

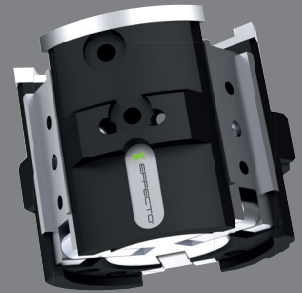
Pneumatic Toggle Grippers

OG 3-Finger

OG3 is a three-finger toggle gripper with a high grip force and non-reversible mechanism, suitable for heavy industrial applications.

Advantages

- High energy density.
- Capability to grip parts in opening and closing mode.
- Driving mechanism guided along the entire stroke.
- Large surface for finger mounting to guarantee extremely safe clamping of the workpiece.
- The toggle mechanism provides non-reversible gripping in the opening and closing positions- even without air pressure
- Air supply via screw connection.



SPECIFICATIONS

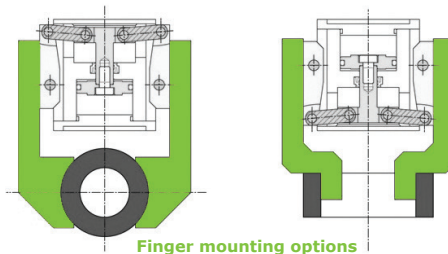
Model	Stroke Per Jaw	Air Consumption Per Cycle (Dual Stroke)	Closing Moment Per Jaw @ 6 bar	Total Closing Moment Per Jaw @ 6 bar	Recommended Workpiece Weight*	Repeat Accuracy	Weight
OG 530-3	7.5°	8.5 cm ³	13 Nm	39 Nm	0.62 kg	± 0.05 mm	0.50 kg
		0.52 in ³	115.1 in lb	345.2 in lb	1.40 lb	± 0.002 in	1.10 lb
OG 550-3	7.5°	19 cm ³	30 Nm	90 Nm	1.43 kg	± 0.05 mm	0.90 kg
		1.16 in ³	265.5 in lb	796.6 in lb	3.10 lb	± 0.002 in	1.98 lb
OG 570-3	8.5°	76.5 cm ³	105 Nm	315 Nm	5.00 kg	± 0.05 mm	3.80 kg
		4.67 in ³	929.3 in lb	2788.0 in lb	11.00 lb	± 0.002 in	8.36 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 slippage.

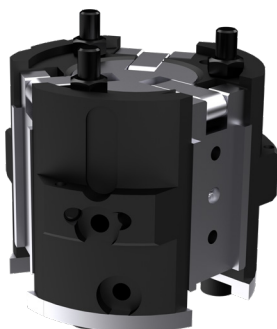
Operating Pressure **2 - 8 bar (29 - 116 psi)**

Working Temperature **5 - 60 °C (41 - 140 °F)**

Noise Emission (Sound Pressure) **≤ 70 dB(A) in any direction**

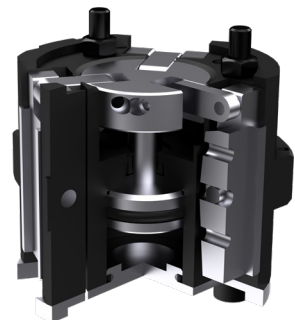


SECTIONAL DIAGRAM



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.



