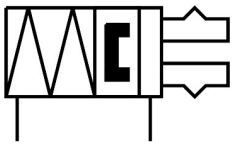
# Three-point gripper
# HGDT-63-A-G1

Part number: 540872



## Data sheet

| Feature | Value |
|---|---|
| Size | 63 |
| Stroke per gripper jaws | 10 mm |
| Max. replacement accuracy | 0.2 mm |
| Max. angular gripper jaw backlash ax, ay | 0.1 deg |
| Max. gripper jaw backlash Sz | 0.05 mm |
| Rotationally symmetrical | 0.2 mm |
| Repetition accuracy, gripper | 0.03 mm |
| Number of gripper jaws | 3 |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Gripper function | 3-point |
| Gripper force back-up | During opening |
| Design | Wedge-shaped drive<br>Force pilot operated motion sequence |
| Position detection | Via proximity switch |
| Operating pressure | 4 bar...8 bar |
| Operating pressure of blocked air | 0 bar...0.5 bar |
| Max. operating frequency of gripper | 4 Hz |
| Min. opening time at 0.6 MPa (6 bar, 87 psi) | 48 ms |
| Min. closing time at 0.6 MPa (6 bar, 87 psi) | 246 ms |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Ambient temperature | 5 °C...60 °C |
| Mass moment of inertia | 42.44 kgcm² |
| Max. force on gripper jaw Fz static | 2500 N |
| Max. torque at gripper Mx static | 80 Nm |
| Max. torque at gripper My static | 50 Nm |
| Max. torque at gripper Mz static | 60 Nm |
| Lubrication interval for guide components | 5 MioCyc |

| Feature | Value |
|---|---|
| Max. mass per external gripper finger | 250 g |
| Product weight | 2469 g |
| Type of mounting | Either:<br>Via through-hole and dowel pin<br>Via female thread and dowel pin |
| Pneumatic connection, blocked air | M5 |
| Pneumatic connection | G1/8 |
| Material cover cap | High-alloy stainless steel |
| Material housing | Wrought aluminium alloy<br>Coated with COMPCOTE |
| Material gripper jaws | Hardened steel |