	-	27	18	20,000	1.2	L-4T
3220 61303090	- 90	1	3	90	44.5	-	24	46	-	52	18	20,000	1.3	
3220 61304070	-PHC04A - 70	1	4	70	25	-	25	46	-	29	24	20,000	1.3	
3220 61304090	- 90	1	4	90	45	-	25	46	-	49	24	20,000	1.3	
3220 61306075	-PHC06A - 75	1	6	75	30	24	26	46	-	34	29	20,000	1.3	
3220 61306105	-105	1	6	105	41	24	26	46	-	45	29	20,000	1.5	
3220 61307075	-PHC07A - 75	1	7	75	30	26	28	46	-	34	29	20,000	1.3	
3220 61307105	-105	1	7	105	41	26	28	46	-	45	29	20,000	1.4	
3220 61308075	-PHC08A - 75	1	8	75	30	26	28	46	-	34	29	20,000	1.3	
3220 61308105	-105	1	8	105	41	26	28	46	-	45	29	20,000	1.6	
3220 61309090	-PHC09A - 90	1	9	90	44	28	30	52	-	50	40	20,000	1.4	
3220 61309120	-120	1	9	120	64	28	30	52	-	70	40	20,000	1.7	
3220 61310090	-PHC10A - 90	1	10	90	44	28	30	52	-	50	40	20,000	1.4	
3220 61310120	-120	1	10	120	64	28	30	52	-	70	40	20,000	1.7	
3220 61311090	-PHC11A - 90	1	11	90	45	30	32	52	-	50	40	20,000	1.4	
3220 61311120	-120	1	11	120	65	30	32	52	-	70	40	20,000	1.7	
3220 61312090	-PHC12A - 90	1	12	90	45	30	32	52	-	50	40	20,000	1.4	
3220 61312120	-120	1	12	120	65	30	32	52	-	70	40	20,000	1.7	
3220 61313090	-PHC13A - 90	1	13	90	46	34	36	52	-	50	40	20,000	1.5	
3220 61313120	-120	1	13	120	66	34	36	52	-	70	40	20,000	1.8	
3220 61314090	-PHC14A - 90	1	14	90	46	34	36	52	-	50	40	20,000	1.5	
3220 61314120	-120	1	14	120	66	34	36	52	-	70	40	20,000	1.8	
3220 61315090	-PHC15A - 90	1	15	90	46	36	38	52	-	50	40	20,000	1.5	
3220 61315120	-120	1	15	120	66	36	38	52	-	70	40	20,000	1.8	
3220 61316090	-PHC16A - 90	1	16	90	46	36	38	52	-	50	40	20,000	1.5	
3220 61316120	-120	1	16	120	66	36	38	52	-	70	40	20,000	1.8	
3220 61318090	NEW -PHC18A - 90	1	18	90	49	38	40	46	-	50	40	20,000	1.5	
3220 61318120	NEW -120	1	18	120	69	38	40	46	-	70	40	20,000	1.8	
3220 61320090	-PHC20A - 90	1	20	90	49	40	42	46	-	50	40	20,000	1.5	
3220 61320120	-120	1	20	120	69	40	42	46	-	70	40	20,000	1.8	
3220 61325105	-PHC25A -105	1	25	105	59	50	52	62	-	60	50	20,000	2.1	
3220 61325135	-135	1	25	135	79	50	52	62	-	80	50	20,000	2.5	
3220 61332120	-PHC32A -120	3	32	120	-	60	62	-	-	75	65	20,000	2.6	
3220 61332150	-150	3	32	150	-	60	62	-	-	80	65	20,000	3.2	
3220 61506090	WBT-AHO50A -PHC06A - 90	1	6	90	30	24	26	46	-	34	29	15,000	3.9	
3220 61506120	-120	1	6	120	41	24	26	46	-	45	29	15,000	4.1	
3220 61506150	-150	1	6	150	41	24	26	46	-	45	29	15,000	4.4	
3220 61507090	-PHC07A - 90	1	7	90	30	26	28	46	-	34	29	15,000	3.9	
3220 61507120	-120	1	7	120	41	26	28	46	-	45	29	15,000	4.1	
3220 61507150	-150	1	7	150	41	26	28	46	-	45	29	15,000	4.5	
3220 61508090	-PHC08A - 90	1	8	90	30	26	28	46	-	34	29	15,000	3.9	
3220 61508120	-120	1	8	120	41	26	28	46	-	45	29	15,000	4.1	
3220 61508150	-150	1	8	150	41	26	28	46	-	45	29	15,000	4.5	
3220 61509105	-PHC09A -105	1	9	105	44	28	30	52	-	50	40	15,000	4.0	
3220 61509135	-135	1	9	135	64	28	30	52	-	70	40	15,000	4.3	
3220 61509165	-165	1	9	165	64	28	30	52	-	70	40	15,000	4.7	
3220 61510105	-PHC10A -105	1	10	105	44	28	30	52	-	50	40	15,000	4.1	
3220 61510135	-135	1	10	135	64	28	30	52	-	70	40	15,000	4.3	
3220 61510165	-165	1	10	165	64	28	30	52	-	70	40	15,000	4.7	
3220 61511105	-PHC11A -105	1	11	105	45	30	32	52	-	50	40	15,000	4.1	
3220 61511135	-135	1	11	135	65	30	32	52	-	70	40	15,000	4.3	
3220 61511165	-165	1	11	165	65	30	32	52	-	70	40	15,000	4.7	
3220 61512105	-PHC12A -105	1	12	105	45	30	32	52	-	50	40	15,000	4.1	
3220 61512135	-135	1	12	135	65	30	32	52	-	70	40	15,000	4.3	
3220 61512165	-165	1	12	165	65	30	32	52	-	70	40	15,000	4.7	
3220 61513105	-PHC13A -105	1	13	105	46	34	36	52	-	50	40	15,000	4.2	
3220 61513135	-135	1	13	135	66	34	36	52	-	70	40	15,000	4.4	
3220 61513165	-165	1	13	165	66	34	36	52	-	70	40	15,000	4.8	
3220 61514105	-PHC14A -105	1	14	105	46	34	36	52	-	50	40	15,000	4.2	
3220 61514135	-135	1	14	135	66	34	36	52	-	70	40	15,000	4.4	
3220 61514165	-165	1	14	165	66	34	36	52	-	70	40	15,000	4.8	
3220 61515105	-PHC15A -105	1	15	105	46	36	38	52	-	50	40	15,000	4.1	
3220 61515135	-135	1	15	135	66	36	38	52	-	70	40	15,000	4.4	
3220 61515165	-165	1	15	165	66	36	38	52	-	70	40	15,000	4.8	
3220 61516105	-PHC16A -105	1	16	105	46	36	38	52	-	50	40	15,000	4.1	
3220 61516135	-135	1	16	135	66	36	38	52	-	70	40	15,000	4.4	
3220 61516165	-165	1	16	165	66	36	38	52	-	70	40	15,000	4.8	
3220 61520105	-PHC20A -105	1	20	105	49	40	42	46	-	50	40	15,000	4.1	
3220 61520135	-135	1	20	135	69	40	42	46	-	70	40	15,000	4.4	
3220 61520165	-165	1	20	165	69	40	42	46	-	70	40	15,000	4.7	
3220 61525120	-PHC25A -120	1	25	120	59	50	52	62	-	64	50	15,000	4.7	
3220 61525150	-150	1	25	150	79	50	52	62	-	80	50	15,000	5.2	
3220 61525165	-165	1	25	165	79	50	52	62	-	80	50	15,000	5.5	
3220 61532135	-PHC32A -135	3	32	135	-	60	62	-	-	75	65	15,000	5.2	
3220 61532165	-165	3	32	165	-	60	62	-	-	80	65	15,000	5.8	

AHO (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.
- 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 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

WBT-AHO50A - PHC12A - 105

AHO Shank size

I.D.

Projection length

Inch size upon request

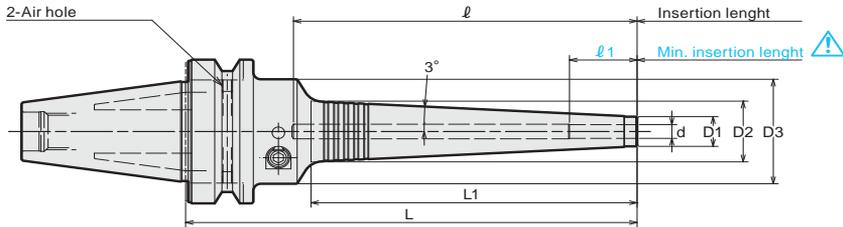




PHC·SB Slim Hydro Chuck

NEW!

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 (Dual contact)

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	Max. min ⁻¹	kg	Wrench (Option)
3250 62103070	WBT-AHO30A -PHC03SB -70	3	70	28	11	14.0	46	(93)	16	40,000	0.6	
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	

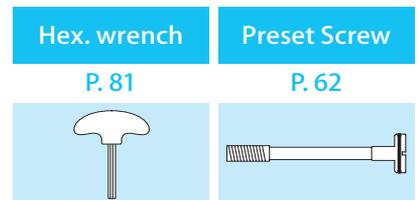
L-4T

L-4T

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	Max. min ⁻¹	kg	Wrench (Option)
3250 62308090	WBT-AHO40A -PHC08SB -90	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	-PHC09SB -105	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	-PHC10SB -105	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	-PHC11SB -105	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	-PHC12SB -105	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	-PHC16SB -135	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	-PHC20SB -135	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	-PHC25SB -135	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	WBT-AHO50A -PHC03SB -150	3	150	84	11	19.9	46	(130)	16	15,000	3.1	
3250 62503195	-195	3	195	84	11	19.9	46	(175)	16	12,000	4.3	
3250 62504150	-PHC04SB -150	4	150	84	11	19.9	46	(130)	19	15,000	3.1	
3250 62504195	-195	4	195	84	11	19.9	46	(175)	19	12,000	4.3	
3250 62506105	-PHC06SB -105	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	-PHC07SB -105	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	-PHC08SB -105	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	-PHC09SB -150	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	-PHC10SB -150	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	-PHC11SB -150	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	-PHC12SB -150	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	-PHC16SB -150	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	-PHC20SB -150	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	-PHC25SB -150	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 (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

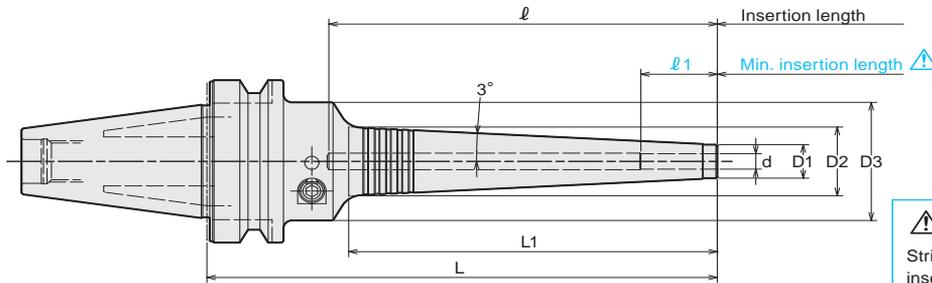




PHC·SB-C Slim Hydro Chuck Blaster

NEW!

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 (Dual contact)

Code	Model	d	L	L1	D1	D2	D3	l	l1	Max. min ⁻¹	kg	Wrench (Option)	
3630 62103085	WBT-AHO30A -PHC03SB - 85-C	3	85	37	12	15.9	46	(108)	16	40,000	0.6	L-4T	
3630 62103130	-130-C	3	130	84	12	20.9	46	(153)	16	23,000	0.9		
3630 62104085	-PHC04SB - 85-C	4	85	37	12	15.9	46	(108)	19	40,000	0.6		
3630 62104130	-130-C	4	130	84	12	20.9	46	(153)	19	22,000	0.9		
3630 62106090	-PHC06SB - 90-C	6	90	38	14	18.0	46	58	27	30,000	0.9		
3630 62106135	-135-C	6	135	84	14	22.9	46	92	27	21,000	1.0		
3630 62108090	-PHC08SB - 90-C	8	90	38	16	20.0	46	58	27	27,000	0.9		
3630 62108135	-135-C	8	135	84	16	24.9	46	92	27	20,000	1.0		
3630 62110105	-PHC10SB -105-C	10	105	53	18	23.6	46	73	33	27,000	0.9		
3630 62110135	-135-C	10	135	84	18	26.9	46	92	33	20,000	1.0		
3630 62112105	-PHC12SB -105-C	12	105	53	20	25.6	46	73	36	26,000	0.9		
3630 62112135	-135-C	12	135	84	20	28.9	46	92	36	19,000	1.0		
3630 62303090	WBT-AHO40A -PHC03SB - 90-C	3	90	37	12	15.9	46	(125)	16	20,000	1.1	L-4T	
3630 62303135	-135-C	3	135	84	12	20.9	46	(170)	16	20,000	1.5		
3630 62304090	-PHC04SB - 90-C	4	90	37	12	15.9	46	(125)	19	20,000	1.1		
3630 62304135	-135-C	4	135	84	12	20.9	46	(170)	19	20,000	1.5		
3630 62306090	-PHC06SB - 90-C	6	90	38	14	18.0	46	53	27	20,000	1.4		
3630 62306135	-135-C	6	135	84	14	22.9	46	92	27	20,000	1.5		
3630 62308090	-PHC08SB - 90-C	8	90	38	16	20.0	46	53	27	20,000	1.5		
3630 62308135	-135-C	8	135	84	16	24.9	46	92	27	20,000	1.5		
3630 62310105	-PHC10SB -105-C	10	105	53	18	23.6	46	68	33	20,000	1.4		
3630 62310135	-135-C	10	135	84	18	26.9	46	92	33	20,000	1.5		
3630 62312105	-PHC12SB -105-C	12	105	53	20	25.6	46	68	36	20,000	1.4		
3630 62312135	-135-C	12	135	84	20	28.9	46	92	36	20,000	1.5		
3630 62316135	-PHC16SB -135-C	16	135	84	24	32.9	52.5	91	40	20,000	1.7	L-5T	
3630 62316165	-165-C	16	165	114	24	36.0	52.5	120	40	13,000	1.9		
3630 62320135	-PHC20SB -135-C	20	135	84	29	37.9	60	91	40	18,000	2.2		
3630 62320180	-180-C	20	180	129	29	42.6	60	135	40	12,000	2.5		
3630 62325135	-PHC25SB -135-C	25	135	84	38	46.9	60	91	50	16,000	2.2		
3630 62325180	-180-C	25	180	129	38	51.6	60	135	50	11,000	2.6		
3630 62503150	WBT-AHO50A -PHC03SB -150-C NEW	3	150	84	12	20.9	46	(130)	16	15,000	3.2		L-4T
3630 62503195	-195-C NEW	3	195	84	12	20.9	46	(175)	16	12,000	4.4		
3630 62504150	-PHC04SB -150-C NEW	4	150	84	12	20.9	46	(130)	19	15,000	3.2		
3630 62504195	-195-C NEW	4	195	84	12	20.9	46	(175)	19	12,000	4.4		
3630 62506150	-PHC06SB -150-C	6	150	84	14	22.9	46	92	27	15,000	4.1		
3630 62506195	-195-C	6	195	130	14	27.7	46	137	27	10,000	4.2		
3630 62508150	-PHC08SB -150-C	8	150	84	16	24.9	46	92	27	15,000	4.1		
3630 62508195	-195-C	8	195	130	16	29.7	46	137	27	10,000	4.2		
3630 62510150	-PHC10SB -150-C	10	150	84	18	26.9	46	92	33	15,000	4.1		
3630 62510195	-195-C	10	195	130	18	31.7	46	137	33	10,000	4.3		
3630 62512150	-PHC12SB -150-C	12	150	84	20	28.9	46	92	36	15,000	4.1		
3630 62512195	-195-C	12	195	130	20	33.7	46	137	36	10,000	4.3		
3630 62516150	-PHC16SB -150-C	16	150	84	24	32.9	52.5	91	40	15,000	4.2	L-5T	
3630 62516195	-195-C	16	195	129	24	37.6	52.5	135	40	10,000	4.6		
3630 62520150	-PHC20SB -150-C	20	150	84	29	37.9	60	91	40	15,000	4.7		
3630 62520195	-195-C	20	195	129	29	42.6	60	135	40	12,000	5.0		
3630 62525150	-PHC25SB -150-C	25	150	84	38	46.9	60	91	50	15,000	4.8		
3630 62525195	-195-C	25	195	129	38	51.6	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

