

CLU 连杆式夹紧器

LINK CLAMP / DOUBLE ACTING / 7 MPa

双动液压驱动，通过连杆带动夹紧臂完成夹紧和放松。夹紧臂抬起后留出工件装卸空间。

油压范围 1~7 MPa；保证耐压 10.5 MPa。

使用温度 0~70 °C；使用普通矿物基液压油（ISO-VG32 相当）。

型号示例 CLU06-F

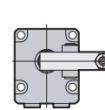
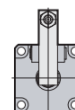
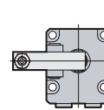


字段	可选内容
大小	02 / 04 / 06 / 10 / 16 / 25
安装方向	L: 左向; F: 前向; R: 右向

L 左向

F 前向

R 右向



标准型主要规格

项目	CLU02	CLU04	CLU06	CLU10	CLU16	CLU25
油缸能力 kgf	346.7	509.9	683.2	1080.9	1753.9	2743.0
油缸内径 mm	25	30	35	44	56	70
主杆径 mm	12	14	14	16	22.4	28
油缸面积 cm ²	4.9	7.1	9.6	15.2	24.6	38.5
全行程 mm	20.5	23.5	26	29.5	36	45
夹紧行程 mm	17.5	20.5	23	26.5	33	42
行程余量 mm	3	3	3	3	3	3
最大流量 L/min	1.0	1.6	2.6	4.7	9.5	18.9
夹紧油容量 cm ³	10.0	16.7	25.0	44.8	88.6	173.3
放松油容量 cm ³	7.7	13.0	21.0	38.9	74.5	145.5
质量 kg	0.7	1.0	1.4	2.3	4.0	7.4
安装螺栓扭矩 N·m (12.9 级)	7	7	12	29	57	100



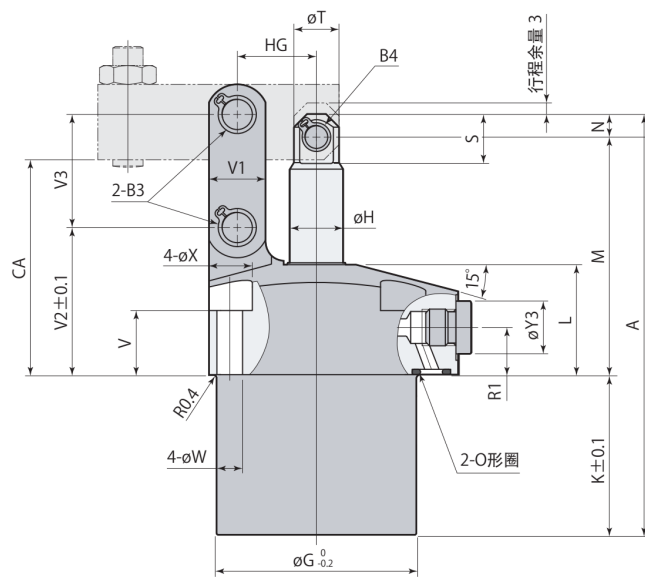
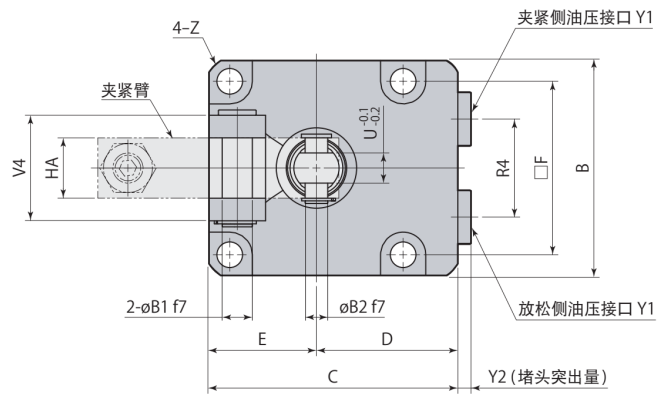
夹紧力计算

