

CNC Machine

with servo controller

MiniMod®
Series V



Figure:
MiniMod V 20
with protective cover, milling spindle
and rotary / swivel unit



Figure:
MiniMod V 60
with milling spindle and rotary
axis RDH-S with tailstock

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 are sturdy aluminum steel frames 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 = 200 mm

in open and closed design with protective cover.

The linear units with DC servo motors (max. 5 axes) are respectively adjusted to the mechanics, control and software.

The controller of the **MiniMod®** with safety circuit and zero speed monitor that is located in the right inductor. Operation is via a control panel with 10" monitor, touchscreen and keyboard.

On the **MiniMod®** the portal area is fixed and the thereon attached workpiece is moved on the machining table.

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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systems

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
- Buring 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
- Rotary / swivel unit
- T-Groove table milled
- Extraction
- Vacuum clamping plates

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

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

Technical specifications

	<i>MiniMod®</i> V 20	<i>MiniMod®</i> V 40	<i>MiniMod®</i> V 60	<i>MiniMod®</i> V 80
Traversing range X/Y/Z (mm)	300 x 200 x 200	300 x 400 x 200	300 x 600 x 200	300 x 800 x 200
Table clamping area WxD (mm)	325 x 500	325 x 700	325 x 900	325 x 1100
Opening (mm)	300			
Dimensions WxDxH (mm)	805 x 500 x 815	805 x 700 x 815	805 x 900 x 815	805 x 1,100 x 815
Guides	Linear units with precision steelshafts and ball circulation skid, clearance free adjustable			
Process speed X/Y/Z (mm/s)	250			
Repeat accuracy (mm)	≤ 0,02			
Drive motors	DC servo motors			
Drive elements X/Y/Z	Ball screw drive, adjustable backlash-free			
Control	CAN controller iMC with 3 drive regulators (max.5) CAN PC (computer with I/O module) safety circuit and zero speed monitoring Power supply 48 V / 500 W			
Operation	CNC control panel, 10" monitor with touchscreen, keyboard, function keys and emergency OFF			
Software	Remote optional: Windows, ProNC, isy-CAD/CAM			
Weight (kg) *	approx. 100	approx. 105	approx. 110	approx. 115
Item no.*	281000 0205	281000 0206	281000 0207	281000 0208

* without protective cover

Technical specifications subject to change.

Updated information available at www.systems.isel.com