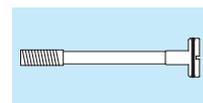
WBT-AHO50A - PHC12SB - 150 - C

Shank size I.D. Projection length

Hex. wrench
P. 81



Preset Screw
P. 62



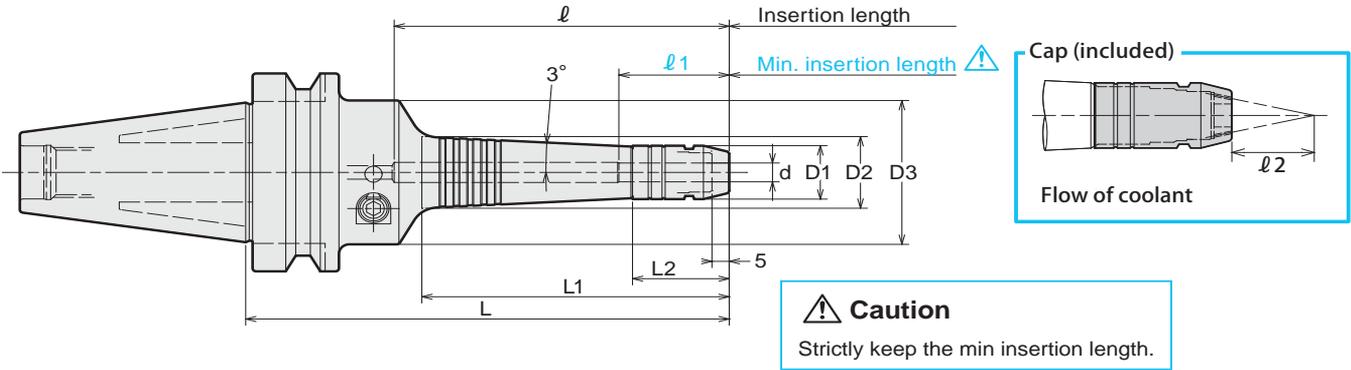


PHC·SB-NC

Slim Hydro Chuck Blaster (With cap)



Perfect choice for tight space applications, such as endmill finishing, drilling and reaming on 5-axis machines. Minimize centrifugal force and feed coolant accurately.



! 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 (Dual Contact)

Code	Model	d	L	L1	L2	D1	D2	D3	ℓ	ℓ 1	ℓ 2	Max. min ⁻¹	kg	Wrench (Option)
3630 66104135	WBT-AHO30A -PHC04SB -135-NC	4	135	89	33	15	20.9	46	(158)	24	20	22,000	0.9	L-4T
3630 66106140	-PHC06SB -140-NC	6	140	89	28	17	22.9	46	97	32	30	21,000	1.0	
3630 66108140	-PHC08SB -140-NC	8	140	89	28	19	24.9	46	97	32	40	20,000	1.0	
3630 66110110	-PHC10SB -110-NC	10	110	58	33	21	23.6	46	78	38	50	27,000	0.9	
3630 66110140	-140-NC	10	140	89	33	21	26.9	46	97	38	50	20,000	1.0	
3630 66112110	-PHC12SB -110-NC	12	110	58	33	23	25.6	46	78	41	60	26,000	0.9	
3630 66112140	-140-NC	12	140	89	33	23	28.9	46	97	41	60	19,000	1.0	L-4T
3630 66304140	WBT-AHO40A -PHC04SB -140-NC	4	140	89	33	15	20.9	46	(175)	24	20	20,000	1.5	
3630 66306140	-PHC06SB -140-NC	6	140	89	28	17	22.9	46	97	32	30	20,000	1.5	
3630 66308140	-PHC08SB -140-NC	8	140	89	28	19	24.9	46	97	32	40	20,000	1.5	
3630 66310110	-PHC10SB -110-NC	10	110	58	33	21	23.6	46	73	38	50	20,000	1.4	
3630 66310140	-140-NC	10	140	89	33	21	26.9	46	97	38	50	20,000	1.5	
3630 66312110	-PHC12SB -110-NC	12	110	58	33	23	25.6	46	73	41	60	20,000	1.4	L-4T
3630 66312140	-140-NC	12	140	89	33	23	28.9	46	97	41	60	20,000	1.5	
3630 66506155	WBT-AHO50A -PHC06SB -155-NC	6	155	89	28	17	22.9	46	97	32	30	15,000	4.1	
3630 66506200	-200-NC	6	200	135	28	17	27.7	46	142	32	30	10,000	4.2	
3630 66508155	-PHC08SB -155-NC	8	155	89	28	19	24.9	46	97	32	40	15,000	4.1	
3630 66508200	-200-NC	8	200	135	28	19	29.7	46	142	32	40	10,000	4.2	
3630 66510155	-PHC10SB -155-NC	10	155	89	33	21	26.9	46	97	38	50	15,000	4.1	L-4T
3630 66510200	-200-NC	10	200	135	33	21	31.7	46	142	38	50	10,000	4.3	
3630 66512155	-PHC12SB -155-NC	12	155	89	33	23	28.9	46	97	41	60	15,000	4.1	
3630 66512200	-200-NC	12	200	135	33	23	33.7	46	142	41	60	10,000	4.3	

- 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.

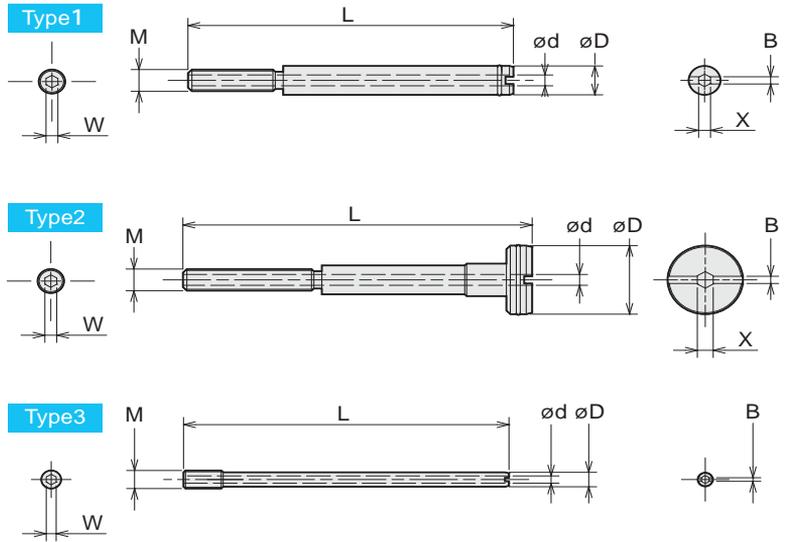
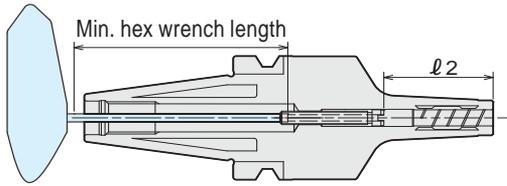
Hex. wrench P. 81	Preset Screw P. 62	Cap P. 81

Ordering Example
WBT-AHO50A - PHC12SB - 155-NC
 AHO Shank size I.D. Projection length

Inch size upon request



Preset Screw for Slim Hydro Chuck



Shank size	Chuck ID	Min. hex wrench length
WBT-AHO30A	ø3 ~ ø 4	44mm
	ø6 ~ ø12	90mm
WBT-AHO40A	ø3 ~ ø 4	59mm
	ø6 ~ ø25	109mm
WBT-AHO50A	ø6 ~ ø25	160mm

AHO (Dual contact)

Preset screw				Matched chuck		Adjustment range l2		Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model			PHC-SB	PHC-SB-NC											
370401030010	PHCSB -P03 -01	WBT-AHO30A	-PHC03SB -70	16 ~ 30	—	14	3	3	—	1	3.2	—	63	M8 P=1		
370401030020	PHCSB -P03 -02		-85, -85-C	16 ~ 30	—	14	3	3	—	1	3.2	—	78			
370401030030	PHCSB -P03 -03		-130, -130-C	16 ~ 30	—	14	3	3	—	1	3.2	—	123			
370401040010	PHCSB -P04 -01		-PHC04SB -70	19 ~ 30	—	11	3	3	—	1	3.8	—	63			
370401040020	PHCSB -P04 -02		-85, -85-C	19 ~ 30	—	11	3	3	—	1	3.8	—	78			
370401040030	PHCSB -P04 -03		-130, -130-C, -135-NC	19 ~ 30	24 ~ 35	11	3	3	—	1	3.8	—	123			
370401060010	PHCSB -P06 -01		-PHC06SB -90, -90-C	27 ~ 53	—	26	1	2.5	—	2	6	2.5	35			
370401060020	PHCSB -P06 -02		-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74			
370401060030	PHCSB -P06 -03		-150	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89			
370401060040	PHCSB -P06 -04		-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104			
370401060050	PHCSB -P06 -05		-180	27 ~ 61	—	34	1	2.5	—	2	5.5	2.5	115			
370401060010	PHCSB -P06 -01		-PHC07SB -90	27 ~ 53	—	26	1	2.5	—	2	6	2.5	35			
370401070020	PHCSB -P07 -02		-135	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75			
370401070030	PHCSB -P07 -03		-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90			
370401070040	PHCSB -P07 -04		-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105			
370401070050	PHCSB -P07 -05		-180	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115			
370401060010	PHCSB -P06 -01		-PHC08SB -90, -90-C	27 ~ 53	—	26	1	2.5	—	2	6	2.5	35			
370401080020	PHCSB -P08 -02		-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75			
370401080030	PHCSB -P08 -03		-150	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90			
370401080040	PHCSB -P08 -04		-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105			
370401080050	PHCSB -P08 -05		-180	27 ~ 61	—	34	2	2.5	3	2	7.5	2	115			
370401090010	PHCSB -P09 -01		-PHC09SB -105	33 ~ 62	—	29	1	2.5	3	2	9	2.5	45			
370401090020	PHCSB -P09 -02		-135	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69			
370401090030	PHCSB -P09 -03		-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84			
370401090040	PHCSB -P09 -04		-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99			
370401090050	PHCSB -P09 -05		-180	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110			
370401090010	PHCSB -P09 -01		-PHC10SB -105, -105-C, -110-NC	33 ~ 62	38 ~ 67	29	1	2.5	3	2	9	2.5	45			
370401100020	PHCSB -P10 -02		-135, -135-C, -140-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69			
370401100030	PHCSB -P10 -03		-150	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84			
370401100040	PHCSB -P10 -04		-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99			
370401100050	PHCSB -P10 -05		-180	33 ~ 66	—	33	2	2.5	3	2	9.5	2.5	110			
370401090010	PHCSB -P09 -01		-PHC11SB -105	36 ~ 62	—	26	1	2.5	3	2	9	2.5	45			
370401110020	PHCSB -P11 -02		-135	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67			
370401110030	PHCSB -P11 -03		-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82			
370401110040	PHCSB -P11 -04		-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97			
370401110050	PHCSB -P11 -05		-180	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108			
370401090010	PHCSB -P09 -01		-PHC12SB -105, -105-C, -110-NC	36 ~ 62	41 ~ 67	26	1	2.5	3	2	9	2.5	45			
370401120020	PHCSB -P12 -02		-135, -135-C, -140-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67			
370401120030	PHCSB -P12 -03		-150	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82			
370401120040	PHCSB -P12 -04		-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97			
370401120050	PHCSB -P12 -05		-180	36 ~ 68	—	32	2	2.5	3	2	11.5	2.5	108			
370401030040	PHCSB -P03 -04	WBT-AHO40A	-PHC03SB -75	16 ~ 37	—	21	3	3	—	1	3.2	—	73	M8 P=1		
370401030050	PHCSB -P03 -05		-90, -90-C	16 ~ 37	—	21	3	3	—	1	3.2	—	85			
370401030060	PHCSB -P03 -06		-135, -135-C	16 ~ 37	—	21	3	3	—	1	3.2	—	130			
370401040040	PHCSB -P04 -04		-PHC04SB -75	19 ~ 37	—	18	3	3	—	1	3.8	—	73			
370401040050	PHCSB -P04 -05		-90, -90-C	19 ~ 37	—	18	3	3	—	1	3.8	—	88			
370401040060	PHCSB -P04 -06		-135, -135-C, -140-NC	19 ~ 37	24 ~ 42	18	3	3	—	1	3.8	—	133			

