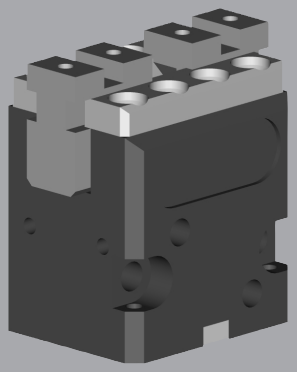
Pneumatic Parallel Grippers
OPL 2-Finger



OPL is a compact two-finger parallel gripper featuring high reliability and a long service life, suitable for handling low weight or small components.

Advantages

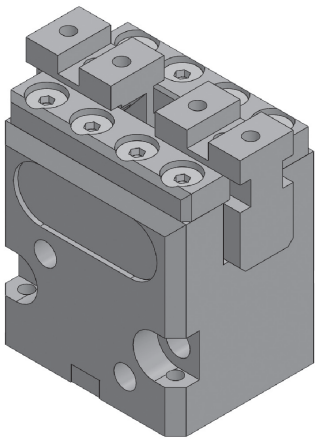
- Compact housing made of hard coated aluminum alloy.
- Sturdy C-slot with hardened steel gibs for effective jaw guidance, precise handling, and easy maintenance.
- Wedge-hook design for high-force transmission and jaw synchronization.
- Mounting from two sides in two screw directions for versatile and flexible integration
- Air supply via fitting screw connections.

SPECIFICATIONS

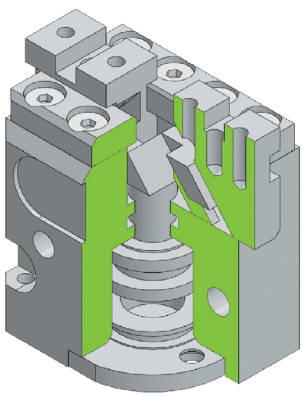
Model	Stroke Per Jaw	Air Consumption Per Cycle (Dual Stroke)	Closing Force Per Jaw @ 6 bar	Opening Force Per Jaw @ 6 bar	Total Closing Force @ 6 bar	Total Opening Force @ 6 bar	Recommended Workpiece Weight*	Weight	Repeatability
OPL 12	5 mm	1.2 cm^3	18 N	24 N	36 N	48 N	0.18 kg	0.08 kg	± 0.05 mm
	0.20 in	0.07 in^3	4.0 lb	5.4 lb	8.1 lb	10.8 lb	0.40 lb	0.18 lb	± 0.002 in
OPL 30	2.5 mm	1.4 cm^3	42 N	54 N	84 N	108 N	0.42 kg	0.10 kg	± 0.05 mm
	0.10 in	0.09 in^3	9.4 lb	12.1 lb	18.9 lb	24.3 lb	0.90 lb	0.22 lb	± 0.002 in
OPL 35	4 mm	1.7 cm^3	30 N	43 N	60 N	86 N	0.30 kg	0.13 kg	± 0.05 mm
	0.16 in	0.10 in^3	6.7 lb	9.7 lb	13.5 lb	19.3 lb	0.70 lb	0.28 lb	± 0.002 in

* Recommended workpiece weight is calculated for force-fit gripping with a coefficient of static friction of 0.15 and a safety factor of 3 against workpiece slippage.
Operating Pressure **2 - 8 bar (29 - 116 psi)**
Working Temperature **5 - 60 °C (41 - 140 °F)**
Noise Emission (Sound Pressure) **≤ 70 dB(A) in any direction**

SECTIONAL DIAGRAM



Guidelines for the selection of a gripper model
Selection of the correct gripper model depends on the workpiece's weight, the friction coefficient between the fingers and the workpiece and the required motion of the application.
Due to inertial forces associated with motion, we recommend that the holding force of the gripper model should be from 10 to 20 times the workpiece's weight.
If the application presents high acceleration/deceleration or impacts during the motion, then a further safety margin should be considered.



