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Sales partner



Rotating Module - Vertical Axis DMV 600

Max. load 6,000 N manual operation



Advantages

- Rotating in both directions
- Safe indexing
- Compact device
- Sturdy design for industrial assembly
- Allows ergonomic working
- Safe and quick handling in assembly processes
- Easily combinable with other modulog modules

modulog

Rotating module - vertical axis **DMV 600**

Part-no. 650X-10-XX-O-X

Technical characteristics Max. load: 6.000 N Max. torque:

axial: 800 Nm radial: 800 Nm Angle of rotation: 360°

Operations

Manual



Application

Highly-stressable rotating module for universal use in assembly and handling processes in the industry.

Principal use

- Assembly of car seats
- Motor assembly
- Plant construction
- Construction of power units

Material

Body: steel, black oxide Rotating plate: steel, black oxide Indexing mechanism: steel, hardened Bearing:

Mounting

To fix modulog modules or components of the user, the rotating module has a 140 x 140 modulog interface in the flange plate and the

As accessory for individual fixing holes a round flange plate without 140 x 140 interface is available.

Description

The rotating module - horizontal axis DMV is a plain bearing rotation axis that can compensate high axial and radial forces. The angle of rotation in both directions is 360°.

Due to special bearings it is insensitive to shocks and thrusts.

The design of the rotating module allows its integration in applications with light as well as with heavy loads.

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

The rotating module is equipped with an optional indexing (see page 3).

Operation

The basic version of the rotating modules does not have any operating elements.

The rotating operation is manually effected at the workpiece or at the assembly fixture. The indexing is operated by a foot pedal.

Indexing

Operation with

Foot pedal



Combinable with the modules

 Rotating module – horizontal axis DMH 200 as per data sheet M 1.101



 Tilting module **KMB 100** as per data sheet M 2.101

 Lifting module as per data sheet M 4.XXX



modulog interfaces

• Flange plate: 140 x 140 - M10 140 x 140 - Ø 10.5 mm • Body:

Accessories

 Flange plate as per data sheet M 8.120





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Version without indexing

manual operation



Description

The rotating module - vertical axis DMV 600 does not have an indexing in its basic version. The rotating operation is manually effected at the workpiece or at the assembly fixture.

Part-no.: 6506-10-36-O

Technical characteristics

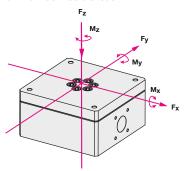
Operation: manual at the component part

Angle of rotation: 360°

Direction of rotation: both directions Indexing: without

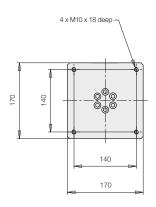
Weight: 15 kg

Maximum admissible load

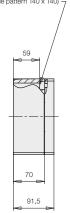


Dimensions





4 x counterbore for screw M10 DIN 912 (hole pattern 140 x 140) -



Total $M_{X/y} = 800 \text{ Nm}$

 $F_X = \pm 2,000 \text{ N}$

 $F_y = \pm 2,000 \text{ N}$ $F_z = + 6,000 \text{ N}$

M_z: only for type with indexing (see page 3)

Maximum admissible forces:

Maximum admissible torques

(see page 3)
In the case of eccentric loads, it is recommended

to compensate these by counterweights. In offposition the indicated maximum torques may occur.

The forces and torques have to be considered.

The forces and torques have to be considered by the operator. During the rotating motion only 50% of the maximum values are admitted.

Accessories

• Flange plate

round for individual fixing holes

Part-no. 6311-400

See data sheet M 8.120

Important notes!

The fixing screws M10 are not included in our delivery. (Recommended property class min. 8.8)

The rotating module is designed for applications within closed rooms.

Sales partner

Version with indexing

manual operation

Operation of the indexing

Description

The rotating module - vertical axis DMV 600 with pedal-operated indexing is a compact and functional unit.

It consists of a basic module with integrated indexing mechanism and an operating unit with foot pedal, connected by a 2 m long hydraulic

This flexible connection allows the individual placement of the operating unit at the most favourable ergonomic position.

The rotating operation is manually effected at the workpiece or at the assembly fixture.

By operating the foot pedal by 35° downwards the index is released and the workpiece or the fixture can be rotated.

If the foot pedal is not operated, the index bolt engages automatically by spring force into the next indexing position. Release of the index is made by means of the sturdy hydraulics.

The operation with a foot pedal guarantees that the operator always has both hands free.

The standard indexing positions are set to 8 x 45°, 6 x 60°, 4 x 90° and 3 x 120°. Other angles are available on request.

Important notes!

The fixing screws M10 are not included in our Maximum admissible load delivery.

The rotating module is designed for applications within closed rooms.

The module may only be moved in a controlled way to the indexing positions. If the indexing bolt engages in full motion, the module will be dynamically overloaded.

Code for part numbers

6509-10-XX-O-I Part-no.:

Engagement position

 $45 = 8 \times 45^{\circ}$

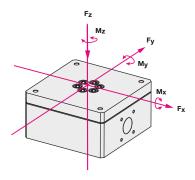
 $60 = 6 \times 60^{\circ}$

 $36 = 4 \times 90^{\circ}$

12 = 3 x 120°

Technical characteristics

reclifical characteristics	
Operation:	manual at the component
	part
Angle of rotation:	360°
Direction of rotation:	both directions
Indexing:	hydromechanical
	Operation with foot pedal
Weight:	25 kg



Maximum admissible forces:

 $F_X = \pm 2,000 \text{ N}$

 $= \pm 2,000 \text{ N}$

 $F_{Z} = + 6,000 \text{ N}$

Maximum admissible torques

Total $M_{x/y} = 800 \text{ Nm}$

Maximum admissible torque around the rotation axis Mz

The maximum torque around the rotation axis of the rotating module $\ensuremath{\mathsf{M}}_{\ensuremath{\mathsf{Z}}}$ in engaged mode is 800 Nm.

In the case of eccentric loads, it is recommended to compensate these by counterweights. In offposition the indicated maximum torques may occur.

The forces and torques have to be considered by the operator. During the rotating motion only 50% of the maximum values are admitted.

Accessories

• Flange plate

round for individual fixing holes

Part-no. 6311-400

See data sheet M 8 120

Delivery

The rotating module and the indexing unit including hydraulic hose and hydraulic oil are delivered as completely assembled unit ready

Dimensions

