

MARKOPRINT X1JET MX 100

Compact and efficient large character printer for prints up to 100 mm high

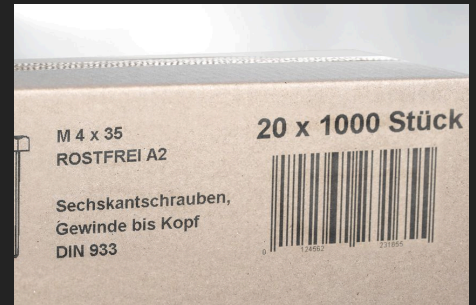
- + Three versions for different installation scenarios
- + Print resolution up to 192 dpi
- + Achieves print speeds of up to 90 m/min
- + Simple installation, operation and maintenance
- + Ideal for large lettering on absorbent surfaces, e.g. carton



THE UNCOMPLICATED INTRODUCTION TO LARGE CHARACTER PRINTING

The Markoprint X1JET MX 100 has a printhead for print heights of up to 100 mm. It prints with high contrast and precision on flat, absorbent surfaces, such as carton. The piezo inkjet printer realises the large character printing required in many industries without offset and prints high-resolution text, 1D barcodes, 2D codes and graphics. This makes it ideal as a labeling alternative. On request, the Markoprint X1JET MX can also print very small, with a minimum print height of three millimetres.

The compact and cost-effective system is particularly suitable for the food, chemical and building materials industries. It impresses with its simple integration into packaging systems and conveyor lines for printing from the side or from above.



APPLICATIONS



MARKOPRINT X1JET MX 100

SPECIAL FEATURES



AVAILABLE IN THREE BUILT-IN VERSIONS: COMPACT, VARIO, TOP

The Markoprint X1JET MX is available in three installation versions: Compact, Vario and Top. In the Compact version, the printhead is permanently mounted vertically. With the Vario version, the printhead can be rotated 90° to the left, e.g. when coding on ascending conveyor belts. With the top version, coding is carried out from the top of the outer packaging or the product.



"ALL IN ONE": EASY INSTALLATION AND MAINTENANCE OF THE SYSTEM

The "All in One" design combines the printhead, ink system, cleaning station, control electronics, and power supply in a compact housing, making operation particularly convenient. This well-thought-out construction not only simplifies the commissioning of the system but also the venting of the ink circuit. In addition, it significantly reduces maintenance requirements and ensures long service life as well as safe and reliable operation.



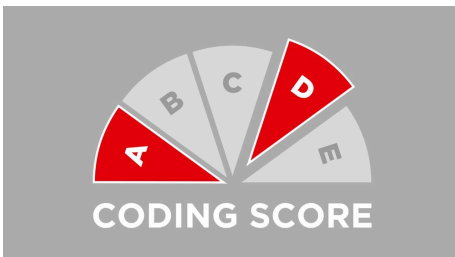
INTUITIVE OPERATION VIA 3 LOGIC KEYS WITH LED INDICATOR LIGHTS

Simple operation via 3 logic keys with LED indicator lights on the top of the housing ensures user-friendly system control. This means that even untrained employees can operate the Markoprint X1JET MX and carry out print jobs safely.



REDUCED SETUP TIMES WITH 500 ML AND 1000 ML INK SUPPLY BOTTLES

The specially developed, oil-based ink in generous 500 ml or 1000 ml containers is perfectly matched to the requirements of various product surfaces. It is suitable for both low-absorbent and absorbent materials, always ensuring a clear and brilliant print image. Thanks to its short drying time, even coated folding cartons or other demanding packaging materials can be printed efficiently, cleanly, and reliably.



CLEAR PERFORMANCE LEVELS FOR FLEXIBLE AND SCALABLE PRINTING SOLUTIONS

The specially developed Coding Score makes it easier to select and configure Markoprint printing systems. The performance levels – PRINT, BASIC, ADVANCED, PRO, and ULTIMATE – are clearly defined, easy to compare, and vary depending on the system. This creates transparency in decision-making and ensures investment security in a marking solution that can be flexibly expanded at any time. New requirements for production, efficiency, or sustainability can be easily integrated, securing consistently powerful and economical processes.

