

MARKOPRINT INTEGRA PP 108

High-resolution large character printer for print heights up to 108 mm without offset

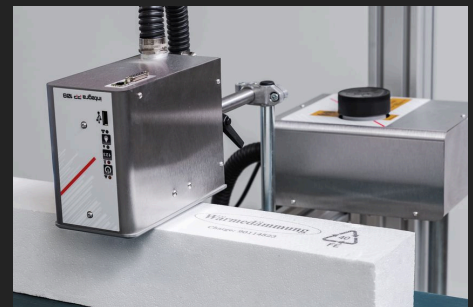
- + Print height up to 108 mm, print resolution up to 360 dpi
- + Achieves print speeds of up to 150 m/min
- + Ideal for absorbent surfaces, e.g. cardboard packaging
- + Internal ink tank with 750 ml ink supply



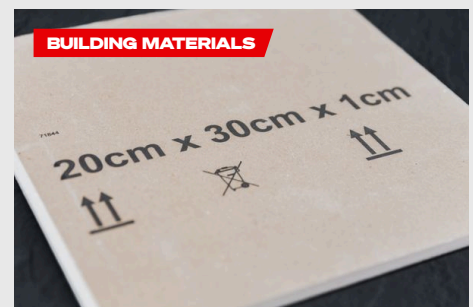
ROBUST LARGE-CHARACTER PRINTER AS AN ALTERNATIVE TO LABELS

The name of the Markoprint integra PP 108 already reveals its maximum print height of 108 mm. 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 integra PP 108 can also print very small, with a minimum print height of one millimetre. The fast text change with more than 50 variable data per second enables product serialisation, which is particularly important for high-speed labeling in the pharmaceutical and cosmetics industries.

With the Markoprint integra Command software included in the scope of delivery, you can easily create and manage your print layouts on your PC. In addition to a practical ink consumption calculator, the software has many other functions to make your work easier.



APPLICATIONS



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SPECIAL FEATURES



FLEXIBLE AND COMPACT DESIGN FACILITATES INTEGRATION

The ink tank is connected to the printhead with a print tube. The variable length of the pressure hose (0.4 m / 1 m / 3 m) makes it easier to integrate the inkjet system into production, which is particularly helpful in tight spaces. In addition, the ink tank can be positioned above, below or at the same height as the printhead, regardless of its height, which creates a great deal of flexibility when integrating it into new or existing processes.



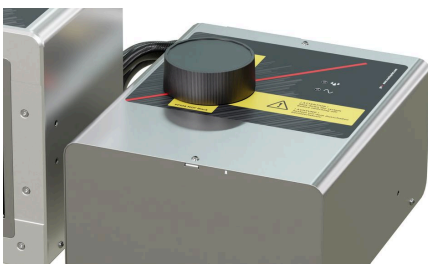
RECIRCULATING INK SYSTEM ENSURES SIMPLE VENTING

The printer starts circulating the ink automatically at start-up. This removes any air that may be in the print tube or printhead. The feed and return pumps prevent air from collecting in the printhead during operation and keep the nozzles clear. This guarantees a clean and sharp print image.



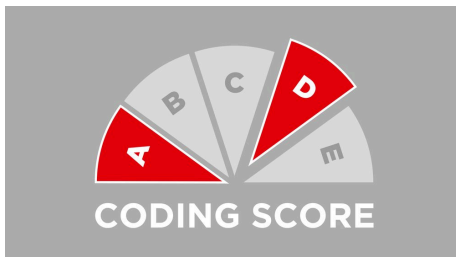
A VARIETY OF INKS FOR EVERY APPLICATION

Various ink colours (black, red, blue and green) are available for printing on absorbent surfaces. A pigmented, mineral oil-free ink (MOF, Mineral Oil Free) is also available, which is suitable for printing on absorbent surfaces in the food industry. Non-absorbent surfaces can be printed with UV ink. It hardens under UV light within a short time and provides an abrasion-resistant print result, for example on painted surfaces.



750 ML INK SUPPLY

The internal ink tank has a generous capacity of 750 ml, ensuring long operating times without interruption. Thanks to the large volume, frequent refilling of ink is unnecessary, making the entire workflow significantly more efficient. Users benefit from noticeable time savings and reduced maintenance requirements, as printing operations remain smooth and reliable over extended periods.



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.

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TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS

	Print	Basic	Advanced	Pro	Ultimate
Printer type	Piezo Ink Jet (PIJ)				
Supported printing technology	PP				
Print height	1.5 - 108 mm				
Vertical print resolution up to	360 dpi	360 dpi	360 dpi	360 dpi	360 dpi
Print speed up to	30 m/min	30 m/min	60 m/min	90 m/min	150 m/min
Recommended distance printhead to product	1 mm				
Distance from printhead to product	1 - 3 mm				
Number of printheads up to	1				
Maximum number of production lines	1				
Orientation	From right to left; From left to right				
Function	Lateral printing; Top 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; 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; more on request; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; QR code; UPC-A; UPC-E; more on request
DBPrint	-	-	-	+	+
PDF direct printing	+				
Fonts	All Windows fonts; Customized fonts				
Software requirements	Windows 7, 8, 10; 2 GB for 32-bit or 4 GB for 64-bit; Min. 30 GB hard disk space; DirectX 9 or higher with WDDM 1.0 driver; PC mouse or touchscreen; Interface for connecting the printing device; Processor with at least 1 GHz				
Interpreter software	integra Command				
Spitting	-				

INK

Colour	Blue; Green; 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	Ultimate
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	Push-pull or NPN; 24 V voltage; Switching threshold 7 V; Frequency max.150 kHz				
Status/ Alarm outputs	4	4	4	4	4
Flash memory expansion as an option	-				
USB memory stick slot	+				
SD memory card slot	-				
PCMCIA slot	-				
WIFI	-	-	-	-	-
interfaces	15-pin SUB-D (connection shaft encoder/sensor/inputs and outputs and optional power supply); Ethernet (TCP/IP); RS-232				

PHYSICAL ASPECTS

System dimensions (HxWxL)	110 x 197 x 236 mm
Printhead dimensions (HxWxL)	188 x 99 x 146 mm
Hose length min.	0.4 m
Hose length max.	3 m
Weight	6 kg
IP ingress protection	IP 40
Authorisations	CE
Rel. humidity non-condensing	30 - 85 %
Ambient temperature	10 - 40°C
Supply voltage	90-240 V
Mains frequency	50-60 Hz
Amperage	1.7 A
Power consumption	150 W

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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 INTEGRA PP 108



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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