

MARKOPRINT INTEGRA COREFLEX

Flexible universal controller with intuitive touchscreen

- + Control of up to four print heads
- + Enables simultaneous operation on two production lines
- + Touch display and full keyboard
- + Multi-channel technology for different printing technologies



DESIGNED FOR MAXIMUM USER CONVENIENCE

The high-performance Markoprint integra Coreflex controller combines ease of use with maximum flexibility and is the improved successor to the proven Markoprint X2JET and X4JET systems. With its clear user interface including touch display and full keyboard, all system parameters of your inkjet printers can be easily entered, saved, and recalled when needed. The integra Coreflex can be used as a desktop or wall-mounted device, but can also be installed directly on the production line.

The control system supports different inkjet technologies simultaneously or alternately and allows the operation of a wide variety of print heads. Whether variable font sizes, double-sided printing on two independent production lines, coding of primary packaging with 2D codes and best-before dates, or marking of secondary packaging with large logos and quality seals – the Coreflex masters every challenge reliably and efficiently.

For everyone who values compactness and cost efficiency: the Coreflex is a customizable and flexible solution for industries such as food, chemical, building materials, and pharmaceuticals.

APPLICATIONS



MARKOPRINT INTEGRA COREFLEX

SPECIAL FEATURES



CREATE, EDIT, AND START PRINT IMAGES DIRECTLY ON THE DEVICE

The integra Coreflex allows the creation, editing, and execution of print jobs directly on the device thanks to its integrated print image design function. This enables it to operate as a fully independent system ("stand-alone"). Additional software such as integra Command is not required for designing or modifying print images.



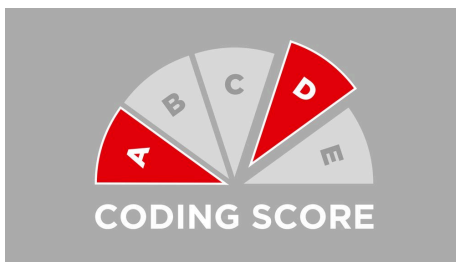
RESISTIVE, ROBUST TOUCHSCREEN

The 5.7" high-resolution resistive touch display is pressure-sensitive and can therefore be easily operated with gloves or a stylus. This makes the display ideal for industrial use, where precise control is required under various conditions and maximum user-friendliness must be ensured.



MULTI-CHANNEL TECHNOLOGY FOR DIFFERENT PRINTING TECHNOLOGIES

One channel can be equipped with up to four printheads of the same technology. Alternatively, two channels can each be configured with up to two printheads of different technologies. This allows flexible printing solutions, such as double-sided printing of products within a single production line. In addition, the print controller can be used in parallel on two independent production lines.



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 INTEGRA COREFLEX

TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS

	HP (Advanced)	HP (Pro)	LX (Advanced)	LX (Pro)	XR (Advanced)	XR (Pro)	MX50 (Advanced)	MX50 (Pro)	MX100 (Advanced)	MX100 (Pro)
Printer type	Thermal Ink Jet (TIJ); Piezo Ink Jet (PIJ)									
Supported printing technology	XR; HP; LX; MX									
Print height	1 - 50 mm ¹	1 - 50 mm ¹	1 - 50 mm ¹	1 - 50 mm ¹	2 - 284 mm ¹	2 - 284 mm ¹	3 - 200 mm ¹	3 - 200 mm ¹	3 - 400 mm ¹	3 - 400 mm ¹
Vertical print resolution up to	600 dpi	600 dpi	600 dpi	600 dpi	180 dpi	180 dpi	64 dpi	64 dpi	192 dpi	192 dpi
Print speed up to	90 m/min	180 m/min	90 m/min	240 m/min	60 m/min	60 m/min	60 m/min	60 m/min	60 m/min	60 m/min
Recommended distance printhead to product	1 mm									
Distance from printhead to product	1 - 4 mm	1 - 4 mm	1 - 4 mm	1 - 4 mm	1 - 3 mm	1 - 3 mm	1 - 4 mm	1 - 4 mm	1 - 4 mm	1 - 4 mm
Number of printheads up to	4									
Maximum number of production lines	2									
Orientation	From left to right; From right to left									
Function	Top printing; Lateral printing									
Printable content	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; 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; 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; 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; 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; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E	Code 2 out of 5; Code 39; Code 128; DataMatrix; EAN 8; EAN 13; GS1 DataMatrix; GS1 Databar; GS1 QR Code; QR code; UPC-A; UPC-E
DBPrint	-	+	-	+	-	+	-	+	-	+
PDF direct printing	+									
Fonts	All Windows fonts; Customized 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	+	+	+	+	-	-	-	-	-	-

¹ With four connected printheads

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INK

Colour	Blue; Yellow; Green; White; Red; Black; UV-visible; UV-curing ¹
Composition	Solvent-based; Oil formulation; Water-based
¹ Only one ink can be used at a time per connected printhead.	

