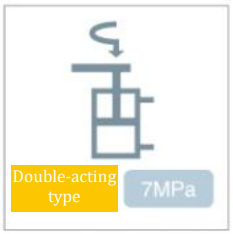
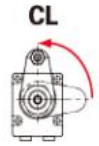


Compact, high-capacity, durable, cost-effective rotary clamp

Model Representation

HLHA ①②③ **(Example: HLHA0480-CR)**

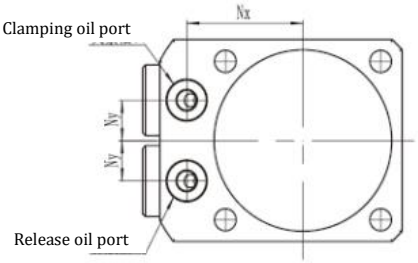
HLHA	① Dimensions (refer to specification sheet)		-	② Clamping arm installation direction
	0360	0650		CL: Left
	0400	0750		CR: Right
	0480	0900		
	0550	1050		

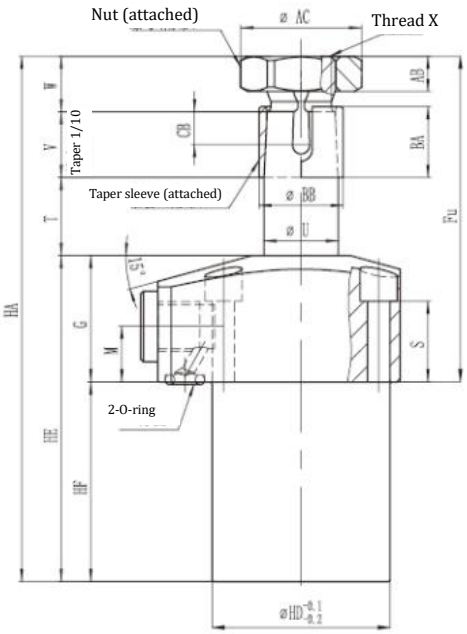


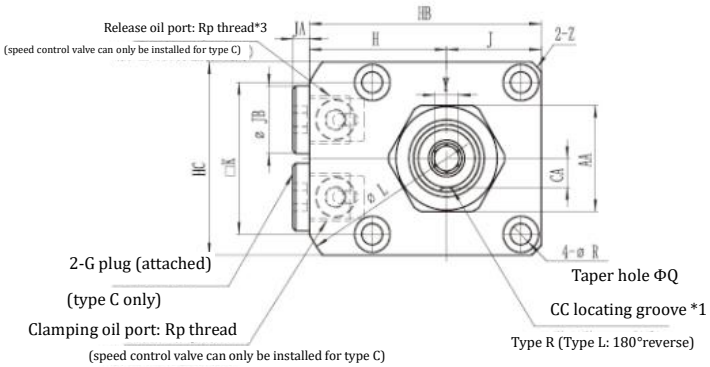
Specification

Model			HLHA0360	HLHA0400	HLHA0480	HLHA0550	HLHA0650	HLHA0750	HLHA0900	HLHA1050
Cylinder capacity (when the oil pressure is 7MPa)		(kN)	2.4	3.25	4.25	7	9.2	14.1	20.5	28.65
Clamping force ※1	When the oil pressure pressure is 7MPa	(kN)	2	2.8	4.15	6.15	7.95	12.3	17.35	24.55
	Clamping arm length (LH)	(mm)	30	40	50	50	50	50	60	80
Main rod diameter		(mm)	15	18	22	25	30	35.5	45	55
Bore of cylinder		(mm)	26	31	37	44	51	62	76	91
Cylinder area (clamping)		(cm^2)	3.5	4.8	6.8	10.2	13.2	20.1	29.3	41.2
Full stroke		(mm)	13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke		(mm)	5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke		(mm)	8	8	8	10	10	12	12	16
Rotation angle accuracy			90°±3°							
Clamping location repeat accuracy			±0.5°							
Maximum working pressure		(Mpa)	7							
Minimum acting pressure		(Mpa)	1.5							
Pressure resistance		(Mpa)	10.0							
Operating temperature		℃	0-70							
Use fluid			(ISO viscosity grade ISO-SG-32 general hydraulic oil)							

Overall Dimension







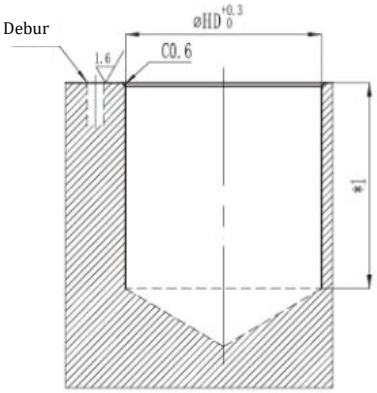
Precautions:

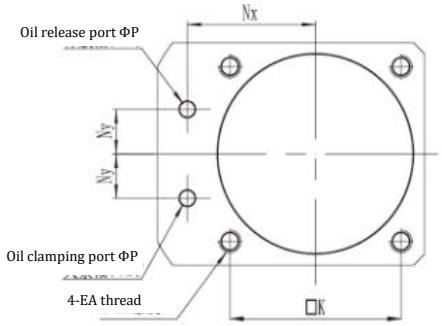
※1. The locating groove of the pressing plate faces the side of the oil supply port during clamping.

※2. This product does not come with installation bolts. The user is required to equip the equipment according to the installation height and the S dimension.

※3. This product does not come with a speed control valve. Please refer to Page 80 for additional equipment.

Processing Dimension of Installation Position





Precautions

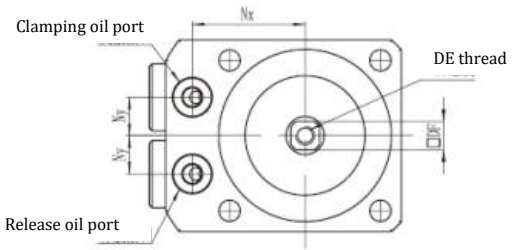
※1. Please refer to the HF dimension and determine the depth of the body installation hole ΦHD according to the installation height.

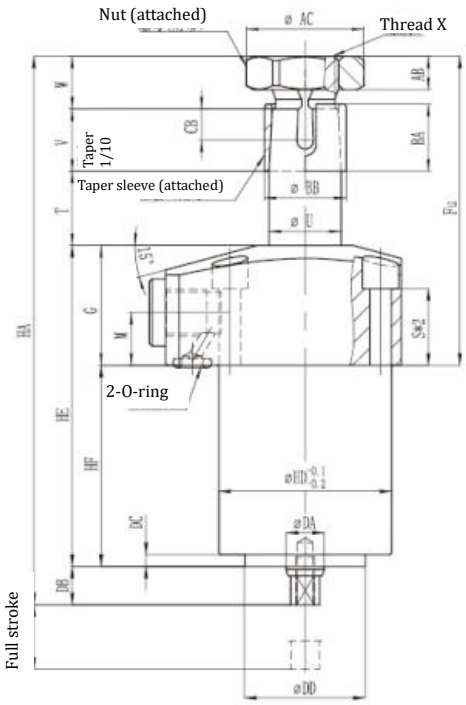
Overall Dimension and Installation Part Processing Installation Table

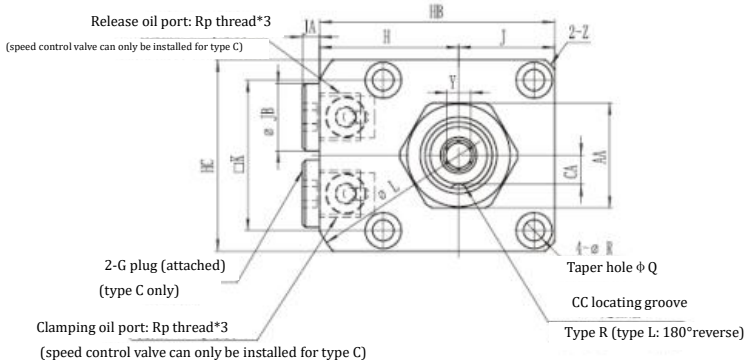
(mm)

Model		HLHA 0360-□□	HLHA 0400-□□	HLHA 0480-□□	HLHA 0550-□□	HLHA 0650-□□	HLHA 0750-□□	HLHA 0900-□□	HLHA 1050-□□
Full stroke		13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke (90°)		5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke		8	8	8	10	10	12	12	16
HA		104.1	115.1	128.6	145.6	156.1	181.1	203.1	240.1
HB		49	54	61	69	81	92	107	122
HC		40	45	51	60	70	80	95	110
HD		36	40	48	55	65	75	90	105
HE		64.5	71.5	79	89	94	109	120	144
HF		39.5	46.5	51	59	63	71	74	88
Fu		64.5	68.5	77.5	86.5	93	110	129	152
G		25	25	28	30	31	38	46	56
H		29	31.5	35.5	39	46	52	59.5	67
J		20	22.5	25.5	30	35	40	47.5	55
K		31.5	34.1	40.1	47.1	55.1	63.1	75.1	88.1
L		66	73	83	88	106	116	136	152
M		11	11	13	12	13	16	19	22
Nx		23.5	26	30	33.5	39.5	45	52.5	60
Ny		8	9	11	12	15	16	18.5	22.5
P		3	3	3	3	5	5	5	5
Q		7.5	9	9	11	11	14	17.5	20
R		4.5	5.5	5.5	6.8	6.8	9	11	14
S		16	15	17.5	17	17	21	25	32
T		15.5	16.5	17.5	20.5	22	26	28	34
U		15 f7	18 f7	22 f7	25 fz	30 f7	35.5 f7	45 f7	55 f7
V		13	15	18	21	24	30	37	43
W		11	12	14	15	16	16	18	19
X (nominal × pitch)		M14×1.5	M16×1.5	M20×1.5	M22×1.5	M27×1.5	M30×1.5	M39×1.5	M48×1.5
Y		5	6	8	8	10	10	14	14
Z (chamfer)		C2	C3	C3	C3	C4	C5	C6	C6
AA		22	24	30	32	41	46	55	65
AB		7	8	9	10	11	11	12	12
AC		24.5	26.5	33	35.5	45	50	60	71
BA		14	16	19	22	25	31	38	44
BB		17	20	25	28	34	40	49	60
CA		$6^{0}_{-0.05}$	$7^{0}_{-0.05}$	$9^{0}_{-0.05}$	$10^{0}_{-0.05}$	$12.5^{0}_{-0.05}$	$14^{0}_{-0.05}$	$18.5^{0}_{-0.05}$	$23^{0}_{-0.05}$
CB		6.5	6.5	7.5	9.5	11.5	12.5	11.5	13.5
CC		$4^{+0.05}_{0}$	$4^{+0.05}_{0}$	$5^{+0.05}_{0}$	$6^{+0.05}_{0}$	$6^{+0.05}_{0}$	$8^{+0.05}_{0}$	$8^{+0.05}_{0}$	$10^{+0.05}_{0}$
EA		M4×0.7	M5×0.8	M5×0.8	M6	M6	M8	M10	M12
JA		3.5	3.5	3.5	3.5	4.5	4.5	4.5	4.5
JB		14	14	14	14	19	19	22	22
Rp thread plug	Type RP	RP1/8	RP1/8	RP1/8	RP1/8	RP1/4	RP1/4	RP3/8	RP3/8
O-seal ring		4.8×1.9	4.8×1.9	4.8×1.9	4.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9
Cylinder capacity cm^3	During clamping During release	4.8 7.2	7.3 10.9	10.8 16.7	19 28.1	26.7 40.9	48.7 72.5	76.6 117.9	132.1 208.1
Weight ※8	kg	0.7	0.9	1.4	2	2.9	4.2	7.2	10.1