Preset screw		Matched chuck	Adjustment range ℓ2		Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model		PHC-SB	PHC-SB-NC									
370401060010	PHCSB -P06 -01	-PHC06SB -90, -90-C	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	M5 P=0.8
370401060020	PHCSB -P06 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74	
370401060030	PHCSB -P06 -03	-150	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89	
370401060040	PHCSB -P06 -04	-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104	
370401060050	PHCSB -P06 -05	-180	27 ~ 61	—	34	1	2.5	—	2	5.5	2.5	115	
370401060010	PHCSB -P06 -01	-PHC07SB -90	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
370401070020	PHCSB -P07 -02	-135	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75	
370401070030	PHCSB -P07 -03	-150	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90	
370401070040	PHCSB -P07 -04	-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105	
370401070050	PHCSB -P07 -05	-180	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115	
370401060010	PHCSB -P06 -01	-PHC08SB -90, -90-C	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
370401080020	PHCSB -P08 -02	-135, -135-C, -140-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75	
370401080030	PHCSB -P08 -03	-150	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90	
370401080040	PHCSB -P08 -04	-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105	
370401080050	PHCSB -P08 -05	-180	27 ~ 61	—	34	2	2.5	3	2	7.5	2	115	
370401090010	PHCSB -P09 -01	-PHC09SB -105	33 ~ 57	—	24	1	2.5	3	2	9	2.5	45	
370401090020	PHCSB -P09 -02	-135	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69	
370401090030	PHCSB -P09 -03	-150	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84	
370401090040	PHCSB -P09 -04	-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99	
370401090050	PHCSB -P09 -05	-180	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110	
370401090010	PHCSB -P09 -01	-PHC10SB -105, -105-C, -110-NC	33 ~ 57	38 ~ 62	24	1	2.5	3	2	9	2.5	45	
370401100020	PHCSB -P10 -02	-135, -135-C, -140-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69	
370401100030	PHCSB -P10 -03	-150	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84	
370401100040	PHCSB -P10 -04	-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99	
370401100050	PHCSB -P10 -05	-180	33 ~ 66	—	33	2	2.5	3	2	9.5	2.5	110	
370401090010	PHCSB -P09 -01	-PHC11SB -105	36 ~ 57	—	21	1	2.5	3	2	9	2.5	45	
370401110020	PHCSB -P11 -02	-135	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67	
370401110030	PHCSB -P11 -03	-150	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
370401110040	PHCSB -P11 -04	-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
370401110050	PHCSB -P11 -05	-180	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108	
370401090010	PHCSB -P09 -01	-PHC12SB -105, -105-C, -110-NC	36 ~ 57	41 ~ 62	21	1	2.5	3	2	9	2.5	45	
370401120020	PHCSB -P12 -02	-135, -135-C, -140-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67	
370401120030	PHCSB -P12 -03	-150	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
370401120040	PHCSB -P12 -04	-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
370401120050	PHCSB -P12 -05	-180	36 ~ 68	—	32	2	2.5	3	2	11.5	2.5	108	
370401160010	PHCSB -P16 -01	-PHC16SB -135, -135-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60	
370401160020	PHCSB -P16 -02	-165, -165-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87	
370401160030	PHCSB -P16 -03	-180	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102	
370401200010	PHCSB -P20 -01	-PHC20SB -135, -135-C	40 ~ 85	—	45	1	3	3	2	19	3	57	
370401200020	PHCSB -P20 -02	-165	40 ~ 90	—	50	2	3	3	2	19.5	3	86	
370401200030	PHCSB -P20 -03	-180, -180-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101	
370401250010	PHCSB -P25 -01	-PHC25SB -135, -135-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47	
370401250020	PHCSB -P25 -02	-165	50 ~ 99	—	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB -P25 -03	-180, -180-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91	
370401060010	PHCSB -P06 -01	WBT-AHO50A -PHC06SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	M5 P=0.8
370401060020	PHCSB -P06 -02	-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	74	
370401060030	PHCSB -P06 -03	-165	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	89	
370401060040	PHCSB -P06 -04	-180	27 ~ 57	—	30	1	2.5	—	2	5.5	2.5	104	
370401060050	PHCSB -P06 -05	-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	1	2.5	—	2	5.5	2.5	115	
370401060010	PHCSB -P06 -01	-PHC07SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
370401070020	PHCSB -P07 -02	-150	27 ~ 61	—	34	2	2.5	—	2	6.5	2	75	
370401070030	PHCSB -P07 -03	-165	27 ~ 56	—	29	2	2.5	—	2	6.5	2	90	
370401070040	PHCSB -P07 -04	-180	27 ~ 56	—	29	2	2.5	—	2	6.5	2	105	
370401070050	PHCSB -P07 -05	-195	27 ~ 61	—	34	2	2.5	—	2	6.5	2	115	
370401060010	PHCSB -P06 -01	-PHC08SB -105	27 ~ 48	—	21	1	2.5	—	2	6	2.5	35	
370401080020	PHCSB -P08 -02	-150, -150-C, -155-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	75	
370401080030	PHCSB -P08 -03	-165	27 ~ 56	—	29	2	2.5	3	2	7.5	2	90	
370401080040	PHCSB -P08 -04	-180	27 ~ 56	—	29	2	2.5	3	2	7.5	2	105	
370401080050	PHCSB -P08 -05	-195, -195-C, -200-NC	27 ~ 61	32 ~ 66	34	2	2.5	3	2	7.5	2	115	
370401090020	PHCSB -P09 -02	-PHC09SB -150	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	69	
370401090030	PHCSB -P09 -03	-165	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	84	
370401090040	PHCSB -P09 -04	-180	33 ~ 62	—	29	2	2.5	3	2	8.5	2.5	99	
370401090050	PHCSB -P09 -05	-195	33 ~ 66	—	33	2	2.5	3	2	8.5	2.5	110	
370401100020	PHCSB -P10 -02	-PHC10SB -150, -150-C, -155-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	69	
370401100030	PHCSB -P10 -03	-165	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	84	
370401100040	PHCSB -P10 -04	-180	33 ~ 62	—	29	2	2.5	3	2	9.5	2.5	99	
370401100050	PHCSB -P10 -05	-195, -195-C, -200-NC	33 ~ 66	38 ~ 71	33	2	2.5	3	2	9.5	2.5	110	
370401110020	PHCSB -P11 -02	-PHC11SB -150	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	67	
370401110030	PHCSB -P11 -03	-165	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	82	
370401110040	PHCSB -P11 -04	-180	36 ~ 64	—	28	2	2.5	3	2	10.5	2.5	97	
370401110050	PHCSB -P11 -05	-195	36 ~ 68	—	32	2	2.5	3	2	10.5	2.5	108	
370401120020	PHCSB -P12 -02	-PHC12SB -150, -150-C, -155-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	67	
370401120030	PHCSB -P12 -03	-165	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	82	
370401120040	PHCSB -P12 -04	-180	36 ~ 64	—	28	2	2.5	3	2	11.5	2.5	97	
370401120050	PHCSB -P12 -05	-195, -195-C, -200-NC	36 ~ 68	41 ~ 73	32	2	2.5	3	2	11.5	2.5	108	
370401160010	PHCSB -P16 -01	-PHC16SB -150, -150-C	40 ~ 80	—	40	1	2.5	3	2	15.5	2.5	60	
370401160020	PHCSB -P16 -02	-180	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	87	
370401160030	PHCSB -P16 -03	-195, -195-C	40 ~ 82	—	42	2	2.5	3	2	15.5	2.5	102	
370401200010	PHCSB -P20 -01	-PHC20SB -150, -150-C	40 ~ 85	—	45	1	3	3	2	19	3	57	
370401200020	PHCSB -P20 -02	-180	40 ~ 90	—	50	2	3	3	2	19.5	3	86	
370401200030	PHCSB -P20 -03	-195, -195-C	40 ~ 90	—	50	2	3	3	2	19.5	3	101	
370401250010	PHCSB -P25 -01	-PHC25SB -150, -150-C	50 ~ 85	—	35	1	3	3	2	24.5	3	47	
370401250020	PHCSB -P25 -02	-180	50 ~ 99	—	49	2	3	3	2	24.5	3	76	
370401250030	PHCSB -P25 -03	-195, -195-C	50 ~ 100	—	50	2	3	3	2	24.5	3	91	

AHO (Dual Contact)

*For WBT-AHO50A-PHC03SB(-C) and WBT-AHO50A-PHC04SB(-C) a preset screw cannot be used.



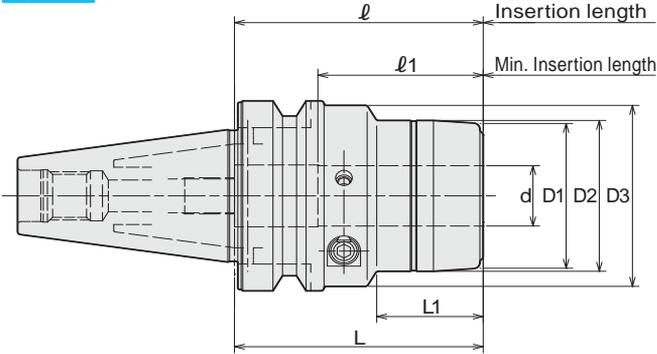


PHC·H Hydro Chuck Omega Ω

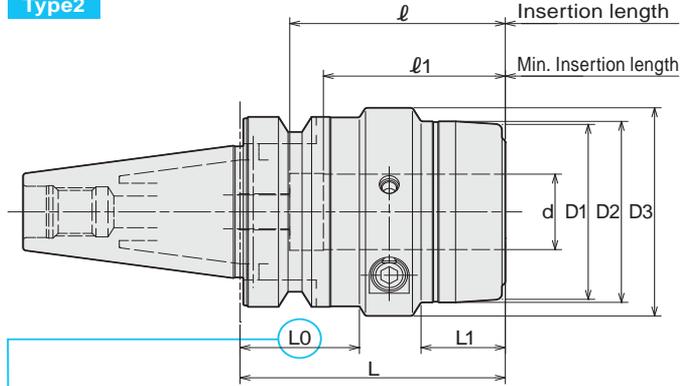
NEW!

High Rigidity Hydro Chuck is the best holder for high efficiency rough machining.

Type 1



Type 2



Caution

Take caution against A.T.C. arm and tool magazine interference.

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 (Dual contact)

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	Max.min ⁻¹	kg	Wrench (Option)
3320 60316075	WBT-AHO40A -PHC16H -75	1	16	75	27	42	44	56	-	80	45	20,000	1.5	L-4T
3320 60320075	-PHC20H -75	1	20	75	32	48	50	60	-	75	50	20,000	1.6	
3320 60320105	-105	1	20	105	32	48	50	60	-	95	50	20,000	2.2	
3320 60325080	-PHC25H -80	2	25	80	25	58	60	69	36	65	55	20,000	1.8	L-5T
3320 60325105	-105	2	25	105	35	58	60	69	41	90	55	20,000	2.4	
3320 60332105	-PHC32H -105	2	32	105	40	63	65	75	41	110	65	20,000	2.4	
3320 60332135	-135	2	32	135	47	63	65	75	41	115	65	20,000	3.2	
3320 60516075	WBT-AHO50A -PHC16H -75	1	16	75	17	-	44	56	-	75	45	15,000	4.0	L-4T
3320 60516105	-105	1	16	105	27	42	44	56	-	105	45	15,000	4.5	
3320 60520075	-PHC20H -75	1	20	75	17	-	50	60	-	80	50	15,000	4.1	
3320 60520105	-105	1	20	105	32	48	50	60	-	110	50	15,000	4.6	L-5T
3320 60525085	-PHC25H -85	1	25	85	17	-	60	69	-	80	55	15,000	4.2	
3320 60525105	-105	1	25	105	35	58	60	69	-	110	55	15,000	4.8	
3320 60525135	-135	1	25	135	35	58	60	69	-	110	55	15,000	5.6	
3320 60532105	PHC32H -105	1	32	105	47	63	65	75	-	82	65	15,000	4.7	
3320 60532135	-135	1	32	135	47	63	65	75	-	110	65	15,000	5.6	
3320 60542105	PHC42H -105	1	42	105	46	78	80	90	-	150	73	15,000	5.0	L-6T
3320 60542135	-135	1	42	135	52	78	80	90	-	110	73	15,000	6.3	

1. Tool shank diameter tolerance must be within h7.
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
2. PHC20H and PHC32H have pin holes for collet with stopper pin on its body.
3. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.

Ordering Example

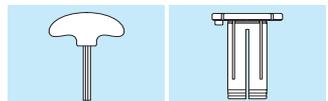
WBT-AHO50A - PHC16H - 75
 AHO Shank size I.D. Projection length

Inch size upon request

Hex. wrench PHS·H Collet

P. 81

P. 79

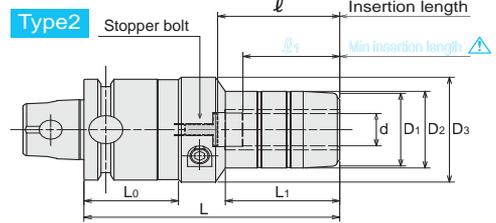
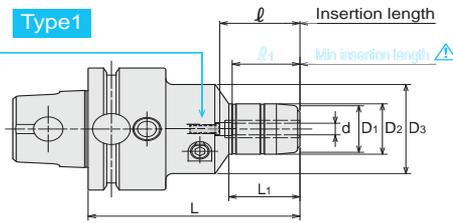




PHC-A Power Hydro Chuck

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

Stopper bolt
For PHC03A & PHC04A a stopper bolt cannot be used.



Caution : Strictly keep the min insertion length.

Low Pressure Code	High Pressure Code	Description	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	kg	Max. min ⁻¹	Wrench (sold separate)	
—	139011103070	UTS5040 -PHC03A -70-H	1	3	70	19.8	—	24	46	—	27	18	0.8	25000	L-4T	
—	139011104075	-PHC04A -75-H	1	4	75	25.1	—	25	46	—	28	24	0.8	25000		
—	139011106090	-PHC06A -90-H	1	6	90	30	24	26	46	—	34	29	1.0	25000		
—	139011107090	-PHC07A -90-H	1	7	90	30	26	28	46	—	34	29	1.0	25000		
—	139011108090	-PHC08A -90-H	1	8	90	30	26	28	46	—	34	29	1.0	25000		
—	139011109105	-PHC09A -105-H	2	9	105	44	28	30	52	38	50	40	1.1	24000		
—	139011110105	-PHC10A -105-H	2	10	105	44	28	30	52	38	50	40	1.1	23000		
—	139011111105	-PHC11A -105-H	2	11	105	45	30	32	52	38	50	40	1.1	23000		
—	139011112105	-PHC12A -105-H	2	12	105	45	30	32	52	38	50	40	1.1	23000		
—	139011113105	-PHC13A -105-H	2	13	105	46	34	36	52	38	50	40	1.2	22000		
—	139011114105	-PHC14A -105-H	2	14	105	46	34	36	52	38	50	40	1.2	22000		
—	139011115105	-PHC15A -105-H	2	15	105	46	36	38	52	38	50	40	1.2	21000		
—	139011116105	-PHC16A -105-H	2	16	105	46	36	38	52	38	50	40	1.2	20000		
—	139011120105	-PHC20A -105-H	1	20	105	49	40	42	46	—	50	40	1.2	19000		
139010203075	139011203075	UTS6350 -PHC03A -75	1	3	75	19.8	—	24	46	—	27	18	1.2	20000		L-4T
139010204080	139011204080	-PHC04A -80	1	4	80	25.1	—	25	46	—	29	24	1.2	20000		
139010206090	139011206090	-PHC06A -90	1	6	90	30	24	26	46	—	34	29	1.3	20000		
139010207090	139011207090	-PHC07A -90	1	7	90	30	26	28	46	—	34	29	1.3	20000		
139010208090	139011208090	-PHC08A -90	1	8	90	30	26	28	46	—	34	29	1.3	20000		
139010209105	139011209105	-PHC09A -105	1	9	105	44	28	30	52	—	50	40	1.5	20000		
139010210105	139011210105	-PHC10A -105	1	10	105	44	28	30	52	—	50	40	1.5	20000		
139010211105	139011211105	-PHC11A -105	1	11	105	45	30	32	52	—	50	40	1.5	20000		
139010212105	139011212105	-PHC12A -105	1	12	105	45	30	32	52	—	50	40	1.5	20000		
139010213105	139011213105	-PHC13A -105	1	13	105	46	34	36	52	—	50	40	1.5	20000		
139010214105	139011214105	-PHC14A -105	1	14	105	46	34	36	52	—	50	40	1.5	20000		
139010215105	139011215105	-PHC15A -105	1	15	105	46	36	38	52	—	50	40	1.6	20000		
139010216105	139011216105	-PHC16A -105	1	16	105	46	36	38	52	—	50	40	1.6	20000		
139010220105	139011220105	-PHC20A -105	1	20	105	49	40	42	46	—	50	40	1.5	20000		
139010225120	139011225120	-PHC25A -120	1	25	120	59	50	52	59	—	60	50	2.1	19000	L-6T	

*When ordering high pressure models add-H

- 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.
- Only high pressure type is available for UTS5040.
- On 3mm and 4mm chuck models there may be leaking from the inner diameter slit when using center through coolant.

PHS Collet		Hex. wrench	
P. 78		P. 81	
		d	Hex wrench size for stopper bolt
6~8	2.5mm		
9~32	3mm		

Ordering Example

Low pressure type
0 ~ 1.0MPa

UTS6350 - PHC12A- 105
Shank size I.D. Pojection length

Ordering Example

High pressure type
1.1 ~ 7.0MPa

UTS6350 - PHC12A- 105 - H
Shank size I.D. Pojection length High pressure type

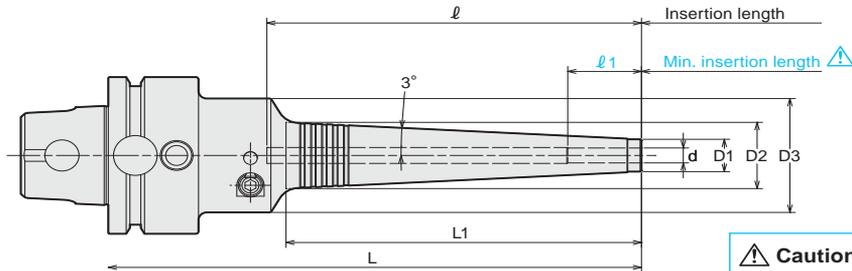
Inch size upon request



PHC·SB Slim Hydro Chuck

NEW!

