



PROGRAM SUMMARY

The *modulog* module programme for handling technology

Rotating modules – horizontal axis

Tilting modules

Rotating modules – vertical axis

Lifting modules

Cart modules



























Floor modules





The *modulog* module programme for handling technology

Rotating modules – horizontal axis			
	-	← Range of application DMH 200 →	
Tilting modules			
	-	← Range of application KMB 100 →	
Rotating modules – vertical axis			
	-	← Range of application DMV 1000 →	
Lifting modules	Basic	Range	Shop-Floor
	100 kg 200 to 600 mm stroke Data sheet M 4.101	200 kg 340 to 940 mm stroke Data sheet M 4.201	200 kg 200 to 600 mm stroke Data sheet M 4.301
Cart modules			
	← Range of application WMS 200 →	-	200 kg Data sheet M 5.101
Floor modules			
	-	-	← Range of application FMS 600 → ← Range of application FMD 800 →

<p>DMH 200</p> <p>200 kg    Indexing: 4 x 90°</p> <p>Range of application DMH 200</p> <p>Data sheet M 1.101</p>				
<p>KMB 100</p> <p>100 kg   Load balanced Indexing: 0°/90°</p> <p>Range of application KMB 100</p> <p>Data sheet M 2.101</p>				
<p>DMV 1000</p> <p>1,000 kg   Indexing: 4 x 90°</p> <p>Range of application DMV 1000</p> <p>Data sheet 3.101</p>				
<p>Shop-Floor</p> <p>400 kg    </p> <p>200 to 600 mm stroke Data sheet M 4.301</p>	<p>Shop-Floor</p> <p>600 kg    </p> <p>200 to 600 mm stroke Data sheet M 4.301</p>	<p>Strong</p> <p>600 kg    </p> <p>200 to 400 mm stroke Data sheet M 4.401</p>	<p>Twin-Strong</p> <p>600 kg    </p> <p>200 to 400 mm stroke Data sheet M 4.501</p>	
		<p>WMS 600</p> <p>600 kg </p> <p>Range of application WMS 600</p> <p>Data sheet M 5.101</p>	-	
		<p>FMS 600</p> <p>600 kg </p> <p>for one lifting module Data sheet M 6.101</p>	<p>FMD 800</p> <p>800 kg </p> <p>for two lifting modules Data sheet M 6.201</p>	-



The *modulog* module principle

All modulog modules in the program summary can be used individually, since they are independent functional units. In addition, all modules which are in one column on top of each other can be combined to multi-functional units.

Modules



Rotating module -horizontal axis

The rotating module horizontal axis effects a rotatory movement around the horizontal axis of the workpiece. Rotation of the workpiece is made manually either directly at the workpiece or by means of an operation, for example a hand lever at the rotating module. Indexing of the rotational position is $4 \times 90^\circ$.



Tilting module

The tilting module effects a rotatory, reversible swivel movement around a defined axis between the final positions 0° and 90° . Tilting of a workpiece is made manually, the weight of the workpiece will be balanced. Indexing of the final positions is 0° and 90° .



Rotating module -vertical axis

The rotating module vertical axis effects a rotatory movement around the vertical axis of the workpiece. Rotation of the workpiece is made directly at the workpiece. Indexing of the rotational position is $4 \times 90^\circ$.



Lifting modules

Lifting modules effect a guided, translational movement in the vertical axis. The lifting movement is effected power-supported by a hydraulic or electrical actuator against the weight of the workpiece to be moved. The lowering movement is a defined lowering by use of the weight.



Cart modules

Cart modules offer the possibility to displace manually individual modules or module combinations with workpieces. All cart modules are equipped with a parking brake.



Floor modules

Floor modules compensate unevennesses of the floor place and guarantee a high stability. The offer includes two versions with one or two mounting plates for mounting of other *modulog* modules.

Operations



manual

Modules marked with this symbol are operated by hand. Operation is effected directly at the workpiece or at the assembly fixture.



Hand lever

Operation of the module is made by means of a hand lever acting directly at the cinematics.



Foot pedal

Operation of the module is made hydraulically by pumping at a foot pedal. Defined lowering by lifting the foot pedal.



Hand panel

Operation of the module is made electrically by means of a hand panel touching the buttons "up" and "down". The module is supplied and controlled via a connecting cable by an electrical supply unit. Also the hand panel is connected to the electrical supply unit.



Foot panel

Operation of the module is made electrically by means of a foot panel touching the buttons "up" and "down". The module is supplied and controlled via a connecting cable by an electrical supply unit. Also the foot panel is connected to the electrical supply unit.