微信扫一扫，进入 ZEEZ 小程序

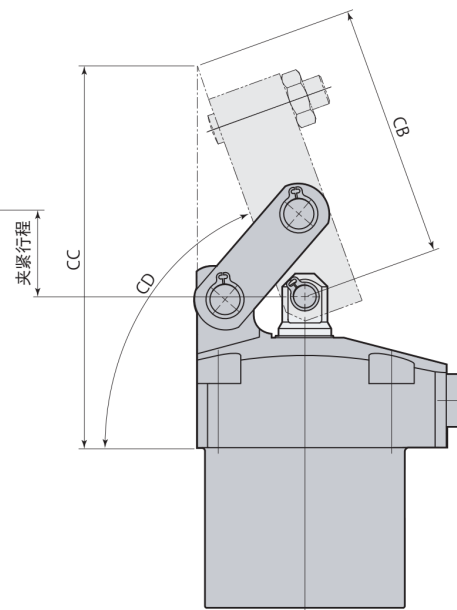
油缸能力为油压 7 MPa 时的活塞输出力，输出力不等于压紧力；实际夹紧力与夹紧臂长度、工作油压有关。

标准型外形尺寸

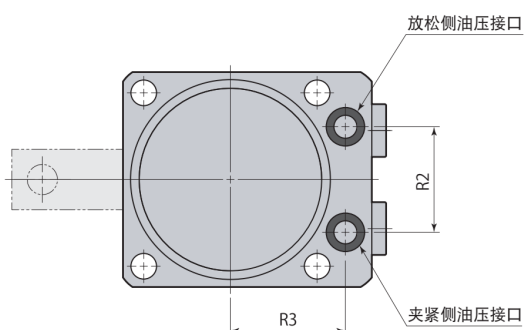
STANDARD MODEL OUTLINE / UNIT: mm



夹紧

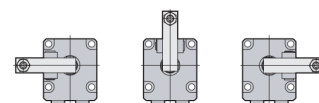


放松



- 本图为CLU□-F型的外形。CLU□-L型和CLU□-R型除夹紧臂的安装方向不同外，其余尺寸均与CLU□-F型相同。

L:左向 F:前向 R:右向



- 不附带夹紧臂和安装螺栓。
- 安装夹紧臂时请使用附带包装的øB2销与止回环B4。

标准型尺寸表

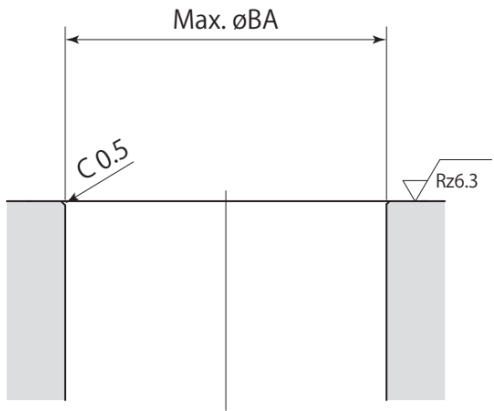
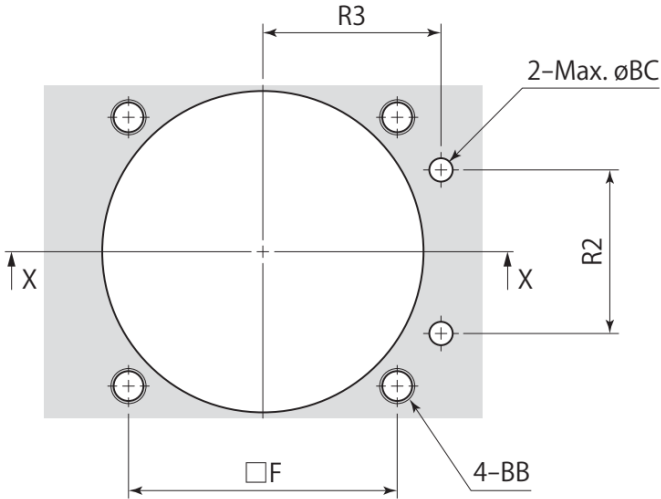
STANDARD MODEL DIMENSIONS / UNIT: mm