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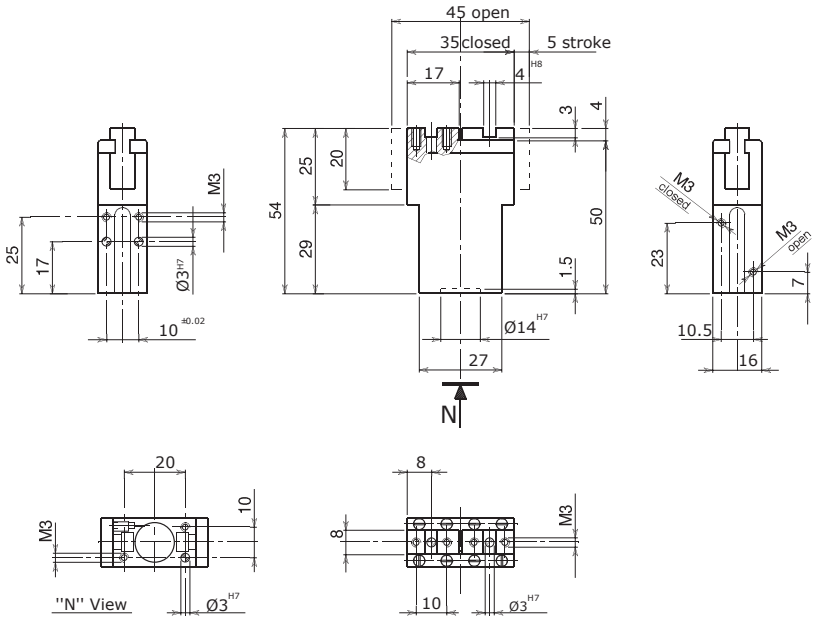
PRODUCT INFORMATION

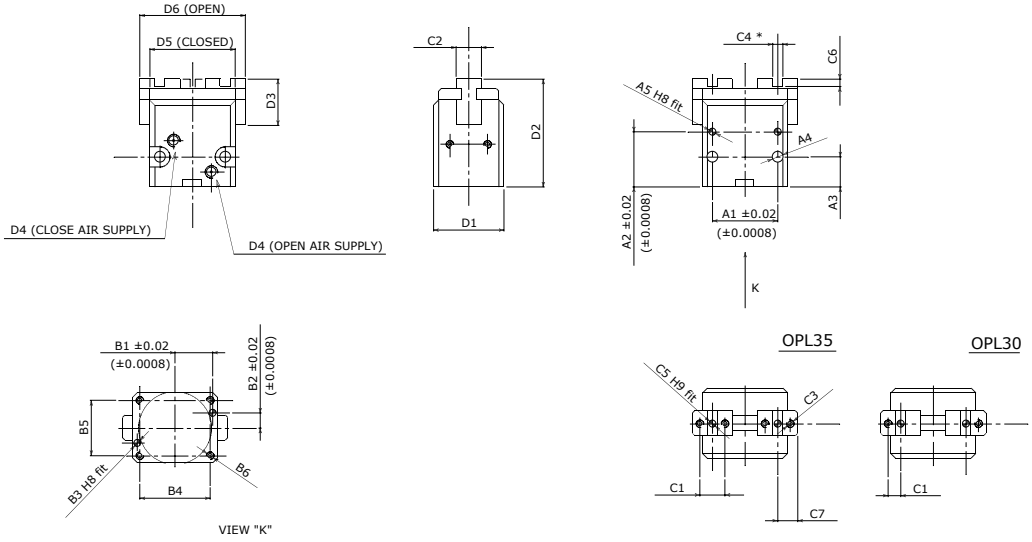
OPL 2-Finger

Dowel hole depth: Body ≥ 1.2 d - Jaws ≥ 1 d
C4* Up to 6 mm = 0/+0.025 mm - From 6 mm to 10 mm = 0/+0.030 mm - Over 10 mm = 0/+0.040 mm

OPL12



OPL30-35



Options
• Mounting brackets for inductive proximity switches

	Mounting - Option # 1					Mounting - Option # 2						Finger Application							Informational Dimensions					
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	D1	D2	D3	D4	D5	D6
OPL 30	21.0 (0.83)	22 (0.87)	12 (0.47)	4.5 (0.18)	3 (0.12)	0.00 (0.00)	10 (0.39)	3 (0.12)	23 (0.91)	20 (0.79)	M3	6 (0.24)	10 (0.39)	M4	4 (0.16)	3 (0.12)	3 (0.12)	10 (0.39)	26 (1.02)	43 (1.69)	18 (0.71)	M5	29 (1.14)	34 (1.34)
OPL 35	26.0 (1.02)	22 (0.87)	12 (0.47)	4.5 (0.18)	3 (0.12)	15.00 (0.59)	6 (0.24)	3 (0.12)	28 (1.10)	22 (0.87)	M3	10 (0.39)	10 (0.39)	M3	4 (0.16)	3 (0.12)	3 (0.12)	8 (0.31)	28 (1.10)	43 (1.69)	18.5 (0.73)	M5	34 (1.34)	42 (1.65)

* Dimensions are in millimeters (inches).
** All dimensions are descriptive and subject to variation for technical upgrading. We reserve the right to make variations without prior notification

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