Maximum load

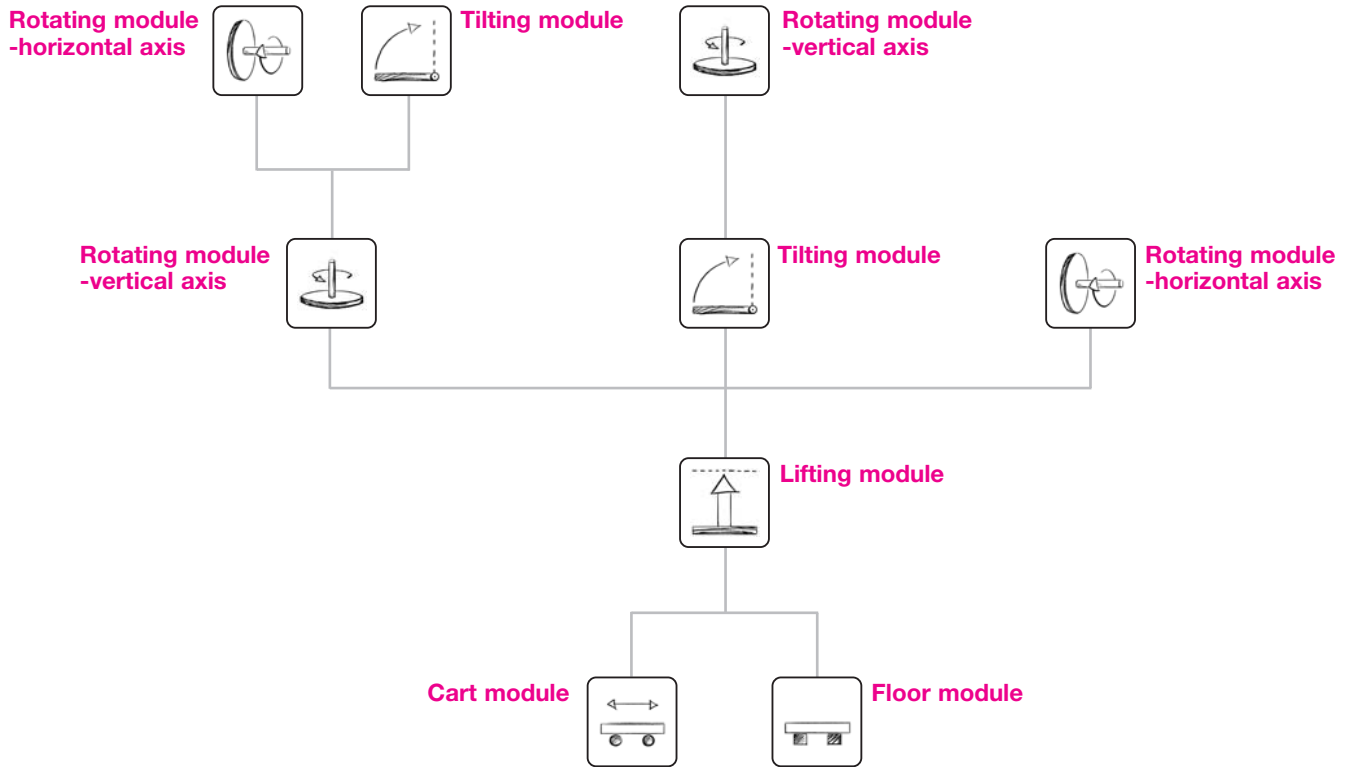
For each module the maximum load is indicated in kg. The load may also be eccentrically, since the modules are in the position to compensate load moments. Information on the exact admissible load moments is indicated on the corresponding data sheets.



Module combinations

modulog modules can be easily combined to built multi-functional units. The individual modules are easily put together – either directly on each other or with adaptor plates which are available as accessories.

Variations of module combinations:



Examples of module combinations



Lifting module Shop-Floor with hand panel and mounted rotating module horizontal axis DMH with hand lever



Cart module WMS with mounted lifting module Shop-Floor and table plate



Lifting module Twin-Strong with foot pedal and mounted rotating module horizontal axis DMH with hand lever

Assembly and handling technology

Handling technology

Assembly tables

Press technique



Linear actuator technology

Hydroactuators

Electroactuators



Hydraulic cylinders for linear motions of every type

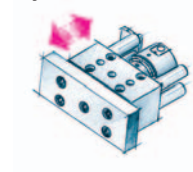
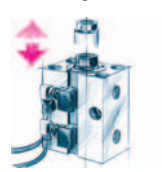
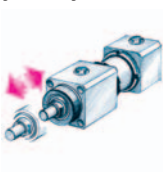
Hydro-cylinders

Universal cylinders

Threaded-body cylinders

Block cylinders

Hydraulic slides



Hydraulic clamping elements for clamping of workpieces

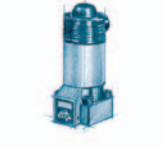
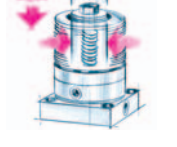
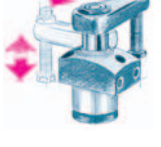
Clamping claws /
Clamping cylinders

Swing clamps

Work supports

Hydraulic valves

Elements for
oil supply



**Clamping and industrial power units
Hydraulic power units**

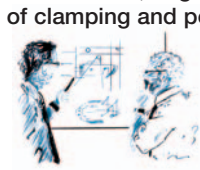
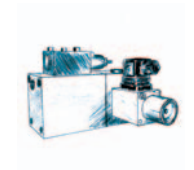
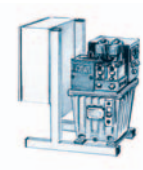
Power units

Intensifiers

Hydraulic pumps

**System solutions
for production engineering**

Consultation, engineering and delivery
of clamping and positioning systems



Römheld GmbH
Friedrichshütte
Römheldstraße 1-5
35321 Laubach
Germany
Tel.: +49 (0) 6405 / 89-0
Fax: +49 (0) 6405 / 89-211
E-mail: info@roemheld.de
www.roemheld.com