



**ROEMHELD**  
HILMA ■ STARK

Issue 10-16 E

## M 1.201

### Rotating modules DMHe 200 / DMVe 600 - electrically-operated max. load 2,000 N / 6,000 N, max. torque 120 Nm



#### Principal use

- Assembly of automotive parts
- Motor assembly
- Gear assembly
- Pump construction

#### Operation

The module is operated with touch control by means of an optionally available hand panel or foot switch with two push-buttons. It can safely stop in every angular position. An automatic stop is preset at all 90° positions.

The zero position of the automatic stop can be preset to any position by pushing both push-buttons.

#### Advantages

- Versions for horizontal or vertical axis of rotation
- Rotating in both directions
- Auto stop
- Low-backlash gear
- Self-locking in any position
- Compact design
- Sturdy design
- Convertible
- Ergonomic working
- Safe and quick handling in assembly processes
- Long service life
- Checked in compliance with DIN EN 1570 with quadruple static overload

#### Description

Rotating modules are used in assembly and handling processes to transform electrical energy into a rotating movement.

When using the rotating module, component parts can be rotated rationally, quickly and safely and can be assembled ergonomically from all sides.

The strongly reduced worm gear allows high holding torques in standstill.

The double-bearing driven shaft compensates high axial and radial forces.

The rotating module is designed for a long service life. The electronically commutated DC motor is virtually wear-free.

The mechanical components and sealing elements are designed for 1,000,000 indexing cycles within the indicated load limits.

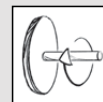
The rotating modules – horizontal axis and vertical axis are nearly identical in construction, thus the axis alignment can be retrofitted for different applications.

#### modulog rotating modules electrically operated

##### - horizontal axis DMHe 200

Part no. 6508-02-36-E

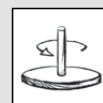
Max. load: 2,000 N



##### - vertical DMVe 600

Part no. 6509-10-36-E

Max. load: 6,000 N



#### Technical data

Angle of rotation:	360°
Max. torque:	120 Nm
Max. holding torque:	350 Nm
Max. torque:	800 Nm
Rotation:	any
Index:	90° standard optionally 45°/60°/180°

#### Operations

- Foot switch
- Hand panel



#### Combinable with the modules

##### Lifting modules

- Shop Floor Telescope: as per data sheet M 4.202
- Range: as per data sheet M 4.203
- Shop-Floor: as per data sheet M 4.301
- Strong: as per data sheet M 4.401
- Solid: as per data sheet M 4.402

#### modulog interfaces

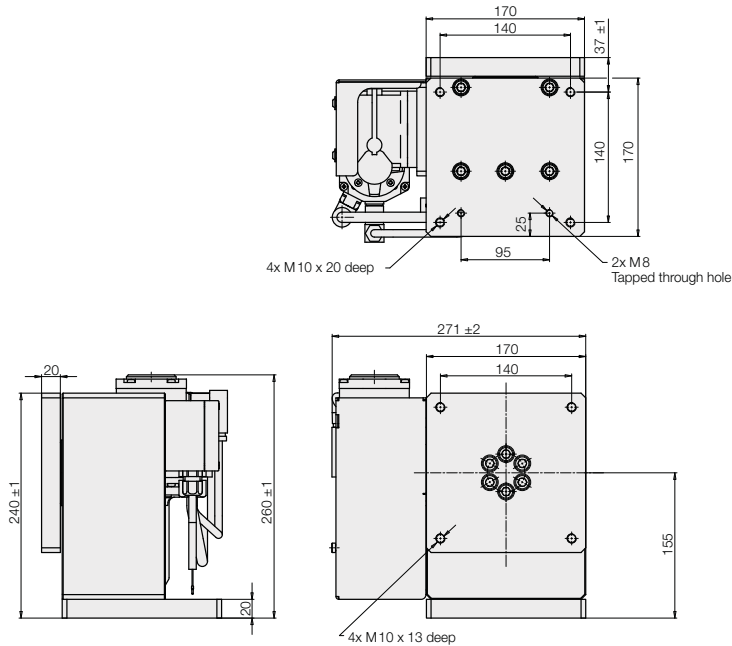
- Flange plate: 140 x 140 - M10
- Body: 140 x 140 - M10

#### Accessories

- Switching power supply Part no. 6863-020
- Hand panel as per data sheet M 8.203
- Foot switch as per data sheet M 8.203

## Rotating module – horizontal axis DMHe 200

### Dimensions



Part no. 6508-02-36-E

### Installation

The rotating module has a modulong interface 140x140 mm and can be mounted by 4 screws M10 onto a fixture or another module. The power supply is made by the separately available switching power supply. An electronic control is integrated.

### Technical data

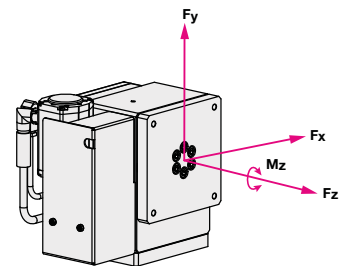
Max. total $F_x/F_y$	[N]	2,000
Max. $F_z$	[N]	1,000
Max. driving torque $M_z$	[Nm]	120
Max. holding torque $M_z$	[Nm]	350
<b>Max. total of all torques <math>M_x/M_y/M_z</math></b>	<b>[Nm]</b>	<b>800</b>
Max. cycle time (ED)		25 %, 60 s On
Code class		IP 54
Current consumption	[A]	6 ... 16
Max. admissible current consumption	[A]	20
Supply voltage	[V DC]	24–30

Adjust the speed of rotation by trimming potentiometer 2.5 to 7.5 rpm.

