

MARKOPRINT X1JET LX ULTRA

Compact all-rounder with up to 8 mm print distance to the product and extended print height

- + Up to 8 mm print distance to the product
- + Print height up to 25.4 mm (1 inch), print resolution up to 600 dpi
- + Achieves print speeds of up to 56 m/min
- + Compact design with low space requirement
- + Low maintenance and easy to operate
- + Integrated photo sensor for product detection



GREATER LABELING AND MORE FLEXIBILITY FOR UNEVEN SURFACES

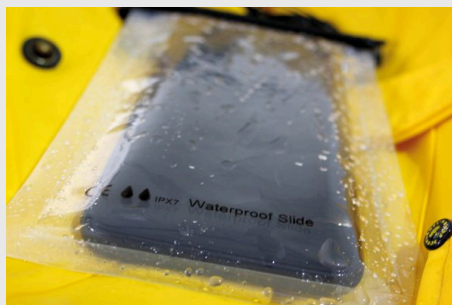
The Markoprint X1JET LX Ultra marks absorbent and smooth surfaces precisely and reliably with a print distance of up to 8 mm, which offers more flexibility on uneven surfaces. The thermal inkjet printer with LX cartridge technology combines a printhead and controller in a robust housing made of anodised aluminium. This makes the printer extremely compact and therefore easy to integrate. The Markoprint X1JET LX Ultra allows maximum planning freedom when space is limited, for integration into existing production systems or when developing new system concepts.

Compared to the X1JET LX, it prints twice as high. Compared to the X1JET HP variants, the X1JET LX Ultra enables longer print distances and the LX inks have longer open times.

The printhead is also part of the ink cartridge. This means that the printhead is also replaced every time the cartridge is changed. This saves maintenance and cleaning work and ensures optimum printing results. The Markoprint X1JET LX Ultra prints text, 1D barcodes, 2D codes and graphics in high resolution and delivers brilliant print results on products and packaging. The labeling is smudge-proof, easy to read and durable.

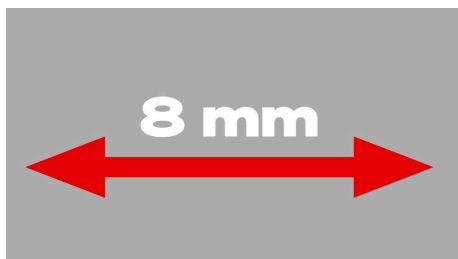


APPLICATIONS



MARKOPRINT X1JET LX ULTRA

SPECIAL FEATURES



UP TO 8 MM PRINT DISTANCE, ACHIEVES PRINT HEIGHTS OF UP TO 25.4 MM

The larger print distance between the printhead and the product provides significantly greater flexibility for marking a wide range of materials and surfaces. Even on uneven structures, print quality remains consistently high without any loss of sharpness or brilliance. This is especially advantageous in industries such as packaging, food, or pharmaceuticals, where reliable, clearly legible markings under varying conditions are essential.



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 LX Ultra and carry out print jobs safely.



LX INKS FOR LONGER OPEN TIME WITHOUT DRYING OUT

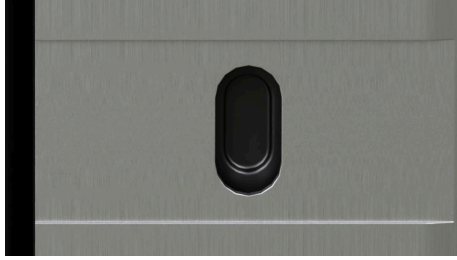
The printing technology of the LX-Class offers the great advantage of a longer open time for ink cartridges without any loss of quality. This means that the cartridge can remain open even during printing breaks of up to several hours without the ink drying out or the nozzles clogging. For even longer printing breaks, the cartridge can be securely closed and protected with a clip.



SMARTCARD TECHNOLOGY

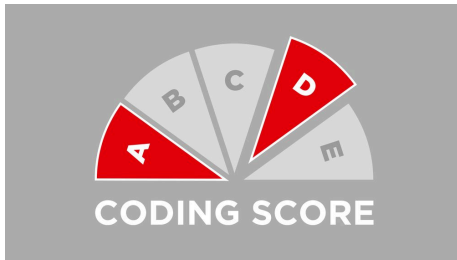
The smart card technology of the ink cartridges ensures consistently good prints. A chip identifies the current ink type and automatically sets the corresponding parameters. There is no need to switch over manually when changing the ink. The ink level is also recorded and displayed in real time. This enables controlled cartridge replacement and prevents unplanned production downtimes. Thanks to the Click'n Print cartridge holder, ink changes are quick and easy.

