isel Germany

FlatCom® M

The versatile one

- for milling, dispensing, measuring, and testing
- unbeatable price-performance ratio
- entry into the rack machine
- available in four sizes

Fig. FlatCom® M 40-LES with optional equipment: milling spindle with suction

FlatCom® M | The versatile one

The FlatCom ® M series is used for milling as well as for dispensing applications. All linear axes run on ground steel shafts equipped with linear ball bearings. Ball screws adjusted without clearance are used as drives. Powerful brushless servomotors in service-friendly drive modules drive the linear axes. Thanks to the own servocontrol by isel, equipped with track function (look ahead), a solution can be found for a wide range of customer requirements.

Features

- closed hood
- portal passage of 250mm (optional 350mm)
- prepared for digital and analog I/O modules
- powerful isel control with maintenance-free servomotors
- peliable LES units with steel ball screws installed as drives
- easy to use thanks to the height-adjustable CNC panel
- network-compatible control PC with WINDOWS
- sliding/folding door
- clamping of the workpieces by means of a T-slot plate

Options

- iSA milling spindles and water-cooled HF milling spindles
- round and linear tool changing stations
- cooling spray device
- cold air cooling Cool-Min
- automatic tool length measurement
- mill breakage control
- electronic handwheel
- pneumatic sliding door
- rotation units
- max. 6 interpolating axes + 6 handling axes
- safety light curtain
- hood attachment with increased portal passage
- workpiece clamping systems (vacuum tables, etc.)
- extraction systems
- LED engine room lighting
- PC control panel with free PCI slots (for the use of external PCI hardware)
- interface adjustments
- CAD/CAM software

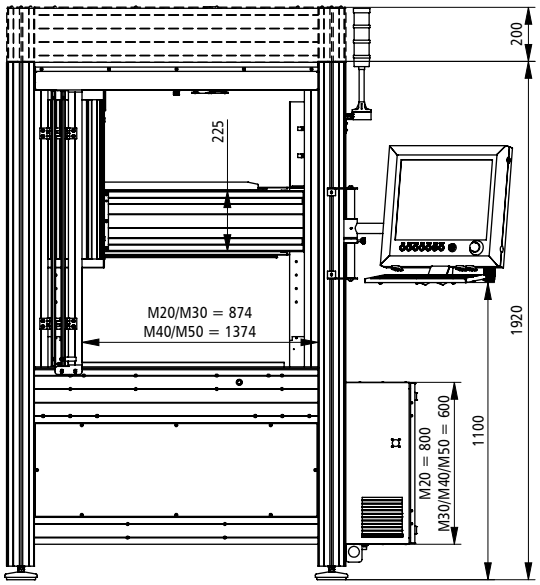
Technical data

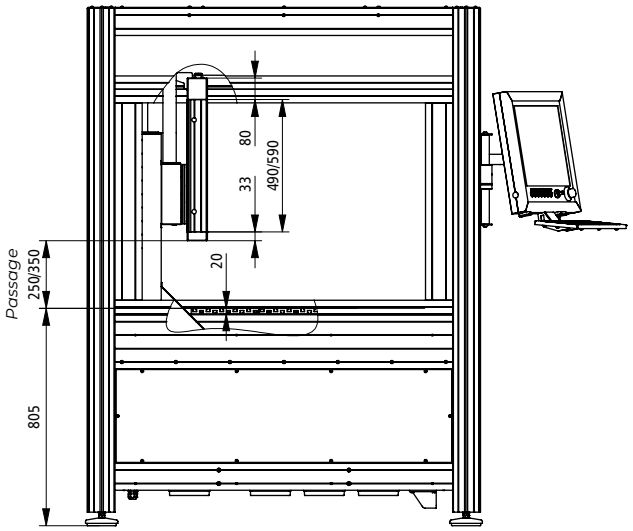
FlatCom®	M20-LES	M30-LES	M40-LES	M50-LES
Travel ranges X/Y [mm]	710/500	710/750	1210/750	1210/1250
Z stroke [mm]*	210 (optional 310, each without processing unit)			
Z passage [mm]*	250 (optionally 350, each without processing unit)			
Table clamping area WxD [mm]	800 x 750	800 x 1000	1300 x 1000	1300 x 1500
Dimensions WxDxH [mm]	1275 x 1175 x 1920	1275 x 1475 x 1920	1775 x 1475 x 1920	1775 x 1975 x 1920
Equipped with control cabinet & open doors	1522 x 1583 x 1920	1522 x 2290 x 1920	2022 x 2790 x 1920	2022 x 3290 x 1920
Travel speed X/Y/Z	max. 15 m/min.			
Drive motors	Maintenance-free EC/AC servomotors			
Drive elements X/Y/Z	Ball screw drive, set without clearance			
Control	CAN controller iMD equipped with 3 drive controllers which are expandable to 12 axes (max. 6 interpolated & 6 handling axes), PC, I/O module, safety circuit equipped with standstill monitoring, power supply 48 V / 1000 W			
Operation	Control panel iOP-19 touchscreen equipped with keyboard and touchpad			
Software	WinRemote (optional: ProNC, isy-CAM)			
Weight [kg]	approx. 590	approx. 670	approx. 770	approx. 820
Electrical specifications	230V, 16A		400V, 16A	
Part No. (Z-stroke: 210 mm)	**278000 252443***	**278001 252443***	**278002 252443***	**278003 252443***

