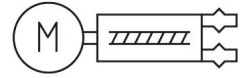


# Parallel gripper kit for robots EHPS-25-A-RA50

Part number: 8210810

**FESTO**



## Data sheet

| Feature                                    | Value                                                             |
|--------------------------------------------|-------------------------------------------------------------------|
| Size                                       | 25                                                                |
| Stroke per gripper jaw                     | 16 mm                                                             |
| Max. interchangeability                    | 0.2 mm                                                            |
| Max. gripper jaw angular play ax, ay       | 0.3 deg                                                           |
| Max. gripper jaw backlash Sz               | 0.04 mm                                                           |
| Rotational symmetry                        | 0.2 mm                                                            |
| Pneumatic gripper repetition accuracy      | 0.01 mm                                                           |
| Number of gripper jaws                     | 2                                                                 |
| Actuator system                            | Electrical                                                        |
| Mounting position                          | Any                                                               |
| Gripper function                           | Parallel                                                          |
| Structural design                          | Worm gear unit<br>T-shape<br>Gear rack/pinion<br>Electric gripper |
| Conforms to standard                       | IEC 61010-1                                                       |
| Guide                                      | Plain-bearing guide                                               |
| Position sensing                           | Via proximity switch                                              |
| Motor type                                 | DC servo motor                                                    |
| Control elements                           | Latching switch                                                   |
| Ready status indication                    | LED                                                               |
| Max. cycle rate                            | 0.8 Hz                                                            |
| Max. current consumption                   | 2 A                                                               |
| Nominal operating voltage DC               | 24 V                                                              |
| Permissible voltage fluctuations           | +/- 10%                                                           |
| Certification                              | RCM compliance mark                                               |
| KC characters                              | KC-EMV                                                            |
| CE marking (see declaration of conformity) | As per EU EMC directive<br>As per EU RoHS directive               |
| Corrosion resistance class (CRC)           | 1 - Low corrosion stress                                          |
| LABS (PWIS) conformity                     | VDMA24364 Zone III                                                |
| Noise level                                | 70 dB(A)                                                          |

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Degree of protection                         | IP40                                                                                                 |
| Ambient temperature                          | 5 °C...60 °C                                                                                         |
| Total gripping force                         | 312 N                                                                                                |
| Mass moment of inertia                       | 5.27 kgcm <sup>2</sup>                                                                               |
| Maximum force on gripper jaw Fz, static      | 450 N                                                                                                |
| Maximum torque on gripper jaw, Mx static     | 28 Nm                                                                                                |
| Maximum torque on gripper jaw, My static     | 16 Nm                                                                                                |
| Maximum torque on gripper jaw, Mz static     | 28 Nm                                                                                                |
| Relubrication interval for guidance elements | 2 MioCyc                                                                                             |
| Product weight                               | 1000 g                                                                                               |
| Max. mass per external gripper finger        | 230 g                                                                                                |
| Electrical connection                        | 5-pin<br>Cable with plug<br>M12x1                                                                    |
| Type of mounting                             | Alternatively:<br>With internal thread and centering sleeve<br>Via through-hole and centering sleeve |
| Note on materials                            | RoHS compliant                                                                                       |
| Housing material                             | Anodized aluminum                                                                                    |
| Gripper jaw material                         | high-alloy stainless steel                                                                           |
| Scope of delivery                            | 1x adapter plate<br>1x Velcro® roll<br>1x position transmitter<br>2x connecting cable                |