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INTEGRATED PHOTO SENSOR

The photo sensor precisely detects when a product is in the exact right position to reliably trigger the printing process. This ensures that every label or print is executed with pinpoint accuracy and consistent quality. The sensor continuously monitors the process and plays a key role in maintaining consistently high print quality as well as exact positioning directly on the production line.



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 LX ULTRA

TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS

	Print	Basic	Advanced	Pro
Printer type	Thermal Ink Jet (TIJ)			
Supported printing technology	LX			
Print height	1 - 25,4 mm			
Vertical print resolution up to	300 dpi	300 dpi	600 dpi	600 dpi
Print speed up to	30 m/min	30 m/min	56 m/min	56 m/min
Recommended distance printhead to product	1 mm			
Distance from printhead to product	1 - 8 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	Fields of action; Input of variables; Date offset; Date field; Time indication; Counter; BMP graphics; Text fields; Barcodes	Fields of action; Input of variables; Date offset; Date field; Time indication; Counter; BMP graphics; Text fields; 2D codes; Barcodes
Barcodes			more on request; UPC-E; UPC-A; GS1 Databar; EAN 13; EAN 8; Code 128; Code 39; Code 2 out of 5	more on request; UPC-E; UPC-A; QR code; GS1 Databar; GS1 DataMatrix; EAN 13; EAN 8; DataMatrix; Code 128; Code 39; Code 2 out of 5
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	Black ¹
Composition	Water-based; Solvent-based

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

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HARDWARE

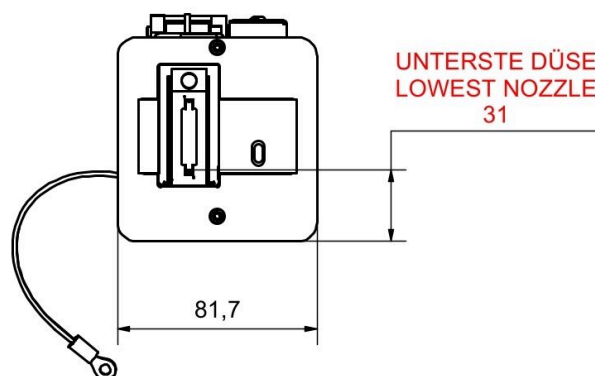
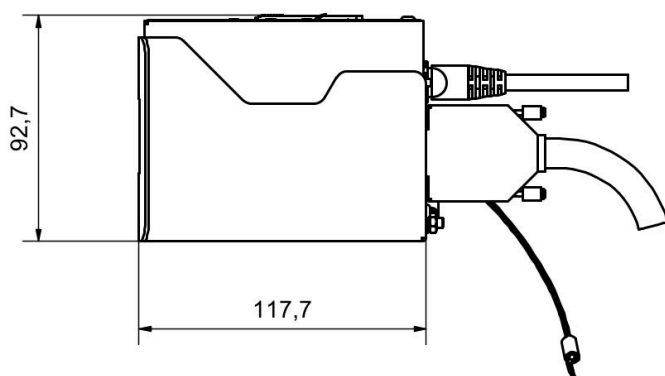
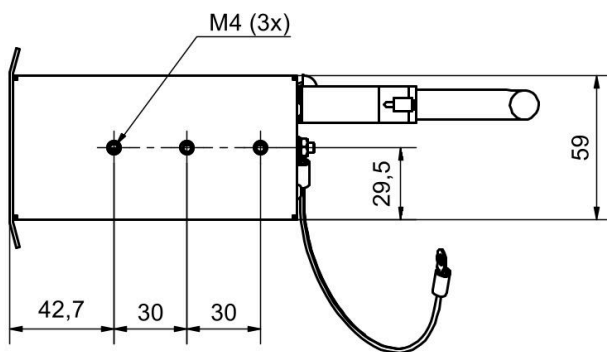
	Print	Basic	Advanced	Pro
Display	no display			
External control panel/display	External Vivid Display			
Password protection	-	-	-	-
Internal sensor	+			
Sensor signal	NPN; Switching threshold 7V			
Shaft encoder signal	Frequency max.150 kHz; Switching threshold 7 V; 24 V voltage; Push-pull or NPN			
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)	93 x 82 x 118 mm
Weight	0.675 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	15 W

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TECHNICAL DRAWINGS



MARKOPRINT X1JET LX ULTRA

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 LX ULTRA



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.

Weber Marking Systems GmbH

Maarweg 33 / 53619 Rheinbreitbach
T +49 (0)2224 77 08 0 / info@webermarking.de
weber-marking.com