

Clamping Cylinder

PLCA Series

PLCA 40/50/63/80



Product Introduction

- Integrated clamp with crank linkage, mechanical self-locking structure;
- Infinitely adjustable within a maximum opening angle range of 5°-135°, high-strength aluminum alloy enclosed housing;
- Flat oval cylinder barrel in sizes 40/50/63/80;
- Clamping arm with standard mounting holes, installable on four sides;
- Optional built-in inductive sensor (SE) and pneumatic sensor (SP), both resistant to weld spatter;
- Optional sensors for detecting end positions (open/clamped).

Technical Parameter

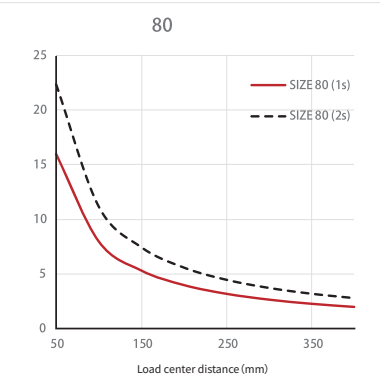
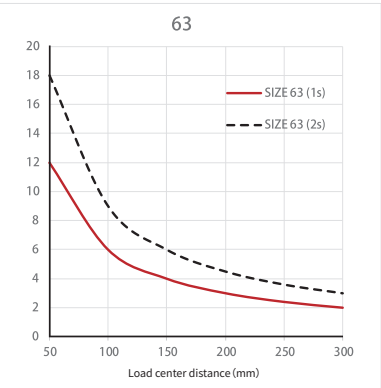
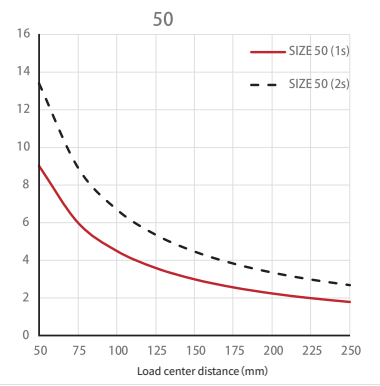
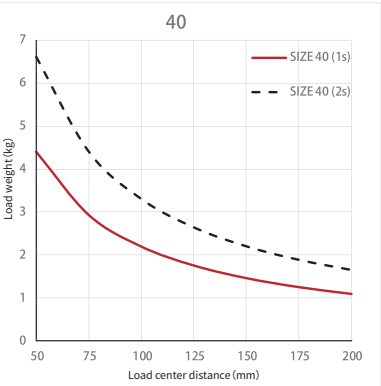
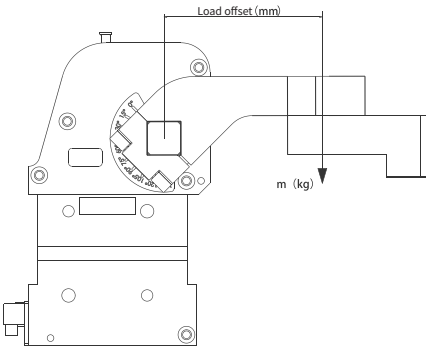
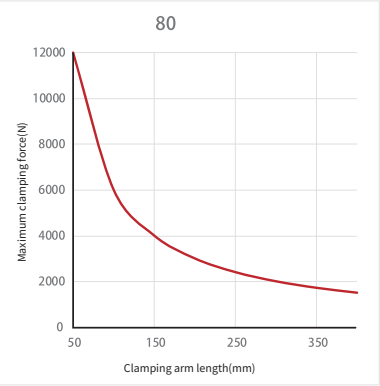
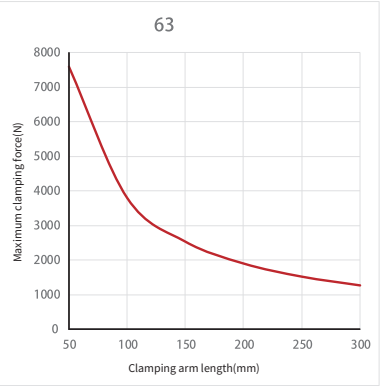
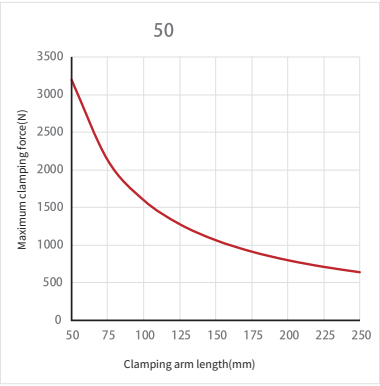
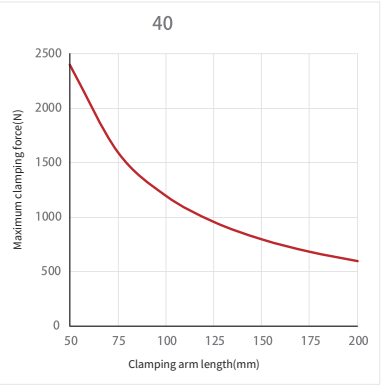
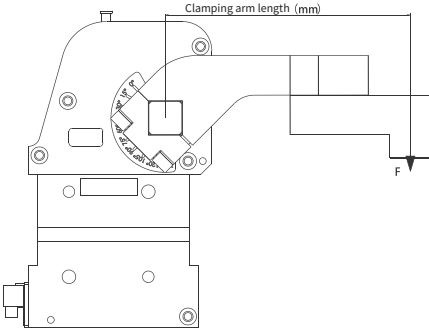
Model	Clamping torque at 5 bar(Nm)	Max. holding torque(Nm)	Max.permissible load torque(Nm)		Bore(mm)	Weight (kg)
			1s One cycle	2s One cycle		
PLCA-40	120	380	2.2	3.3	40	2
PLCA-50	160	800	4.5	6.7	50	3.9
PLCA-63	380	1500	6.0	9.0	63	4.8
PLCA-80	800	2500	8.0	11.2	80	14