mm

型 号	CLU02-□	CLU04-□	CLU06-□	CLU10-□	CLU16-□	CLU25-□
A	93.5	104	111.5	131	155	186.5
B	45	50	57	70	86	108
C	55	60	66	82	96	120
D	32.5	35	37.5	47	53	66
E	22.5	25	28.5	35	43	54
F	35	40	46	56	68	88
øG	39	47	53	63	78	100
øH	12	14	14	16	22.4	28
K	33.5	39.5	42.5	47	55	65
L	27.5	27.7	29.3	36.3	41.5	47
M	55	58.5	63	76	89	108.5
N	5	6	6	8	11	13
R1	12.5	12.5	12.5	14	14	21
R2	22	24	28	36	45	50
R3	25	28	30.5	36	42	57
R4	20	22	26	30	38	50
S	11.5	13	13	17	21.8	27.5
øT	10	12	12	14	20	26
U (对边宽)	6	6	8	10	11	16
V	18	17	17	20	20	20
V1	11	13	15	19	25	32
V2	34	36	39	48	54.5	65
V3	24	26	30	35.5	44	53
V4	21	21	28	37	46	56
øW	5.5	5.5	6.8	9	11	14
øX	10	10	12	15	18.5	20
Y1	G1/8	G1/8	G1/8	G1/4	G1/4	G3/8
Y2	3.8	3.8	3.8	4.8	4.8	4.8
øY3	14	14	14	19	19	22
Z	C1.5	C2.5	C2.5	C3	C3.5	C5.5
øB1	6 ^{-0.010 -0.022}	6 ^{-0.010 -0.022}	8 ^{-0.013 -0.028}	10 ^{-0.013 -0.028}	14 ^{-0.016 -0.034}	16 ^{-0.016 -0.034}
øB2	6 ^{-0.010 -0.022}	6 ^{-0.010 -0.022}	6 ^{-0.010 -0.022}	8 ^{-0.013 -0.028}	12 ^{-0.016 -0.034}	14 ^{-0.016 -0.034}
B3 (卡环)	STW-6	STW-6	STW-8	STW-10	STW-14	STW-16
B4 (卡环)	STW-6	STW-6	STW-6	STW-8	STW-12	STW-14
CA	49.5	52.5	57	68	80	96
CB	48	59.6	67.3	78.7	98.2	133.5
CC	80.2	92.5	101.3	120.4	144.7	189.2
CD	约69°	约71°	约70°	约70°	约69°	约72°
HA	12	12	16	19	22	32
HG	16.5	18.5	21	24.5	30.5	37.5
O形圈 (FKM-90)	P7	P7	P7	P8	P8	P10