MARKOPRINT X1JET MX 100

TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS

	Print	Basic	Advanced	Pro
Printer type	Piezo Ink Jet (PIJ)			
Supported printing technology	MX			
Print height	3 - 100 mm			
Vertical print resolution up to	192 dpi	192 dpi	192 dpi	192 dpi
Print speed up to	30 m/min	30 m/min	60 m/min	90 m/min
Recommended distance printhead to product	1 mm			
Distance from printhead to product	1 - 4 mm			
Number of printheads up to	1			
Maximum number of production lines	1			
Orientation	From left to right; From right to left			
Function	Top printing; Lateral printing			
Printable content	Text fields; BMP graphics	Text fields; BMP graphics; Time indication; Date field	Barcodes; Text fields; BMP graphics; Counter; Time indication; Date field; Date offset; Input of variables; Fields of action	Barcodes; 2D codes; Text fields; BMP graphics; Counter; Time indication; Date field; Date offset; Input of variables; Fields of action
Barcodes			Code 2 out of 5; Code 39; Code 128; EAN 8; EAN 13; GS1 Databar; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; QR code; more on request; UPC-A; UPC-E
DBPrint	-	-	-	+
PDF direct printing	+			
Fonts	Customized fonts; All Windows fonts			
Software requirements	Processor with at least 1 GHz; Interface for connecting the printing device; PC mouse or touchscreen; DirectX 9 or higher with WDDM 1.0 driver; Min. 30 GB hard disk space; 2 GB for 32-bit or 4 GB for 64-bit; Windows 7, 8, 10			
Interpreter software	integra Command			
Spitting	-			
INK				
Colour	Red; Black ¹			
Composition	Oil formulation			

¹ A maximum of one ink per system can be used.

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HARDWARE

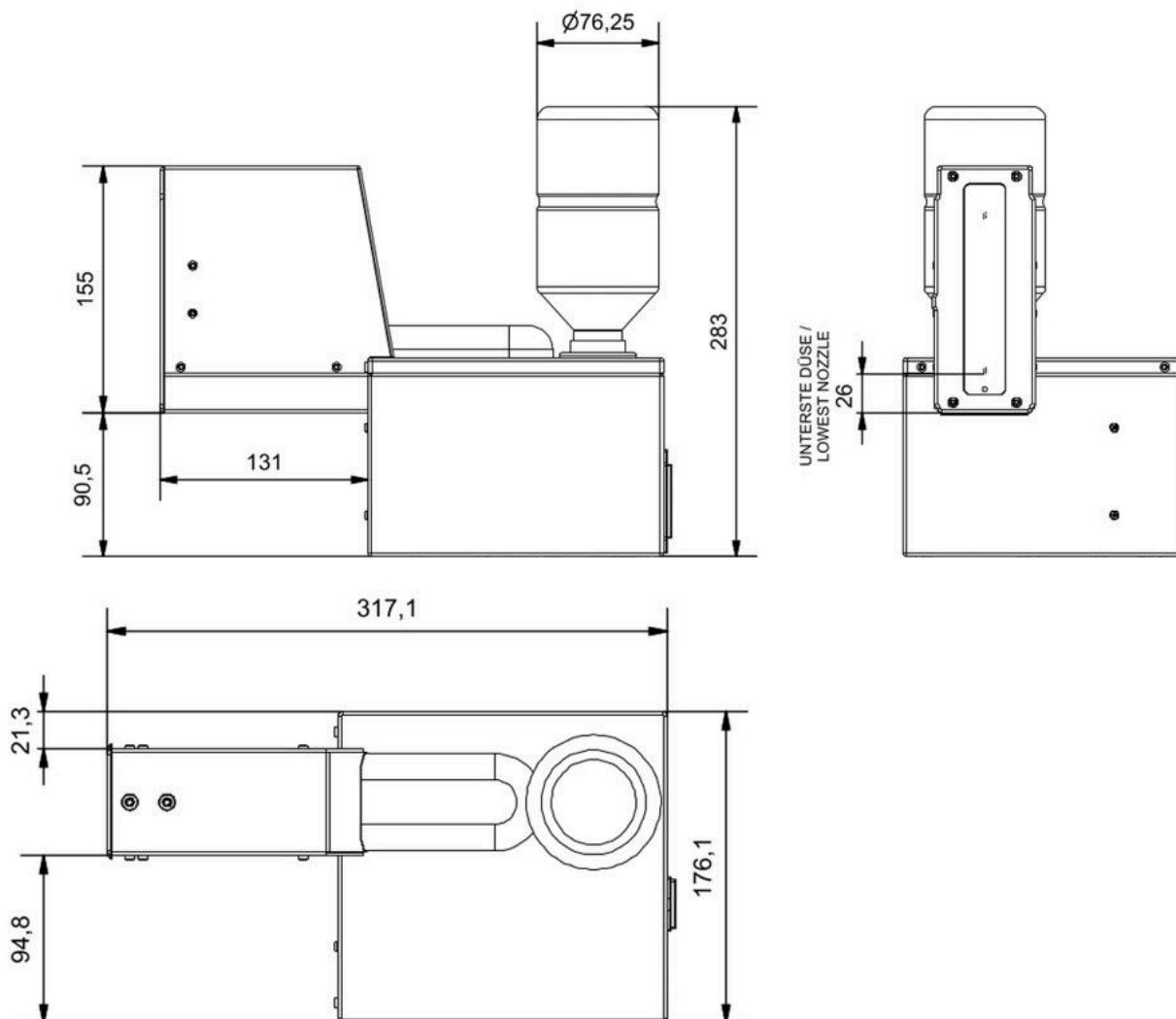
	Print	Basic	Advanced	Pro
Display			no display	
External control panel/display			External Vivid Display; External HMI display	
Password protection	-	-	-	-
Internal sensor			-	
Sensor signal			NPN; Switching threshold 7V	
Shaft encoder signal			Frequency max.150 kHz; Switching threshold 7 V; 24 V voltage; Push-pull or NPN	
Status/ Alarm outputs	4	4	4	4
Flash memory expansion as an option			-	
USB memory stick slot			+	
SD memory card slot			-	
PCMCIA slot			-	
WIFI	-	-	-	-
interfaces			Ethernet (TCP/IP); RS-232; 15-pin SUB-D (connection shaft encoder/sensor/inputs and outputs and optional power supply)	