Overall Dimension







Precautions:

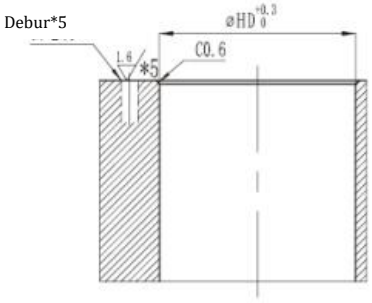
※ 1. The locating groove of the pressing plate faces the side of the oil supply port during clamping.

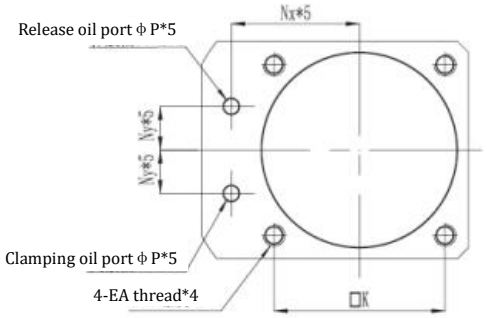
※ 2. This product does not come with installation bolts. The user is required to equip the equipment according to the installation height and the S dimension.

※ 3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※ Please inquire separately when using in combination with other detection methods and options.

Processing Dimension of Installation Position





Precautions:

4. Please refer to the S dimension and determine the EA thread depth of the installation bolts according to the installation height.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CRD)

① Dimensions (refer to specification sheet) ② Rotation direction (during clamping) ③Special specification mark

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	—	L: turn left R: turn right

D: double-rod type

Overall Dimension and Installation Part Processing Installation Table

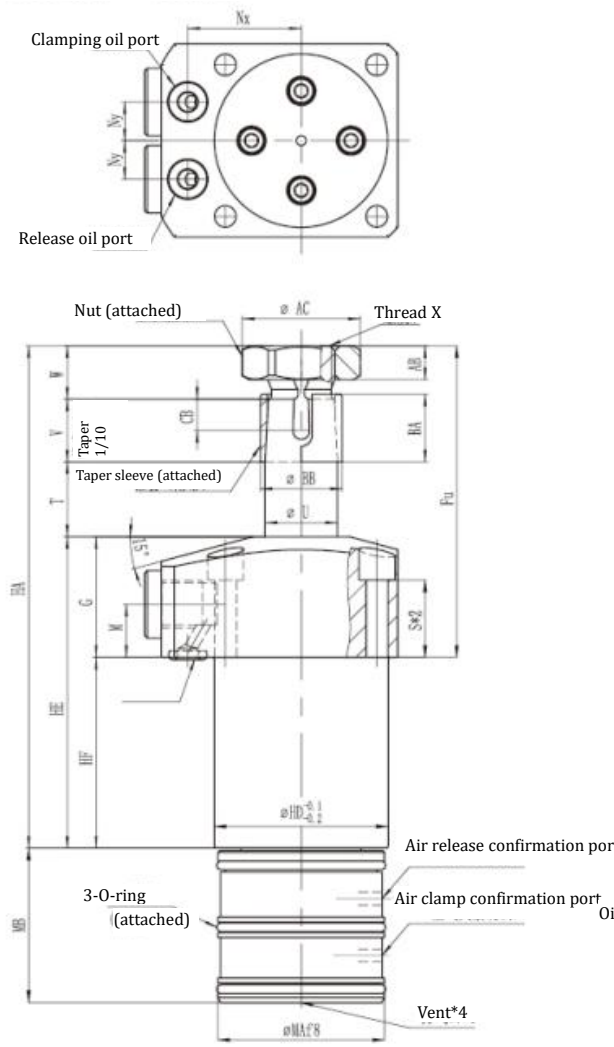
(mm)

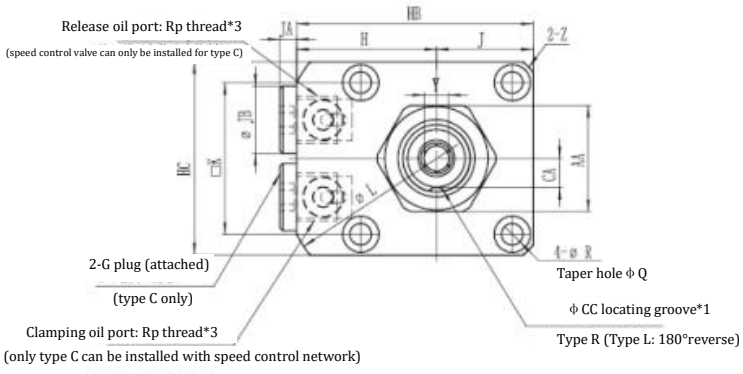
Model	HLHA 0360-□□D	HLHA 0400-□□D	HLHA 0480-□□D	HLHA 0550-□□D	HLHA 0650-□□D	HLHA 0750-□□D	HLHA 0900-□□D	HLHA 1050-□□D
Full stroke	13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke (90°)	5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke	8	8	8	10	10	12	12	16
HA	114.6	128.1	141.6	158.6	169.1	194.1	216.1	253.1
HB	49	54	61	69	81	92	107	122
HC	40	45	51	60	70	80	95	110
HD	36	40	48	55	65	75	90	105
HE	67	74.5	82	92	97	112	123	147
HF	42	49.5	54	62	66	74	77	91
Fu	64.5	68.5	77.5	86.5	93	110	129	152
G	25	25	28	30	31	38	46	56
H	29	31.5	35.5	39	46	52	59.5	67
J	20	22.5	25.5	30	35	40	47.5	55
K	31.5	34.1	40.1	47.1	55.1	63.1	75.1	88.1
L	66	73	83	88	106	116	136	152
M	11	11	13	12	13	16	19	22
Nx	23.5	26	30	33.5	39.5	45	52.5	60
Ny	8	9	11	12	15	16	18.5	22.5
P	3	3	3	3	5	5	5	5
Q	7.5	9	9	11	11	14	17.5	20
R	4.5	5.5	5.5	6.8	6.8	9	11	14
S	16	15	17.5	17	17	21	25	32
T	15.5	16.5	17.5	20.5	22	26	28	34
U	15 f7	18 f7	22 f7	25 f7	30 f7	35.5 f7	45 f7	55 f7
V	13	15	18	21	24	30	37	43
W	11	12	14	15	16	16	18	19
X (nominal × pitch)	M14×1.5	M16×1.5	M20×1.5	M22×1.5	M27×1.5	M30×1.5	M39×1.5	M48×1.5
Y	5	6	8	8	10	10	14	14
Z (chamfer)	C2	C3	C3	C3	C4	C5	C6	C6
AA	22	24	30	32	41	46	55	65
AB	7	8	9	10	11	11	12	12
AC	24.5	26.5	33	35.5	45	50	60	71
BA	14	16	19	22	25	31	38	44
BB	17	20	25	28	34	40	49	60
CA	$6^{0}_{-0.05}$	$7^{0}_{-0.05}$	$9^{0}_{-0.05}$	$10^{0}_{-0.05}$	$12.5^{0}_{-0.05}$	$14^{0}_{-0.05}$	$18.5^{0}_{-0.05}$	$23^{0}_{-0.05}$
CB	6.5	6.5	7.5	9.5	11.5	12.5	11.5	13.5
CC	$4^{+0.05}_{0}$	$4^{+0.05}_{0}$	$5^{+0.05}_{0}$	$6^{+0.05}_{0}$	$6^{+0.05}_{0}$	$8^{+0.05}_{0}$	$8^{+0.05}_{0}$	$10^{+0.05}_{0}$
DA	8	12	14	14	14	18	18	18
DB	8	10	10	10	10	10	10	10
DC	2.5	3	3	3	3	3	3	3
DD	25	29	36	36	43	50	65	80
DE (nominal × pitch)	M4×0.7×10	M6×15	M8×18	M8×18	M8×18	M10×21	M10×21	M10×21
DF	6	10	12	12	12	16	16	16
EA	M4×0.7	M5×0.8	M5×0.8	M6	M6	M8	M10	M12
JA	3.5	3.5	3.5	3.5	4.5	4.5	4.5	4.5
JB	14	14	14	14	19	19	22	22
Oil supply port for clamping Type RP	RP1/8	RP1/8	RP1/8	RP1/8	RP1/4	RP1/4	RP3/8	RP3/8
O-seal ring	4.8×1.9	4.8×1.9	4.8×1.9	4.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9
Cylinder capacity cm3 During clamping	4.8	7.3	10.8	19	26.7	48.7	76.6	132.1
Cylinder capacity cm3 During release	6.5	9.3	14.3	25.3	37.8	66.4	111.3	200
Weight※6 kg	0.7	0.9	1.4	2	3	4.2	7.3	10.3

Precautions ※6. It indicates the weight of the rotary cylinder including the nut and taper sleeve.

