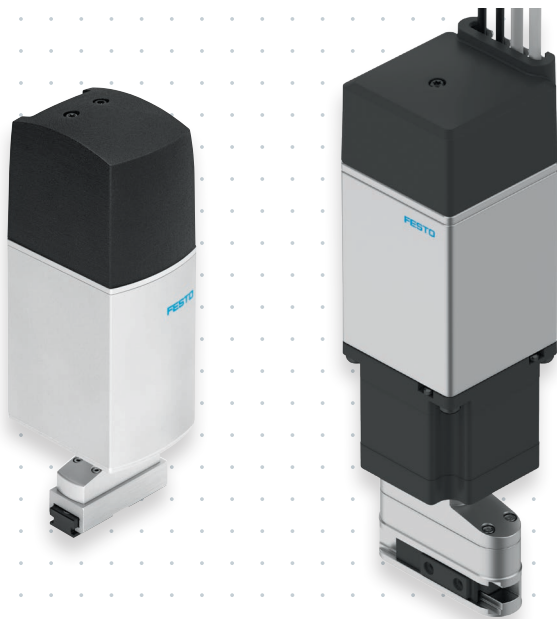




## Rotary gripper module EHMD



### Highlights

- Choice of fully electric or with pneumatic gripper
- Optional compensation module to compensate for the thread pitch of caps (without movement of the Z-axis) by up to 10 mm during rotation
- Easy configuration of the Festo motor controller CMMT-ST

**The compact rotary gripper module EHMD is ideal for handling small objects in a wide variety of applications. The EHMD is particularly suitable for laboratory automation, for example for the easy opening of a large range of sample vials. The unique Z-module automatically adjusts to the thread pitches of the caps, without requiring changeover times! And the EHMD can also be easily integrated with the motor controller CMMT-ST in force control mode.**

### Equipped for many tasks

Whether for in vitro diagnostics, cell or genome research or quality inspections in the biotech and pharmaceutical industries, the EHMD is completely reliable. It also offers this reliability when it comes to preparing and analysing samples, when loading centrifuges, when gripping, rotating and placing microwell plates or even when opening and closing sample vials of different sizes.

Quality inspections with cameras, bar code recognition or printing operations with label printers are easy to implement in combination with a 3D gantry, including in small parts assembly and the electronics industry or the food and beverage industry.

### Pneumatic or electric?

The EHMD comes in two versions: fully electric or with a pneumatic gripper. Both offer infinite rotation.



### Additional information:

Product page

> [www.festo.com/catalogue/ehmd](http://www.festo.com/catalogue/ehmd)



### Variants

The rotary gripper module EHMD is available in different variants: Electric rotation and gripping or electric rotation and pneumatic gripping.



Size 40  
with electric gripper



Size 40  
with pneumatic gripper



Size 40  
with long-stroke gripper



Size 50  
with electric gripper

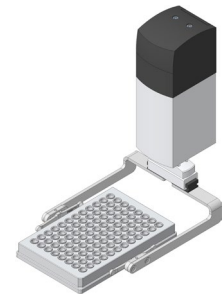
### Wide range of accessories

These include, for example, a mounting adapter that can be used to compensate for the extended thread pitch when opening and closing vials. This means that the Z-axis does not need to be used during rotation – the capping and decapping process thus becomes easier, faster and applicable for a wide variety of cap types and thread pitches.

Additional adapter plates for different Z-axes are also available.



E.g. gripper fingers for microwell plates that are quick and easy to mount.



### Technical data

#### Rotation: electric, infinite, with encoder

Type	EHMD-40	EHMD-50
Max. torque	0.3 Nm, sufficient for opening vials of up to 15 ml	1 Nm up to 240 rpm (for larger vials)
Accuracy	0.2°	0.2°
Max. speed	150 rpm, with low torque up to 240 rpm	Up to 240 rpm

#### Gripping: electric or pneumatic

Type	EHMD-40	EHMD-50
Stroke	2x 5 mm, 2x 15 mm	2x 15 mm
Speed	6, 70 mm/s	25 mm/s
Max. gripping force	35 N at 2x 5 mm 14 N at 2x 15 mm Force mode required	70 N 55 N at a gripper finger length of 10 mm Closed loop control/force mode required
Version with electric gripper	Positioning or for force control, self-locking in case of power loss Weight 681 g	For force mode, self-locking in case of power loss Weight 1.3 kg
Version with pneumatic gripper	Force control with force adjustment via operating pressure, with T-slot for proximity switch Weight 577 g	–
Ambient temperature	0 ... 40 °C	0 ... 40 °C
Protection class	IP20	IP20