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

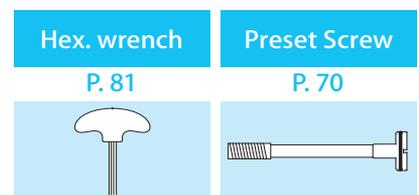


Caution : Strictly keep the min insertion length.

Code	Model	d	L	L1	D1	D2	D3	l	l1	min ⁻¹	kg	Wrench (Option)
1490 21103080	UTS5040 -PHC03SB -80 -H	3	80	28	11	14.0	46	68	16	25,000	0.7	L-4T
1490 21103090	-90 -H	3	90	37	11	14.9	46	78	16	25,000	0.7	
1490 21103135	-135 -H	3	135	84	11	19.9	46	123	16	21,000	1.0	
1490 21104080	-PHC04SB -80 -H	4	80	28	11	14.0	46	68	19	25,000	0.7	
1490 21104090	-90 -H	4	90	37	11	14.9	46	78	19	25,000	0.7	
1490 21104135	-135 -H	4	135	84	11	19.9	46	123	19	21,000	1.0	
1490 21106090	-PHC06SB -90 -H	6	90	38	13	17.0	46	51	27	25,000	1.0	
1490 21106150	-150 -H	6	150	99	13	23.4	46	107	27	20,000	1.2	
1490 21106165	-165 -H	6	165	114	13	25.0	46	122	27	15,000	1.2	
1490 21106180	-180 -H	6	180	130	13	26.7	46	137	27	12,000	1.3	
1490 21107090	-PHC07SB -90 -H	7	90	38	14	18.0	46	51	27	24,000	1.1	
1490 21107150	-150 -H	7	150	99	14	24.4	46	107	27	20,000	1.2	
1490 21107165	-165 -H	7	165	114	14	26.0	46	122	27	15,000	1.2	
1490 21107180	-180 -H	7	180	130	14	27.7	46	137	27	12,000	1.3	
1490 21108090	-PHC08SB -90 -H	8	90	38	15	19.0	46	51	27	24,000	1.1	
1490 21108150	-150 -H	8	150	99	15	25.4	46	107	27	19,000	1.2	
1490 21108165	-165 -H	8	165	114	15	27.0	46	122	27	15,000	1.2	
1490 21108180	-180 -H	8	180	130	15	28.7	46	137	27	12,000	1.3	
1490 21109105	-PHC09SB -105 -H	9	105	53	16	21.6	46	66	33	23,000	1.1	
1490 21109150	-150 -H	9	150	99	16	26.4	46	107	33	19,000	1.2	
1490 21109165	-165 -H	9	165	114	16	28.0	46	122	33	15,000	1.3	
1490 21109180	-180 -H	9	180	130	16	29.7	46	137	33	12,000	1.3	
1490 21110105	-PHC10SB -105 -H	10	105	53	17	22.6	46	66	33	23,000	1.1	
1490 21110150	-150 -H	10	150	99	17	27.4	46	107	33	19,000	1.2	
1490 21110165	-165 -H	10	165	114	17	29.0	46	122	33	15,000	1.3	
1490 21110180	-180 -H	10	180	130	17	30.7	46	137	33	12,000	1.3	
1490 21111105	-PHC11SB -105 -H	11	105	53	18	23.6	46	66	36	23,000	1.1	
1490 21111150	-150 -H	11	150	99	18	28.4	46	107	36	18,000	1.2	
1490 21111165	-165 -H	11	165	114	18	30.0	46	122	36	14,000	1.3	
1490 21111180	-180 -H	11	180	130	18	31.7	46	137	36	11,000	1.4	
1490 21112105	-PHC12SB -105 -H	12	105	53	19	24.6	46	66	36	22,000	1.1	
1490 21112150	-150 -H	12	150	99	19	29.4	46	107	36	18,000	1.2	
1490 21112165	-165 -H	12	165	114	19	31.0	46	122	36	14,000	1.3	
1490 21112180	-180 -H	12	180	130	19	32.7	46	137	36	11,000	1.4	

- 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



UTS

Low Pressure Code	High Pressure Code	Model	d	L	L1	D1	D2	D3	ℓ ※1	ℓ1	kg	Max. min ⁻¹	Wrench (sold separate)
149020203090	149021203090	UTS6350 -PHC03SB -90	3	90	28	11	14.0	46	78	16	1.1	20000	L-4T
149020203100	149021203100	-100	3	100	37	11	14.9	46	88	16	1.1	20000	
149020203145	149021203145	-145	3	145	84	11	19.9	46	133	16	1.4	20000	
149020204090	149021204090	-PHC04SB -90	4	90	28	11	14.0	46	78	19	1.3	20000	
149020204100	149021204100	-100	4	100	37	11	14.9	46	88	19	1.1	20000	
149020204145	149021204145	-145	4	145	84	11	19.9	46	133	19	1.4	19000	
149020206105	149021206105	-PHC06SB -105	6	105	38	13	17.0	46	55	27	1.4	20000	
149020206150	149021206150	-150	6	150	84	13	21.9	46	92	27	1.5	20000	
149020206165	149021206165	-165	6	165	99	13	23.4	46	107	27	1.6	15000	
149020206180	149021206180	-180	6	180	114	13	25.0	46	122	27	1.6	12000	
149020206195	149021206195	-195	6	195	130	13	26.7	46	137	27	1.7	10000	
149020207105	149021207105	-PHC07SB -105	7	105	38	14	18.0	46	55	27	1.4	20000	
149020207150	149021207150	-150	7	150	84	14	22.9	46	92	27	1.5	20000	
149020207165	149021207165	-165	7	165	99	14	24.4	46	107	27	1.6	15000	
149020207180	149021207180	-180	7	180	114	14	26.0	46	122	27	1.6	12000	
149020207195	149021207195	-195	7	195	130	14	27.7	46	137	27	1.7	10000	
149020208105	149021208105	-PHC08SB -105	8	105	38	15	19.0	46	55	27	1.4	20000	
149020208150	149021208150	-150	8	150	84	15	23.9	46	92	27	1.4	20000	
149020208165	149021208165	-165	8	165	99	15	25.4	46	107	27	1.5	15000	
149020208180	149021208180	-180	8	180	114	15	27.0	46	122	27	1.5	12000	
149020208195	149021208195	-195	8	195	130	15	28.7	46	137	27	1.6	10000	
149020209120	149021209120	-PHC09SB -120	9	120	53	16	21.6	46	69	33	1.4	20000	
149020209150	149021209150	-150	9	150	84	16	24.9	46	92	33	1.4	20000	
149020209165	149021209165	-165	9	165	99	16	26.4	46	107	33	1.5	15000	
149020209180	149021209180	-180	9	180	114	16	28.0	46	122	33	1.6	12000	
149020209195	149021209195	-195	9	195	130	16	29.7	46	137	33	1.6	10000	
149020210120	149021210120	-PHC10SB -120	10	120	53	17	22.6	46	69	33	1.4	20000	
149020210150	149021210150	-150	10	150	84	17	25.9	46	92	33	1.5	20000	
149020210165	149021210165	-165	10	165	99	17	27.4	46	107	33	1.5	15000	
149020210180	149021210180	-180	10	180	114	17	29.0	46	122	33	1.6	12000	
149020210195	149021210195	-195	10	195	130	17	30.7	46	137	33	1.6	10000	
149020211120	149021211120	-PHC11SB -120	11	120	53	18	23.6	46	69	36	1.4	20000	
149020211150	149021211150	-150	11	150	84	18	26.9	46	92	36	1.5	19000	
149020211165	149021211165	-165	11	165	99	18	28.4	46	107	36	1.5	15000	
149020211180	149021211180	-180	11	180	114	18	30.0	46	122	36	1.6	12000	
149020211195	149021211195	-195	11	195	130	18	31.7	46	137	36	1.7	10000	
149020212020	149021212120	-PHC12SB -120	12	120	53	19	24.6	46	69	36	1.4	20000	
149020212150	149021212150	-150	12	150	84	19	27.9	46	92	36	1.5	19000	
149020212165	149021212165	-165	12	165	99	19	29.4	46	107	36	1.5	15000	
149020212180	149021212180	-180	12	180	114	19	31.0	46	122	36	1.6	12000	
149020212195	149021212195	-195	12	195	130	19	32.7	46	137	36	1.7	10000	
149020216150	149021216150	-PHC16SB -150	16	150	84	23	31.9	52.5	91	40	1.6	18000	
149020216180	149021216180	-180	16	180	114	23	35.0	52.5	120	40	1.8	12000	
149020216195	149021216195	-195	16	195	129	23	36.6	52.5	135	40	1.9	10000	
149020220150	149021220150	-PHC20SB -150	20	150	84	28	36.9	60	91	40	2	18000	
149020220180	149021220180	-180	20	180	114	28	40.0	60	120	40	2.1	14000	
149020220195	149021220195	-195	20	195	129	28	41.6	60	135	40	2.2	12000	
149020225150	149021225150	-PHC25SB -150	25	150	84	37	45.9	60	91	50	2.1	16000	
149020225180	149021225180	-180	25	180	114	37	49.0	60	120	50	2.2	14000	
149020225195	149021225195	-195	25	195	129	37	50.6	60	135	50	2.4	12000	

*When ordering high pressure models add-H

Ordering Example

Low pressure type
0~1.0MPa

UTS6350 - PHC16SB - 150
Shank size I.D. Projection length

Ordering Example

High pressure type
1.1~7.0MPa

UTS6350 - PHC16SB - 150 - H
Shank size I.D. Projection length High pressure type

Inch size upon request

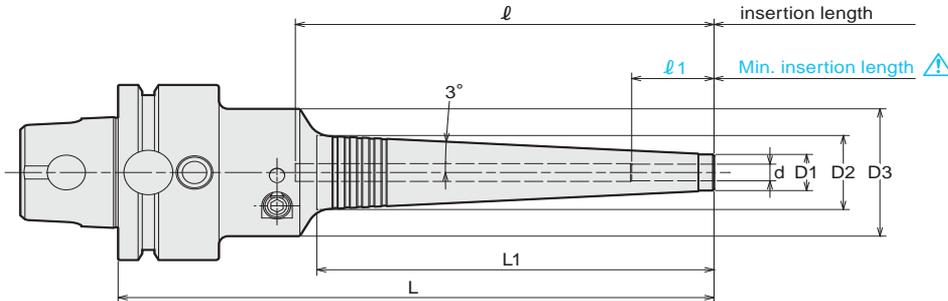


PHC·SB-C

Slim Hydro Chuck Blaster

NEW!

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

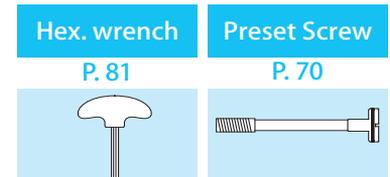


Caution
Strictly keep the min insertion length.

Low Pressure Code	High Pressure Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ1	kg	Max. min ⁻¹	Wrench (sold separate)	
—	146021103090	UTS5040 -PHC03SB - 90-C-H	3	90	37	12	15.9	46	78	16	0.7	25000	L-4T	
—	146021103135	-135-C-H	3	135	84	12	20.9	46	123	19	1.0	21000		
—	146021104090	-PHC04SB - 90-C-H	4	90	37	12	15.9	46	78	19	0.7	25000		
—	146021104135	-135-C-H	4	135	84	12	20.9	46	123	19	1.0	21000		
—	146021106090	-PHC06SB - 90-C-H	6	90	38	14	18.0	46	51	27	1.0	25000		
—	146021106150	-150-C-H	6	150	99	14	24.4	46	107	27	1.2	20000		
—	146021108090	-PHC08SB - 90-C-H	8	90	38	16	20.0	46	51	27	1.1	24000		
—	146021108150	-150-C-H	8	150	99	16	26.4	46	107	27	1.2	19000		
—	146021110105	-PHC10SB -105-C-H	10	105	53	18	23.6	46	66	33	1.1	23000		
—	146021110150	-150-C-H	10	150	95	18	28.4	46	107	33	1.2	19000		
—	146021112105	-PHC12SB -105-C-H	12	105	53	20	25.6	46	66	36	1.1	22000		
—	146021112150	-150-C-H	12	150	99	20	30.5	46	10	36	1.2	18000		
146020203100	146021203100	UTS6350 -PHC03SB -100-C	3	100	37	12	15.9	46	88	16	1.1	20000		L-4T
146020203145	146021203145	-145-C	3	145	84	12	20.9	46	133	16	1.4	20000		
146020204100	146021204100	-PHC04SB -100-C	4	100	37	12	15.9	46	88	19	1.1	20000		
146020204145	146021204145	-145-C	4	145	84	12	20.9	46	133	19	1.4	19000		
146020206105	146021206105	-PHC06SB -105-C	6	105	38	14	18.0	46	55	27	1.4	20000		
146020206150	146021206150	-150-C	6	150	84	14	22.9	46	92	27	1.5	20000		
146020208105	146021208105	-PHC08SB -105-C	8	105	38	16	20.0	46	55	27	1.5	20000		
146020208150	146021208150	-150-C	8	150	84	16	24.9	46	92	27	1.5	20000		
146020210120	146021210120	-PHC10SB -120-C	10	120	53	18	23.6	46	69	33	1.5	20000		
146020210150	146021210150	-150-C	10	150	84	18	26.9	46	92	33	1.6	20000		
146020212120	146021212120	-PHC12SB -120-C	12	120	53	20	25.6	46	69	36	1.5	20000		
146020212150	146021212150	-150-C	12	150	84	20	28.9	46	92	36	1.6	19000		
146020216150	146021216150	-PHC16SB -150-C	16	120	84	24	32.9	52.5	91	40	1.8	18000		
146020216180	146021216180	-180-C	16	180	114	24	36.0	52.5	120	40	1.8	12000		
146020220150	146021220150	-PHC20SB -150-C	20	150	84	29	37.9	60	91	40	2.0	18000	L-5T	
146020220195	146021220195	-195-C	20	195	129	29	42.6	60	135	40	2.4	12000		
146020225150	146021225150	-PHC25SB -150-C	25	150	84	38	46.9	60	91	50	2.2	16000		
146020225195	146021225195	-195-C	25	195	129	38	51.6	60	135	50	2.5	12000		

***When ordering high pressure models add-H**

- 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

Low pressure type
0~1.0MPa

UTS6350 - PHC16SB - 150 - C
Shank size I.D. Projection length

Ordering Example

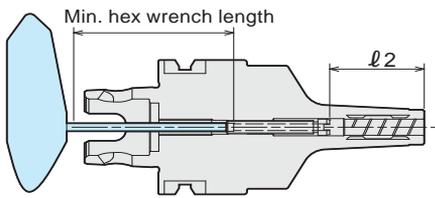
High pressure type
1.1~7.0MPa

UTS6350 - PHC16SB - 150 - C - H
Shank size I.D. Projection length High pressure type

