

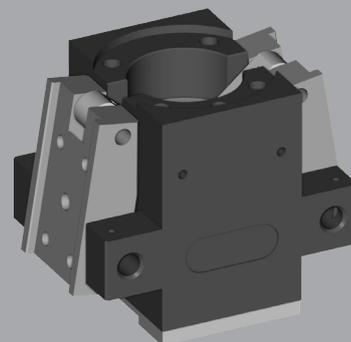
# Pneumatic Toggle Grippers

## OG 2-Finger

OG2 is a two-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 giving high stability and precision.
- 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

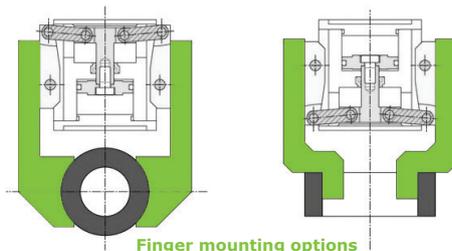
Model	Stroke Per Jaw	Air Consumption Per Cycle (Dual Stroke)	Closing Moment Per Jaw @ 6 bar	Total Closing Moment Per Jaw @ 6 bar	Recommended Workpiece Weight*	Weight	Repeatability
<b>OG 510</b>	7.5°	2.7 cm <sup>3</sup>	6.5 Nm	13 Nm	0.31 kg	0.17 kg	± 0.05 mm
		0.16 in <sup>3</sup>	57.5 in lb	115.1 in lb	0.70 lb	0.37 lb	± 0.002 in
<b>OG 530</b>	7.5°	5 cm <sup>3</sup>	13 Nm	26 Nm	0.62 kg	0.28 kg	± 0.05 mm
		0.31 in <sup>3</sup>	115.1 in lb	230.1 in lb	1.40 lb	0.62 lb	± 0.002 in
<b>OG 550 - 7.5°</b>	7.5°	11.5 cm <sup>3</sup>	30 Nm	60 Nm	1.43 kg	0.63 kg	± 0.05 mm
		0.70 in <sup>3</sup>	265.5 in lb	531.0 in lb	3.10 lb	1.38 lb	± 0.002 in
<b>OG 550 - 12.5°</b>	12.5°	16.5 cm <sup>3</sup>	30 Nm	60 Nm	1.43 kg	0.72 kg	± 0.05 mm
		1.01 in <sup>3</sup>	265.5 in lb	531.0 in lb	3.10 lb	1.58 lb	± 0.002 in
<b>OG 565</b>	7.5°	26 cm <sup>3</sup>	48 Nm	96 Nm	2.29 kg	1.20 kg	± 0.05 mm
		1.59 in <sup>3</sup>	424.8 in lb	849.7 in lb	5.00 lb	2.64 lb	± 0.002 in
<b>OG 570 - 8.5°</b>	8.5°	48.5 cm <sup>3</sup>	105 Nm	210 Nm	5.00 kg	2.55 kg	± 0.05 mm
		2.96 in <sup>3</sup>	929.3 in lb	1858.7 in lb	11.00 lb	5.61 lb	± 0.002 in
<b>OG 570 - 12.5°</b>	12.5°	65 cm <sup>3</sup>	105 Nm	210 Nm	5.00 kg	2.72 kg	± 0.05 mm
		3.97 in <sup>3</sup>	929.3 in lb	1858.7 in lb	11.00 lb	5.98 lb	± 0.002 in
<b>OG 575 - 8°</b>	8°	195 cm <sup>3</sup>	440 Nm	880 Nm	20.95 kg	6.50 kg	± 0.05 mm
		11.90 in <sup>3</sup>	3894 in lb	7788.7 in lb	46.10 lb	14.30 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)**

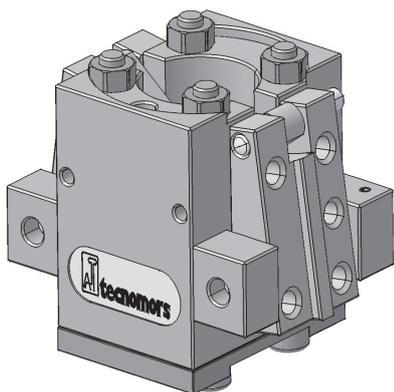
Working Temperature **5 - 60 °C (41 - 140 °F)**

