

Technical Specification

Microdot MK3

MK3 components	Marking head, control unit
Marking area x/y	80 x 50 mm 100 x 80 mm 200 x 200 mm
Marking height without Needle assembly group	80 x 50 mm, 263 mm 100 x 80 mm, 235 mm 200 x 200 mm, 235 mm
Marking speed	1 - 200 mm/s
Traversing speed	max. 250 mm/s
Marking head orientation	can be positioned directly
Marking resolution	0,025 mm, in both x and y axis
Character height	up to 0,1 mm free scaling
Marking frequency	max. 100 Hz
Impact pressure	adjustable
Height adjustment of z-axis	+/-3 mm
Air requirements	300 l /min
Working pressure	max. 6 bar
Power supply	115/230 VAC +/-20% 50/60 Hz
Marking head dimensions (WxHxD)	80 x 50 mm: 176, 246, 145 mm 100 x 80 mm: 262, 189, 237 mm 200 x 200 mm: 360, 189, 356 mm
Control unit dimensions (WxHxD)	310 x 100 x 200 mm
Marking head weight	80 x 50 mm: 8,0 kg 100 x 80 mm: 12,3 kg 200 x 200 mm: 15,7 kg
Control unit weight	4,8 kg
Diagnostic system	LED display
Buffer capacity of control unit	200 KB (optional max. 450 KB)
PC Interface	RS 232 C
Graphic options,	Data-processing: HPGL-format with standard programs (CorelDraw, ACAD etc.)

Options

Sound-insulating enclosure	Noise level reduc. approx. 30 dB
Memory module	450 KB
Impact force control. (pressure)	Controlled via control panel
Various marking	For different shapes and material hardness's

Requirements

Minimum PC requirements for MK3 operation	Windows-compatible PC, CD-ROM Drive 12-speed, 1 serial interface, Monitor
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Software Schillmarker

Teach in function

During adjustment needle can be moved in 0.025, 0.5, 1.0, or 5mm Steps to a start position by clicking the PC mouse in an open window. Position can be stored.

Free editable serial numbering tag

Starting value, current value and increments forward, backward are freely adjustable.

The counting tags support an alphanumerical prefix and suffix.

Utilization of leading "zeros" number of digits is adjustable.

Attention to process function i.e. adjustment of maximum quantity plates Global counter.

Freely editable circular marking tag

Width, diameter and angle

Freely editable angle tag

Graphic tag

Import of graphic data's (.PLT files) from all general graphic- and CAD programs

A special feature is the adapted orientation style

Freely editable font height

Editable mask

Context sensitive help function

Auto Start

Load most recently used type plate on start up.

Shift mark

Until for time depending comments with max 15 characters can be programmed.

Scaling of graphic tags

Depending on height or width of graphic tags SM is calculating the changed size automatically.

Rotation of graphic tags

Any graphic tags can be rotated.

Password

After change from working mode to design mode a freely chosen password can be enabled.

Log file

The contents of all tags can be protocolled with date and time in a log file for tracking.

Window-Zoom

With this function a specified area of the plate can be enlarged.

True Type Fonts

All installed True Type Fonts can be marked

Edit of Plotter Fonts

43 different plotter fonts can be marked. Special characters can be integrated in character sets.

Variable curve resolution of True Type fonts

For True Type Fonts interpolation of curves can be adjusted variable.

Hatching of True Type fonts and graphics

Graphic tags and True Type Fonts can be hatched with adjustable line distances and line angles.

Matrixcode

Each tag can be described and marked as a 2-D Data Matrix bar code symbology (ECC 200).

Datatag

„Read in „ of data strings from a host computer. Through this datatag a file (index) with free definable columns and data sentence-hyphen can be processed sequentially. Text tags will be generated in which one column will be transmitted into a data sentence.

With a special PC configuration the transmission and “read in” of data through a serial interface (COM) is also possible.

Hot - keys

The data transmission, start of marking and auto marking can be released by function keys F9, F10 and F12.

Global serial numbering

If option “use global counter” of a serial tag is enable, this tag will use the global count value counting all jobs in increments, out of the .INI file for all counter tags in all .TSD files and will actualize count value.

Optical control function of executed jobs for manual feeding

If option “Cont.->XXX” for a text tag is enable the contents will be replaced against “X” corresponding the quantity of characters after successful marking.

Freely editable automatical date tag (DD.MM.JJJJ, CalendarWeek)

Week day, month, and year are adjustable in all general formats.

Marixcode as dot-code

Each tag can be described and marked as a 2-D Data Matrix bar code symbology (ECC 200). If cell distance remains under 0.25mm a dot will be marked instead of a tag automatically.

Definition of variables

Through assignments inside .INI file variable characters or character sequences (max. 10 characters) can be replaced for example from

AX 230X230X15-4021 in AX 230 x 230 x 15 1 4021.

Rotary function (C-axis)

Cylindrical parts can be marked axial and radial.

Date format

Additional the year can be chosen in one or two digits. Also the date format „day of the year“ (001-366) can be adjusted numerical.