Overall Dimension

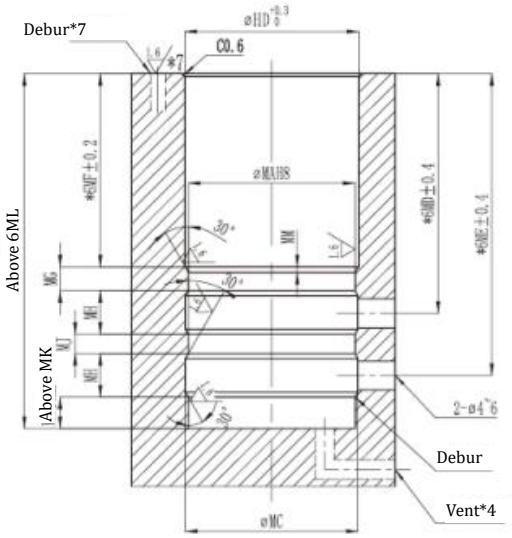
C: plate (attached RP thread plug)

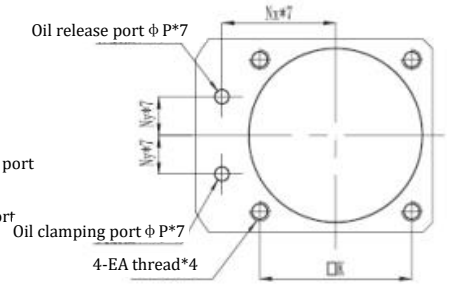




※This figure shows the released state of the HLHA-CRM

Processing Dimension of Installation Position





Precautions:

※4. The vent must be open to the atmosphere, and the intrusion of coolant and chips must be prevented.

※5. Please refer to the S dimension and determine the EA thread depth of the installation bolt according to the installation height.

※6. Dimensions indicate the dimensions under the flange.

Precautions:

※1. The platen positioning groove faces the oil supply port side when it is clamped.

※2. Installation bolts are not included with this product. Please configure it by yourself according to the installation height and with reference to the S dimension.

※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※Please inquire separately when using in combination with other detection methods and options.

Model Representation

HLHA ①-②③ (Example HLHA0550-CRM, HLHA0750-SLM))

①Dimensions (refer to specification sheet) ②Rotation direction (during clamping) ③Special specification mark

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	—	L: turn left R: turn right	M: Air sensor plate connection type

Overall Dimension and Installation Part Processing Installation Table

(mm)

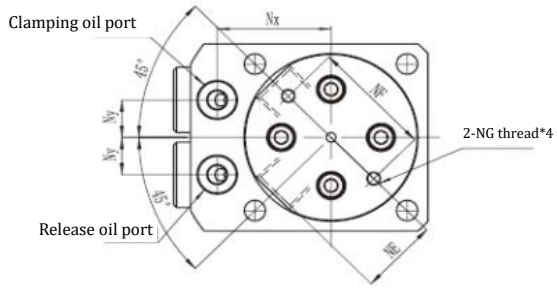
Model	HLHA 0360-□□M	HLHA 0400-□□M	HLHA 0480-□□M	HLHA 0550-□□M	HLHA 0650-□□M	HLHA 0750-□□M	HLHA 0900-□□M	HLHA 1050-□□M
Full stroke	13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke (90°)	5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke	8	8	8	10	10	12	12	16
HA	104.1	115.1	128.6	145.6	156.1	181.1	203.1	240.1
HB	49	54	61	69	81	92	107	122
HC	40	45	51	60	70	80	95	110
HD	36	40	48	55	65	75	90	105
HE	64.5	71.5	79	89	94	109	120	144
HF	39.5	46.5	51	59	63	71	123	88
Fu	64.5	68.5	77.5	86.5	93	110	129	152
G	25	25	28	30	31	38	46	56
H	29	31.5	35.5	39	46	52	59.5	67
J	20	22.5	25.5	30	35	40	47.5	55
K	31.5	34.1	40.1	47.1	55.1	63.1	75.1	88.1
L	66	73	83	88	106	116	136	152
M	11	11	13	12	13	16	19	22
Nx	23.5	26	30	33.5	39.5	45	52.5	60
Ny	8	9	11	12	15	16	18.5	22.5
P	3	3	3	3	5	5	5	5
Q	7.5	9	9	11	11	14	17.5	20
R	4.5	5.5	5.5	6.8	6.8	9	11	14
S	16	15	17.5	17	17	21	25	32
T	15.5	16.5	17.5	20.5	22	26	28	34
U	15 f7	18 f7	22 f7	25 f7	30 f7	35.5 f7	45 f7	55 f7
V	13	15	18	21	24	30	37	43
W	11	12	14	15	16	16	18	19
X (nominal × pitch)	M14×1.5	M16×1.5	M20×1.5	M22×1.5	M27×1.5	M30×1.5	M39×1.5	M48×1.5
Y	5	6	8	8	10	10	14	14
Z (chamfer)	C2	C3	C3	C3	C4	C5	C6	C6
AA	22	24	30	32	41	46	55	65
AB	7	8	9	10	11	11	12	12
AC	24.5	26.5	33	35.5	45	50	60	71
BA	14	16	19	22	25	31	38	44
BB	17	20	25	28	34	40	49	60
CA	$6_{-0.05}^{0}$	$7_{-0.05}^{0}$	$9_{-0.05}^{0}$	$10_{-0.05}^{0}$	$12.5_{-0.05}^{0}$	$14_{-0.05}^{0}$	$18.5_{-0.05}^{0}$	$23_{-0.05}^{0}$
CB	6.5	6.5	7.5	9.5	11.5	12.5	11.5	13.5
CC	$4_{0}^{+0.05}$	$4_{0}^{+0.05}$	$5_{0}^{+0.05}$	$6_{0}^{+0.05}$	$6_{0}^{+0.05}$	$8_{0}^{+0.05}$	$8_{0}^{+0.05}$	$10_{0}^{+0.05}$
EA	M4×0.7	M5×0.8	M5×0.8	M6	M6	M8	M10	M12
MAf8	$34.5_{-0.064}^{-0.025}$	$38_{-0.064}^{-0.025}$	$45_{-0.064}^{-0.025}$	$45_{-0.064}^{-0.025}$	$45_{-0.064}^{-0.025}$	$53_{-0.076}^{-0.030}$	$53_{-0.076}^{-0.030}$	$53_{-0.076}^{-0.030}$
MAH8	$34.5_{0}^{+0.039}$	$38_{0}^{+0.039}$	$45_{0}^{+0.039}$	$45_{0}^{+0.039}$	$45_{0}^{+0.039}$	$53_{0}^{+0.046}$	$53_{0}^{+0.046}$	$53_{0}^{+0.046}$
MB	32	33	38.5	38.5	40.5	49	49	57.5
MC	35.7	39.2	46.2	46.2	46.2	54.2	54.2	54.2
MD	49.4	57.5	65.4	73.4	79.4	86.5	89.5	106.5
ME	62.4	70.5	78.9	86.9	92.9	106	109	126
MF	40	47	53	61	65	74	77	94
MG	4.9	6	7.9	7.9	9.9	7.5	7.5	7.5
MH	9	9	9	9	9	10	10	10
MJ	4	4	4.5	4.5	4.5	9.5	9.5	9.5
MK	6.5	6.5	8	8	8	11	11	16.5
ML	73.4	81.5	91.4	99.4	105.4	122	125	147.5
MM	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
JA	3.5	3.5	3.5	3.5	4.5	4.5	4.5	4.5
JB	14	14	14	14	19	19	22	22
Oil supply port for clamping Type RP	RP1/8	RP1/8	RP1/8	RP1/8	RP1/4	RP1/4	RP3/8	RP3/8
Cylinder capacity cm3 During clamping	4.8	7.3	10.8	19	26.7	48.7	76.6	132.1
Cylinder capacity cm3 During release	6.5	9.3	14.3	25.3	37.8	66.4	111.3	200
Weight※8 kg	0.8	1	1.6	2.2	3.1	4.5	7.6	10.6

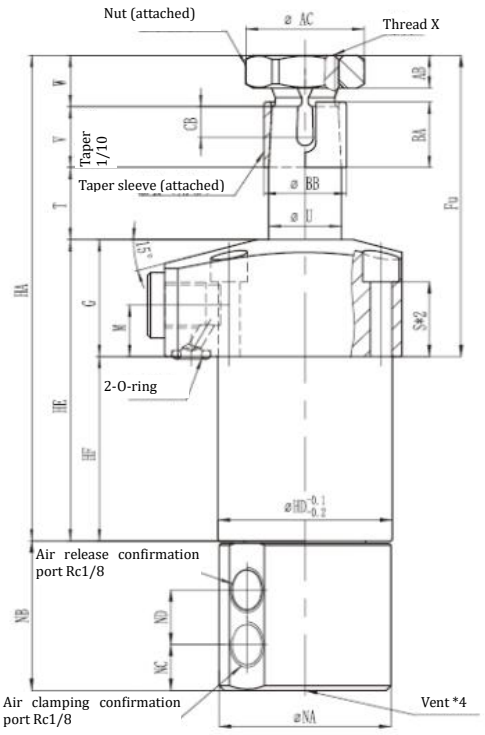
Precautions ※8. It indicates the weight of the rotary cylinder including the nut and taper sleeve.

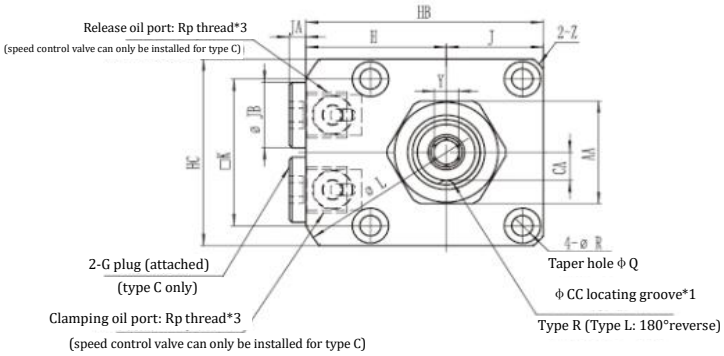
1. If you want to use the embedded air sensor, please call us.

Overall Dimension

C: plate (attached RP thread plug)

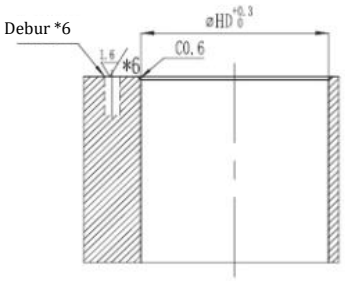


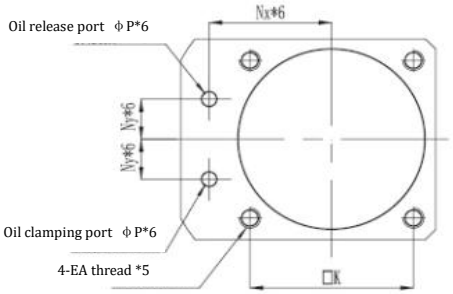




※This figure shows the released state of the HLHA-CRN type.

