Rotating Module – Vertical Axis DMVe 600

Max. load 6,000 N
electrically operated

Advantages

- 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

Principal use

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

Operation

The module is operated with touch control by means of 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.

Installation

The rotating module has a *modulog* interface 140 x 140 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.

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 drive 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 (data sheet M 1.201) and vertical axis are nearly identical in construction, thus the axis alignment can be retrofitted for different applications.

modulog

Rotating module – vertical axis

DMVe 600

Part-no. 6509-10-36-E

Technical characteristics

Max. load:	6.000 N
Max. torque:	120 Nm
Max. holding torque:	350 Nm
Radial:	M_X/M_Y = 800 Nm
Angle of rotation:	360°
Rotation:	any
Index:	90° standard
	optionally 45°/60°/180°

Operations

- Foot switch
- Hand panel

Combinable with the modules

Lifting modules

- Range as per data sheet M 4.201 and M 4.202
- ShopFloor as per data sheet M 4.301
- Strong as per data sheet M 4.401

modulog interfaces

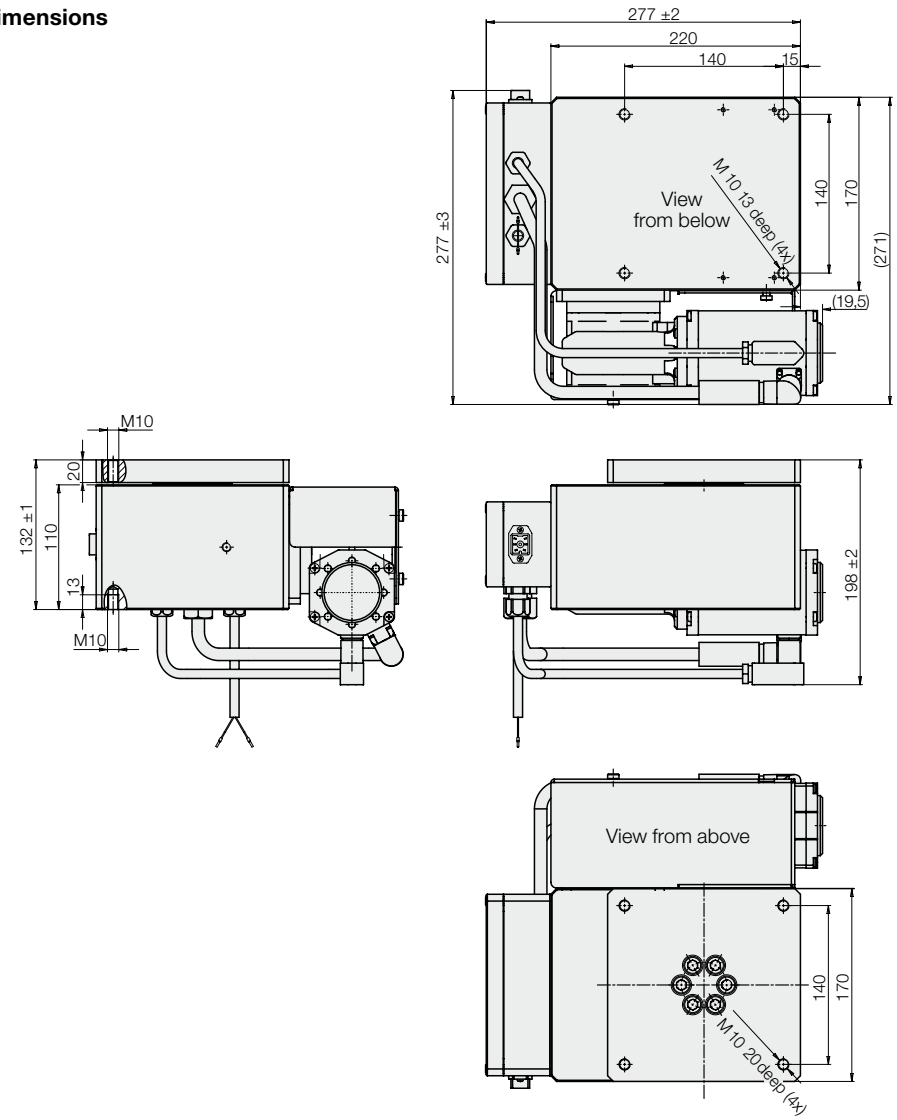
- Flange plate: 140 x 140 - M10
- Body: 140 x 140 - M10

Accessories

- Power supply **Part-no. 3822-322**
- Hand panel **Part-no. 3823-025**
- Foot switch **Part-no. 3823-038**

as per data sheet M 8.200

Dimensions



Technical characteristics

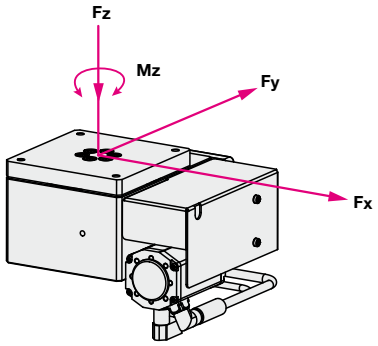
Max. total F_X/F_Y	[N]	2,000
Max. F_Z	[N]	6,000
Max. driving torque M_Z	[Nm]	120
Max. holding torque M_Z	[Nm]	350
Max. total of all torques $M_X/M_Y/M_Z$	**[Nm]**	**800**
Max. cycle time (ED)		25 %, 60 s On
Code class		IP 54
Current consumption	[A]	6 … 16
Max. admissible current consumption	[A]	20
Supply voltage	[VDC]	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 = ± 2,000 N
F_Y = ± 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.