

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	Fluid consumption double 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*	Repeat accuracy	Weight
OPL 12	5 mm 0.20 in	1.2 cm ³ 0.07 in ³	18 N 4.0 lb	24 N 5.4 lb	36 N 8.1 lb	48 N 10.8 lb	0.18 kg 0.40 lb	± 0.05 mm ± 0.002 in	0.08 kg 0.18 lb
OPL 30	2.5 mm 0.10 in	1.4 cm ³ 0.09 in ³	42 N 9.4 lb	54 N 12.1 lb	84 N 18.9 lb	108 N 24.3 lb	0.42 kg 0.90 lb	± 0.05 mm ± 0.002 in	0.10 kg 0.22 lb
OPL 35	4 mm 0.16 in	1.7 cm ³ 0.10 in ³	30 N 6.7 lb	43 N 9.7 lb	60 N 13.5 lb	86 N 19.3 lb	0.30 kg 0.70 lb	± 0.05 mm ± 0.002 in	0.13 kg 0.28 lb

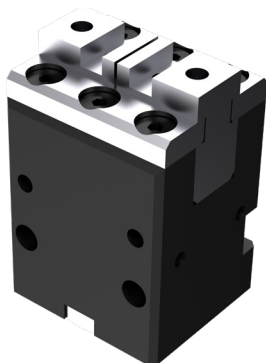
* Recommended workpiece weight is calculated for force-fit gripping with a coefficient of static friction of 0.15 and a safety factor of 3 against workpiece

Operating pressure **2 - 8 bar (29 - 116 psi)**

Ambient temperature **5-60°C (41-140 °F)**

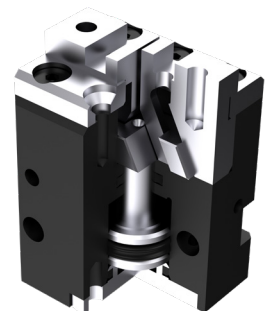
Sound emissions (sound pressure) **≤ 70 db (A) in any direction**

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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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

- Mounting brackets for inductive proximity switches

* 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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