Processing Dimension of Installation Position



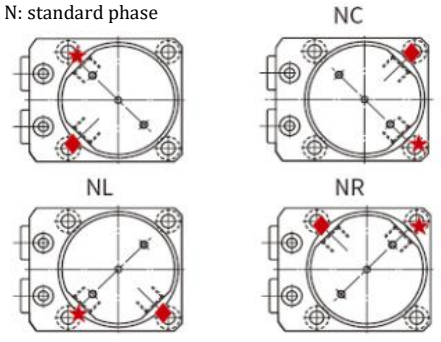


Precautions

※4. The vent must be open to the atmosphere, and the intrusion of coolant and chips must be prevented. If it is in direct contact with the coolant, accessories should be installed at the NG thread to prevent the intrusion of the coolant. However, the vent is not allowed to be blocked.

※5. Please refer to the S dimension and determine the EA thread depth of the installation bolt according to the installation height.

Phase of Clamping/Release Confirmation Port



★Part, release confirmation port

◆Part, clamping confirmation port

Precautions:

※1. The platen positioning groove faces the oil supply port side when it is clamped.

※2. Installation bolts are not included with this product. Please configure it by yourself according to the installation height and with reference to the S dimension.

※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※Please inquire separately when using in combination with other detection methods and options.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CRN)

①Dimensions (refer to specification sheet) ② Rotation direction (during clamping) ③ Special specification mark

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	—	L: turn left R: turn right

N: external piping type of air sensor

Overall Dimension and Installation Part Processing Installation Table

(mm)

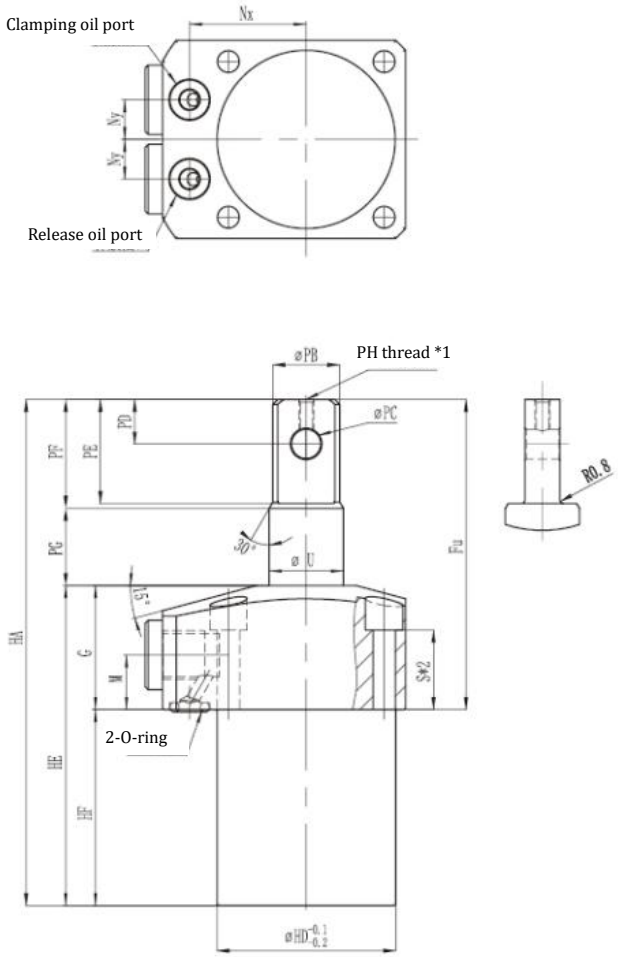
Model	HLHA 0360-□□N□	HLHA 0400-□□N□	HLHA 0480-□□N□	HLHA 0550-□□N□	HLHA 0650-□□N□	HLHA 0750-□□N□	HLHA 0900-□□N□	HLHA 1050-□□N□
Full stroke	13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke(90°)	5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke	8	8	8	10	10	12	12	16
HA	104.1	115.1	128.6	145.6	156.1	181.1	203.1	240.1
HB	49	54	61	69	81	92	107	122
HC	40	45	51	60	70	80	95	110
HD	36	40	48	55	65	75	90	105
HE	64.5	71.5	79	89	94	109	120	144
HF	39.5	46.5	51	59	63	71	123	88
Fu	64.5	68.5	77.5	86.5	93	110	129	152
G	25	25	28	30	31	38	46	56
H	29	31.5	35.5	39	46	52	59.5	67
J	20	22.5	25.5	30	35	40	47.5	55
K	31.5	34.1	40.1	47.1	55.1	63.1	75.1	88.1
L	66	73	83	88	106	116	136	152
M	11	11	13	12	13	16	19	22
Nx	23.5	26	30	33.5	39.5	45	52.5	60
Ny	8	9	11	12	15	16	18.5	22.5
P	3	3	3	3	5	5	5	5
Q	7.5	9	9	11	11	14	17.5	20
R	4.5	5.5	5.5	6.8	6.8	9	11	14
S	16	15	17.5	17	17	21	25	32
T	15.5	16.5	17.5	20.5	22	26	28	34
U	15 f7	18 f7	22 f7	25 f7	30 f7	35.5 f7	45 f7	55 f7
V	13	15	18	21	24	30	37	43
W	11	12	14	15	16	16	18	19
X(nominal × pitch)	M14×1.5	M16×1.5	M20×1.5	M22×1.5	M27×1.5	M30×1.5	M39×1.5	M48×1.5
Y	5	6	8	8	10	10	14	14
Z(chamfer)	C2	C3	C3	C3	C4	C5	C6	C6
AA	22	24	30	32	41	46	55	65
AB	7	8	9	10	11	11	12	12
AC	24.5	26.5	33	35.5	45	50	60	71
BA	14	16	19	22	25	31	38	44
BB	17	20	25	28	34	40	49	60
CA	$6^{\ 0}_{-0.05}$	$7^{\ 0}_{-0.05}$	$9^{\ 0}_{-0.05}$	$10^{\ 0}_{-0.05}$	$12.5^{\ 0}_{-0.05}$	$14^{\ 0}_{-0.05}$	$18.5^{\ 0}_{-0.05}$	$23^{\ 0}_{-0.05}$
CB	6.5	6.5	7.5	9.5	11.5	12.5	11.5	13.5
CC	$4^{+0.05}_{\ 0}$	$4^{+0.05}_{\ 0}$	$5^{+0.05}_{\ 0}$	$6^{+0.05}_{\ 0}$	$6^{+0.05}_{\ 0}$	$8^{+0.05}_{\ 0}$	$8^{+0.05}_{\ 0}$	$10^{+0.05}_{\ 0}$
EA	M4×0.7	M5×0.8	M5×0.8	M6	M6	M8	M10	M12
NA	35.5	39.5	45	45	45	53	53	53
NB	32	33	38.5	38.5	40.5	49	49	57.5
NC	9.8	9	11	11	11	13	13	17
ND	11.7	13	14.5	14.5	14.5	20.5	20.5	24
NE	17	19	21	21	21	24.5	24.5	24.5
NF	25	29	29	29	29	38	38	38
NG(nominal × symmetry)	M3×0.5×5	M3×0.5×5	M3×0.5×5	M3×0.5×5	M3×0.5×5	M4×0.7×6	M4×0.7×6	M4×0.7×6
JA	3.5	3.5	3.5	3.5	4.5	4.5	4.5	4.5
JB	14	14	14	14	19	19	22	22
Oil supply port for clamping Type RP	RP1/8	RP1/8	RP1/8	RP1/8	RP1/4	RP1/4	RP3/8	RP3/8
O-seal ring	4.8×1.9	4.8×1.9	4.8×1.9	4.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9
3-O-seal ring	29.87×1.78	34.65×1.78	41×1.78	41×1.78	41×1.78	47.35×1.78	47.35×1.78	47.35×1.78
Cylinder capacity cm3 During clamping	4.8	7.3	10.8	19	26.7	48.7	76.6	132.1
Cylinder capacity cm3 During release	6.5	9.3	14.3	25.3	37.8	66.4	111.3	200
Weight※7 kg	0.8	1	1.6	2.2	3.1	4.5	7.6	10.6

Precautions ※7 It indicates the weight of the rotary cylinder including the nut and taper sleeve.

1. If you want to use the embedded air sensor, please call us.

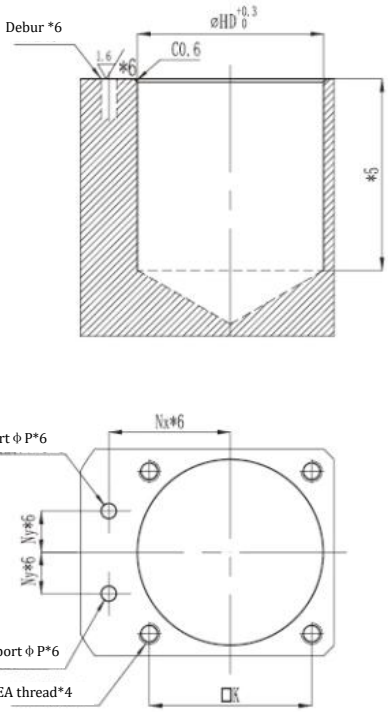
Overall Dimension

C: plate (attached RP thread plug)



※ This figure shows the released state of HLHA-C□-P.

Processing Dimension of Installation Position

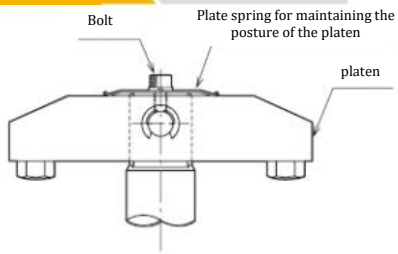


Precautions:

※ 4. Please refer to the S dimension and determine the EA thread depth of the installation bolt according to the installation height.

※ 5. Please refer to the HF dimension and determine the depth of the body installation hole Φ HD according to the installation height.

Double-clamping Arm Reference



Precautions:

※1. When the pressure arm position must be maintained, use the screw (PH thread) at the top of the piston rod.