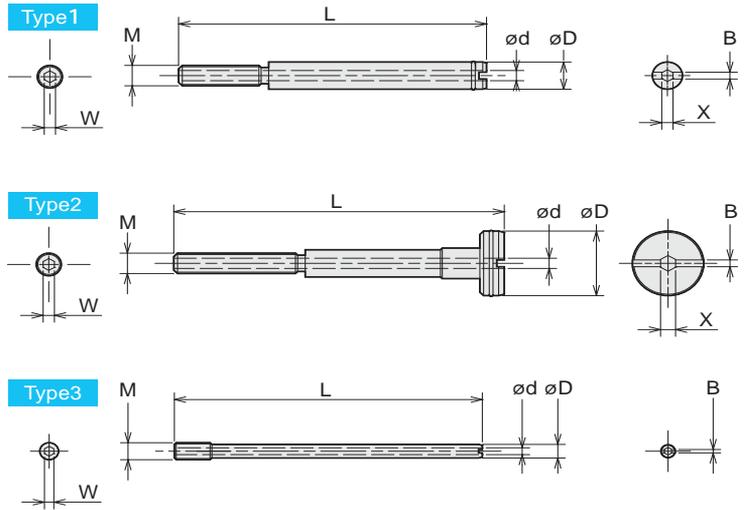
MEMO

UTS

Preset Screw for Slim Hydro Chuck



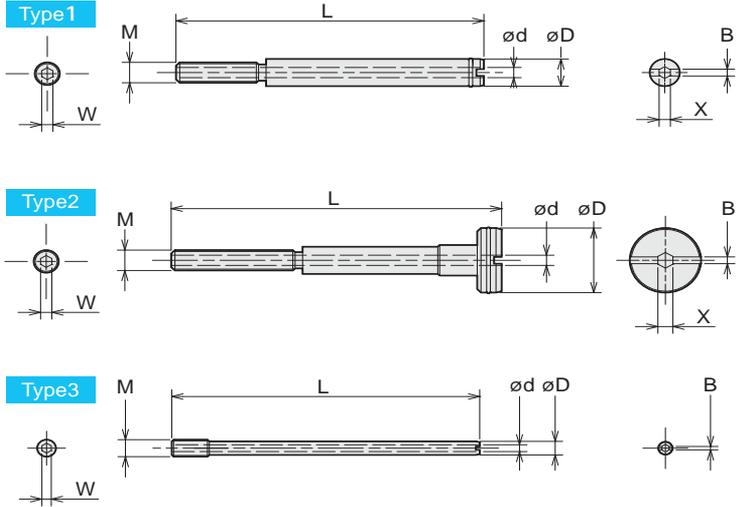
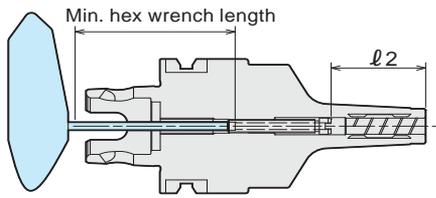
Shank size	Chuck ID	Min. hex wrench length
UTS5040	ø6 ~ ø12	66mm
UTS6350	ø3 ~ ø4	111mm
	ø6 ~ ø12	90mm



Preset screw		Matched chuck	Adjustment range l_2	Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model												PHC·SB PHC·SB-C
3704 01060010	PHCSB -P06 -01	UTS5040 -PHC06SB-90, -90-C -H	27 ~ 46	19	1	2.5	—	2	6	2.5	35	M5 P=0.8
3704 01060030	PHCSB -P06 -03	-150, -150-C -H	27 ~ 57	30	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04	-165 -H	27 ~ 57	30	1	2.5	—	2	5.5	2.5	104	
3704 01060050	PHCSB -P06 -05	-180 -H	27 ~ 61	34	1	2.5	—	2	5.5	2.5	115	
3704 01060010	PHCSB -P06 -01	-PHC07SB-90 -H	27 ~ 46	19	1	2.5	—	2	6	2.5	35	
3704 01070030	PHCSB -P07 -03	-150 -H	27 ~ 56	29	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04	-165 -H	27 ~ 56	29	2	2.5	—	2	6.5	2	105	
3704 01070050	PHCSB -P07 -05	-180 -H	27 ~ 61	34	2	2.5	—	2	6.5	2	115	
3704 01060010	PHCSB -P06 -01	-PHC08SB-90, -90-C -H	27 ~ 46	19	1	2.5	—	2	6	2.5	35	
3704 01080030	PHCSB -P08 -03	-150, -150-C -H	27 ~ 56	29	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04	-165 -H	27 ~ 56	29	2	2.5	3	2	7.5	2	105	
3704 01080050	PHCSB -P08 -05	-180 -H	27 ~ 61	34	2	2.5	3	2	7.5	2	115	
3704 01090010	PHCSB -P09 -01	-PHC09SB-105 -H	33 ~ 55	22	1	2.5	3	2	9	2.5	45	
3704 01090030	PHCSB -P09 -03	-150 -H	33 ~ 62	29	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04	-165 -H	33 ~ 62	29	2	2.5	3	2	8.5	2.5	99	
3704 01090050	PHCSB -P09 -05	-180 -H	33 ~ 66	33	2	2.5	3	2	8.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC10SB-105, -105-C -H	33 ~ 55	22	1	2.5	3	2	9	2.5	45	
3704 01100030	PHCSB -P10 -03	-150, -150-C -H	33 ~ 62	29	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04	-165 -H	33 ~ 62	29	2	2.5	3	2	9.5	2.5	99	
3704 01100050	PHCSB -P10 -05	-180 -H	33 ~ 66	33	2	2.5	3	2	9.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC11SB-105 -H	36 ~ 55	19	1	2.5	3	2	9	2.5	45	
3704 01110030	PHCSB -P11 -03	-150 -H	36 ~ 64	28	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04	-165 -H	36 ~ 64	28	2	2.5	3	2	10.5	2.5	97	
3704 01110050	PHCSB -P11 -05	-180 -H	36 ~ 68	32	2	2.5	3	2	10.5	2.5	108	
3704 01090010	PHCSB -P09 -01	-PHC12SB-105, -105-C -H	36 ~ 55	19	1	2.5	3	2	9	2.5	45	
3704 01120030	PHCSB -P12 -03	-150, -150-C -H	36 ~ 64	28	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04	-165 -H	36 ~ 64	28	2	2.5	3	2	11.5	2.5	97	
3704 01120050	PHCSB -P12 -05	-180 -H	36 ~ 68	32	2	2.5	3	2	11.5	2.5	108	

1. Compatible with both high pressure and low pressure.
2. For UTS5040-PHC03SB and UTS5040-PHC04SB, a preset screw cannot be used.

Preset Screw for Slim Hydro Chuck



Shank size	Chuck ID	Min. hex wrench length
UTS5040	ø6 ~ ø12	66mm
UTS6350	ø3 ~ ø4	111mm
	ø6 ~ ø12	90mm

Preset screw		Matched chuck	Adjustment range l2	Adjustment amount	Type	W	X	B	D	d	L	M
Code	Model											
3704 01030073	PHCSB -P03 -07C	UTS6350 -PHC03SB -90 -H	16 ~ 38	22	3	2.5	—	1	3.2	1.5	33	M5 P=0.8
3704 01030073	PHCSB -P03 -07C	-100, -100-C -H	16 ~ 38	22	3	2.5	—	1	3.2	1.5	33	
3704 01030083	PHCSB -P03 -08C	-145, -145-C -H	16 ~ 38	22	3	2.5	—	1	3.2	1.5	54	
3704 01040073	PHCSB -P04 -07C	-PHC04SB -90 -H	19 ~ 41	22	3	2.5	—	1	3.8	2	26	
3704 01040073	PHCSB -P04 -07C	-100, -100-C -H	19 ~ 41	22	3	2.5	—	1	3.8	2	26	
3704 01040083	PHCSB -P04 -08C	-145, -145-C -H	19 ~ 41	22	3	2.5	—	1	3.8	2	51	
3704 01060010	PHCSB -P06 -01	-PHC06SB -105, -105-C -H	27 ~ 50	23	1	2.5	—	2	6	2.5	35	
3704 01060020	PHCSB -P06 -02	-150, -150-C -H	27 ~ 61	34	1	2.5	—	2	5.5	2.5	74	
3704 01060030	PHCSB -P06 -03	-165 -H	27 ~ 57	30	1	2.5	—	2	5.5	2.5	89	
3704 01060040	PHCSB -P06 -04	-180 -H	27 ~ 57	30	1	2.5	—	2	5.5	2.5	104	
3704 01060050	PHCSB -P06 -05	-195 -H	27 ~ 61	34	1	2.5	—	2	5.5	2.5	115	
3704 01060010	PHCSB -P06 -01	-PHC07SB -105 -H	27 ~ 50	23	1	2.5	—	2	6	2.5	35	
3704 01070020	PHCSB -P07 -02	-150 -H	27 ~ 61	34	2	2.5	—	2	6.5	2	75	
3704 01070030	PHCSB -P07 -03	-165 -H	27 ~ 56	29	2	2.5	—	2	6.5	2	90	
3704 01070040	PHCSB -P07 -04	-180 -H	27 ~ 56	29	2	2.5	—	2	6.5	2	105	
3704 01070050	PHCSB -P07 -05	-195 -H	27 ~ 61	34	2	2.5	—	2	6.5	2	115	
3704 01060010	PHCSB -P06 -01	-PHC08SB -105, -105-C -H	27 ~ 50	23	1	2.5	—	2	6	2.5	35	
3704 01080020	PHCSB -P08 -02	-150, -150-C -H	27 ~ 61	34	2	2.5	3	2	7.5	2	75	
3704 01080030	PHCSB -P08 -03	-165 -H	27 ~ 56	29	2	2.5	3	2	7.5	2	90	
3704 01080040	PHCSB -P08 -04	-180 -H	27 ~ 56	29	2	2.5	3	2	7.5	2	105	
3704 01080050	PHCSB -P08 -05	-195 -H	27 ~ 61	34	2	2.5	3	2	7.5	2	115	
3704 01090010	PHCSB -P09 -01	-PHC09SB -120 -H	33 ~ 58	25	1	2.5	3	2	9	2.5	45	
3704 01090020	PHCSB -P09 -02	-150 -H	33 ~ 66	33	2	2.5	3	2	8.5	2.5	69	
3704 01090030	PHCSB -P09 -03	-165 -H	33 ~ 62	29	2	2.5	3	2	8.5	2.5	84	
3704 01090040	PHCSB -P09 -04	-180 -H	33 ~ 62	29	2	2.5	3	2	8.5	2.5	99	
3704 01090050	PHCSB -P09 -05	-195 -H	33 ~ 66	33	2	2.5	3	2	8.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC10SB -120, -120-C -H	33 ~ 58	25	1	2.5	3	2	9	2.5	45	
3704 01100020	PHCSB -P10 -02	-150, -150-C -H	33 ~ 66	33	2	2.5	3	2	9.5	2.5	69	
3704 01100030	PHCSB -P10 -03	-165 -H	33 ~ 62	29	2	2.5	3	2	9.5	2.5	84	
3704 01100040	PHCSB -P10 -04	-180 -H	33 ~ 62	29	2	2.5	3	2	9.5	2.5	99	
3704 01100050	PHCSB -P10 -05	-195 -H	33 ~ 66	33	2	2.5	3	2	9.5	2.5	110	
3704 01090010	PHCSB -P09 -01	-PHC11SB -120 -H	36 ~ 58	22	1	2.5	3	2	9	2.5	45	
3704 01110020	PHCSB -P11 -02	-150 -H	36 ~ 68	32	2	2.5	3	2	10.5	2.5	67	
3704 01110030	PHCSB -P11 -03	-165 -H	36 ~ 64	28	2	2.5	3	2	10.5	2.5	82	
3704 01110040	PHCSB -P11 -04	-180 -H	36 ~ 64	28	2	2.5	3	2	10.5	2.5	97	
3704 01110050	PHCSB -P11 -05	-195 -H	36 ~ 68	32	2	2.5	3	2	10.5	2.5	108	
3704 01090010	PHCSB -P09 -01	-PHC12SB -120, -120-C -H	36 ~ 58	22	1	2.5	3	2	9	2.5	45	
3704 01120020	PHCSB -P12 -02	-150, -150-C -H	36 ~ 68	32	2	2.5	3	2	11.5	2.5	67	
3704 01120030	PHCSB -P12 -03	-165 -H	36 ~ 64	28	2	2.5	3	2	11.5	2.5	82	
3704 01120040	PHCSB -P12 -04	-180 -H	36 ~ 64	28	2	2.5	3	2	11.5	2.5	97	
3704 01120050	PHCSB -P12 -05	-195 -H	36 ~ 68	32	2	2.5	3	2	11.5	2.5	108	
3704 01160010	PHCSB -P16 -01	-PHC16SB -150, -150-C -H	40 ~ 80	40	1	3	3	2	15.5	2.5	60	
3704 01160020	PHCSB -P16 -02	-180, -180-C -H	40 ~ 82	42	2	2.5	3	2	15.5	2.5	87	
3704 01160030	PHCSB -P16 -03	-195 -H	40 ~ 82	42	2	2.5	3	2	15.5	2.5	102	
3704 01200010	PHCSB -P20 -01	-PHC20SB -150, -150-C -H	40 ~ 85	45	1	3	3	2	19	3	57	
3704 01200020	PHCSB -P20 -02	-180 -H	40 ~ 90	50	2	3	3	2	19.5	3	86	
3704 01200030	PHCSB -P20 -03	-195, -195-C -H	40 ~ 90	50	2	3	3	2	19.5	3	101	
3704 01250010	PHCSB -P25 -01	-PHC25SB -150, -150-C -H	50 ~ 85	35	1	3	3	2	24.5	3	47	
3704 01250020	PHCSB -P25 -02	-180 -H	50 ~ 99	49	2	3	3	2	24.5	3	76	
3704 01250030	PHCSB -P25 -03	-195, -195-C -H	50 ~ 100	50	2	3	3	2	24.5	3	91	

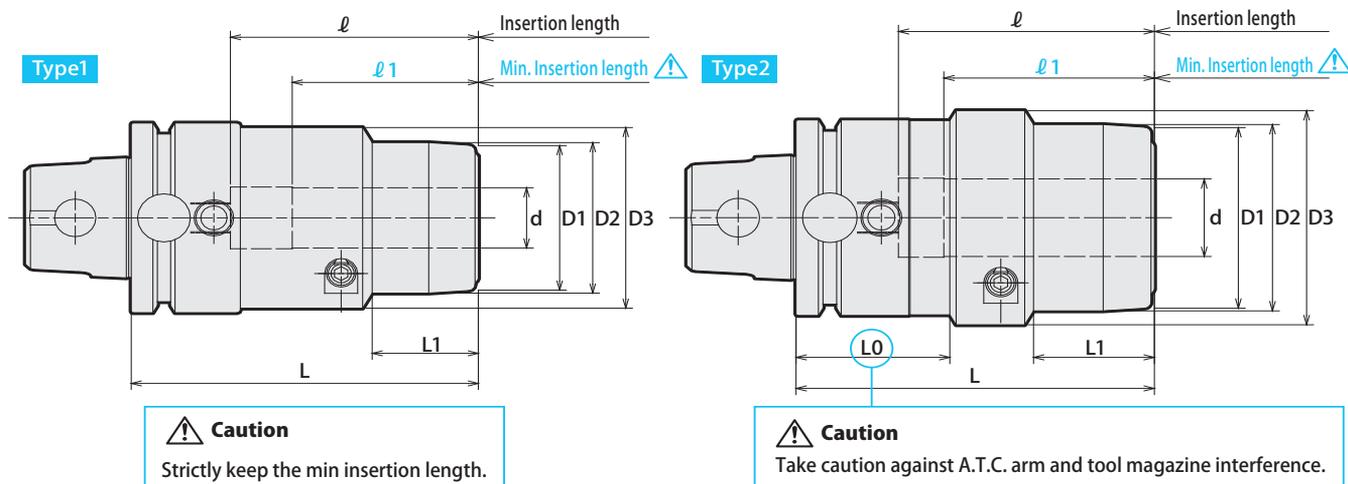
- Compatible with both high pressure and low pressure.
- For UTS5040-PHC03SA and UTS5040-PHC04SA, a preset screw cannot be used.

UTS



PHC·H Hydro Chuck Omega Ω

High Rigidity Hydro Chuck is the best holder for high efficiency rough machining.