Selection Table

PLCA - - - -

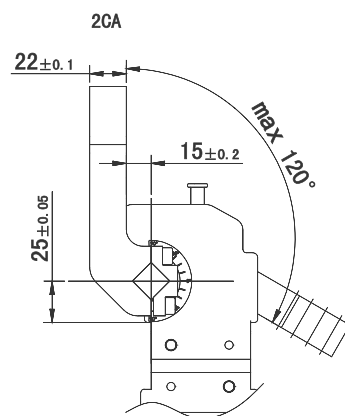
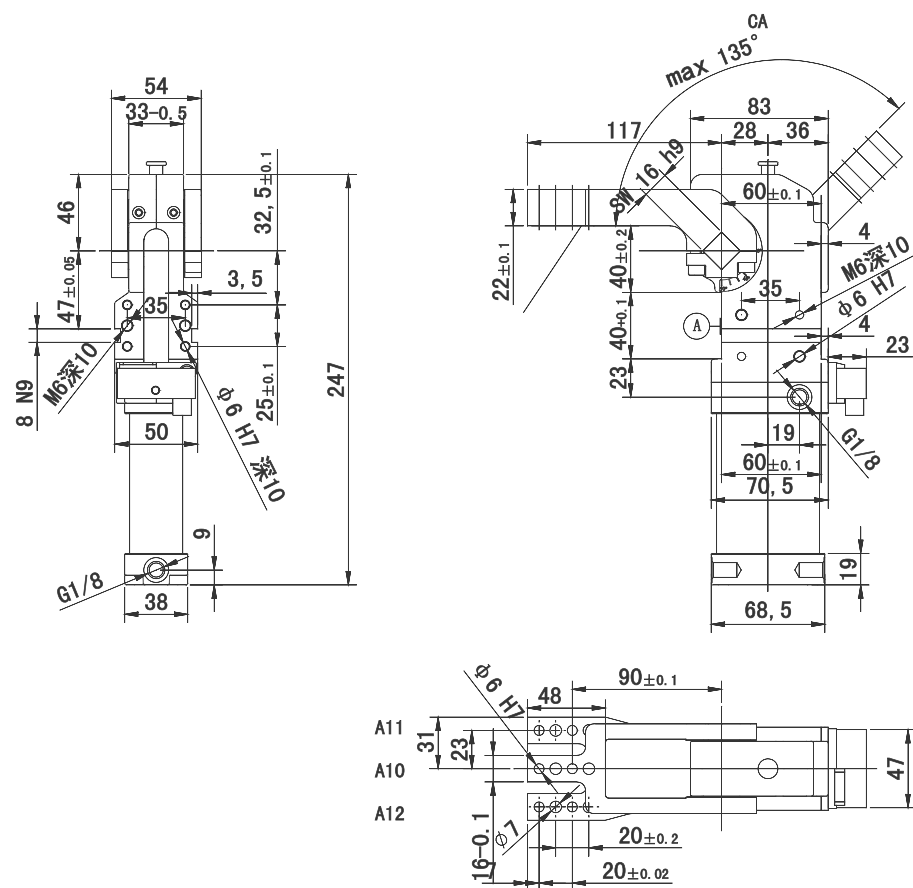
Series	Code	Bore(mm)	Clamping arm type	Sensor type	Opening angle
Horizontal clamping cylinder	PLCA	40mm	A10/A11/A12 A50/A51/A52	SN Without sensor SE Inductive sensor SP Pneumatic sensor	5° - 135° Infinitely adjustable
		50/63/80mm	A10/A11/A12 A40/A41/A42 A90/A91/A92		
Vertical clamping cylinder	PL2CA	40mm	A10/A11/A12 A50/A51/A52		5° - 120° Infinitely adjustable
		50/63/80mm	A10/A11/A12 A40/A41/A42 A90/A91/A92		