Adjust the indexing angles 45, 60, 90 and 180 degree by trimming potentiometer.

Adjust the soft stops by trimming potentiometer.

### Maximum admissible load



### Maximum admissible forces:

$F_x = \pm 2,000$  N

$F_y = \pm 2,000$  N

$F_z = \pm 1,000$  N

### Maximum admissible torques:

$M_x$  or  $M_y = 800$  Nm

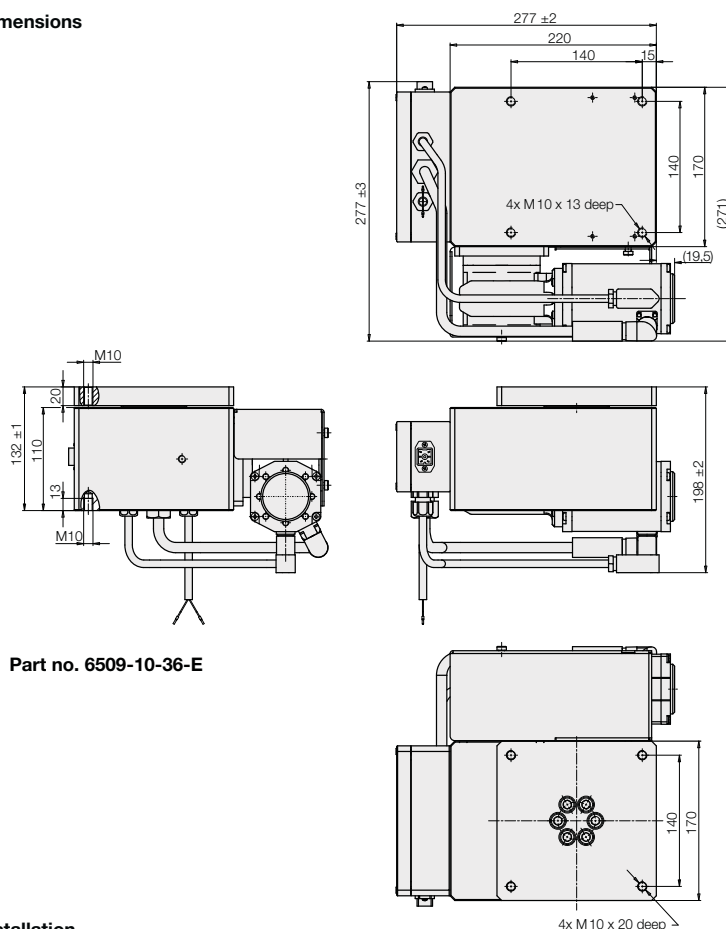
$M_z = 350$  Nm (in standstill)

The total of all occurring forces or torques must not exceed the highest single value.

The rotating module is checked in compliance with DIN EN 1570 with quadruple static overload.

## Rotating module – vertical axis DMVe 600

### Dimensions



Part no. 6509-10-36-E

### Installation

The rotating module has a modalog interface 140x140 mm and can be mounted by 4 screws M10 onto a fixture or another module. The power supply is made by the separately available switching power supply. An electronic control is integrated. When mounting onto a flat surface an elevation of the module has to be provided because of protruding components.

### Technical data

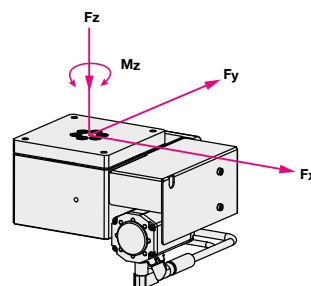
Max. total $F_x/F_y$	[N]	2,000
Max. $F_z$	[N]	6,000
Max. driving torque $M_z$	[Nm]	120
Max. holding torque $M_z$	[Nm]	350
<b>Max. total of all torques <math>M_x/M_y/M_z</math></b>	<b>[Nm]</b>	<b>800</b>
Max. cycle time (ED)		25 %, 60s On
Code class		IP 54
Current consumption	[A]	6...16
Max. admissible current consumption	[A]	20
Supply voltage	[V DC]	24-30

Adjust the speed of rotation by trimming potentiometer 2.5 to 7.5 rpm.

Adjust the indexing angles 45, 60, 90 and 180 degree by trimming potentiometer.

Adjust the soft stops by trimming potentiometer.

### Maximum admissible load



### Maximum admissible forces:

$F_x = \pm 2,000$  N

$F_y = \pm 2,000$  N

$F_z = + 6,000$  N

### Maximum admissible torques

$M_x$  or  $M_y = 800$  Nm

$M_z = 350$  Nm (in standstill)

The total of all occurring forces or torques must not exceed the highest single value.

The rotating module is checked in compliance with DIN EN 1570 with quadruple static overload.