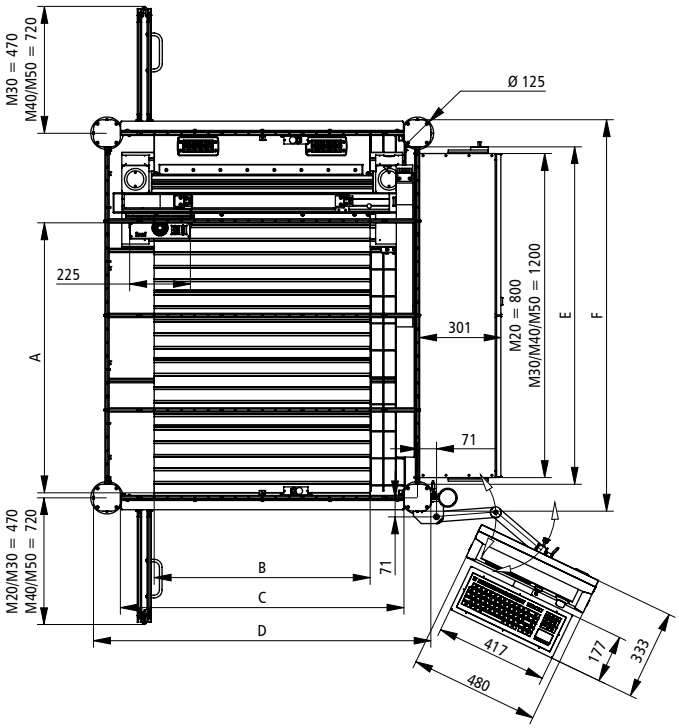
**without installed components on the axes.*

Technical specifications subject to change. Katalog_Systeme

FlatCom® M | Dimensional drawing [dimensions in mm]







FlatCom®M	M 20-LES	M 30-LES	M 40-LES	M 50-LES
A	750 mm	1000 mm	1000 mm	1500 mm
B	800 mm	800 mm	1300 mm	1300 mm
C	1050 mm	1050 mm	1550 mm	1550 mm
D	1250 mm	1250 mm	1750 mm	1750 mm
E	950 mm	1250 mm	1250 mm	1750 mm
F	1150 mm	1450 mm	1450 mm	1950 mm

Technical specifications subject to change. Katalog_Systeme

FlatCom® M | Diversity in a small space

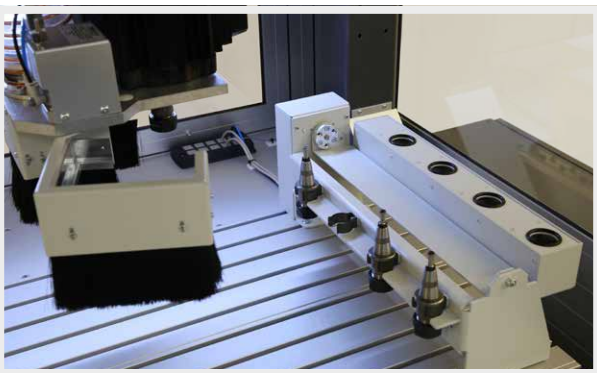
Typical materials

- light and non-ferrous metals
- foam and milled plastics
- wood
- plexiglass
- and many more