安装孔加工

MOUNTING HOLE MACHINING / UNIT: mm



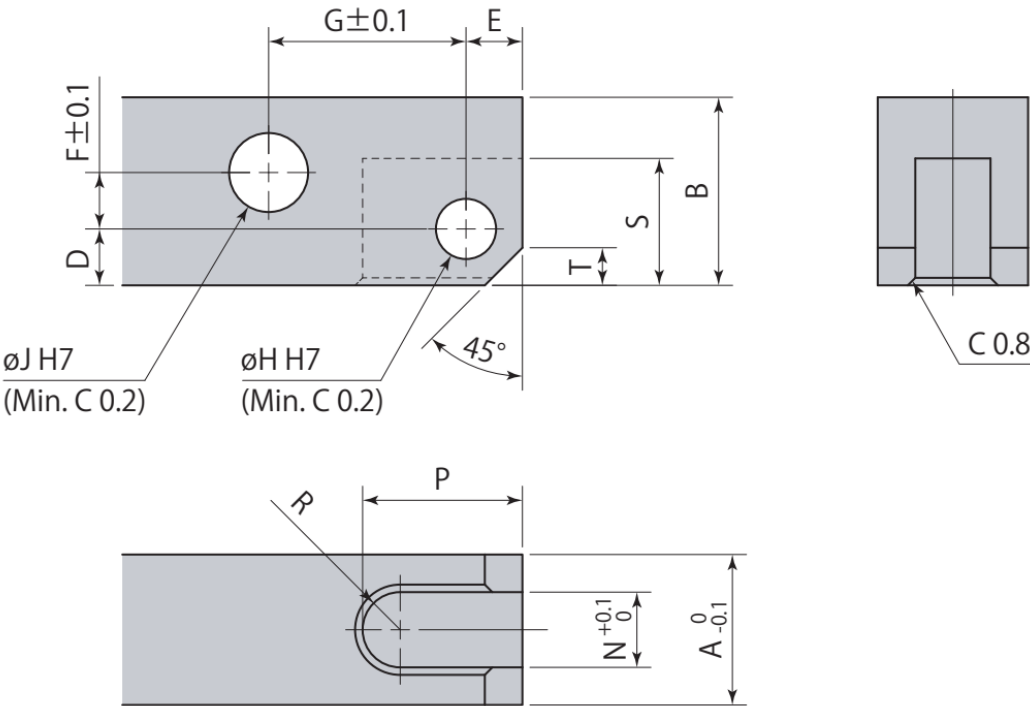
X-X

型 号	CLU02-□	CLU04-□	CLU06-□	CLU10-□	CLU16-□	CLU25-□
F	35	40	46	56	68	88
R2	22	24	28	36	45	50
R3	25	28	30.5	36	42	57
øBA	40	48	54	64	79	101
BB	M5	M5	M6	M8	M10	M12
øBC	4	4	4	6	6	8

夹紧臂加工与安装

CLAMP ARM MACHINING & INSTALLATION / UNIT: mm

产品不附带夹紧臂。按下图接口尺寸制作，安装时使用附带的销和卡环。



推荐材料: S45C (HB167~229)

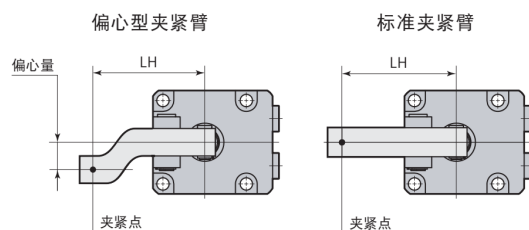
mm						
连杆式夹紧器	CLU02	CLU04	CLU06	CLU10	CLU16	CLU25
A	12	12	16	19	22	32
B	14	16	20	25	31	38
D	5.5	6	6	8	9	12.5
E	5.5	6	6	7	10	13
F	3	3.5	6	7.5	9.5	9.5
G	16.5	18.5	21	24.5	30.5	37.5
$\varnothing H$	$6^{+0.012}_0$	$6^{+0.012}_0$	$6^{+0.012}_0$	$8^{+0.015}_0$	$12^{+0.018}_0$	$14^{+0.018}_0$
$\varnothing J$	$6^{+0.012}_0$	$6^{+0.012}_0$	$8^{+0.015}_0$	$10^{+0.015}_0$	$14^{+0.018}_0$	$16^{+0.018}_0$
N	6	6	8	10	11	16
P	14	17	17	20	26.5	36
R	R3	R3	R4	R5	R5.5	R8
S	12	13.5	13.5	17.5	22	28
T	3	4	4	5	7	8

夹紧臂允许偏心率

ALLOWABLE CLAMP ARM OFFSET / UNIT: mm

CLU型连杆式夹紧器因工件的形状关系，夹紧臂前端的夹紧点不在活塞杆和夹紧臂的中心线上时，可以使用右图所示的偏心型夹紧臂。

但偏心量请勿超过下表中的允许偏心率。如果使用超过允许偏心量的夹紧臂，则连杆机构和活塞杆将承受过大的偏心负荷，从而导致故障。



model CLU02		为不可使用						
油压 MPa	允许偏心量 mm							
	夹紧臂长度 LH mm							
	27	30	36.5	40	50	60	80	100
7			16	20	34	47	60	60
6.5			18	23	38	52	↑	↑
6		11	21	27	43	58	↑	↑
5.5		13	24	30	48	60	↑	↑
5	10	16	28	35	55	↑	↑	↑
4.5	12	19	33	41	60	↑	↑	↑
4	15	23	39	48	↑	↑	↑	↑
3.5	20	28	47	57	↑	↑	↑	↑
3	25	35	58	60	↑	↑	↑	↑
2.5	33	45	60	↑	↑	↑	↑	↑
2	44	60	↑	↑	↑	↑	↑	↑
1.5	60	↑	↑	↑	↑	↑	↑	↑
1	60	60	60	60	60	60	60	60