※ 2. This product does not include the installation bolts. The user is required to provide the equipment according to the installation height and the S dimension.

※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※ Please inquire separately when using in combination with other detection methods and options.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CR-P)

①Dimensions (refer to specification sheet) ② Rotation direction (during clamping) ③ Special specification mark

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	—	L: turn left R: turn right

P: double-clamping arm

Overall Dimension and Installation Part Processing Installation Table

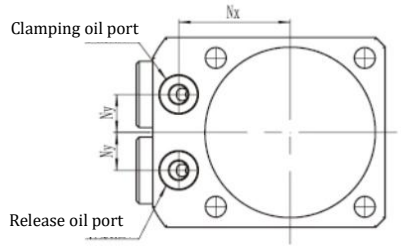
(mm)

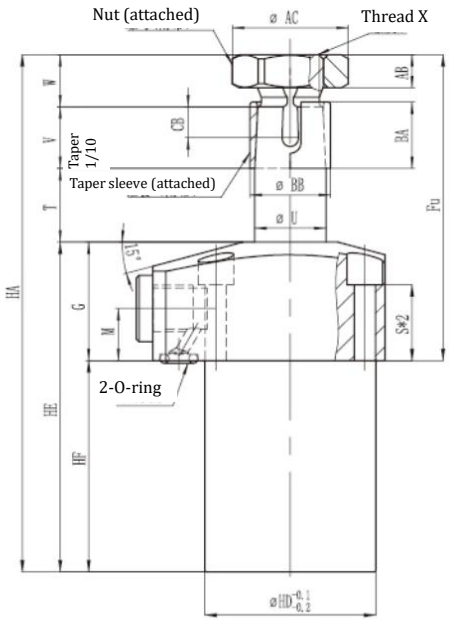
Model	HLHA 0360-□□ -P	HLHA 0400-□□ -P	HLHA 0480-□□ -P	HLHA 0550-□□ -P	HLHA 0650-□□ -P	HLHA 0750-□□ -P	HLHA 0900-□□ -P	HLHA 1050-□□ -P
Full stroke	13.5	14.5	15.5	18.5	20	24	26	32
Rotation stroke (90°)	5.5	6.5	7.5	8.5	10	12	14	16
Clamping stroke	8	8	8	10	10	12	12	16
HA	102.1	113.1	126.6	143.6	156.1	181.1	203.1	238.1
HB	49	54	61	69	81	92	107	122
HC	40	45	51	60	70	80	95	110
HD	36	40	48	55	65	75	90	105
HE	64.5	71.5	79	89	94	109	120	144
HF	39.5	46.5	51	59	63	71	74	88
Fu	62.5	66.5	75.5	84.5	93	110	129	150
G	25	25	28	30	31	38	46	56
H	29	31.5	35.5	39	46	52	59.5	67
J	20	22.5	25.5	30	35	40	47.5	55
K	31.5	34.1	40.1	47.1	55.1	63.1	75.1	88.1
L	66	73	83	88	106	116	136	152
M	11	11	13	12	13	16	19	22
Nx	23.5	26	30	33.5	39.5	45	52.5	60
Ny	8	9	11	12	15	16	18.5	22.5
P	3	3	3	3	5	5	5	5
Q	7.5	9	9	11	11	14	17.5	20
R	4.5	5.5	5.5	6.8	6.8	9	11	14
S	16	15	17.5	17	17	21	25	32
U	15 f7	18 f7	22 f7	25 f7	30 f7	35.5 f7	45 f7	55 f7
Z (chamfer)	C2	C3	C3	C3	C4	C5	C6	C6
EA	M4×0.7	M5×0.8	M5×0.8	M6	M6	M8	M10	M12
PA	7	8	10	12	14	16	22	26
PB	13.5	16	20	23	28	33.5	43	53
PC	6	6	8	23	13	13	16	20
PD	9	11	12	12.5	16.5	19	23.5	25.5
PE	21	24	27.5	31.5	38.5	43.5	52.5	58.5
PF	22	25	29	33	40	45	54	60
PG	15.5	16.5	18.5	21.5	22	27	29	34
PH	M3×0.5	M3×0.5	M4×0.7	M5×0.8	M6	M6	M8	M8
JA	3.5	3.5	3.5	3.5	4.5	4.5	4.5	4.5
JB	14	14	14	14	19	19	22	22
Oil supply port for clamping Type RP	RP1/8	RP1/8	RP1/8	RP1/8	RP1/4	RP1/4	RP3/8	RP3/8
O-seal ring	4.8×1.9	4.8×1.9	4.8×1.9	4.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9	6.8×1.9
3-O-seal ring	29.87×1.78	34.65×1.78	41×1.78	41×1.78	41×1.78	41×1.78	47.35×1.78	47.35×1.78
Cylinder capacity cm3 During clamping	4.8	7.3	10.8	19	26.7	48.7	76.6	132.1
Cylinder capacity cm3 During release	7.2	10.9	16.7	28.1	40.9	72.5	117.9	208.1
Weight※7 kg	0.7	0.9	1.3	1.9	2.8	4	7	9.8

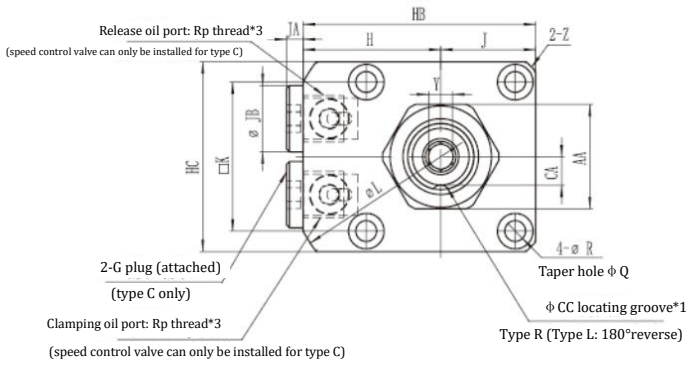
Notes: ※7. It indicates the weight of a single rotary cylinder.

Overall Dimension

C: plate (attached RP thread plug)





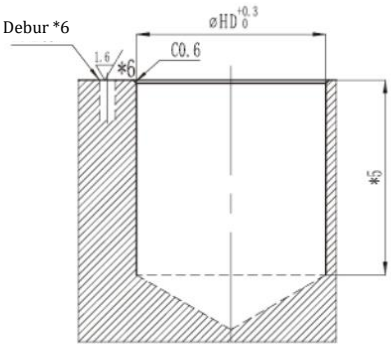


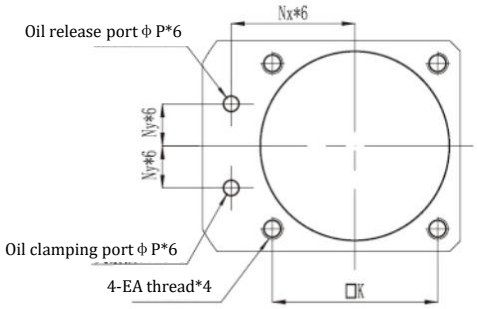
※This figure shows the released state of HLHA-CR-Q.

Precautions:

※1. The platen positioning groove faces the oil supply port side when it is clamped.
※2. Installation bolts are not included with this product. Please configure it by yourself according to the installation height and with reference to the S dimension.
※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.
※Please inquire separately when using in combination with other detection methods and options.

Processing Dimension of Installation Position





Precautions:

※4. Please refer to the S dimension and determine the EA thread depth of the installation bolt according to the installation height.
※5. Please refer to the HF dimension and determine the depth of the body installation hole ΦHD according to the installation height.
※This processing shows the case of -C: plate connection type.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CR-Q20)

①Dimensions (refer to specification sheet) ② Rotation direction (during clamping) ③ Special specification mark

HLHA	0360 0400 0480 0550 0650 0750 0900	—	L: turn left R: turn right	Q15: clamping stroke 15mm Q20: clamping stroke 20mm Q25: clamping stroke 25mm Q30: clamping stroke 30mm

Overall Dimension and Installation Part Processing Installation Table

(mm)

