

CNC machine with step controller

MiniMod[®]
Series M / P



Illustration:
MiniMod M/P 20
With protective cover, milling spindle
and rotary unit



Illustration:
MiniMod M/P 60
with milling spindle

General

MiniMod[®]-CNC machines are set-up modular, with high operating comfort for a multitude of automatable tasks at an ideal price/performance ratio.

The basis is a sturdy aluminum steel frame with linear units. The clearance free ball screws used in the linear axes ensure high precision, accuracy and smooth running.

MiniMod[®]-CNC machines are available as compact units in 4 standard sizes with traverse paths of

- X = 300 mm,
- Y = 200 / 400 / 600 / 800 mm,
- Z = 150 mm

in an open design and with a traverse path of Y = 200 mm in a closed design (with protective cover).

The linear units with stepper motors are ideally adjusted to the control and the software. The stepper motor controller of the **MiniMod**[®] with safety circuit is located in the right inductor.

The M series contains the Step Controller iMC-M, the P series the Step Controller iMC-MP. (refer to section "Controls".)

Operation is done from the front with function keys.

For all CNC machines (standard color: grey) extensive accessories and software applications as well as designs with other traverse ranges are available.

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Applications

MiniMod[®]-CNC Machines are the basis for the set-up of machines for:

- Drilling and milling
- Assembling and mounting
- Imprinting and engraving
- Metering and fastening
- Boring and polishing
- Forming and modeling
- Bonding and casting
- Soldering and welding
- Measuring and testing
- Scanning
- ... etc.

Options

For MiniMod[®]-CNC Machines special devices and tools for different requirements and applications are available:

- Drilling and milling spindle
- Frequency converter
- Tool changer
- Cooling/spraying device
- Rotary unit
- T-Groove table milled
- Extraction
- Vacuum clamping plates
- FlatCom

- Protective cover
- CNC Joystick
- I/O Module
- Applications

We are able to design and manufacture for OEM customers, in collaboration, special machines.

Technical Data

	<i>MiniMod</i> M/P 20	<i>MiniMod</i> M/P 40	<i>MiniMod</i> M/P 60	<i>MiniMod</i> M/P 80
Traversing range X/Y/Z (mm)	300 x 200 x 150	300 x 400 x 150	300 x 600 x 150	300 x 800 x 150
Table clamping area WxD (mm)	325 x 500	325 x 700	325 x 900	325 x 1100
Opening (mm)	250			
Dimensions WxDxH (mm)	640 x 500 x 715	640 x 700 x 715	640 x 900 x 715	640 x 1100 x 715
Guides	Linear units with precision steelshafts and ball circulation skid, clearance free adjustable			
Process speed X/Y/Z (mm/s)	50/100			
Repeat accuracy (mm)	≤ 0,02			
Drive motors	Stepper motors			
Drive elements X/Y/Z	Ball screw drive, clearance free adjustable			
Control	Step controller iMC-M with 4 final stages 36V/3,5A and power supply 200W with CPU board, alternatively with clock direction interface module Step controller iMC-M with 4 final stages 48V/4.2A and power supply 500W with CPU board, alternatively with clock direction interface module			
Operation	Function key, Emergency OFF (optional: control panel)			
Software	PAL-PC, Remote, Windows, ProNC, isy-CAD/CAM, Galaad, Win PC-NC, EdiTask, EMC (Linux)			
Weight (kg) *	approx. 90	approx. 95	approx. 100	approx. 105
Item no.: Series M (with iMC-M) *	281010 0001	281010 0002	281010 0003	281010 0004
Item no.: Series P (with iMC-MP) *	281010 0101	281010 0102	281010 0103	281010 0104

* without protective cover

Technical specifications subject to change.