



UMC 112

Control unit for PinMark needle embossers and scribes

Control unit for PinMark needle embossers and -scribers in 19' forma

The UMC 112 control unit is used to transfer all types of marking data to the systems of the PinMark series. For example:

- Identification data such as texts and number sequences
- 2D codes (DataMatrix)
- Serial numbers
- Logos, graphics and special characters

Variable data such as date, time, batch numbers, material compositions can be automatically generated by the control unit.

Advantages of the UMC 112 with embedded PC and Linux operating system

- ✔ Compact housing in 19' format
- ✔ Lot of connection options (USB, HDMI, Ethernet, serial interface)
- ✔ No Microsoft Windows™ licence costs
- ✔ User-friendly, intuitive user interface
Customised solutions for individual requirements can be realised (script interface)
- ✔ Maximum stability in everyday industrial use



Technical data control unit **UMC 112**

Computer unit:	Embedded PC with Linux operating system, 500 MHz frequency, 512 MB RAM, serial interface, 4xUSB, network interface, 4xUSB, network HDMI graphics adapter; computer unit in desktop housing (19")
Memory:	MicroSD card for data and operating system
Motor control:	ÖSTLING 2-axis motor electronics, 24V, for controlling 2-phase stepper motors; optional→additional motor electronics for an additional axis (rotation or Z-axis), maximum phase current per axis 2 A
Outputs:	8 digital outputs for standard signals, galvanically isolated, 24 V, total power via integrated power supply maximum 0.5 A
Inputs:	8 digital inputs for standard signals, galvanically isolated
Display:	SVGA colour display (800 x 640 pixels, 65K colours)
Data input:	External standard PC keyboard or mouse (USB connection)
Dimensions (W x D x H):	443 x 400 x 184 (mm) (with cable connected +90mm)
Weight:	9 kg
Electrical system:	Operating voltage: 100 - 240 [V] AC, mains frequency: 50-60 [Hz] Current consumption: max. 3.0 [A]
Temperature range:	0°C – 40°C, non-condensing
Protection class:	IP50, full contact protection, protection against harmful dust inside the housing

Technical data software **UMC 112**

Data management::	Integrated in control unit
Data transfer:	USB, network
Control interface:	RS-232; Ethernet
Marking file:	31 text fields of 50 characters each
Character sets:	Standard: 'litt' (according to DIN1451) additional 15 character sets, (e.g. OCR A and 5x7-DOT)
Character height:	0.5 - 99.9 mm
Character spacing:	0 - 10 mm
Character width:	Character width factor freely selectable from 0.1 to 10
Positioning of the marking field:	By moving directly to the position ('teach-in') or entering the coordinates. Graphic display of all marking data on the display as a preview and visualisation during the marking process, visualisation during the marking process (WYSIWYG: 'what you see is what you get')
Character alignment:	Horizontal, vertical and at any angle, arc-shaped, readable from inside or outside
Additional functions:	0°C - 40°C, non-condensing
Special characters:	Import of HPGL plotter files (*.plt), scaling freely selectable 2D code (data matrix)
Process control:	Plain text display and graphical display of the current function, status signals at digital I/O level