

MARKOPRINT INTEGRA PP RAZR

High-resolution inkjet printer with features for high process reliability

- + Print height up to 34 mm, print resolution up to 600 dpi
- + Two separately controllable nozzle channels ensure redundancy
- + Cartridge change possible during ongoing production
- + Achieves print speeds of up to 150 m/min
- + For absorbent and non-absorbent surfaces
- + Possibility to cascade up to 4 printheads



HIGH-PERFORMANCE ALL-ROUNDER AS A LABELING ALTERNATIVE

The Markoprint integra PP RAZR inkjet printer delivers particularly high-resolution labeling at 600 dpi. The piezo inkjet printer uses solvent inks that can be used for high-contrast labeling of both absorbent materials such as carton and non-absorbent, smooth surfaces such as metal and plastic. Two features ensure continuous production: cartridges can be changed without stopping and two separately controllable nozzle channels ensure redundancy.

The maximum print height of the printhead is 34 mm. As up to four printheads can be cascaded, the device can realise large character printing with a height of up to 136 mm, making it a real label alternative in logistics labeling, for example. However, small font heights of just 1.5 mm are also possible. The Markoprint integra PP RAZR prints text, 1D barcodes, 2D codes and graphics with sharp edges on products and packaging. It can print in different shades of grey on request. This is ensured by different adjustable waveforms. Incidentally, the Markoprint integra PP RAZR has an environmentally friendly permanent printhead that does not need to be replaced.



APPLICATIONS



MARKOPRINT INTEGRA PP RAZR

SPECIAL FEATURES



250 ML INKS WITH RFID TECHNOLOGY

Using RFID chips mounted on the cartridges, the printer immediately recognises the respective ink type, automatically sets all the corresponding printing parameters and ensures that the correct inks are used. The RFID technology also makes it possible to check the ink level in real time so that the cartridge can be replaced in good time.



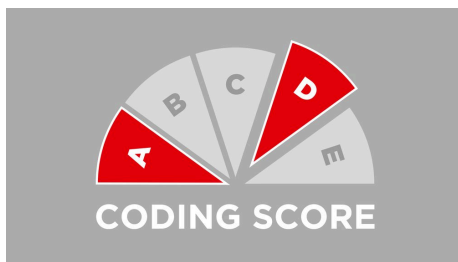
INTERMEDIATE TANK

The integrated intermediate tank ensures that a cartridge can be changed even during ongoing production without interrupting operation. This keeps the printing process stable and reliable at all times, with no downtime. This solution significantly increases productivity since the change is quick and simple. At the same time, a continuous material flow is guaranteed, improving the overall efficiency of the system.



TWO SEPARATE NOZZLE CHANNELS FOR PERFECT PRINTING RESULTS

The Markoprint integra PP RAZR has two separate nozzle channels that can be controlled independently of each other. If nozzles fail, the second channel ensures a consistent, homogeneous print result. The labeling remains clearly legible.



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 - 34 mm				
Vertical print resolution up to	600 dpi	600 dpi	600 dpi	600 dpi	600 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 - 5 mm				
Number of printheads up to	1				
Maximum number of production lines	1				
Orientation	From left to right; From right to left				
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; Input of variables; Fields of action	Barcodes; Text fields; BMP graphics; Counter; Time indication; Date field; Date offset; Input of variables; Fields of action; 2D codes	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; UPC-A; UPC-E; GS1 Databar	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; QR code; UPC-A; UPC-E; more on request	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; QR code; UPC-A; UPC-E; more on request
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	Solvent-based