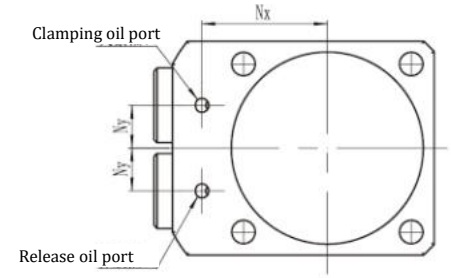
Model	HLHA 0360-□□ -Q□				HLHA 0400-□□ -Q□			HLHA 0480-□□ -Q□			HLHA 0550-□□ -Q□			HLHA 0650-□□ -Q□				HLHA 0750-□□ -Q□		HLHA 0900-□□ -Q□	
Option model ※7	Q15	Q20	Q25	Q30	Q15	Q20	Q25	Q15	Q20	Q25	Q15	Q20	Q25	Q15	Q20	Q25	Q30	Q20	Q25	Q20	Q25
Full stroke	20.5	25.5	33	38	21.5	26.5	34.5	22.5	27.5	36	23.5	28.5	33.5	25	30	35	40	32	37	34	39
Rotation stroke (90°)	5.5	5.5	8	8	6.5	6.5	9.5	7.5	7.5	11	8.5	8.5	8.5	10	10	10	10	12	12	14	14
Claming stroke	15	20	25	30	15	20	25	15	20	25	15	20	25	15	20	25	30	20	25	20	25
HA	125.1	140.1	162.6	177.6	136.1	151.1	175.1	149.6	164.6	190.1	160.6	175.6	190.6	171.1	186.1	201.1	216.1	205.1	220.1	227.1	242.1
HB	49				54			61			69			81				92		107	
HC	40				45			51			60			70				80		95	
HD	36				40			48			55			65				75		90	
HE	78.5	88.5	103.5	113.5	85.5	95.5	111.5	93	103	120	99	109	119	104	114	124	134	125	135	136	146
HF	53.5	63.5	78.5	88.5	60.5	70.5	86.5	65	75	92	69	79	89	73	83	93	103	87	97	90	100
Fu	71.5	76.5	84	89	75.5	80.5	88.5	84.5	89.5	98	91.5	96.5	101.5	98	103	108	113	118	123	137	142
G	25				25			28			30			31				38		46	
H	29				31.5			35.5			39			46				52		59.5	
J	20				22.5			25.5			30			35				40		47.5	
K	31.5				34.1			40.1			47.1			55.1				63.1		75.1	
L	66				73			83			88			106				116		136	
M	11				11			13			12			13				16		19	
Nx	23.5				26			30			33.5			39.5				45		52.5	
Ny	8				9			11			12			15				16		18.5	
P	3				3			3			3			5				5		5	
Q	7.5				9			9			11			11				14		17.5	
R	4.5				5.5			5.5			6.8			6.8				9		11	
S	16				15			17.5			17			17				21		25	
T	22.5	27.5	35	40	23.5	28.5	36.5	24.5	29.5	38	25.5	30.5	35.5	27	32	37	42	34	39	36	41
U	15 f7				18 f7			22 f7			25 f7			30 f7				35.5 f7		45 f7	
V	13				15			18			21			24				30		37	
W	11				12			14			15			16				16		18	
X (nominal × pitch)	M14×1.5				M16×1.5			M20×1.5			M22×1.5			M27×1.5				M30×1.5		M39×1.5	
Y	5				6			8			8			10				10		14	
Z (chamfer)	C2				C3			C3			C3			C4				C5		C6	
AA	22				24			30			32			41				46		55	
AB	7				8			9			10			11				11		12	
AC	24.5				26.5			33			35.5			45				50		60	
BA	14				16			19			22			25				31		38	
BB	17				20			25			28			34				40		49	
CA	$6_{-0.06}^{0}$				$7_{-0.06}^{0}$			$9_{-0.06}^{0}$			$10_{-0.06}^{0}$			$12.5_{-0.06}^{0}$				$14_{-0.06}^{0}$		$18.5_{-0.06}^{0}$	
CB	6.5				6.5			7.5			9.5			11.5				12.5		11.5	
CC	$4^{+0.06}_{0}$				$4^{+0.06}_{0}$			$5^{+0.06}_{0}$			$6^{+0.06}_{0}$			$6^{+0.06}_{0}$				$8^{+0.06}_{0}$		$8^{+0.06}_{0}$	
EA	M4×0.7				M8×0.8			M5×0.8			M6			M6				M8		M10	
JA	3.5				3.5			3.5			3.5			4.5				4.5		4.5	
JB	14				14			14			14			19				19		22	
Oil supply port for clamping Type RP	RP1/8				RP1/8			RP1/8			RP1/8			RP1/4				RP1/4		RP3/8	
O-seal ring	4.8×1.9				4.8×1.9			4.8×1.9			4.8×1.9			6.8×1.9				6.8×1.9		6.8×1.9	
Cylinder capacity cm3 During clamping	7.2	8.9	11.6	13.3	10.8	13.3	17.3	15.8	19.3	25.2	24.2	29.4	34.5	33.5	40.2	46.9	53.6	65	75.1	100.3	115.1
Cylinder capacity cm3 During release	10.9	13.5	17.5	20.2	16.2	20	26	24.2	29.6	38.7	35.7	43.3	50.9	51.1	61.3	71.5	81.7	96.6	111.7	154.2	176.9
Weight※8 kg	0.7	0.8	1	1	1	1.1	1.3	1.6	1.7	2	2.2	2.4	2.5	3.2	3.5	3.7	4	4.8	5.2	8.3	8.8

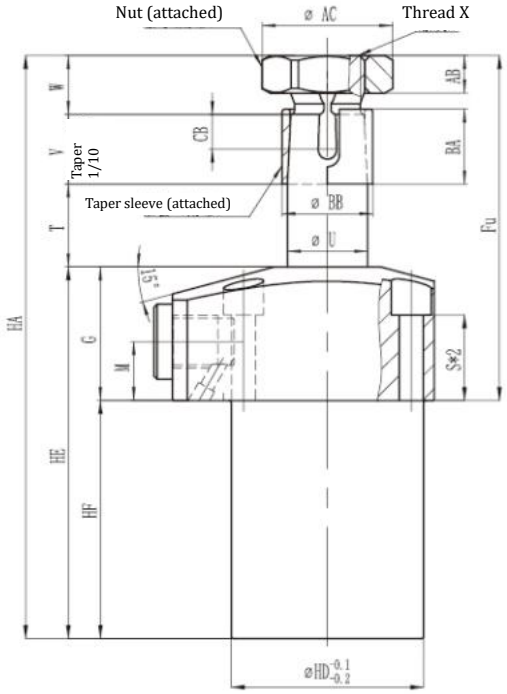
Precautions: ※7. Please refer to Page 44 when the stroke specified in the above table is exceeded.

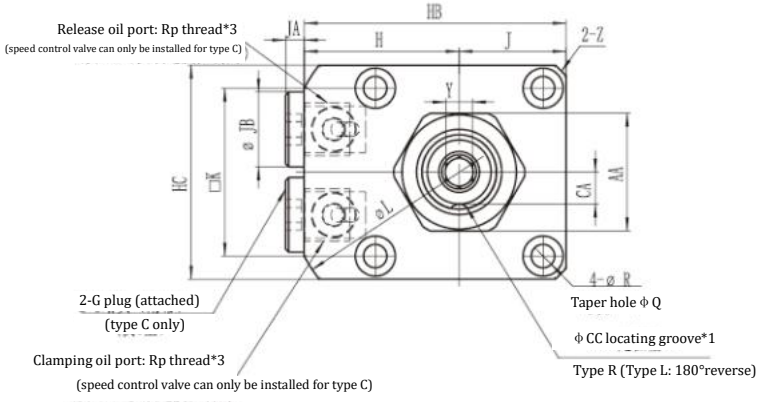
※8. It indicates the weight of a single rotary cylinder including nuts and taper sleeves.

Overall Dimension

C: plate (attached RP thread plug)

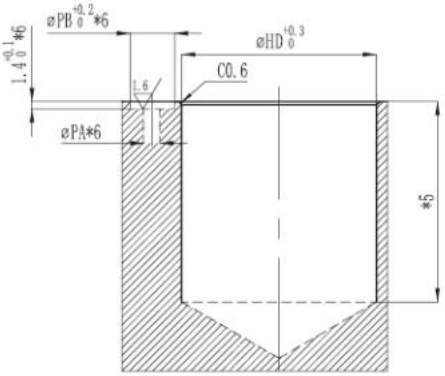


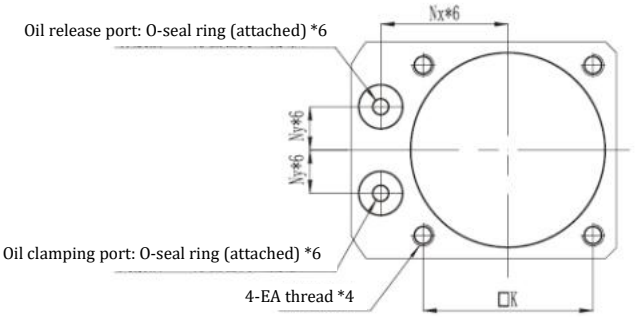




※This figure shows the released state of HLHA-CR-Q.

Processing Dimension of Installation Position





Precautions:

※4. Please refer to the S dimension and determine the EA thread depth of the installation bolt according to the installation height.

※5. Please refer to the HF dimension and determine the depth of the body installation hole ΦHD according to the installation height.

※This processing shows the case of -C: plate connection type.

Precautions:

※1. The platen positioning groove faces the oil supply port side when it is clamped.

※2. Installation bolts are not included with this product. Please configure it by yourself according to the installation height and with reference to the S dimension.

※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※Please inquire separately when using in combination with other detection methods and options.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CR-Q40, HLHA0750-SL-Q45)

① Dimensions (refer to specification sheet) ② Rotation direction (during clamping) ③ Special specification mark

HLHA			
	0360 0400 0480 0550	0650 0750 0900 1050	L: left R: right

Q35: clamp stroke 35mm
Q40: clamp stroke 40mm
Q45: clamp stroke 45mm
Q50: clamp stroke 50mm

Overall Dimension and Installation Part Processing Installation Table

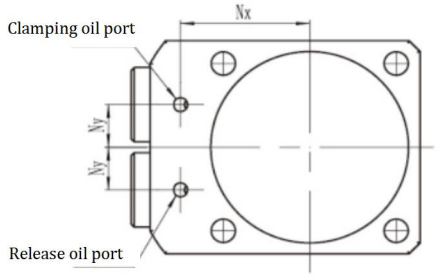
(mm)