Curve of max. clamping arm force vs. arm length

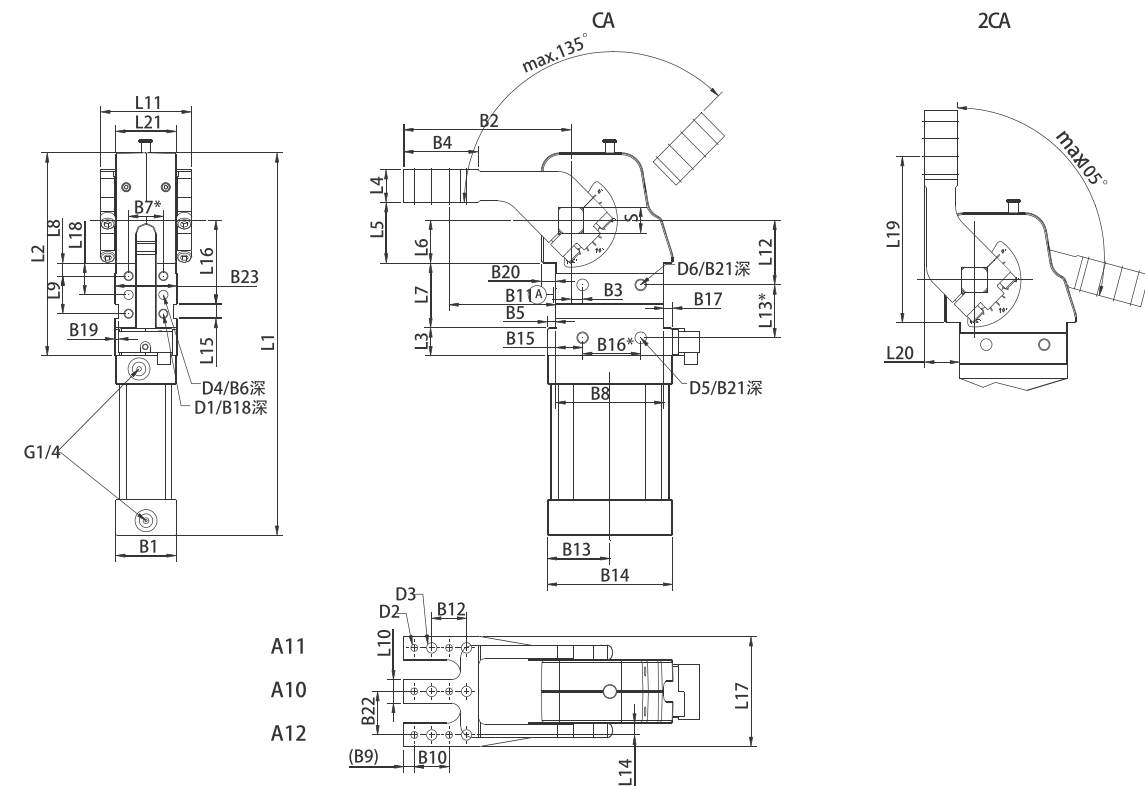


▶ Dimension Diagram

PLCA-40



PLCA-50/63/80



Bore	B1	B2	B3 ±0.1	B4	B5	B6	B7*	B8	B9	B10 ±0.05	B11 ±0.1	B12 ±0.1	B13	B14	B15 ±0.1	B16*	B17	B18
50	45	144	10	64	6	10	30	93	9	30	92	30	47	94	23	50	7.5	10
63	52	144	10	64	7.5	10	30	93	9	30	92	30	54	108	23	50	7.5	10
80	62	179	10	64	8	10	50	134	9	30	119	30	69	138	36	70	8	15

Bore	B19	B20	B21	B22 ±0.1	B23 ±0.1	D1	D2 h7	D3	D4 h7	D5 h7	D6	L1	L2	L3	L4 ±0.1	L5 ±0.2	L6 ±0.05	L7 ±0.1
50	3.5	9.5	10	34	48	M8	6	9	8	10	M10	312	166	24	28	51.5	36.5	55
63	3.5	12.5	10	37	54	M8	6	9	8	10	M10	325	173	24	28	51.5	36.5	55
80	3.5	20	13	50.5	76	M10	6	9	8	12	M12	490	270	55	35	70	50	80

Bore	L8 ±0.1	L9 ±0.1	L10	L11	L12 ±0.05	L13*	L14 ±0.1	L15 N9	L16 ±0.05	L17	L18 ±0.05	L19 ±0.1	L20 ±0.2	L21	S h9
50	11	32	20	68	55	45	11.5	12	71.5	88	27	141.5	30	45	19
63	11	32	20	78	55	45	13	12	71.5	94	27	141.5	30	52	22
80	15	50	25	108	65	75	17	12	96.5	126	40	190	34	74	30