

Technical Data

MFG JOKER Device				MFG JOKER Functions	
Version	PRO	Multilingualism	Yes	Text field	Yes
Ink flow	Cartridge, intermediate tank, print head, level-dependent	Unlimited fonts	Yes	Counter	Yes
Print module	EPSON Piezo with 2x2 nozzle rows, redundancy	iDesign Software PC/IPC	Yes	Time information	Yes
Print modules	1	iDesign Touch PC/IPC	Yes	Data field	Yes
Production lines	1	Ink consumption calculator	via iDesign	Pre-dating	Yes
Print height mm	1.5-34, cascable up to 136 mm	Free layout design	via iDesign	Logo	Yes
Display	./., optional HMI+ or IPC	max. speed m/Min.	90 m/min at 300 dpi / 150 m/min (Ultimate)	Variables	./., only with HMI+ or external input IPC
Weight Kg	5	Max. resolution - dpi	V:300/600	Action fields	Yes
Protection class	IP 40	Max. horizontal resolution	H: 50-900 dpi	Barcodes	Yes
Ink management	Ink pre-warning, ink empty message	Max. text length in m	2, optional 4 m (Ultimate)	2D-Codes	Yes
Ink	Solvent-based dye ink	Colors	currently black	USB data transfer	Yes
Content	Replaceable ink cartridge with 250 ml content	Distance to product	1-5 mm without contact with parallel flex bracket		
Device-side voltage	220 V mains plug	System parameters	via iDesign		
Power supply	230 V power supply or (12)24 V directly from the machine	Control	integrated, start/stop, selection of print images (9), print start adjustment, purge function	Operating convenience optional	• HMI+ interactive display with swipe function • IPC with iDesign software
Ethernet	RJ45	Ethernet	Yes	Control SPS/System	Interface protocol
External Sensor	Yes, Sub-D 15-pin 1x	Password protection	./.	PC/IPC/laptop control	via iDesign software
Internal sensor	No	Configurable input/output	Yes	Operating extension opt.	HMI+, IPC
Rotary encoder	Yes, Sub-D 15 Pole 1x	DB-Print	Yes		
Status/alarm outputs	Yes, Sub-D 15 Pole 4x	DB-Remote	Yes	Universal software opt.	Codesoft, Nicelabel, ZPL
Potential-free outputs	No			ERP connection opt.	Remote function, FileDrop
Inputs	Yes, Sub-D 15 Pole 4x				
USB A for stick	Yes			Variants	universal
USB-Interface	./.	**: Barcode recommendat.	300 dpi H-Solution		Top and side printing
EIA 232	Yes, Sub-D 15 Pole				
Dimensions HxWxD	See drawings				
Structure	Ink system and print head separated (2 components) - connecting hose 1 m)	Electrical data	90-240 VAC/50-60 Hz Power consumption max. 150 W/1.7 A Standby power 5 W	Temperature	10°C - 40°C
Installation	Print head can be installed from above and from the side, no model differences. Pay attention to the mechanical positioning of the print head and ink system (level maintenance)				
				Relative humidity	30 to 85 %



MFG

TECHNIK & SERVICE

Germany:

MFG Technik & Service GmbH
Am Amperkanal 2
85402 Kranzberg
T +49 8166 99340-0
info@mfgservice.de www.
mfgservice.de

Austria:

MFG Technik & Service GmbH
Dr.-Walter-Waizer-Straße 1a
6130 Schwaz
T +43 5242 93027-0
info@mfgservice.at www.
mfgservice.at

ALWAYS A GOOD SIGN.

www.mfgservice.de
www.mfgservice.at

HI-RES SYSTEMS

MFG Joker

2D-Code-Ready



- Solvent ink - ideal for all surfaces
- Direct printing without labels
- Ideal for 2D printing



MFG

TECHNIK & SERVICE

Perfect Coding

The JOKER industrial inkjet printer marks at lightning speed and with high resolution. The intermediate tank and double nozzle channels make it process-safe. The JOKER is suitable for a wide range of applications. Especially for direct labelling on secondary packaging and in the logistics sector. The JOKER replaces expensive and environmentally critical labels with direct printing, virtually regardless of the surface.

Unschlagbare Vorteile



Lightning Fast

With print speeds of up to 90 m / min - optionally up to 150 m/min at 300 dpi, the JOKER applies plain text information, codes and graphics to variable surfaces at an above-average speed.



High-resolution

With a resolution of up to 600 dpi, the JOKER is ideal for fonts from 1.5 mm, fine graphics and logos. Specific adjustments to the waveforms enable greyscale printing.



Print height up to 34 millimetres

A continuous print height of 34 mm is ideal for barcodes and 2D codes. Large character applications with a print height of up to 136 mm are possible by cascading.



Integrated redundancy

The JOKER has two separate rows of nozzles for integrated redundancy, so that nozzle failure does not affect the print image and reliable automated reading of the print information is guaranteed.



Large ink supply

The JOKER has a large ink supply thanks to the 250 ml cartridge. This enables uninterrupted printing when changing ink cartridges through the intermediate tank.



Solvent ink

The JOKER prints directly on absorbent and non-absorbent materials using a dye-soluble solvent ink. The ink is quick-drying. This prevents smearing of the printed image.



Simple and cost-saving commissioning

The JOKER is a plug & play system that can be commissioned quickly without lengthy venting. Easy parameterisation via the printer software or the optional operating panel (HMI+) completes the installation without any complications.

The Highlight: solvent ink

Coding on absorbent and non-absorbent surfaces

Solvent ink revolutionises printing technology. The JOKER is able to print precisely on smooth, non-absorbent surfaces as well as on absorbent surfaces. This ink is characterised by a particularly long decap time (open time). Drying out of the print head is virtually impossible. This enables continuous, reliable performance and minimises downtime. Compared to conventional inks, solvent ink offers better adhesion and durability on a variety of surfaces, including plastics, metals, glass and coated materials. The print quality can also be adapted to requirements via the parameterisation of wave forms. This is a major advantage, particularly when coding greyscale and barcodes.



Innovative Operation

Modern operating plus for the operator on site at the production line. Various information about the print job can be visualised via the swipe interface. New print jobs are selected here and variables are entered. It is possible to see at a glance whether the printing system is currently working, the ink level of the cartridges and the printing speed. Editing print parameters and changing print jobs is easier and more innovative directly on the display.

- 7" high-resolution colour display with capacitive touch surface
- Sufficiently protected against dust and dripping water with IP52
- Compact, robust system for easy integration into the production line (200 x 132 x 27)
- No limitation of print images when using the HMI+
- Hot-plugging function - HMI+ can be removed during operation and used on other lines
- The HMI+ starts automatically with the connected printing system
- Expansion of the interfaces by duplicating the Sub-D 15 printer interface
- Can be used universally for all MFG X1 printing systems (with activated HMI functionality)



We will be happy to advise you free of charge and without obligation.

Simply fill out the form at www.mfgservice.group/hi-res-systeme/joker