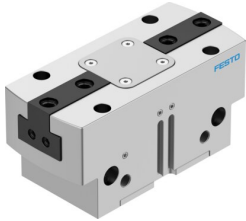


# Parallel gripper HGPT-63-A-B

Part number: 560228

**FESTO**



## Data sheet

| Feature                                          | Value                                                              |
|--------------------------------------------------|--------------------------------------------------------------------|
| Size                                             | 63                                                                 |
| Stroke per gripper jaw                           | 16 mm                                                              |
| Max. interchangeability                          | 0.2 mm                                                             |
| Max. gripper jaw angular play ax, ay             | 0.1 deg                                                            |
| Max. gripper jaw backlash Sz                     | 0.02 mm                                                            |
| Rotational symmetry                              | 0.2 mm                                                             |
| Pneumatic gripper repetition accuracy            | 0.05 mm                                                            |
| Number of gripper jaws                           | 2                                                                  |
| Actuator system                                  | Pneumatic                                                          |
| Mounting position                                | Any                                                                |
| Mode of operation                                | Double-acting                                                      |
| Gripper function                                 | Parallel                                                           |
| Gripping force backup                            | None                                                               |
| Structural design                                | Inclined plane<br>Positively driven motion sequence                |
| Position sensing                                 | Via proximity switch                                               |
| Operating pressure                               | 3 bar...8 bar                                                      |
| Operating pressure for sealing air               | 0 bar...0.5 bar                                                    |
| Max. operating frequency of pneumatic gripper    | 2 Hz                                                               |
| Min. opening time at 6 bar                       | 150 ms                                                             |
| Min. closing time at 6 bar                       | 156 ms                                                             |
| Max. mass per external gripper finger            | 1260 g                                                             |
| Operating medium                                 | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media         | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                 | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                           | VDMA24364-B1/B2-L                                                  |
| Degree of protection                             | IP40                                                               |
| Ambient temperature                              | 5 °C...60 °C                                                       |
| Gripping force per gripper jaw at 6 bar, opening | 1792 N<br>896 N                                                    |
| Gripping force per gripper jaw at 6 bar, closing | 1702 N<br>851 N                                                    |

| Feature                                      | Value                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mass moment of inertia                       | 60.903 kgcm <sup>2</sup>                                                                                                                                                      |
| Maximum force on gripper jaw Fz, static      | 5000 N                                                                                                                                                                        |
| Maximum torque on gripper jaw, Mx static     | 160 Nm                                                                                                                                                                        |
| Maximum torque on gripper jaw, My static     | 180 Nm                                                                                                                                                                        |
| Maximum torque on gripper jaw, Mz static     | 140 Nm                                                                                                                                                                        |
| Relubrication interval for guidance elements | 5 MioCyc                                                                                                                                                                      |
| Product weight                               | 2712 g                                                                                                                                                                        |
| Type of mounting                             | Alternatively:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin |
| Sealing air pneumatic connection             | M5                                                                                                                                                                            |
| Pneumatic connection                         | G1/8                                                                                                                                                                          |
| Note on materials                            | RoHS compliant                                                                                                                                                                |
| Cover cap material                           | high-alloy stainless steel                                                                                                                                                    |
| Housing material                             | Anodized aluminum                                                                                                                                                             |
| Gripper jaw material                         | Hardened steel                                                                                                                                                                |