HARDWARE

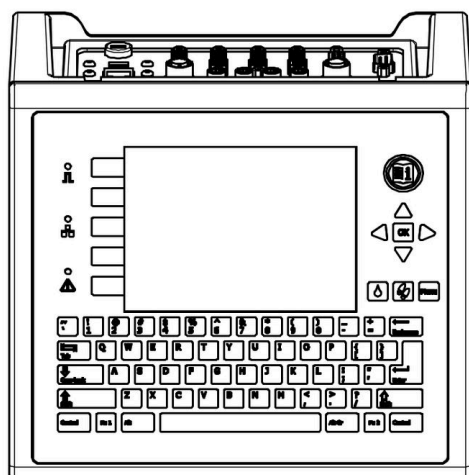
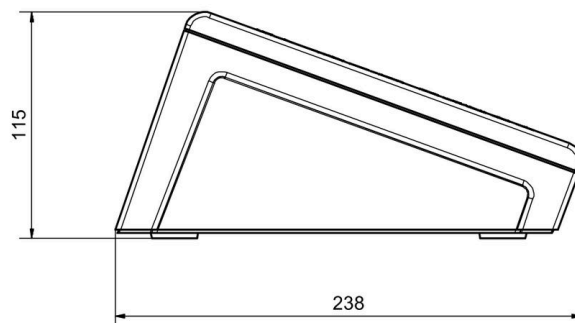
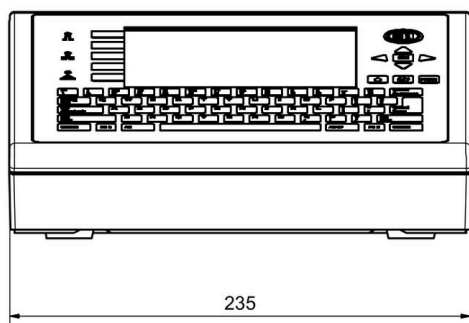
	HP (Advanced)	HP (Pro)	LX (Advanced)	LX (Pro)	XR (Advanced)	XR (Pro)	MX50 (Advanced)	MX50 (Pro)	MX100 (Advanced)	MX100 (Pro)
External control panel/display	integrated display									
Password protection	-	+	-	+	-	+	-	+	-	+
Internal sensor	-									
Sensor signal	NPN									
Shaft encoder signal	Push-pull or NPN; 24 V voltage									
Status/ Alarm outputs	4									
Flash memory expansion as an option	-									
USB memory stick slot	+									
SD memory card slot	-									
PCMCIA slot	-									
WIFI	-									

PHYSICAL ASPECTS

	HP (Advanced)	HP (Pro)	LX (Advanced)	LX (Pro)	XR (Advanced)	XR (Pro)	MX50 (Advanced)	MX50 (Pro)	MX100 (Advanced)	MX100 (Pro)
Amperage	0.5 A; 0.5 A									
System dimensions (HxWxL)	115 x 235 x 238 mm									
Printhead dimensions (HxWxL)	99 x 68 x 194 mm	99 x 68 x 194 mm	84 x 87 x 143 mm	84 x 87 x 143 mm	306 x 187 x 316 mm	306 x 187 x 316 mm	283 x 177 x 318 mm	283 x 177 x 318 mm	283 x 177 x 318 mm	283 x 177 x 318 mm
Print head cable length up to	13 m	13 m	50 m	50 m	50 m	50 m	50 m	50 m	50 m	50 m
Weight	1.6 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									
Power consumption	100 W									

MARKOPRINT INTEGRA COREFLEX

TECHNICAL DRAWINGS



MARKOPRINT INTEGRA COREFLEX

ACCESSORIES



SHUTTER

The self-sealing printhead for HP Class ink cartridges ensures clean print results even after longer idle periods. By automatically closing when production pauses, it prevents dust ingress and ink drying. As soon as a photoelectric sensor detects the line starting up again, it moves the cartridge back into the print position and continues printing at high quality. Thanks to its special design, our Shutter printhead is optimized for pharmaceutical installations.



NONSTOPPRINTING

The NonStopPrinting printhead increases system availability and reduces downtime through uninterrupted printing during ongoing production. Two printheads operate alternately, controlled by an intelligent algorithm that ensures continuous cartridge readiness. While one cartridge is being replaced or cleaned, the second automatically takes over all print jobs—no system stoppage is required. By alternately emptying both cartridges, the range until the next replacement is doubled. Two-color printing with a print height of up to 25 mm is also possible. Using water-based and solvent-based HP and LX Class inks, logos and warning symbols can be applied quickly and contact-free to absorbent and non-absorbent outer packaging.



INTEGRA ULTIMATE

With IP65 protection and print heights of up to 25 mm, the Markoprint integra Ultimate handles demanding marking tasks with ease. The patented printhead with HP cartridge technology cleans itself automatically during operation and seals when idle. The nozzle plate is cleaned every time it is opened and closed, ensuring the printer is immediately ready for use after breaks. Depending on the ink, the open time exceeds 72 hours. The closed housing reliably protects the printhead and cartridge and is ideal for dusty or humid environments. The integra Ultimate prints text, 1D and 2D codes, as well as graphics in high resolution and is also suitable for UV inks on smooth surfaces.

MARKOPRINT INTEGRA COREFLEX



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

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