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Issue 9-07 E ROEMHELD informatio

Tilting Module KMB 100

Max. load 1,000 N, load balanced manual operation



Advantages:

Description

reducing valve.

to the tilting module.

available on request.

and their reliable fixing.

tilting of the component part.

- Easy tilting and fixing of components in angle positions 0° and 90°
- Compensation of the tilting torques by pneumatic balancer
- Locking of individual tilting positions 0° / 90°
 - High load potential
- Suitable for table mounting
- Good accessibility from all sides
- Optimised ergonomics
- Easily combinable with other modulog modules

The tilting module KMB 100 with pedal-

The tilting module is equipped with a

operated indexing offers the possibility of easy

pneumatic balancer that compensates almost

completely generated torques during tilting.

The balancer is adapted to the weight of the

Therefore only little forces are required for

component part by a pneumatic pressure

connected by a 2 m long hydraulic hose

This flexible connection allows the individual

placement of the operating unit at the most

The standard indexing positions are set to

0° and 90°. Other indexing positions are

The operating unit of the indexing is

favourable ergonomic position.

manual tilting of heavy components by ±90°

modulog **Tilting module**





Technical characteristics

Max. load: Max. torque: Max. balancable torque:

1,000 N 500 Nm 300 Nm

Operation

Manual

Indexing



Indexing angle: 0° / 90° Operation by pedal



Combinable with the modules

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



· Lifting modules as per data sheet M 4.XXX

modulog interfaces

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

Operation

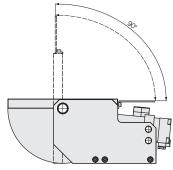
The tilting module does not have operating elements. The tilting operation is effected manually directly at the component part or at the assembly fixture.

The indexing is operated by a foot pedal. By operating the foot pedal by 35° the index is released and the component part or the fixture can be tilted.

If the foot pedal is not operated, the index bolt engages automatically into the next indexing position.

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





Application Tilting module for universal use in assembly and handlingy processes in the industry.

Principal use

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

Material

Cylinder body: steel, black oxide Tilting plate: steel, black oxide Body balancer: aluminium Body indexing: aluminium Indexing mechanism: steel, hardened

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

Important notes

The pneumatic balancer requires compressed air supply.



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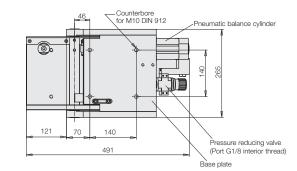
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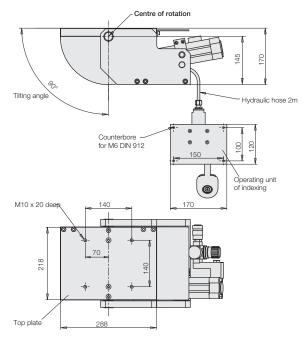


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Technical Characteristics Dimensions

Dimensions





Application example



Tilting module KMB 100 – mounted on lifting unit Shop-Floor

2 M 2.101 / 9-07 E

Delivery

The tilting module and the indexing unit including hydraulic hose and hydraulic oil are delivered as a completely assembled unit ready for use.

Important notes

The adjusted compensation weight or torque is always effective. Therefore the tilting module must only be loaded and unloaded in horizontal position. In tilted position unlocking must not be made without load.

For the pneumatic connection a compressed air coupling ND 7.2 is recommended. The fixing screws M10 are not included in our

delivery.

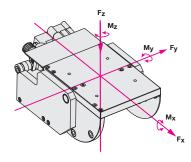
The tilting module is designed for applications within closed rooms.

Part-no. on request

Technical characteristics

Operation:	manual
Tilting angle:	0° and 90°
Balancer:	pneumatic,
	max. balancable
	torque 300 Nm,
	compressed air 0 to 10 bar
	(range of adjustment)
Indexing:	hydromechanical,
	operation with foot pedal
	indexing positions 0° / 90°
	positioning precision < ±1°
Weight:	Tilting module 39 kg
	Operation unit 4 kg

Maximum admissible load



Maximum admissible forces

 $F_{X} = \pm 1,000 \text{ N}$ $F_{y} = \pm 1,000 \text{ N}$ $F_{z} = \pm 1,000 \text{ N}$

Maximum admissible torques

 $\begin{array}{l} M_X \mbox{ or } M_Z = 500 \mbox{ Nm} \\ M_y = 500 \mbox{ Nm} \mbox{ (for the engaged mode)} \\ M_y = 300 \mbox{ Nm} \mbox{ (for the engaged mode)} \end{array}$

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

Balancable torque

The pneumatic balancer can balance torques up to 300 Nm. The torque, which will be balanced, depends on the existing pneumatic pressure that can be adjusted at the pneumatic pressure reducing valve of the balancer. Range of adjustment: 0 up to 10 bar