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



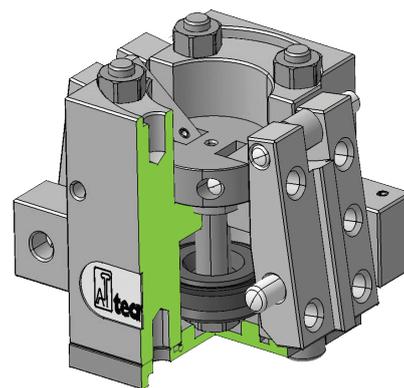
Finger mounting options

## 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.

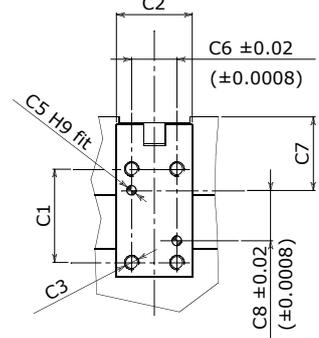
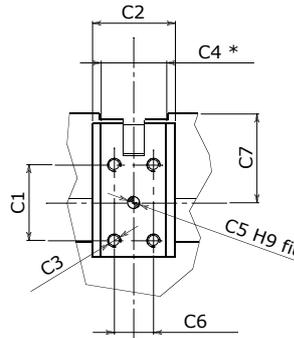
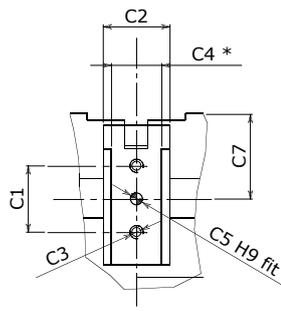
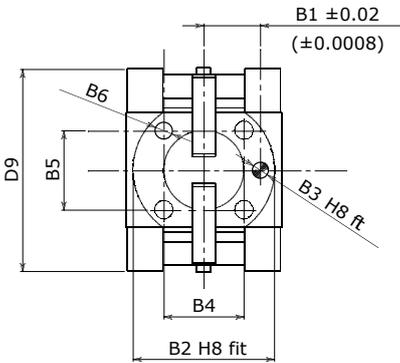
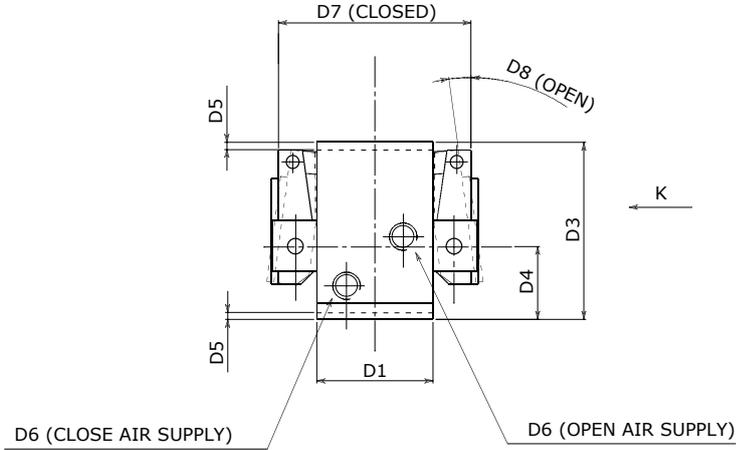
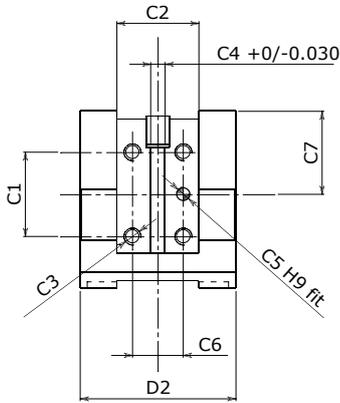