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

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HARDWARE

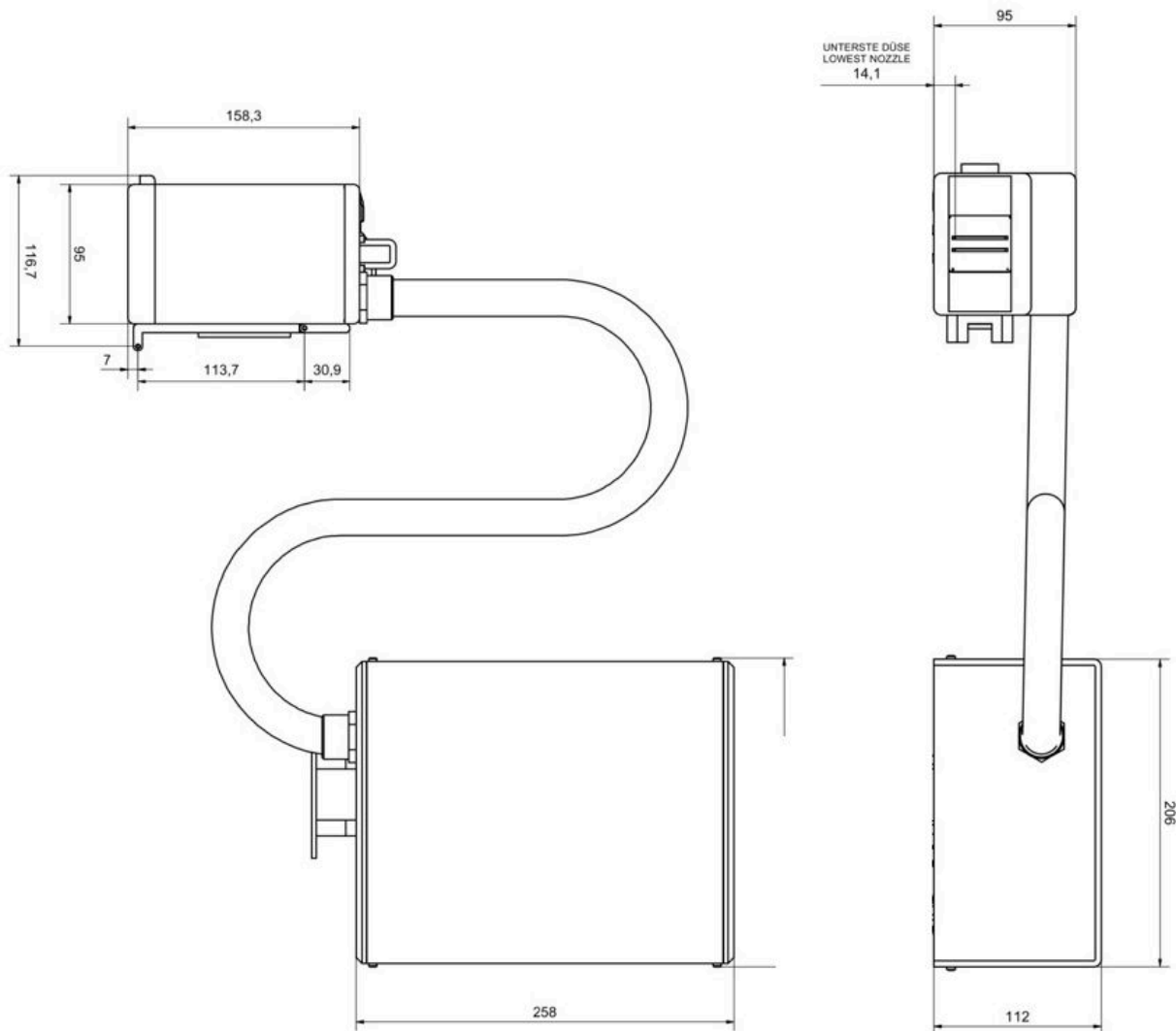
	Print	Basic	Advanced	Pro	Ultimate
Display	no display				
External control panel/display	External Vivid Display				
Password protection	-	-	-	-	+
Internal sensor	-				
Sensor signal	NPN; Switching threshold 7V				
Shaft encoder signal	Frequency max.150 kHz; Switching threshold 7 V; 24 V voltage; Push-pull or NPN				
Status/ Alarm outputs	4	4	4	4	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)	112 x 206 x 258 mm
Printhead dimensions (HxWxL)	95 x 117 x 159 mm
Hose length min.	0.6 m
Hose length max.	1.5 m
Weight	5 kg
IP ingress protection	IP 40
Authorisations	CE
Rel. humidity non-condensing	30 - 85 %
Ambient temperature	5 - 40°C
Supply voltage	90-240 V
Mains frequency	50-60 Hz
Amperage	1.7 A
Power consumption	150 W

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TECHNICAL DRAWINGS



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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.

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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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