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Sales partner



M 4.402

Lifting modules Solid

Max. lifting force 4,000 N and 6,000 N, stroke from 200 to 400 mm manual-hydraulic version



Advantages

- Lifting force up to 6,000 N
- Displacement with low friction is also given with high torque load
- High load by roller guiding element with high section modulus
- Sturdy and tough
- Compact design
- Safe and precise handling
- Checked in compliance with DIN EN 1570 with quadruple static overload
- Better working with lower load
- Integrated stop for pedal

Application

Lifting modules for high demands on performance and service life in the industrial assembly.

Principal use

- Ergonomic design of working places
- Industrial production plants
- Automotive industry
- Assembly of car seats
- Assembly of drive components, axes and cardan shafts
- Assembly of compressors, hydraulic components and pumps
- Assembly of turbines, motors and gear boxes
- Applications with frequent load changes

Fixing and installation

For fixing of *modulog* modules or other components of the user at the top plate, the lifting module has an interface 140 x 140 and 200 x 200.

For fixing of *modulog* modules at the bottom plate, the lifting module has an interface 200 x 200. This plate can also be used to fix the lifting module on a flat level floor. For fixing, screws M10 of property class 10.9 as well as heavy-duty plugs are to be used.

For increased stability, a base plate, which can be mounted to the bottom plate, is available as accessory. Fixing on the floor is made by means of the base plate.

Description

The lifting module has an integrated roller guiding element. This allows a backlash-free guiding system with very good smooth running and the introduction of high moments into the lifting module.

The guiding system is lifetime lubricated. To obtain high robustness, all components are made of high-quality materials. Characteristic are applications with indifferent, dynamically swelling rotating motions and shock motions.

Material

All essential elements are made of steel to obtain a high robustness.

Variants

Drive variants with brushless electric motor 48 VDC or hydraulic cylinder can be realised on request as per customer's specifications. Service life and lifting speed is perfect for cycle-related assemblies.

modulog

Lifting module



Part no. 8926-0X-X0-H

Technical data

Max. lifting force: 4,000 N; 6,000 N Max. bending moment: 1,000 Nm Stroke: 200 to 400 mm

Operations

Pedal



Combinable with the modules

 Rotating modules – horizontal axis DMH 200 as per data sheet M 1.101, DMHe 200 as per data sheet M 1.201



Tilting modules
 KMB 100 as per data sheet M 2.101
 KME 100 as per data sheet M 2.201



 Rotating modules – vertical axis DMV 600 as per data sheet M 1.301, DMVe 600 as per data sheet M 1.201



• Cart modules WMS as per data sheet M 5.101



• Floor modules FMS as per data sheet M 6.101



modulog interfaces

• Top plate: 140 x 140 - M10

200 x 200 – Ø 10.5 mm

• Bottom plate: 200 x 200 - Ø 10.5 mm

Accessories

 Base and adaptor plates as per data sheet M 8.100 and M 8.110

Table plates

as per data sheet M 8.130



Sales partner

Manual-hydraulic version

operation with foot pedal



Description

The stroke movement is obtained by a manual-hydraulic lifting drive 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 control is effected.

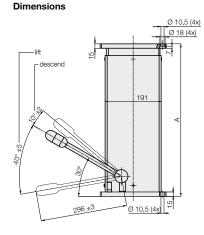
The manual-hydraulic version is particularly sturdy and durable. This variant meets high safety demands and withstands jerking and knocking loads in applications.

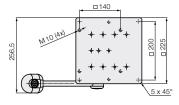
Code for part numbers

Part no. **8926-0X-X0-H Maximum lifting force 4** = 4,000 N **6** = 6,000 N **Stroke**

2 = 200 mm

3 = 300 mm **4** = 400 mm





Operation

To lift the load, the foot pedal has to be depressed by approx. 40° 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°.

Technical data

Stroke [mm]	A [mm]	A + stroke [mm]	Weight [kg]
200	420	620	56
300	520	820	64
400	620	1,020	73

Lifting force	Pump strokes per 100 mm	Descent speed
[N]	•	[mm/s]
4,000	7	approx. 22
6,000	9	approx. 22

Important notes!
To descend the lifting module, a minimum load of approx. 200 N is required.

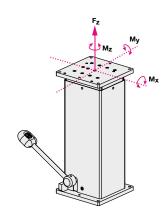
The lifting module must only be pressure loaded. The centre of gravity should be within the traverse of the fixing screws. If the centre of gravity is outside, the dowelled joint with the floor has to be dimensioned correspondingly. In such cases it is recommended to use a larger base plate.

In case of eccentric load of more than 250 mm, the column cannot descend automatically because of too high friction forces.

The lifting module is designed for applications within closed rooms.

The hydro-manual lifting drive can not be operated with synchronization control.

Maximum lifting force and maximum admissible torque load



Maximum lifting force Fz:

Alternatively 4,000 N or 6,000 N

Maximum torque load:

Total M_X/y: 1,000 Nm **M_Z:** 1,000 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.

Base plate for increased stability

as per data sheet M 8.100

Accessories