Application areas

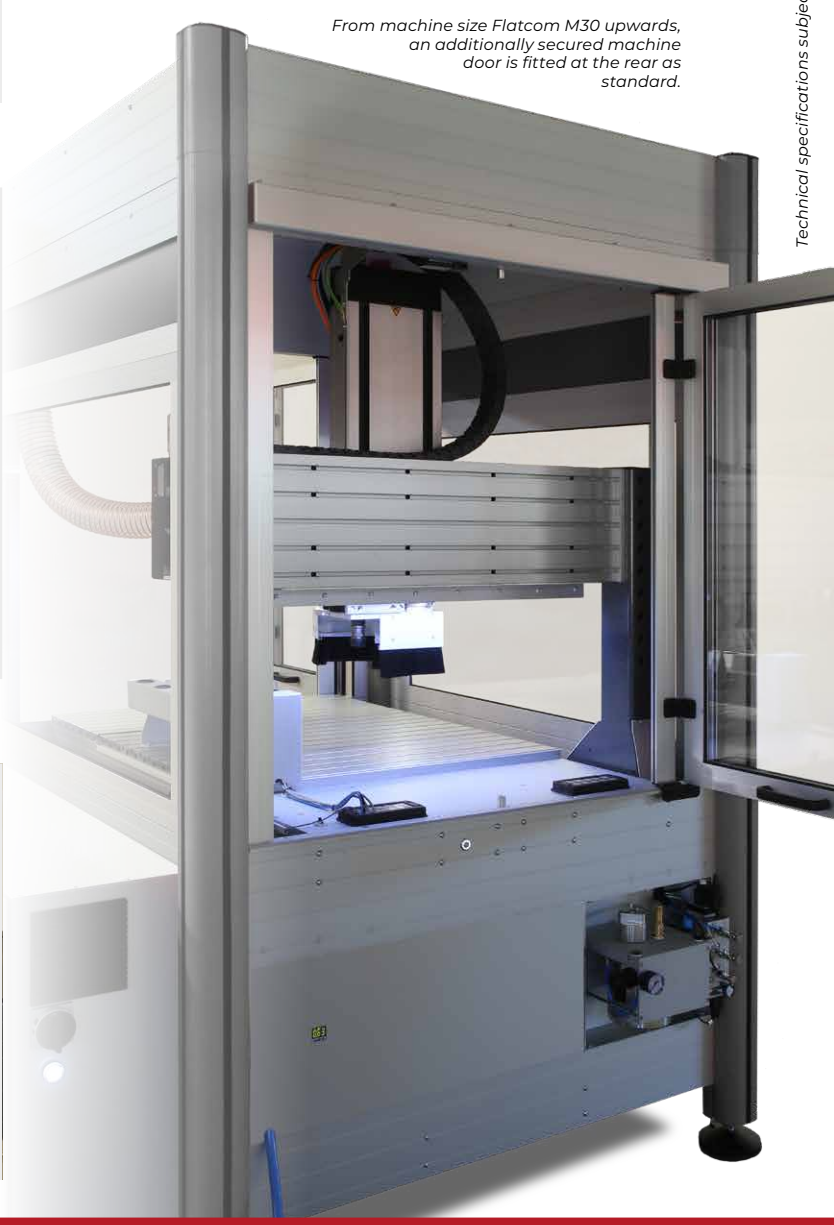
- model and mold making
- advertising technology
- plate processing
- orthopaedic technology
- dispensing applications
- measurement and testing procedures

Option: suction device equipped with suction head



Option: tool changer

From machine size Flatcom M30 upwards, an additionally secured machine door is fitted at the rear as standard.



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