Low Pressure Code	High Pressure Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	kg	Max. min ⁻¹	Wrench (sold separate)
144000216075	144001216075	UTS6350 -PHC16H -75	1	16	75	25	42	44	56	—	51	45	1.4	20000	L-4T
144000220105	144001220105	-PHC20H -105	1	20	105	32	48	50	60	—	75	50	2.0	20000	
144000225105	144001225105	-PHC25H -105	2	25	105	35	58	60	69	44	75	55	2.3	16000	L-5T
144000232105	144001232105	-PHC32H -105	2	32	105	39	63	65	75	44	78	65	2.3	12000	
144000232135	144001232135	-135	2	32	135	47	63	65	75	44	105	65	3.1	12000	L-4T
144000316105	144001316105	UTS10080-PHC16H -105	1	16	105	27	42	44	56	—	70	45	3.3	12500	
144000320105	144001320105	-PHC20H -105	1	20	105	32	48	50	60	—	75	50	3.4	12500	L-5T
144000325105	144001325105	-PHC25H -105	1	25	105	35	58	60	69	—	75	55	3.8	12500	
144000325135	144001325135	-135	1	25	135	35	58	60	69	—	105	55	4.5	12500	L-5T
144000332105	144001332105	-PHC32H -105	1	32	105	47	63	65	75	—	78	65	3.8	12000	
144000332135	144001332135	-135	1	32	135	47	63	65	75	—	100	65	4.7	12000	L-6T
144000342135	144001342135	-PHC42H -135	1	42	135	52	78	80	90	—	110	73	5.5	10000	

***When ordering high pressure models add-H**

1. Tool shank diameter tolerance must be within h7. h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
2. PHC20H and PHC32H have pin holes for collet with stopper pin on its body.



Ordering Example

Low pressure type
0 ~ 1.0MPa

UTS6350 - PHC16H- 75
Shank size I.D. Pojection length

Ordering Example

High pressure type
1.1 ~ 7.0MPa

UTS6350 - PHC16H - 75 - H
Shank size I.D. Pojection length High pressure type

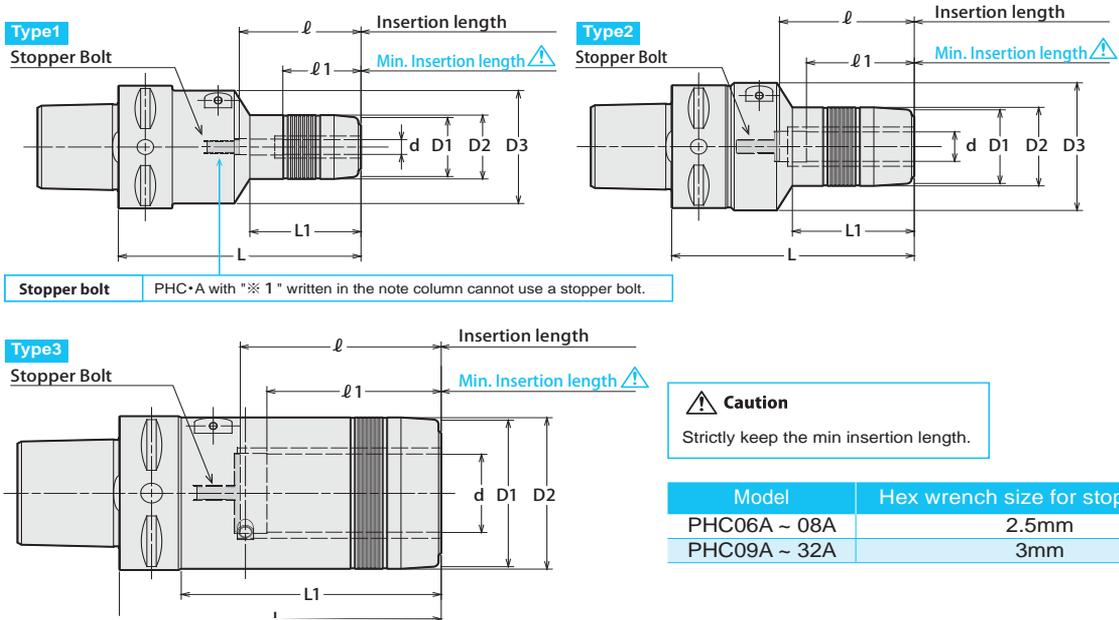
Inch size upon request

MEMO



PHC·A Power Hydro Chuck

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



Model	Hex wrench size for stopper bolt
PHC06A ~ 08A	2.5mm
PHC09A ~ 32A	3mm

Code	Model	Note	Type	d	L	L1	D1	D2	D3	ℓ	ℓ1	kg	Wrench
6720 00503055	C5 -PHC03A -55	※1	1	3	55	4	—	24	46	42	18		
6720 00503090	-90	※1	1	3	90	44	—	25	46	49	18	0.8	
6720 00504055	-PHC04A -55	※1	1	4	55	9	—	25	46	42	24		
6720 00504090	-90	※1	1	4	90	45	—	25	46	49	24	0.8	
6720 00506055	-PHC06A -55		1	6	55	11	24	26	46	34	29		
6720 00506090	-90		1	6	90	41	24	26	46	45	29	0.9	
6720 00507055	-PHC07A -55		1	7	55	11	26	28	46	34	29		
6720 00507090	-90		1	7	90	41	26	28	46	45	29		
6720 00508055	-PHC08A -55		1	8	55	11	26	28	46	34	29		
6720 00508090	-90		1	8	90	41	26	28	46	45	29		
6720 00509060	-PHC09A -60	※1	1	9	60	19	28	30	46	47	33		
6720 00509090	-90		1	9	90	44	28	30	46	50	40	1.0	
6720 00510060	-PHC10A -60	※1	1	10	60	19	28	30	46	47	33		
6720 00510090	-90		2	10	90	44	28	30	52	50	40	1.0	
6720 00511060	-PHC11A -60	※1	1	11	60	17	30	32	46	47	33		
6720 00511090	-90		2	11	90	45	30	32	52	50	40		
6720 00512060	-PHC12A -60	※1	1	12	60	17	30	32	46	47	33	0.7	
6720 00512090	-90		2	12	90	45	30	32	52	50	40	1.0	
6720 00513075	-PHC13A -75		1	13	75	17	34	36	46	50	33		
6720 00513090	-90		2	13	90	46	34	36	52	50	40	1.0	
6720 00514075	-PHC14A -75		1	14	75	17	34	36	46	50	33		
6720 00514090	-90		2	14	90	46	34	36	52	50	40		
6720 00515075	-PHC15A -75		1	15	75	18	36	38	46	50	33		
6720 00515090	-90		2	15	90	46	36	38	52	50	40		
6720 00516075	-PHC16A -75		1	16	75	18	36	38	46	50	33		
6720 00516090	-90		2	16	90	46	36	38	52	50	40		
6720 00520090	-PHC20A -90		1	20	90	49	40	42	46	50	40	1.0	
6720 00520125	-125		1	20	125	69	40	42	46	70	40		
6720 00525105	-PHC25A -105		2	25	105	59	50	52	62	60	50		L-6T
6720 00603050	C6 -PHC03A -50	※1	1	3	50	4	—	24	46	35	18	1.0	
6720 00603090	-90	※1	1	3	90	44	—	25	46	49	18		
6720 00604055	-PHC04A -55	※1	1	4	55	9	—	25	46	40	24	1.0	
6720 00604090	-90	※1	1	4	90	45	—	25	46	49	24	1.1	
6720 00606060	-PHC06A -60		1	6	60	11	24	26	46	34	29	1.1	
6720 00606090	-90		1	6	90	41	24	26	46	45	29	1.2	
6720 00606120	-120		1	6	120	41	24	26	46	45	29		
6720 00607060	-PHC07A -60		1	7	60	11	26	28	46	34	29		
6720 00607090	-90		1	7	90	41	26	28	46	45	29		
6720 00608060	-PHC08A -60		1	8	60	11	26	28	46	34	29		
6720 00608090	-90		1	8	90	41	26	28	46	45	29	1.2	
6720 00608120	-120		1	8	120	41	26	28	46	45	29	1.5	
6720 00609065	-PHC09A -65	※1	1	9	65	19	28	30	46	47	33		
6720 00609090	-90		1	9	90	44	28	30	46	50	40		
6720 00610065	-PHC10A -65	※1	1	10	65	19	28	30	46	47	33		
6720 00610090	-90		1	10	90	44	28	30	52	50	40	1.2	
6720 00610120	-120		1	10	120	64	28	30	52	70	40	1.5	
6720 00611065	-PHC11A -65	※1	1	11	65	17	30	32	46	47	33		L-4T
6720 00611090	-90		1	11	90	45	30	32	52	50	40		
6720 00612065	-PHC12A -65	※1	1	12	65	17	30	32	46	47	33		
6720 00612090	-90		1	12	90	45	30	32	52	50	40	1.3	
6720 00612120	-120		1	12	120	65	30	32	52	70	40	1.5	
6720 00613075	-PHC13A -75		1	13	75	17	34	36	46	45	33		
6720 00613090	-90		1	13	90	46	34	36	52	50	40		
6720 00614075	-PHC14A -75		1	14	75	17	34	36	46	45	33		
6720 00614090	-90		1	14	90	46	34	36	52	50	40	1.3	
6720 00614120	-120		1	14	120	66	34	36	52	70	40		
6720 00615075	-PHC15A -75		1	15	75	18	36	38	46	45	33		
6720 00615090	-90		1	15	90	46	36	38	52	50	40		
6720 00616075	-PHC16A -75		1	16	75	18	36	38	46	45	33		
6720 00616090	-90		1	16	90	46	36	38	52	50	40	1.3	
6720 00616120	-120		1	16	120	66	36	38	52	70	40	1.6	
6720 00620090	-PHC20A -90		1	20	90	49	40	42	46	50	40	1.3	
6720 00620120	-120		1	20	120	69	40	42	46	70	40	1.6	
6720 00625105	-PHC25A -105		1	25	105	59	50	52	62	60	50	1.9	
6720 00625120	-120		1	25	120	59	50	52	62	80	50	2.1	L-6T
6720 00632120	-PHC32A -120		3	32	120	96	60	62	—	75	65	2.4	

- 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.
- On 3mm and 4mm chuck models there may be leaking from the inner diameter slit when using center through coolant.

Ordering Example

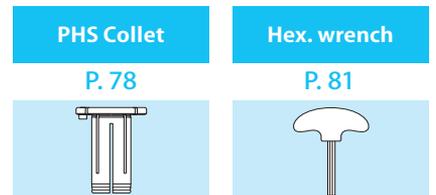
C6 - PHC12A - 120

Shank size

I.D.

Projection length

Inch size upon request

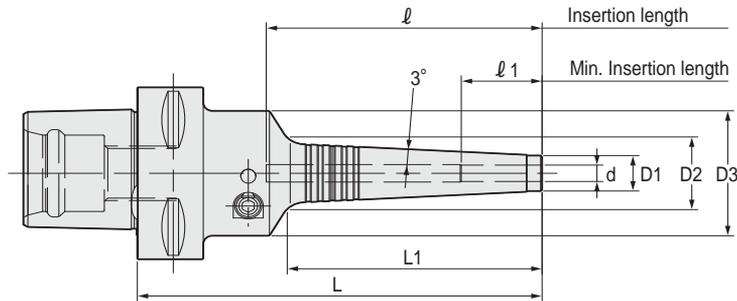




PHC-SB Slim Hydro Chuck



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



Code	Model	d	L	L1	D1	D2	D3	l	l 1	Max min ⁻¹	kg	Wrench (Option)
6720 10603135	C6- PHC03SB -135	3	135	84	11	19.9	46	117	16	20,500	1.2	L-4T
6720 10604135	PHC04SB -135	4	135	84	11	19.9	46	117	19	20,500	1.2	
6720 10606135	PHC06SB -135	6	135	84	13	21.9	46	92	27	20,500	1.2	
6720 10608135	PHC08SB -135	8	135	84	15	23.9	46	92	27	20,500	1.2	
6720 10610135	PHC10SB -135	10	135	84	17	25.9	46	92	33	20,000	1.2	
6720 10612135	PHC12SB -135	12	135	84	19	27.9	46	92	36	20,000	1.2	

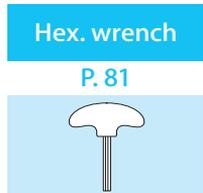
- Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Hex-head screws (included) are necessary to plug air hole for 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.

Ordering Example

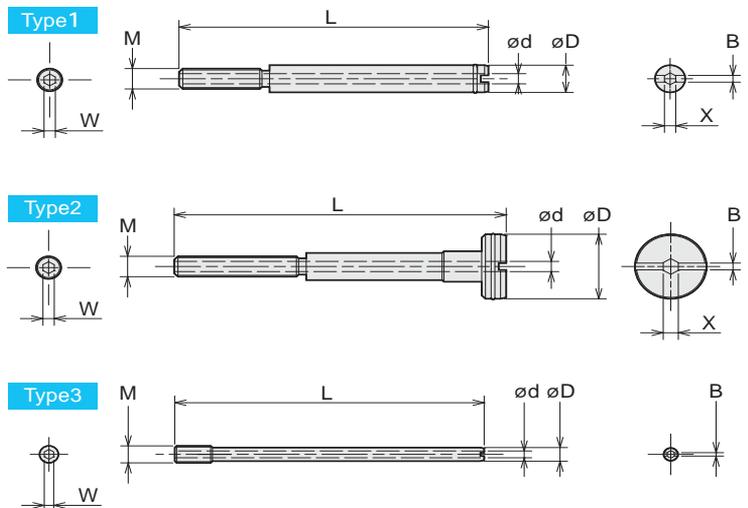
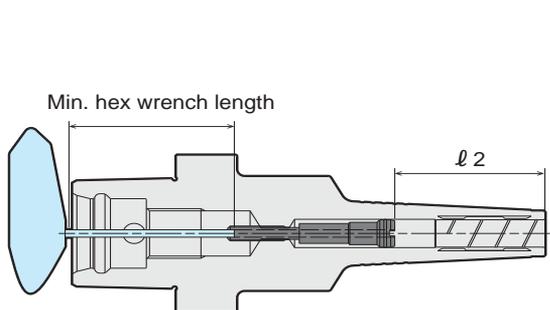
C6 - PHC03SB - 135

Shank size I.D. Projection length

Inch size upon request



Preset Screw for Slim Hydro Chuck



Shank size	Chuck ID	Min. hex wrench length
C6	ø3 ~ ø 4	108mm
	ø6 ~ ø12	76mm

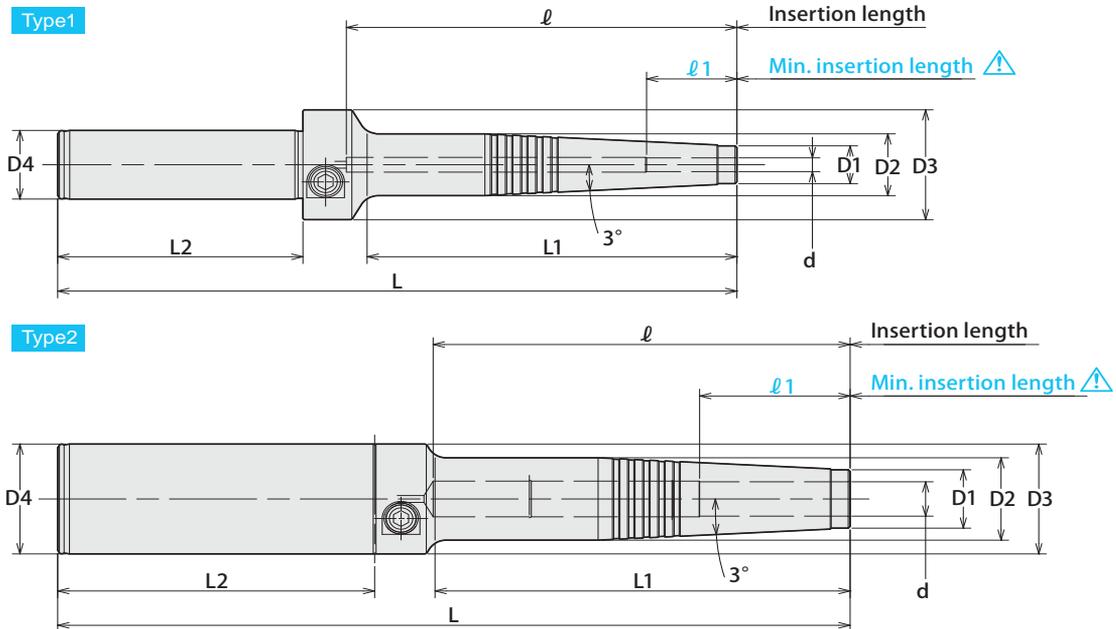
Preset screw		Matched chuck	Segment Clamp		Draw-bolt Clamp		Type	W	X	B	D	d	L	M
Code	Model		Adjustment range l 2	Adjustment amount	Adjustment range l 2	Adjustment amount								
3704 01030082	PHCSB-P03-08B	C6 -PHC03SB -135	16 ~ 38	22	16 ~ 28	12	3	2.5	—	1	3.2	1.5	54	M5 P=0.8
3704 01040082	PHCSB-P04-08B	-PHC04SB -135	19 ~ 41	22	19 ~ 31	12	3	2.5	—	1	3.8	2	51	
3704 01060010	PHCSB-P06-02	-PHC06SB -135	27 ~ 61	34	27 ~ 51	14	1	2.5	—	2	5.5	2	74	
3704 01080020	PHCSB-P08-02	-PHC08SB -135	27 ~ 61	34	27 ~ 51	14	2	2.5	3	2	7.5	2	75	
3704 01100020	PHCSB-P10-02	-PHC10SB -135	33 ~ 66	33	33 ~ 56	23	2	2.5	3	2	9.5	2	69	
3704 01120020	PHCSB-P12-02	-PHC12SB -135	36 ~ 68	32	36 ~ 58	22	2	2.5	3	2	11.5	2	67	



ST-PHC·SB Slim Hydro Chuck

NEW!