# PRODUCT INFORMATION

# OG 2-Finger

Dowel hole depth: Body  $\geq 1 d$  - Jaws  $\geq 0.5 d$  (from OG510 to OG530) -  $\geq 1 d$  (OG550-OG565-OG570-OG575)  
 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

View "K" (OG550, OG575)



View "K" (OG510, OG530)

View "K" (OG565)

View "K" (OG570)

### Options

- Mounting brackets for inductive proximity switches
- Magnetic switches

	Mounting - Option # 2						Finger Application						Informational Dimensions									
	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6	D7	D8
<b>OG 510</b>	12.00 (0.47)	32 (1.26)	4 (0.16)	20.8 (0.82)	12 (0.47)	4.5 (0.18)	20 (0.79)	16 (0.63)	M4	12 (0.47)	4 (0.16)		25.52 (1.00)		20 (0.79)	34 (1.34)	45.8 (1.80)	25.28 (1.00)	2 (0.08)	M5	35 (1.38)	7.5°
<b>OG 530</b>	15.00 (0.59)	38 (1.50)	5 (0.20)	26 (1.02)	15 (0.59)	5.2 (0.20)	20 (0.79)	20 (0.79)	M4	15 (0.59)	4 (0.16)		25.55 (1.01)		24 (0.94)	40 (1.57)	53.4 (2.10)	27.85 (1.10)	2 (0.08)	M5	42 (1.65)	7.5°
<b>OG 550-7,5°</b>	20.00 (0.79)	50 (1.97)	6 (0.24)	28.28 (1.11)	28.28 (1.11)	6.5 (0.26)	30 (1.18)	29 (1.14)	M6	5 (0.20)	5 (0.20)	18 (0.71)	29.5 (1.16)		41 (1.61)	55 (2.17)	63 (2.48)	26 (1.02)	2.5 (0.10)	G1/8	68 (2.68)	7.5°
<b>OG 550-12,5°</b>	20.00 (0.79)	50 (1.97)	6 (0.24)	28.28 (1.11)	28.28 (1.11)	6.5 (0.26)	30 (1.18)	29 (1.14)	M6	5 (0.20)	5 (0.20)	18 (0.71)	34 (1.34)		41 (1.61)	55 (2.17)	73.5 (2.89)	32.35 (1.27)	2.5 (0.10)	G1/8	74 (2.91)	12.5°
<b>OG 565</b>	25.00 (0.98)	60 (2.36)	6 (0.24)	35.36 (1.39)	35.36 (1.39)	6.5 (0.26)	35 (1.38)	38 (1.50)	M6	30 (1.18)	6 (0.24)	18 (0.71)	41.04 (1.62)		51 (2.01)	68 (2.68)	82 (3.23)	32.46 (1.28)	3 (0.12)	G1/8	96 (3.78)	7.5°
<b>OG 570-8,5°</b>	30.00 (1.18)	75 (2.95)	8 (0.31)	42.42 (1.67)	42.42 (1.67)	8.5 (0.33)	52 (2.05)	42 (1.65)	M8		6 (0.24)	25 (0.98)	41 (1.61)	28 (1.10)	64 (2.52)	84 (3.31)	97 (3.82)	38 (1.50)	3.5 (0.14)	G1/8	118 (4.65)	8.5°
<b>OG 570-12,5°</b>	30.00 (1.18)	75 (2.95)	8 (0.31)	42.42 (1.67)	42.42 (1.67)	8.5 (0.33)	52 (2.05)	42 (1.65)	M8		6 (0.24)	25 (0.98)	45 (1.77)	28 (1.10)	64 (2.52)	84 (3.31)	111 (4.37)	48 (1.89)	3.5 (0.14)	G1/8	124 (4.88)	12.5°
<b>OG 575-8°</b>	42.50 (1.67)	105 (4.13)	8 (0.31)	60.1 (2.37)	60.1 (2.37)	10.5 (0.41)	70 (2.76)	55 (2.17)	M10	10 (0.39)	8 (0.31)	35 (1.38)	70 (2.76)		100 (3.94)	115 (4.53)	135 (5.31)	47.5 (1.87)	3.5 (0.14)	G1/4	170 (6.69)	8°

\* 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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