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ROEMHELD

Issue 6-09 E M 4.5

Lifting Module Twin-Strong

Max. lifting force 6,000 N, stroke from 200 to 400 mm, manual-hydraulic and electro-mechanical version



Advantages:

- Lifting force up to 6,000 N Extreme load due to double
- steel quides
- Very high section modulus
- Rigid guiding system without clearance
- Sturdy and tough
- Compact design
- Modular standard design, easy to combine

The lifting module Twin-Strong has two high-

tensile cylinder tube profiles with chromium-plated surfaces. The design with solid profiles

tube profiles permits a guiding system without

The guiding system works without fat and oil

lubrication. High-quality materials for plain

allows a stable guiding system with perfect

smooth running. The high precision of the

clearance and perfect smooth running.

Ergonomic design

Description

bearings are used.

shock motions.

Safe and precise handling

modulog Lifting module



Part-no. 8914-06-X0-X

Technical characteristics

Max. torque: Stroke:

Max. lifting force: 6,000 and 10,000 N 2,000 Nm 200 to 400 mm

Operational modes



Combinable with the modules

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

Tilting module KMB 100



Rotating module - vertical axis DMV 1000 as per data sheet M 3.101

modulog interfaces

- Top plate: 140 x 140 - Ø 10.5 mm
- Bottom plate: 200 x 200 - Ø 10.5 mm

Accessories

- · Foot switch and hand panel as per data sheet M 8.200
- Electrical supply unit
- as per data sheet M 8.200 Base and adaptor plates
- as per data sheet M 8.100 and M 8.110 Table plates
- as per data sheet M 8.130 and M 8.131

Application

Lifting module for extreme loads.

Principal use

- Industrial production with difficult application conditions
- Automotive industry
- Assembly of car seats
- Drive technology, axes, cardan shafts
- Compressors, hydraulic elements, pumps
- Turbines, motors, gearbox construction
- Applications with frequent load changes and high torque loads

Fixing and installation

For fixing of modulog modules or other components of the user at the top plate the lifting module has a triple interface 140 x 140. For fixing of the lifting module on a flat level

floor the lifting module has a double interface 200 x 200. For fixing 6 screws M10 of property class 10.9 as well as heavy-duty plugs are to be used.

Material

Double guiding system, top and bottom plates are made of steel. Materials for plain bearings are made on the base of polymers.

Characteristic are applications with indifferent, dynamically swelling rotating motions and





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Description

The stroke movement is obtained by a hydraulic linear unit with single-lever actuation with oil being pumped by means of a piston pump into a plunger cylinder.

During retraction the oil returns due to the weight of the load from the cylinder back to the reservoir. A defined speed reduction is effected.

The manual-hydraulic variant is particularly sturdy and durable. This variant meets high safety demands and withstands jerking and knocking loads in applications.

stroke

Code for part numbers

Manual-hydraulic version operation with foot pedal





3 = 300 mm

Part-no.

4 = 400 mm

Operation

To lift the load, the foot pedal has to be depressed by approx. 45° several times. The pedal returns to its off-position by means of a return spring.

To lower the load, the foot pedal has to be moved upwards by approx. 10°.

Per 100 mm stroke 10 pump motions are required.

Technical characteristics

Stroke [mm]	A [mm]	A + stroke [mm]	Weight [kg]
200	420	620	95
300	520	820	100
400	620	1020	105

Maximum lifting force and maximum admissible torque load



Maximum lifting force Fz: 6,000 N

Maximum torque load:

M_X: 2,000 Nm or M_y: 1,200 Nm M_z: 600 Nm

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

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

Dimensions



Important notes!

To descend the lifting module a minimum load of approx. 200 N is required. The lifting module must only be pressure loaded. The approx of cravity aboutd be within

loaded. The centre of gravity should be within the traverse of the fixing screws. If the centre of gravity is outside, the dowelled joint with the floor has to be dimensioned correspondingly. In such cases it is recommended to use a larger base plate.

In case of eccentric load of more than 250 mm there is the danger of locking of the lifting module and an automatic descent will no longer be possible.

The lifting module is designed for applications within closed rooms.

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8914-06-X0-E





Electro-mechanical version operation with foot switch or hand panel



Description

The lifting motion is generated by an electric motor with a spindle lifting gear.

The electrically operated variant is particularly suitable for positioning and adjusting tasks of working tables as well as for material supply and transport.

These lifting units excel by a smooth running.

Operation

stroke

Lifting and lowering is triggered by pushbuttons with touch control contact. After release of the push-button, the motion will be immediately stopped.

Code for part numbers Part-no.

Stroke **2** = 200 mm **3** = 300 mm

4 = 400 mm

Maximum lifting force Fz: 6,000 N

Admissible torque load

and important notes

As per manual-hydraulic version (see page 2).

Dimensions

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Technical characteristics

Lifting speed:	64 mm/s
(load dependent)	
Electric connection:	Plug
Duty cycle:	15 % ED
Code class	IP 54
Control voltage	24 VDC
Power input	144 W

Delivery

The lifting modules are delivered ready for connection. Foot switches or hand panels as well as supply units and a mains cable have to be ordered seperately as accessory.

Electrical accessories

See data sheet M 8.200 Foot switch

with connecting cable 1.5 m Part-no. 3823-029



Hand panel

with connecting cable 1.6 m Part-no. 3823-025



 Supply unit with control for one lifting module Part-no. 3821-246



Mains cable 230 VAC

with earthing type plug for supply units Mains cable, smooth 3.0 m part-no. 3823-040 Mains cable, coiled 2.3 m part-no. 3823-041

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Accessory

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Base plate for increased stability Part-no. 6311-460 See data sheet M 8.100