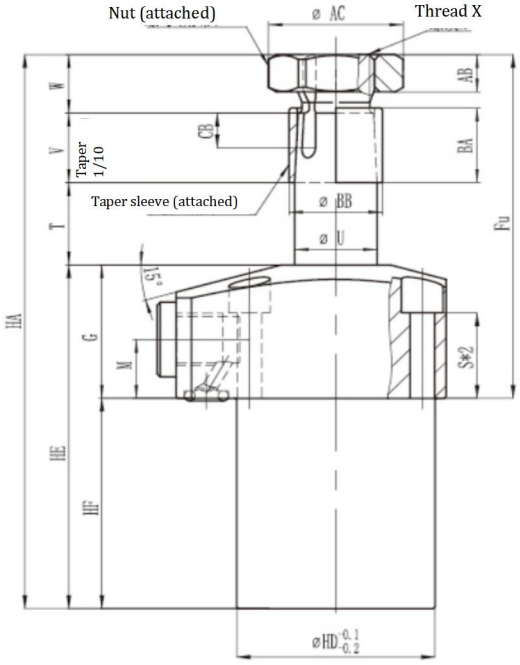
Model	HLHA 0360-□-Q□	HLHA 0400□-Q□			HLHA 0480-□-Q□			HLHA 0550-□-Q□					HLHA 0650-□-Q□				HLHA 0750-□-Q□					HLHA 0900-□-Q□					HLHA 1050-□-Q□					
Option model	Q35	Q30	Q35	Q40	Q30	Q35	Q40	Q30	Q35	Q40	Q45	Q50	Q35	Q40	Q45	Q50	Q30	Q35	Q40	Q45	Q50	Q30	Q35	Q40	Q45	Q50	Q25	Q30	Q35	Q40	Q45	Q50
Full stroke	43	39.5	44.5	49.5	41	46	51	42	47	52	57	62	50	60	65	42	47	55	60	65	44	49	57	62	67	41	46	51	56	61	66	
Rotation stroke (90°)	8	9.5	9.5	9.5	11	11	11	12	12	12	12	12	15	15	15	15	12	12	15	15	15	14	14	17	17	17	16					
Clamp stroke	35	30	35	40	30	35	40	30	35	40	45	50	35	40	45	50	30	35	40	45	50	30	35	40	45	50	25	30	35	40	45	50
HA	192.6	190.1	205.1	220.1	205.1	220.1	235.1	216.1	231.1	246.1	261.1	276.1	246.1	261.1	276.1	291.1	235.1	250.1	274.1	289.1	304.1	257.1	272.1	296.1	311.1	326.1	267.1	282.1	297.1	312.1	327.1	342.1
HB	49	54			61			69					81				92					107					122					
HC	40	45			51			60					70				80					95					110					
HD	36	40			48			55					65				75					90					105					
HE	123.5	121.5	131.5	141.5	130	140	150	136	146	156	166	176	154	164	174	184	145	155	171	181	191	156	166	182	192	202	162	172	182	192	202	212
HF	98.5	96.5	106.5	116.5	102	112	122	106	116	126	136	146	123	133	143	153	107	117	133	143	153	110	120	136	146	156	106	116	126	136	146	156
Fu	94	93.5	98.5	103.5	103	108	113	110	115	120	125	130	123	128	133	138	128	133	141	146	151	147	152	160	165	170	161	166	171	176	181	186
G	25	25			28			30					31				38					46					56					
H	29	31.5			35.5			39					46				52					59.5					67					
J	20	22.5			25.5			30					35				40					47.5					55					
K	31.5	34.1			40.1			47.1					55.1				63.1					75.1					88.1					
L	66	73			83			88					106				116					136					152					
M	11	11			13			12					13				16					19					22					
Nx	23.5	26			30			33.5					39.5				45					52.5					60					
Ny	8	9			11			12					15				16					18.5					22.5					
PA	3	3			3			3					5				5					5					5					
PB	8	8			8			8					10				10					10					10					
Q	7.5	9			9			11					11				14					17.5					20					
R	4.5	5.5			5.5			6.8					6.8				9					11					14					
S	16	15			17.5			17					17				21					25					32					
T	45	41.5	46.5	51.5	43	48	53	44	49	54	59	64	52	57	62	67	44	49	57	62	67	46	51	59	64	69	43	48	53	58	63	68
U	15 f7	18 f7			22 f7			25 f7					30 f7				35.5 f7					45 f7					55 f7					
V	13	15			18			21					24				30					37					43					
W	11	12			14			15					16				16					18					19					
X (nominal × pitch)	M14×1.5	M16×1.5			M20×1.5			M22×1.5					M27×1.5				M30×1.5					M39×1.5					M48×1.5					
Y	5	6			8			8					10				10					14					14					
Z (chamfer)	C2	C3			C3			C3					C4				C5					C6					C6					
AA	22	24			30			32					41				46					55					65					
AB	7	8			9			10					11				11					12					12					
AC	24.5	26.5			33			35.5					45				50					60					71					
BA	14	16			19			22					25				31					38					44					
BB	17	20			25			28					34				40					49					60					
CA	$6^{0}_{-0.05}$	$7^{0}_{-0.05}$			$9^{0}_{-0.05}$			$10^{0}_{-0.05}$					$12.5^{0}_{-0.05}$				$14^{0}_{-0.05}$					$18.5^{0}_{-0.05}$					$23^{0}_{-0.05}$					
CB	6.5	6.5			7.5			9.5					11.5				12.5					11.5					13.5					
CC	$4^{+0.05}_{0}$	$4^{+0.05}_{0}$			$5^{+0.05}_{0}$			$6^{+0.05}_{0}$					$6^{+0.05}_{0}$				$8^{+0.05}_{0}$					$8^{+0.05}_{0}$					$10^{+0.05}_{0}$					
EA	144×0.7	M5×0.8			M5×0.8			M6					M6				M8					M10					M12					
JA	3.5	3.5			3.5			3.5					4.5				4.5					4.5					4.5					
JB	14	14			14			14					19				19					22					22					
Oil supply port for clamping Type RP	RP1/8	RP1/8			RP1/8			RP1/8					RP1/4				RP1/4					RP3/8					RP3/8					
O-seal ring	43×1.9	4.8×1,9			4.8×1.9			4.8×1.9					6.8×1.9				6.8×1.9					6.8×1.9					6.8×1.9					
Cylinder capacity cm³ During clamping	15.1	19.8	22.3	24.8	28.7	32	35.7	43.3	48.4	53.6	58.7	63.9	67	73.7	80.4	87.1	85.3	95.4	111.7	121.8	132	129.8	144.4	168.2	182.9	197.7	169.3	190	210.6	231.3	251.9	272.6
Cylinder capacity cm³ During release	22.8	29.8	33.6	37.4	44.1	49.5	54.8	63.9	71.5	79.1	86.7	94.3	102.1	102.1	122.6	132.7	126.8	141.9	166	181.1	196.2	199.6	222.3	258.6	281.3	303.9	266.7	299.2	231.7	364.2	396.7	429.3
Weight ※8 Kg	1.1	1.4	1.5	1.6	2.1	23	2.4	2.8	3	3.2	3.4	3.6	4.5	4.8	5	5.3	5.5	5.9	6.3	6.6	6.9	9.3	9.8	10.4	10.9	11.4	11.4	12.1	12.7	13.4	14.1	14.8

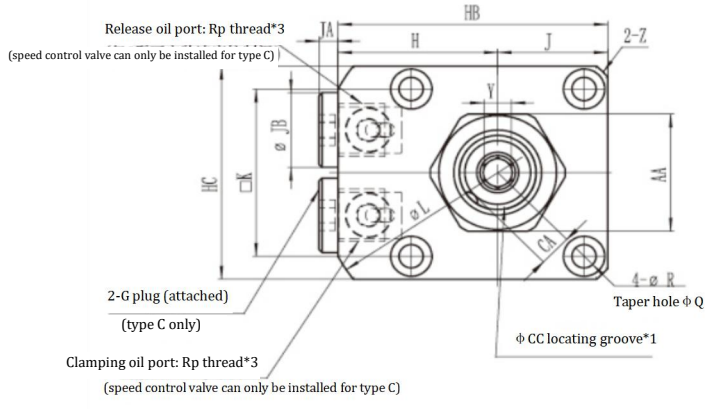
Precautions: ※ 8 It indicates the weight of a single rotary cylinder including nuts and taper sleeves.

Overall Dimension

C: plate connection type (speed control valve with RP thread plug can be installed)



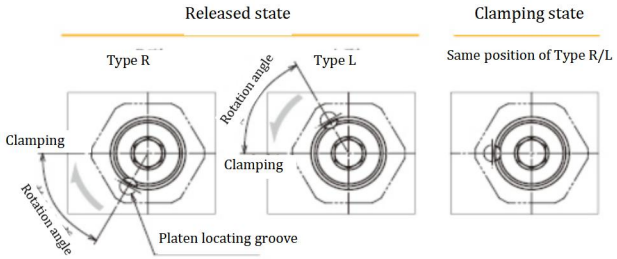




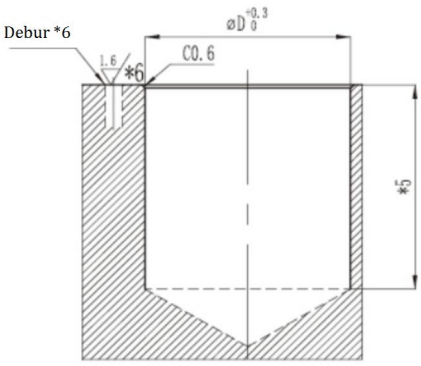
※This figure shows the released state of HLKA-CCN.

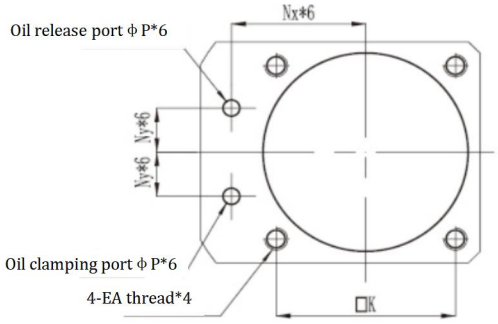
※1. The position of the platen locating groove

The position of the platen locating groove in the released state varies with the change of the rotation direction and rotation angle during clamping. When clamped, it faces the supply port side.



Processing dimension of installation position





Precautions:

※ 4. Please refer to the S dimension and determine the CA thread depth of the installation bolt according to the installation height.

※5. Please refer to the HF dimension and determine the depth of the body installation hole ΦHD according to the installation height.

※6. This processing shows the case of -C: plate connection type.

Precautions:

※1. The platen positioning groove faces the oil supply port side when it is clamped.

※2. Installation bolts are not included with this product. Please configure it by yourself according to the installation height and with reference to the S dimension.

※3. This product does not include the speed control valve. Please refer to Page 80 for additional equipment.

※Please inquire separately when using in combination with other detection methods and options.

Model Representation

HLHA ① - ② ③ (Example HLHA0550-CR-Y30)

①Dimensions (refer to specification sheet) ②Rotation direction (during clamping) ③Special specification mark

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	—	L: turn left R: turn right

Y30: rotation angle 30°
Y45: clamping stroke 45°
Y60: clamping stroke 60°

Overall Dimension and Installation Part Processing Installation Table

(mm)

