

pneumagiQ PQ180

Dual gripper
5 kg payload
Weighs 850g

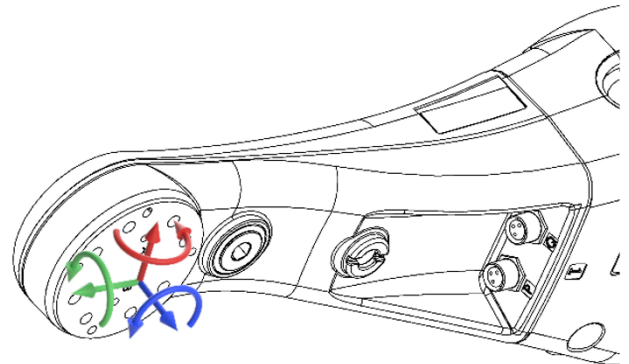


Product Specifications

| Part Number | 6 102 0224 |
|---|------------------------------|
| General | |
| Mountable pneumatic EOAT | 2 |
| Angle between EOAT | 180° |
| Range Extension | 200 mm (7 7/8 inches) |
| Air blow-off ports | 2 |
| Sensor connectors | 4 |
| Response time | < 30 ms (Modbus RTU) |
| Operating medium | Compressed air |
| Weight | 870 g / 1.9 lbs |
| Payload | |
| Max. Payload per Tool Mounting Face* | 3.5 kg / 7.7 lbs |
| Overall payload | 5 kg / 11 lbs |
| Pneumatics | |
| Airflow rate for EOAT | 85 slpm / 3 scfm |
| Airflow rate at Auxiliary port (Air blow-off) | 230 slpm / 8.1 scfm |
| Maximum Operating pressure | 6 bar / 87 psi |
| Communication | |
| Universal Robots | URCap |
| Other robots / controllers | Modbus RTU (RS-485) |
| Connectors | |
| I/O Connector | M8 8pin female connector |
| Air inlet | Ø8 mm tube quick connector |
| Sensor port | M8 3pin female connector |
| Air blow-off Port | G 1/4 female thread |
| Interface - Robot / Tool | |
| Robot mounting | pneumagiQ Robot Coupler |
| Tool mounting | pneumagiQ Tool Coupler |
| Power | |
| Operational voltage | 24V DC |
| Nominal operational current | 600 mA |
| Environment | |
| Ambient temperature range | +5°C to 50°C / 41°F to 122°F |
| Noise level | < 50 dB |
| Ingress Protection | IP66 |

Load Parameters

| Type | Description | Units | PQ180 |
|-------------|--|----------------------|-------|
| Payload | Maximum payload per side | Kg | 3 |
| Payload | Maximum payload total side | Kg | 5 |
| Static load | External force F_x | N | 150 |
| Static load | External force F_y | N | 50 |
| Static load | External force F_z | N | 50 |
| Static load | External moment M_x | Nm | 5 |
| Static load | External moment M_y | Nm | 5 |
| Static load | External moment M_z | Nm | 10 |
| Dynamic | Maximum moment of inertia $I_{xx}/I_{yy}/I_{zz}$ | Kg/m ² | 0.03 |
| Dynamic | Maximum linear acceleration X/Y/Z | m/sec ² | 3 |
| Dynamic | Maximum angular acceleration X/Y/Z | Deg/sec ² | 400 |
| Dynamic | Maximum linear velocity X/Y/Z | m/sec | 3 |
| Dynamic | Maximum angular velocity X/Y/Z | Deg/sec | 300 |



■ X axis
 ■ Y axis
 ■ Z axis

The indicated moments and forces are static values