model		CLU06							为不可使用	
油压 MPa	允许偏心量 mm									
	夹紧臂长度 LH mm									
	35	45	50	60	80	100	120			
7			8	8	8	8	8			
6.5		8	8	8	8	8	8			
6		12	13	15	19	23	26			
5.5		18	20	24	32	41	49			
5	11	24	28	35	48	62	76			
4.5	15	32	37	48	68	80	80			
4	19	42	49	64	80	↑	↑			
3.5	24	51	65	80	↑	↑	↑			
3	31	63	79	↑	↑	↑	↑			
2.5	41	80	80	↑	↑	↑	↑			
2	55	↑	↑	↑	↑	↑	↑			
1.5	80	↑	↑	↑	↑	↑	↑			
1	80	80	80	80	80	80	80			

model CLU16		为不可使用							
油压 MPa	允许偏心量 mm								
	夹紧臂长度 LH mm								
	50	60	69.5	80	100	120	140	160	180
7			16	26	46	66	86	107	110
6.5		11	22	34	58	81	104	110	↑
6		17	29	44	71	98	110	↑	↑
5.5		23	38	55	87	110	↑	↑	↑
5	13	31	49	68	105	↑	↑	↑	↑
4.5	19	41	62	85	110	↑	↑	↑	↑
4	27	53	78	105	↑	↑	↑	↑	↑
3.5	37	69	98	110	↑	↑	↑	↑	↑
3	51	90	110	↑	↑	↑	↑	↑	↑
2.5	71	110	↑	↑	↑	↑	↑	↑	↑
2	96	↑	↑	↑	↑	↑	↑	↑	↑
1.5	110	↑	↑	↑	↑	↑	↑	↑	↑
1	110	110	110	110	110	110	110	110	110

model CLU04		为不可使用							
油压 MPa	允许偏心率 mm								
	夹臂长度 LH mm								
	30	35	42	50	60	80	100	120	
7			7	13	21	36	51	60	
6.5			9	15	24	41	57	↑	
6			11	18	27	46	60	↑	
5.5		6	13	21	32	52	↑	↑	
5		8	16	25	37	60	↑	↑	
4.5	6	11	20	30	43	↑	↑	↑	
4	6	14	24	36	51	↑	↑	↑	
3.5	9	18	30	44	60	↑	↑	↑	
3	13	23	37	54	↑	↑	↑	↑	
2.5	18	30	48	60	↑	↑	↑	↑	
2	26	42	60	↑	↑	↑	↑	↑	
1.5	39	60	↑	↑	↑	↑	↑	↑	
1	60	60	60	60	60	60	60	60	

model CLU10						为不可使用			
油压 MPa	允许偏心量 mm								
	夹臂臂长度 LH mm								
	40	50	56.5	60	80	100	120	140	160
7		12	17	18	23	28	33	38	43
6.5		15	24	26	35	45	54	64	73
6		18	27	33	50	65	79	94	95
5.5	9	22	32	38	67	88	95	95	↑
5	9	27	38	45	80	95	↑	↑	↑
4.5	12	32	46	53	93	↑	↑	↑	↑
4	17	40	55	63	95	↑	↑	↑	↑
3.5	22	49	66	76	↑	↑	↑	↑	↑
3	30	61	82	93	↑	↑	↑	↑	↑
2.5	40	79	95	95	↑	↑	↑	↑	↑
2	56	95	↑	↑	↑	↑	↑	↑	↑
1.5	82	↑	↑	↑	↑	↑	↑	↑	↑
1	95	95	95	95	95	95	95	95	95

model CLU25		为不可使用							
油压 MPa	允许偏心量 mm								
	夹紧臂长度 LH mm								
	60	65	87.5	100	120	140	160	180	200
7			41	59	87	115	142	160	160
6.5			48	67	97	128	158	↑	↑
6		18	55	76	110	143	160	↑	↑
5.5	16	22	64	87	124	160	↑	↑	↑
5	18	28	75	100	142	↑	↑	↑	↑
4.5	24	35	88	117	160	↑	↑	↑	↑
4	31	44	104	137	↑	↑	↑	↑	↑
3.5	41	56	125	160	↑	↑	↑	↑	↑
3	53	71	153	↑	↑	↑	↑	↑	↑
2.5	71	93	160	↑	↑	↑	↑	↑	↑
2	97	125	↑	↑	↑	↑	↑	↑	↑
1.5	141	160	↑	↑	↑	↑	↑	↑	↑
1	160	160	160	160	160	160	160	160	160