

Program summary

Assembly Module Systems for handling technology

Rotating modules

Tilting modules

Lifting modules

Cart modules

Floor modules

Clamping modules





Module Systems

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

Variations of module combinations:

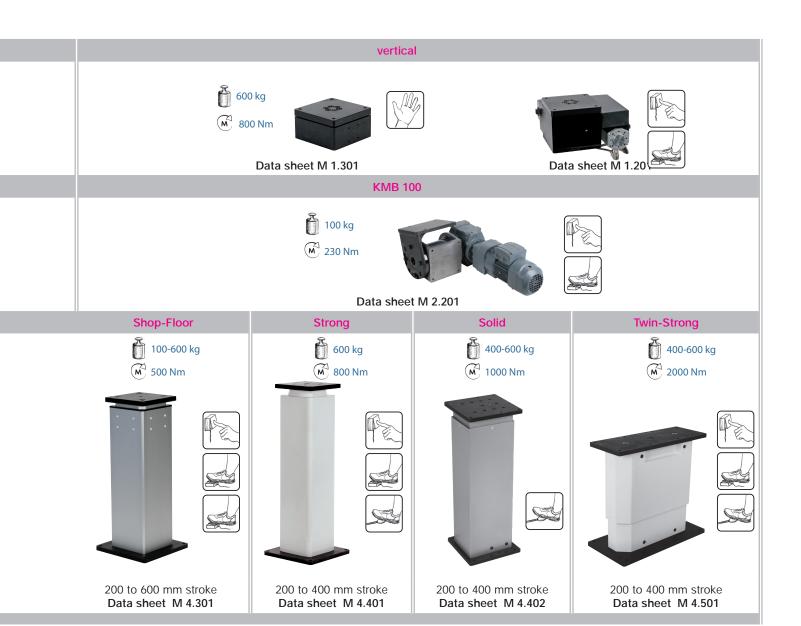


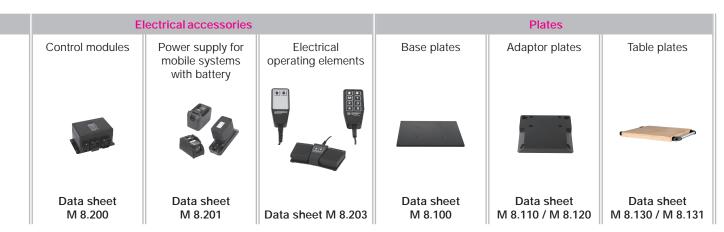


Assembly module systems and products for handling technology











Assembly module products

All assembly modules in the program summary can be used individually, since they are independent functional units.

In addition, all modules can be easily combined to built multi-functional units.

Modules



Rotating modules Rotating modules perform a rotary movement around the horizontal or vertical 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 x 90°.



Tilting modules

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°. Alternatively, models with electric drive are available.



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.



Clamping modules

Clamping modules are used for positioning, fixing and clamping of the workpieces.

Thus, the fitter can exert forces on the workpiece without displacing it.

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.



Pedal

Operation of the module is made hydraulically by pumping on 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 a control module.

Also, the hand panel is connected to the control module.



Foot switch

Operation of the module is made electrically by means of a foot switch touching the buttons "up" or "down". The module is supplied and controlled via a connecting cable by a control module.

Also, the foot switch is connected to the control module.



Maximum load

For each module the maximum load is indicated in kg. This load may also be eccentrically, since the modules are in the position to compensate load moments.



Maximum bending moment

The maximum admissible bending torque in Nm is indicated for each module.

Information on the exact admissible load moments is indicated on the corresponding data sheets. As a rule, the load limits and the potential combinations of modules are determined by the maximum

occurring torques.



Ergonomic Assembly - good for people and processes

Particularly in the manual assembly of heavy workpieces, ergonomics plays an important role. With the use of assembly modules, heavy components can be moved without any effort to the desired mounting position and assembled under optimum ergonomic conditions. This benefits employees and assembly processes:

- Higher performance by reducing the physical strain
- Reduction of fatigue
- Conservation of performance in old age
- Reduction of occupational diseases and downtime
- Increased satisfaction and well-being
- Reduction of assembly times
- Increased flexibility and throughput
- Compliance with the regulations:

 Maximum loads of 15 kg may be moved in recurring activities without support.





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