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



⚠ Caution
Strictly keep the min insertion length.

Code	Model	Type	d	L	L1	L2	D1	D2	D3	D4	l	l1	Wrench (Option)
0450 02003180	ST20 -PHC03SB -180	1	3	180	98	65	11	18	32	20	103	16	L-4T
0450 02004180	-PHC04SB -180	1	4	180	98	65	11	18	32	20	103	19	
0450 02006180	-PHC06SB -180	1	6	180	99	65	13	20	32	20	103	27	
0450 02008180	-PHC08SB -180	1	8	180	99	65	15	22	32	20	101	27	
0450 02010180	-PHC10SB -180	1	10	180	100	65	17	24	32	20	101	33	
0450 02012180	-PHC12SB -180	1	12	180	100	65	19	26	32	20	101	36	
0450 03206210	ST32 -PHC06SB -210	2	6	210	109	84	13	20	32	32	113	27	
0450 03208210	-PHC08SB -210	2	8	210	109	84	15	22	32	32	111	27	
0450 03210210	-PHC10SB -210	2	10	210	110	84	17	24	32	32	111	33	
0450 03212210	-PHC12SB -210	2	12	210	110	84	19	26	32	32	111	36	

Inch Sizes

Unit : Metric

Code	Model	Type	d	L	L1	L2	D1	D2	D3	D4	l	l1	Wrench (Option)
0450 12404180	ST0750 -PHC0125SB -180	1	3.175	180	98	65	11	18	32	19.05	103	16	L-4T
0450 12408180	-PHC0250SB -180	1	6.35	180	99	65	13	20	32	19.05	103	27	
0450 12412180	-PHC0375SB -180	1	9.525	180	100	65	17	24	32	19.05	101	33	
0450 12416180	-PHC0500SB -180	1	12.7	180	100	65	20	26	32	19.05	101	36	
0450 14008210	ST1250 -PHC0250SB -210	2	6.35	210	109	84	13	20	31.75	31.75	113	27	
0450 14012210	-PHC0375SB -210	2	9.525	210	110	84	17	24	31.75	31.75	111	33	
0450 14016210	-PHC0500SB -210	2	12.7	210	110	84	20	26	31.75	31.75	111	36	

- 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

ST20 - PHC03SB - 180
Shank size I.D. Total length (L)

Hex. wrench

P. 81

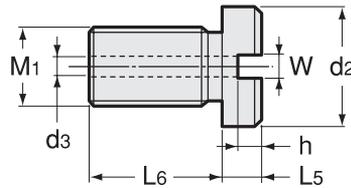


ST

Stopper Bolt

Unit : Metric

For PHC-H omega Ω only



For CAT, BT, UTS

BL

Code	Model	M1 P=1.0	L5	L6	W	h	d2	d3	Available Chuck I.D. (Inches)		Available Chuck I.D. (Metric)	
									CAT & BT	UTS	CAT & BT	UTS
0711 040016 ※※	BL 16 - L5	10	5, 15, 25	14	5	3.5	15	4.5	0.625	0.625 - 1.500	16	16 - 42
0711 040020 ※※	BL 20 - L5	12	5, 15, 25	14	5	3.5	18	4.5	0.750, 1.000	-	20, 25	-
0711 040032 ※※	BL 32 - L5	18	10, 20, 35	17	5	5	25	4.5	1.250, 1.500	-	32, 42	-

1. Choose right L5 dimension by checking minimum insertion length and shank I.D. depth.

Ordering Example

BL16 - 15
Size L5

For HSK

HSK-BL

Code	Model	M1	L5	L6	W	h	d2	d3	Available Shank Size
5691 04006305	HSK63 -BL - 5	M8 P=1.25	5	5.5	5	3	15	4	HSK63A
5691 040063 ※※	HSK63 -BL - L5	M8 P=1.25	15, 25	7.5	5	3	15	4	HSK63A
5691 040100 ※※	HSK100 -BL - L5	M10 P=1.5	5, 15, 25	14	5	3.5	15	4.5	HSK100A

Ordering Example

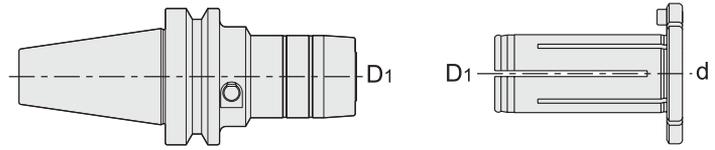
HSK63 - BL - 15
Shank Size L5

1. Choose right L5 dimension by checking minimum insertion length and shank I.D. depth.
2. Stopper bolts cannot be used with HSK63A-PHC32H-105 or HSK100A-PHC32H-110.

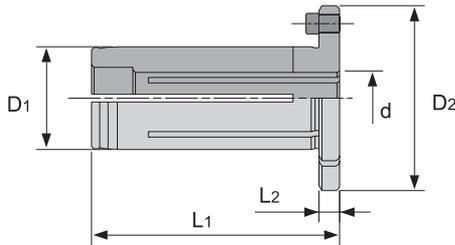
Collet with stopper pin for PHC-A

Minimum clamping length for PHS-A

Collet I.D. \square Metric	Collet I.D. \square Inch	Min. Clamping length Metric(Inch)
3, 4	1/8	25 (0.984)
5	3/16	30 (1.181)
6, 7	5/16	34 (1.339)
8, 9	7/16	38 (1.496)
10, 11	9/16, 1/4	42 (1.654)
12, 13, 14, 15, 16	3/8, 1/2, 5/8	50 (1.969)



For cutter with oil hole



Metric / Metric

Unit : Metric

Model	D1	D2	L1	L2	\square
PHS12- \square -OH	12	26	49	4	3, 4, 5, 6, 7, 8, 9, 10
PHS20- \square -OH	20	36	49	4	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

Metric / Inch

Unit : Inch

Model	D1	D2	L1	L2	\square
PHS12- \square -OH	0.472	1.024	1.929	0.158	1/8, 3/16, 1/4, 5/16
PHS20- \square -OH	0.787	1.418	1.929	0.158	1/8, 3/16, 1/4, 5/16, 7/16, 1/2, 9/16, 5/8

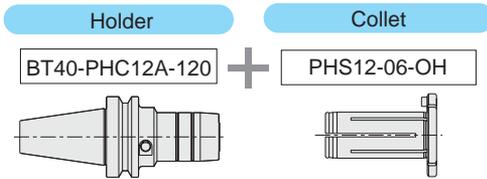
Inch / Inch

Unit : Inch

Model	D1	D2	L1	L2	\square
PHS0500- \square -OH	0.500	1.024	1.929	1.158	1/8, 3/16, 1/4, 5/16
PHS0750- \square -OH	0.750	1.418	1.929	0.158	1/8, 3/16, 1/4, 5/16, 7/16, 1/2, 9/16, 5/8

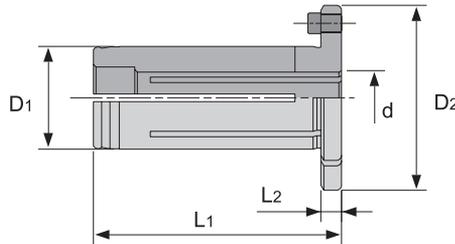
Ordering Example

To hold $\phi 6$ cutting tool with BT40-PHC12A-120



The collet with stopper pin can be used with PHC12A and PHC20A only.
The collet with stopper pin can be used with the length adjustment unit.

For collet through coolant



Metric / Metric

Unit : Metric

Model	D1	D2	L1	L2	\square
PHS12- \square -C	12	26	49	4	3, 4, 5, 6, 7, 8, 9
PHS20- \square -C	20	36	49	4	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

Metric / Inch

Unit : Inch

Model	D1	D2	L1	L2	\square
PHS12- \square -C	0.472	1.024	1.929	0.158	1/8, 3/16, 1/4, 5/16
PHS20- \square -C	0.787	1.418	1.929	0.158	1/8, 3/16, 1/4, 5/16, 7/16, 1/2, 9/16, 5/8

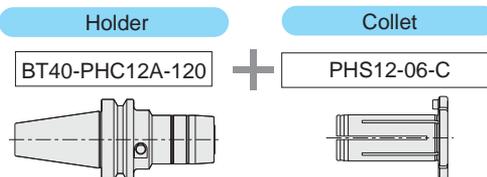
Inch / Inch

Unit : Inch

Model	D1	D2	L1	L2	\square
PHS0500- \square -C	0.500	1.024	1.929	1.158	1/8, 3/16, 1/4, 5/16
PHS0750- \square -C	0.750	1.418	1.929	0.158	1/8, 3/16, 1/4, 5/16, 7/16, 1/2, 9/16, 5/8

Ordering Example

To hold $\phi 6$ cutting tool using collet through coolant feed with BT40-PHC12A-120



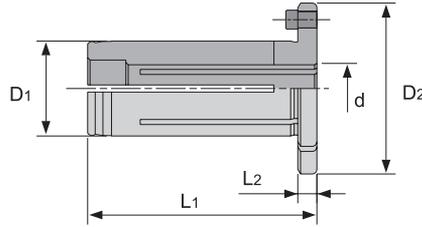
The collet with stopper pin can be used with PHC12A and PHC20A only.
The collet with stopper pin can be used with the length adjustment unit.

Collet with stopper pin for PHC-H

For cutter with oil hole



For collet through coolant



Min. Clamping length

Collet I.D. [d]	Min. Clamping length
6, 8 (0.250 - 0.312)	29 (1.142 inch)
10, 12, 16, 20 (0.375, 0.500, 0.625, 0.750)	40 (1.575 inch)
25 (1000)	50 (1.969 inch)

The collet with stopper pin can be used with PHC20H, PHC32H, PHC0750H and PHC1250H.

Ordering Example

To hold $\phi 6$ cutting tool with BT40-PHC20H-75

To hold $\phi 3/8$ cutting tool using collet through coolant feed with CAT40-PHC0750H-85

Chuck	Collet	Chuck	Collet
BT40-PHC20H-75	PHS20H-06-OH	CAT40--PHC0750H-85	PHS0750H-0375-C

METRIC-METRIC

For cutter with oil hole / Unit: Metric

Model	D1	D2	L1	L2	[d]
PHS 20H- d -OH	20 (0.787 inch)	41 (1.614 inch)	60 (2.362 inch)	4 (0.157 inch)	6, 8, 10, 12, 16
32H- d -OH	32 (1.260 inch)	55 (2.165 inch)	72 (2.835 inch)	54 (0.157 inch)	6, 8, 10, 12, 16, 20, 25

For collet through coolant / Unit: Metric

Model	D1	D2	L1	L2	[d]
PHS 20H- d -C	20 (0.787 inch)	41 (1.614 inch)	60 (2.362 inch)	4 (0.157 inch)	6, 8, 10, 12, 16
32H- d -C	32 (1.260 inch)	55 (2.165 inch)	72 (2.835 inch)	54 (0.157 inch)	6, 8, 10, 12, 16, 20, 25

METRIC-INCH

For cutter with oil hole / Unit: Metric

Model	D1	D2	L1	L2	[d]
PHS 20H- d -OH	20 (0.787 inch)	41 (1.614 inch)	60 (2.362 inch)	4 (0.157 inch)	0.250, 0.312, 0.375, 0.500, 0.625
32H- d -OH	32 (1.260 inch)	55 (2.165 inch)	72 (2.835 inch)	4 (0.157 inch)	0.250, 0.312, 0.375, 0.500, 0.625, 0.750, 1

For collet through coolant / Unit: Metric

Model	D1	D2	L1	L2	[d]
PHS 20H- d -C	20 (0.787 inch)	41 (1.614 inch)	60 (2.362 inch)	4 (0.157 inch)	0.250, 0.312, 0.375, 0.500, 0.625
32H- d -C	32 (1.260 inch)	55 (2.165 inch)	72 (2.835 inch)	4 (0.157 inch)	0.250, 0.312, 0.375, 0.500, 0.625, 0.750, 1

INCH-INCH

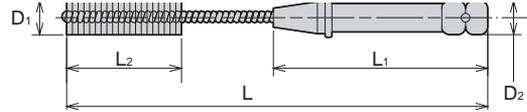
For cutter with oil hole / Unit: Inch

Model	D1	D2	L1	L2	[d]
PHS 0750H- d -OH	0.750 (19.05mm)	1.614 (41mm)	2.362 (60mm)	0.157 (4mm)	0.250, 0.312, 0.375, 0.500, 0.625
1250H- d -OH	1.250 (31.75mm)	2.165 (55mm)	2.835 (72mm)	0.157 (4mm)	0.250, 0.312, 0.375, 0.500, 0.625, 0.750, 1

For collet through coolant / Unit: Inch

Model	D1	D2	L1	L2	[d]
PHS 0750H- d -C	0.750 (19.05mm)	1.614 (41mm)	2.362 (60mm)	0.157 (4mm)	0.250, 0.312, 0.375, 0.500, 0.625
1250H- d -C	1.250 (31.75mm)	2.165 (55mm)	2.835 (72mm)	0.157 (4mm)	0.250, 0.312, 0.375, 0.500, 0.625, 0.750, 1

Inner Shank Cleaner Brush



ST-L-PHC
PHC-A PHZ-SB
PHC-SB (-C, -NC)

Code	Model	D ₁	D ₂	L	L ₁	L ₂
3934 60000003	ISC -03	4	8	100	56	30
3934 60000004	ISC -04	5	8	100	56	30
3934 60000006	ISC -06	8	8	100	56	30
3934 60000007	ISC -07	9	8	110	56	30
3934 60000008	ISC -08	10	8	110	56	40
3934 60000009	ISC -09	11	8	110	56	40
3934 60000010	ISC -10	12	8	110	56	40
3934 60000011	ISC -11	13	8	130	56	40
3934 60000012	ISC -12	14	8	130	56	40

Can be used with equivalent Inch I.D.