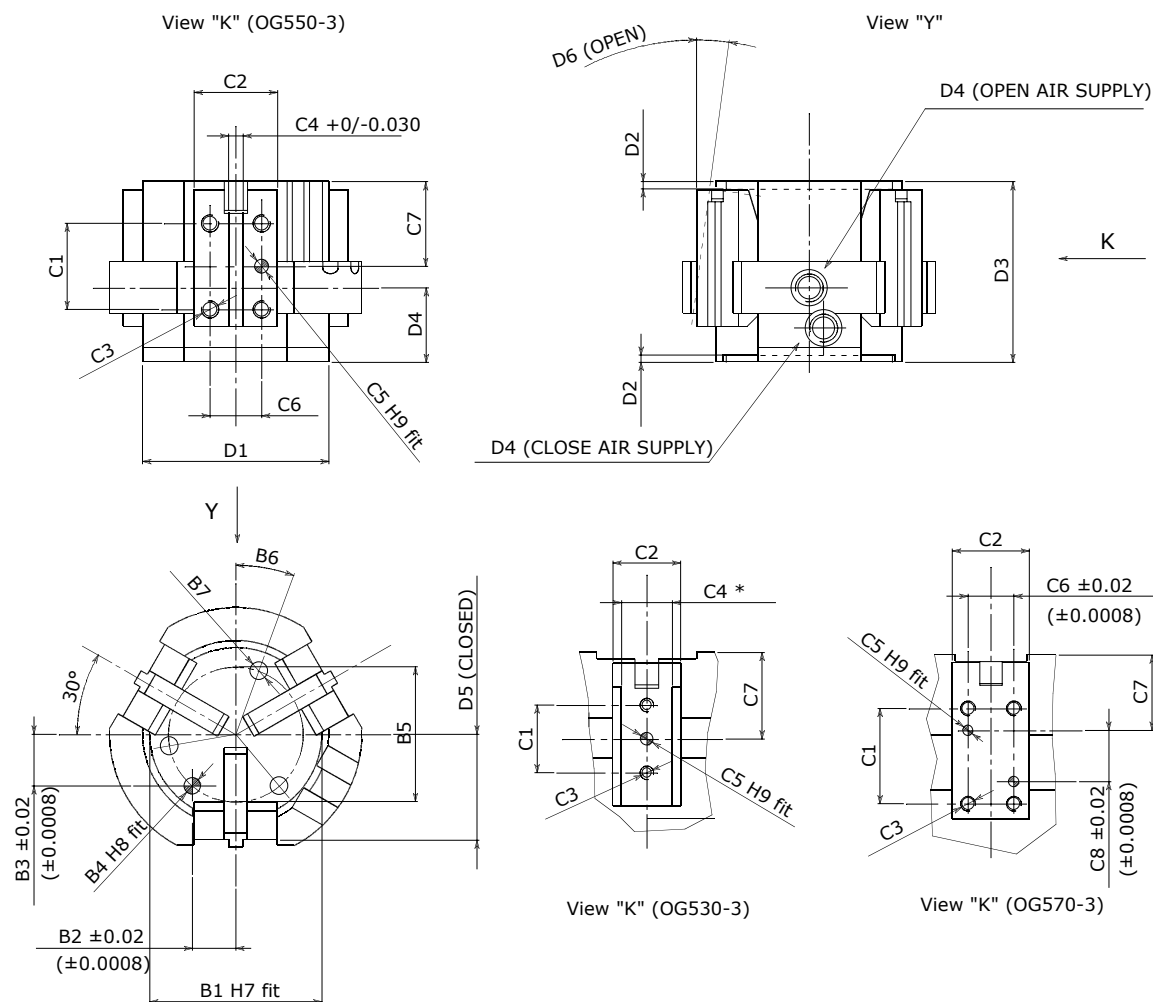
PRODUCT INFORMATION



03.2.5_Rev.07

Dowel hole depth: Body $\geq 1 d$ - Jaws $\geq 0.5 d$ (from OG530-3) - $\geq 1 d$ (OG550-3 - OG570-3)

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



Options

- Mounting brackets for inductive proximity switches
- Magnetic switches

	Mounting - Option # 2							Finger Application								Informational Dimensions					
	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6
OG 530-3	50.00 (1.97)	14.85 (0.58)	14.85 (0.58)	5 (0.20)	27.13 1.07	15°	5.5 (0.22)	20 (0.79)	20 (0.79)	M4	15 (0.59)	4 (0.16)		25.55 (1.01)		60 (2.36)	2 (0.08)	53.4 (2.10)	M5	27 (1.06)	7.5°
OG 550-3	58.00 (2.28)	15.1 (0.59)	18 (0.71)	6 (0.24)	30.95 1.22	20°	6.5 (0.26)	30 (1.18)	29 (1.14)	M6	5 (0.20)	5 (0.20)	18 (0.71)	29.5 (1.16)		65 (2.56)	2.5 (0.10)	63 (2.48)	G1/8	37 (1.46)	7.5°
OG 570-3	85.00 (3.35)	22.5 (0.89)	26.81 (1.06)	8 (0.31)	46.11 (1.82)	20°	8.5 (0.33)	52 (2.05)	42 (1.65)	M8		6 (0.24)	25 (0.98)	41 (1.61)	28 (1.10)	125 (4.92)	3.5 (0.14)	97 (3.82)	G1/8	63 (2.48)	8.5°

* 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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