Model	HLHA 0360-□-Y□			HLHA 0400-□-Y□			HLHA 0480-□-Y□			HLHA 0550-□-Y□			HLHA 0650-□-Y□			HLHA 0750-□-Y□			HLHA 0900-□-Y□			HLHA 1050-□-Y□		
Option model	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60	Y30	Y45	Y60
Rotation angle	30°	45°	60°	30°	45°	60°	30°	45°	60°	30°	45°	60°	30°	45°	60°	30°	45°	60°	30°	45°	60°	30°	45°	60°
Full stroke	10.9	11.5	12.2	11.5	12.3	13	12.1	13	13.8	14.7	15.6	16.6	15.3	16.5	17.6	18.07	20	21.3	19.9	21.4	22.9	24.8	26.6	28.4
Rotation stroke (90°)	2.9	3.5	4.2	3.5	4.3	5	4.1	5	5.8	4.7	5.6	6.6	5.3	6.5	7.6	6.7	8	9.3	7.9	9.4	1.9	8.8	10.6	12.4
Clamping stroke	8			8			8			10			10			12			12			16		
HA	101.5	102.1	102.8	112.1	112.9	113.6	125.2	126.1	126.9	141.8	142.7	143.7	151.4	152.6	153.7	175.8	177.1	175.4	197	198.5	199.95	232.9	234.7	236.5
HB	49			54			61			69			81			92			107			122		
HC	40			45			51			60			70			80			95			110		
HD	36			40			48			55			65			75			90			105		
HE	64.5			71.5			79			89			94			109			120			144		
HF	39.5			46.5			51			59			63			71			74			88		
Fu	61.9	62.5	63.2	65.5	66.3	67	74.1	75	75.8	82.7	83.6	84.6	88.3	89.5	90.6	104.7	106	107.3	122.9	124.4	125.9	144.8	146.6	148.4
G	25			25			28			30			31			38			46			56		
H	29			31.5			35.5			39			46			52			59.5			67		
J	20			22.5			25.5			30			35			40			47.5			55		
K	31.5			34.1			40.1			47.1			55.1			63.1			75.1			88.1		
L	66			73			83			88			106			116			136			152		
M	11			11			13			12			13			16			19			22		
Nx	23.5			26			30			33.5			39.5			45			52.5			60		
Ny	8			9			11			12			15			16			18.5			22.5		
P	3			3			3			3			5			5			5			5		
Q	7.5			9			9			11			11			14			17.5			20		
R	4.5			5.5			5.5			6.8			6.8			9			11			14		
S	16			15			17.5			17			17			21			25			32		
T	12.9	13.5	14.2	13.5	14.3	15	14.1	15	15.8	16.7	17.6	18.6	17.3	18.5	19.6	20.7	22	23.3	21.9	23.4	24.9	26.8	28.6	30.4
U	15 f7			18 f7			22 f7			25 f7			30 f7			35.5 f7			45 f7			55 f7		
V	13			15			18			21			24			30			37			43		
W	11			12			14			15			16			16			18			19		
X (nominal × pitch)	M14×1.5			M16×1.5			M20×1.5			M22×1.5			M27×1.5			M30×1.5			M39×1.5			M48×1.5		
Y	5			6			8			8			10			10			14			14		
Z (chamfer)	C2			C3			C3			C3			C4			C5			C6			C6		
AA	22			24			30			32			41			46			55			65		
AB	7			8			9			10			11			11			12			12		
AC	24.5			26.5			33			35.5			45			50			60			71		
BA	14			16			19			22			25			31			38			44		
BB	17			20			25			28			34			40			49			60		
CA	6 $^{0}_{-0.05}$			7 $^{0}_{-0.05}$			9 $^{0}_{-0.05}$			10 $^{0}_{-0.05}$			12.5 $^{0}_{-0.05}$			14 $^{0}_{-0.05}$			18.5 $^{0}_{-0.05}$			23 $^{0}_{-0.05}$		
CB	6.5			6.5			7.5			9.5			11.5			12.5			11.5			13.5		
CC	4 $^{+0.05}_{0}$			4 $^{+0.05}_{0}$			5 $^{+0.05}_{0}$			6 $^{+0.05}_{0}$			6 $^{+0.05}_{0}$			8 $^{+0.05}_{0}$			8 $^{+0.05}_{0}$			10 $^{0.05}_{0}$		
EA	M4×0.7			M5×0.8			M5×0.8			M6			M6			M8			M10			M12		
JA	3.5			3.5			3.5			3.5			4.5			4.5			4.5			4.5		
JB	14			14			14			14			19			19			22			22		
Oil supply port for clamping Type:P	RP1/8			RP1/8			RP1/8			RP1/8			RP1/4			RP1/4			RP3/8			RP3/8		
O-seal ring	4.8×1.9			4.8×1.9			4.8×1.9			4.8×1.9			6.8×1.9			6.8×1.9			6.8×1.9			6.8×1.9		
Cylinder capacity cm3 During clamping	3.8	4	4.3	5.8	6.2	6.5	8.5	9.1	9.7	15.1	16.1	17.1	20.5	22.1	23.6	38	40.6	43.2	58.7	63.1	67.6	102.4	109.9	117.3
Cylinder capacity cm3 During release	5.8	6.1	6.5	8.7	9.3	9.8	13	14	14.8	22.4	23.7	25.2	31.3	33.7	36	56.5	60.4	64.3	90.3	97.1	103.9	161.3	173	184.7
Weight※7 kg	0.7			0.9			1.4			2			2.9			4.2			7.2			10.1		

Precautions: ※ 7. It indicates the weight of a single rotary cylinder including nuts and taper sleeves.

Model Representation

HLHA ① (Example: HLHA0360-07)

① Dimensions (refer to specification sheet)

HLHA	0360 0650 0400 0750 0480 0900 0550 1050	–	07：锥形套

(mm)

Model	HLHA 0360-07	HLHA 0400-07	HLHA 0480-07	HLHA 0550-07	HLHA 0650-07	HLHA 0750-07	HLHA 0900-07	HLHA 1050-07
A	15	18	22	25	30	35.5	45	55
B	17	20	25	28	34	40	49	60
C	14	16	19	22	25	31	38	44

HCTH①-TS (Example: HCTH06-TS)

① Dimensions (refer to specification sheet)

HCTH	01 10 02 16 04 25 06	–	TS：锥形套

(mm)

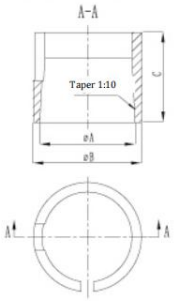
Model	HCTH01-TS	HCTH02-TS	HCTH04-TS	HCTH06-TS	HCTH10-TS	HCTH16-TS	HCTH25-TS
A	15	18	22.4	25	30	35.5	45
B	16	20	25	28	34	40	49
C	13	16	21	20	22	29	38

Specification

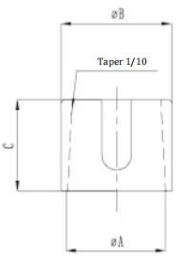
Model	HLHA0360	HLHA0400	HLHA0480	HLHA0550	HLHA0650	HLHA0750	HLHA0900	HLHA1050
HA	17	19	23	26	29	35	43	50
HB	14	16	19	22	25	31	38	44
HC	3	3	4	4	4	4	5	6
HD	10.5	10.5	12.5	14.5	16.5	17.5	17.5	20.5
HE	$17^{+0.027}_{0}$	$20^{+0.033}_{0}$	$25^{+0.033}_{0}$	$28^{+0.033}_{0}$	$34^{+0.039}_{0}$	$40^{+0.039}_{0}$	$49^{+0.039}_{0}$	$60^{+0.046}_{0}$
HF	15	17	21	23.5	29	33	42	51
HG	8	9	11.5	13	15.5	18	22.5	28
HH	$4^{+0.018}_{0}$	$4^{+0.018}_{0}$	$5^{+0.018}_{0}$	$6^{+0.018}_{0}$	$6^{+0.018}_{0}$	$8^{+0.022}_{0}$	$8^{+0.022}_{0}$	$10^{+0.022}_{0}$
Locating pin	$\phi 4(h8^{0}_{-0.018})$ ×10	$\phi 4(h8^{0}_{-0.018})$ ×10	$\phi 5(h8^{0}_{-0.018})$ ×12	$\phi 6(h8^{0}_{-0.018})$ ×14	$\phi 6(h8^{0}_{-0.018})$ ×16	$\phi 8(h8^{0}_{-0.022})$ ×16	$\phi 8(h8^{0}_{-0.022})$ ×16	$\phi 10(h8^{0}_{-0.022})$ ×20

锥 形 套

HLHA □ -07

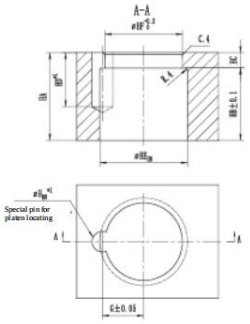


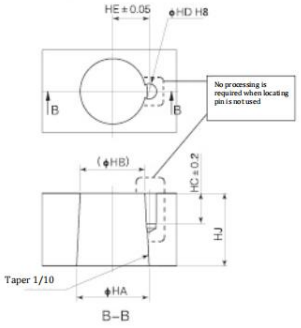
HCTH



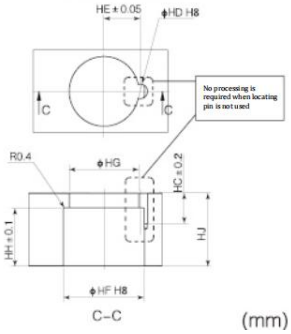
夹紧臂加工图

When taper sleeve is not used





When taper sleeve is used



(mm)

Model	HCTU01 HCTT01	HCTU02 HCTT02 HBTU02	HCTU04 HCTT04 HBTU04	HCTU06 HCTT06 HBTU06	HCTU10 HCTT10 HBTU10	HCTU16 HCTT16 HBTU16	HCTU25 HCTT25 HBTU25
HA	$14^{-0.016}_{-0.034}$	$18^{-0.016}_{-0.034}$	$22.4^{-0.020}_{-0.041}$	$25^{-0.020}_{-0.041}$	$30^{-0.020}_{-0.041}$	$35.5^{-0.025}_{-0.050}$	$45^{-0.025}_{-0.050}$
HB	12.4	16	19.9	22.5	27.3	32	40.5
HC	9	10.5	10.5	10.5	12.5	12.5	14.5
HD	$3^{+0.014}_{0}$	$4^{+0.018}_{0}$	$4^{+0.018}_{0}$	$5^{+0.018}_{0}$	$6^{+0.018}_{0}$	$6^{+0.018}_{0}$	$6^{+0.018}_{0}$
HE	7.55	9.1	11.1	12.6	15.1	18.1	22.6
HF	$16^{+0.027}_{0}$	$20^{+0.033}_{0}$	$25^{+0.033}_{0}$	$28^{+0.033}_{0}$	$34^{+0.039}_{0}$	$40^{+0.039}_{0}$	$49^{+0.039}_{0}$
HG	13	17	21	24	28.5	34	42
HH	13	16	21	20	22	29	38
HJ	16	20	25	25	27	35	45
Locating pin	ϕ3(h8) ×10	ϕ4(h8) × 10	ϕ4(h8) × 10	ϕ5(h8) × 10	ϕ6(h8) × 12	ϕ6(h8) × 12	ϕ6(h8) × 14
Taper sleeve model	HCTH01-TS	HCTH02-TS	HCTH04-TS	HCTH06-TS	HCTH10-TS	HCTH16-TS	HCTH25-TS