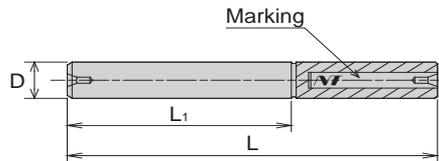
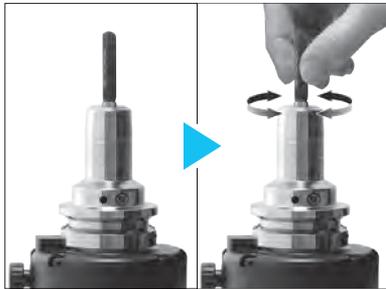
To clean inner shank of Hydro Chuck, etc.

※ One Inner shank cleaner brush per holder is included in the original product box.

Ordering Example

ISC - 03
I.D. size

Torque Check Gauge



PHC-A PHC-H
PHC-SB (-C, -NC) PHZ-SB

PHC-A, PHC-SB(-C, -NC), PHZ-SB

Code	Model	D	L	L ₁
3934 70000003	TG-PHC03	3	50	25
3934 70000004	TG-PHC04	4	55	30
3934 70000006	TG-PHC06	6	65	35
3934 70000007	TG-PHC07	7	65	35
3934 70000008	TG-PHC08	8	65	35
3934 70000009	TG-PHC09	9	76	46
3934 70000010	TG-PHC10	10	76	46
3934 70000011	TG-PHC11	11	76	46
3934 70000012	TG-PHC12	12	76	46
3934 70000013	TG-PHC13	13	76	46
3934 70000014	TG-PHC14	14	76	46
3934 70000015	TG-PHC15	15	76	46
3934 70000016	TG-PHC16	16	76	46
3934 70000018	TG-PHC18	18	76	46
3934 70000020	TG-PHC20	20	76	46
3934 70000025	TG-PHC25	25	86	56
3934 70000032	TG-PHC32	32	101	71
3934 70000125	TG-PHC0125	3.175	65	35
3934 70000250	TG-PHC0250	6.35	65	35
3934 70000312	TG-PHC0312	7.94	65	35
3934 70000500	TG-PHC0500	12.7	76	46
3934 70000625	TG-PHC0625	15.875	76	46
3934 70000750	TG-PHC0750	19.05	76	46
3934 70001000	TG-PHC1000	25.4	86	56
3934 70001250	TG-PHC1250	31.75	101	71

If the Torque check gauge can't be rotated with your fingers, there is no loss of gripping force.

1. Please perform the gripping force check at an ambient temperature of 20-25°C
2. Use check torque gauge to test gripping force by hand. Please do not remove the torque gauge any other way.
3. When you clamp the torque check gauge, make sure the gauge is past the minimum insertion length.
4. This cannot be used for the HC type.
5. For use with custom products, please contact NT TOOL.

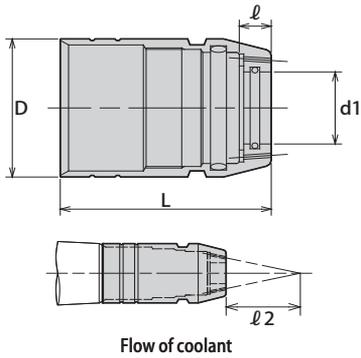
Ordering Example

TG - PHC 03
I.D. size

PHC-H

Code	Model	D	L	L ₁
2584 70000016	TG-PHC16H	16	81	51
2584 70000020	TG-PHC20H	20	86	56
2584 70000025	TG-PHC25H	25	91	61
2584 70000032	TG-PHC32H	32	101	71
2584 70000042	TG-PHC42H	42	109	79
3935 00012000	TG-PHC0625H	15.875	81	51
3935 00013000	TG-PHC0750H	19.05	86	56
3935 00014000	TG-PHC1000H	25.4	91	61
3935 00015000	TG-PHC1250H	31.75	101	71
3935 00016000	TG-PHC1500H	38.1	109	79

Cap for PHC·SB-NC

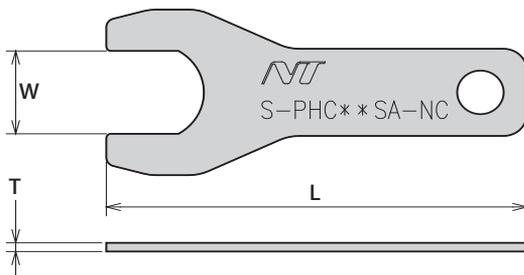


Code	Model	Matched chuck size	d1	D	L	l	l2
3954 06010004	CP-PHC04SB-NC	PHC04SB-NC	4	15	33	5	20
3954 06010006	CP-PHC06SB-NC	PHC06SB-NC	6	17	28	5	30
3954 06010008	CP-PHC08SB-NC	PHC08SB-NC	8	19	28	5	40
3954 06010010	CP-PHC10SB-NC	PHC10SB-NC	10	21	33	5	50
3954 06010012	CP-PHC12SB-NC	PHC12SB-NC	12	23	33	5	60

Ordering Example

CP - PHC04SB - NC

Spanner for PHC·SB-NC

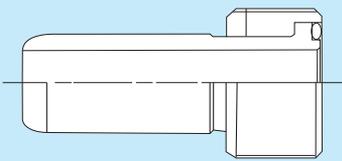


Code	Model	W	L	T
3954 05020004	S-PHC04SA-NC	13	77.5	2
3954 05020006	S-PHC06SA-NC	15	83.5	2
3954 05020008	S-PHC08SA-NC	17	89.5	2
3954 05020010	S-PHC10SA-NC	19	90.5	2
3954 05020012	S-PHC12SA-NC	21	91.5	2

Ordering Example

S - PHC04SA - NC

Coolant Tube



Code	Model
530300111000	HSK63A-CL-SET
530300112000	HSK100A-CL-SET

Coolant tube is available as replacement parts.

Wrench



Ordering Example

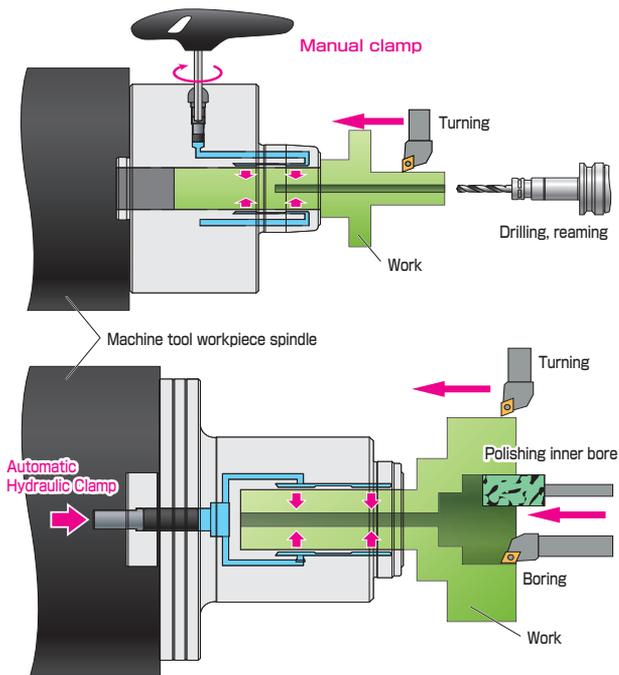
L - 3T

Code	Model
608000000030	L-3T
608000115576	L-4T
608000115577	L-5T
608000115578	L-6T

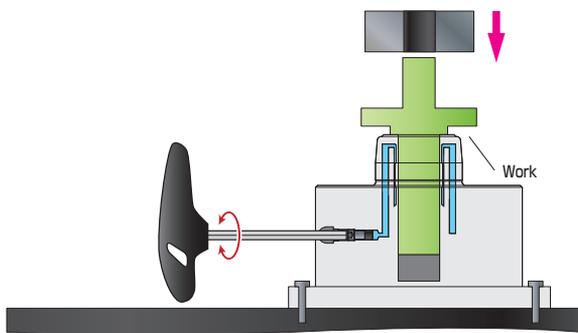
You can take advantage of a the unique features of the Hydro Clamp through a variety of applications!

As a high-precision work chuck!

As a clamping jig for polishing and finishing on a lathe machine!
*Auto-clamping can be done using hydraulic cylinder.

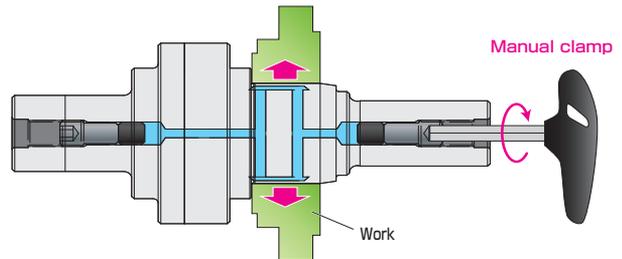


Example of use as a clamping jig for assembling

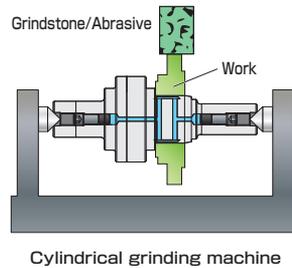


As a high-precision mandrel arbor!

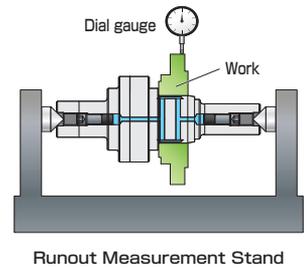
For both polishing and inspection center arbors!



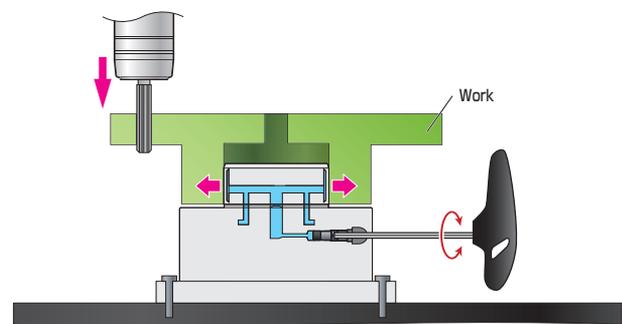
Grinding example



Example of measuring runout of both centers



Example of use as clamping jig for machining center



Please contact us of any requests!

- Limit of expansion and contraction is 0.2-0.3% of the diameter for ø50 or less.
- To estimate the tolerance for a hole in a work piece, please use 0.1% of the diameter.
- Consider using additional measures to prevent work piece slippage when used as a clamping jig.

Increased pressure and spray of coolant. ATC compatible high pressure cleaning tool.

Remove chips with precision aim.

Remove chips in 0.5 sec (Dia.7, depth 100 mm).

Consolidate operations and improve work.

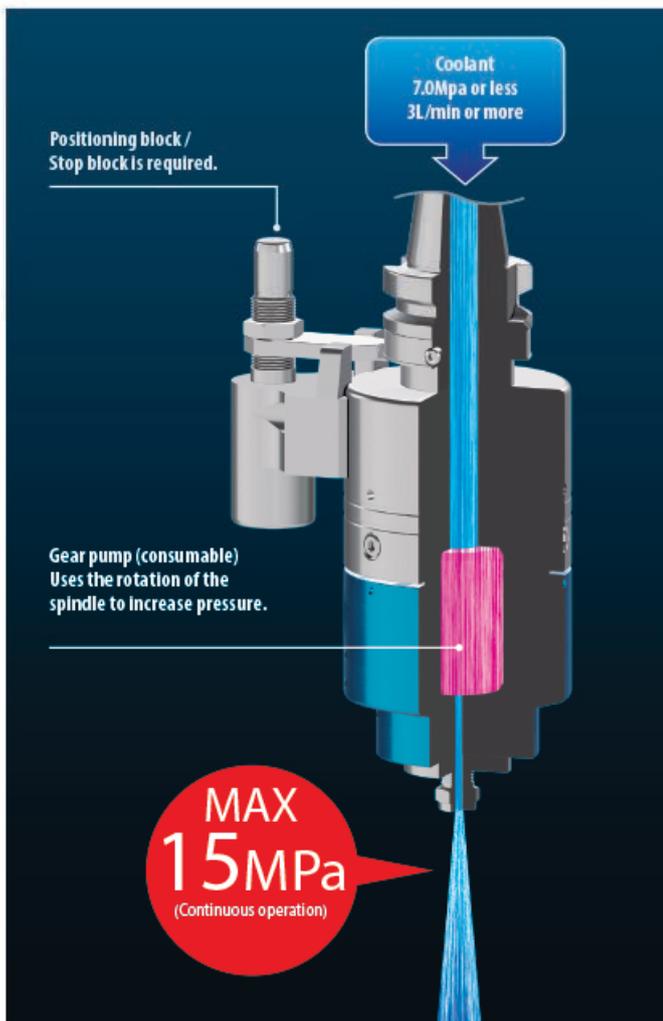
No need for high pressure washing machines, Machines are not left idle.

Implement energy and space saving.

There is no requirement for an extra high-pressure pump or cooling device.



Mechanisms



Specifications

Recommended Application Environment

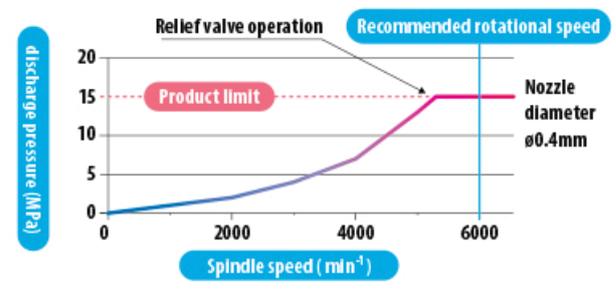
Input (M/C output)	Recommended Rotation Speed *1	6,000min ⁻¹
	Coolant filtration filter	10μm or less is recommended.

Oil skimmer or other oil removal equipment is recommended.
Do not use this product on machines that process castings. Casting powder in the coolant may significantly reduce the product life.

Specifications (standard specifications)

Input (M/C output)	Coolant input pressure	7.0MPa or less
	Coolant in flow rate	3L/min or more
	Coolant temperature	40°C or less
Output	Max. coolant discharge pressure	15MPa
	Discharge flow rate (at 15MPa)	1.23L/min
	Standard nozzle hole diameter	0.4 mm
Other	Coolant used	Water-soluble only (Dilution density 10 % or less)

Spindle speed and discharge pressure



" R " Zero Setter SPZ-2

Easy to measure runout accuracy
Equipped with rotary holder support

Available in various tool shank types.
(BT, HSK, UTS, AHO, CAT, SK)

Equipped with holder clamping device

Tool change can be done when the holder is fixed / clamped with 4-8kN drawing pressure.



Measurement range
0-460mm in length

NT TOOL, the best protection against rust!

NT TOOL holders are rustproofed as standard!

*Some holders are excluded.

- Protect spindle from damage
- Longer cutting tool life
- Maintain good accuracy
- Maintenance Free



Competitor's products

Rustproof coating on entire surface including the tapered shank (BT, CAT, SK only).

- Prevent seizure and scoring caused by metal abrasion against the machine spindle.
- Rustproof coating protects spindle from abnormal wearing.
- Safe with water-soluble coolant.

WORLDWIDE NETWORK



- 🇯🇵 TOKYO OFFICE
- 🇯🇵 NAGOYA OFFICE
- 🇯🇵 OSAKA OFFICE
- 🇯🇵 HIROSHIMA OFFICE
- 🇯🇵 KYUSHU OFFICE
- 🇯🇵 HEAD FACTORY
- 🇯🇵 IIDA FACTORY

- 🇺🇸 NT USA CORPORATION
- 🇲🇽 NT TOOL DE MEXICO S.A. DE C.V.
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- 🇹🇭 NT TOOL (THAI) CO., LTD. (Office)
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