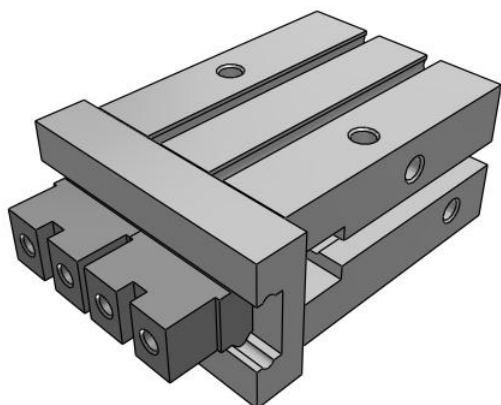




## Standard - MHZ2 MHZ2-20D3

### Datasheet

### General series information

- Maximum gripping force per finger 43.5 N at 0.5 MPa
- Double acting and single acting
- Repeatability:  $\pm 0.01\text{mm}$
- Max. operating frequency: 180 c.p.m.

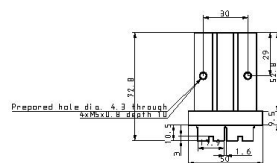
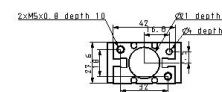
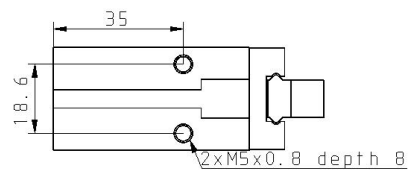
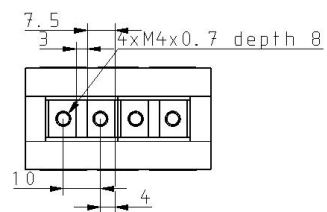
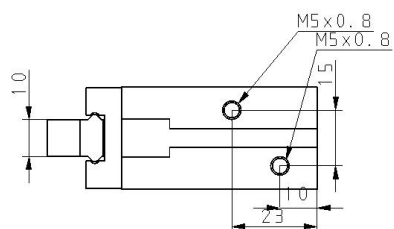
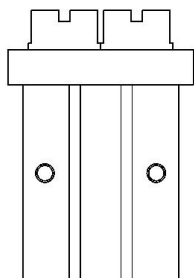


*Gripper, external grip, double-acting with permanent magnet on piston*

### Standard specifications

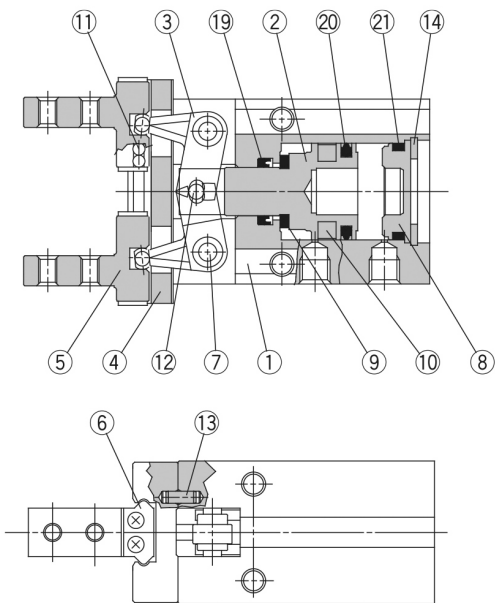
|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| Bore Size                              | 20mm                                      |
| Action                                 | D (Double Acting)                         |
| Finger Position                        | 3 (Flat Finger)                           |
| Body Option                            | Basic                                     |
| Auto Switch                            | No Switch                                 |
| Lead Wire or Prewired Connector        | 0.5m (Or None in the Case of No Switch)   |
| Number                                 | 2 pcs. (Or None in the Case of No Switch) |
| Pressure medium                        | Air                                       |
| Maximum temperature of pressure medium | 60 °C                                     |
| Minimum temperature of pressure medium | -10 °C (No freezing)                      |
| Maximum operating pressure             | 0.7 MPa                                   |
| Minimum operating pressure             | 0.1 MPa                                   |
| Maximum ambient temperature            | 60 °C                                     |
| Minimum ambient temperature            | -10 °C (No freezing)                      |
| Pneumatic input connection             | M5                                        |
| Pneumatic exhaust connection           | M5                                        |
| Repeatability                          | $\pm 0.01 \text{ mm}$                     |
| Lubrication                            | Non-lube                                  |
| Type of gripper                        | Parallel                                  |

|                                                        |               |
|--------------------------------------------------------|---------------|
| Number of pneumatic connections                        | 2             |
| Effective holding force per finger, external (0.5 MPa) | 42 N          |
| Effective holding force per finger, internal (0.5 MPa) | 66 N          |
| Number of fingers                                      | 2             |
| Mode of operation                                      | Double acting |
| Maximum operating frequency                            | 180 c.p.m.    |
| Opening / closing stroke (both sides)                  | 10 mm         |
| Weight                                                 | 0.228 Kg      |

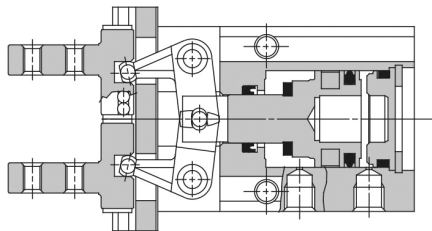


# Constructions

Fingers open



Fingers closed



Parts list

| No. | Description    | Material                                                | Note                      |
|-----|----------------|---------------------------------------------------------|---------------------------|
| 1   | Body           | Aluminum alloy                                          | Hard anodized             |
| 2   | Piston         | ø10, ø16: Stainless steel<br>ø20 to ø40: Aluminum alloy | ø20 to ø40: Hard anodized |
| 3   | Lever          | Stainless steel                                         | Heat treated              |
| 4   | Guide          | Stainless steel                                         | Heat treated              |
| 5   | Finger         | Stainless steel                                         | Heat treated              |
| 6   | Roller stopper | Stainless steel                                         |                           |
| 7   | Lever shaft    | Stainless steel                                         | Nitrided                  |
| 8   | Cap            | ø10 to ø25: Synthetic resin<br>ø32, ø40: Aluminum alloy | ø32, ø40: Clear anodized  |
| 9   | Bumper         | Urethane rubber                                         |                           |
| 10  | Rubber magnet  | Synthetic rubber                                        |                           |

Parts list

| No. | Description      | Material                           | Note          |
|-----|------------------|------------------------------------|---------------|
| 11  | Steel balls      | High carbon chromium bearing steel |               |
| 12  | Needle roller    | High carbon chromium bearing steel |               |
| 13  | Parallel pin     | Stainless steel                    |               |
| 14  | C type snap ring | Carbon steel                       | Nickel plated |
| 19  | Rod seal         | NBR                                |               |
| 20  | Piston seal      | NBR                                |               |
| 21  | Gasket           | NBR                                |               |

Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

## Additional information

Catalogue

[MHZ\\_EU.pdf](#)

Operation manuals

[OM\\_MHZ2\\_OMD0047EN-A.pdf](#)