PHYSICAL ASPECTS

System dimensions (HxWxL)	283 x 177 x 318 mm
Weight	5 kg
IP ingress protection	IP 40
Authorisations	CE
Rel. humidity non-condensing	10 - 90 %
Ambient temperature	5 - 40°C
Supply voltage	90-240 V
Mains frequency	50-60 Hz
Amperage	1.25 A
Power consumption	50 W

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TECHNICAL DRAWINGS



MARKOPRINT X1JET MX 100

ACCESSORIES



INTEGRA VIVID

The 7" high-resolution HMI color touchscreen of integra Vivid provides a visual display of print jobs and the status of X1JET and PP Class printing systems. At a glance, you can see whether the printing system is operating, the cartridge ink levels, and the current print speed. The innovative swipe-based UI makes editing printer settings and changing print jobs directly on the display especially easy. With its IP52 rating, it is protected in dusty production environments and against dripping water.



HMI DISPLAY

The high-resolution OLED display visualizes functions and settings of the Markoprint inkjet printers of the X1JET series. Printer status, parameters, and print images can be checked and adjusted, and data can be entered directly. Start/stop buttons enable simple, intuitive operation and direct triggering of the print job.

Thanks to its compact, rugged design, the system can be integrated into production lines in a space-saving manner—either as a tabletop unit or via wall mounting. It is hot-plug capable and can be connected to other compatible systems during operation. Control is handled via an iLOGIK rotary knob; for print images with a variable field, the input mask appears automatically.

MARKOPRINT X1JET MX 100



YOUR RELIABLE PARTNER

+ PERSONAL POINT OF CONTACT

Your personal point of contact from our team will listen to you and explain the options.

+ MADE IN GERMANY

With our Made in Germany production, we guarantee quality and availability.

+ APPROPRIATE SOLUTION

We develop the optimal solution for your requirements, independently of technology.

+ SEAMLESS SERVICE

Our comprehensive service network is always on hand to help.

+ REGIONALLY ROOTED, GLOBALLY CONNECTED

As a family-owned company with branches worldwide, customer relations are always our top priority.

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