MX SERIES
PRINT ENGINE



No PC, No PLC, No Problem

Integrating label printers into automated production lines used to require an external PLC (programmable logic controller). With POSTEK's new MX series, the printer is the PLC. With just a few taps on the LCD touchscreen, the whole operation can be up and running in no time, with no prior programming experience needed.

FEATURES



"Wipe-on" label applicator

With a rotary encoder built directly into the MX series, the system manager can easily combine the printer with a customizable peeler and a "wipe-on" brush applicator, turning the MX print engine into a fully integrated "wipe-on" label applicator.

4.5-inch color LCD touchscreen

Like every POSTEK machine, the MX series continues the commitment to delivering the best user experience. Equipped with a 4.5-inch LCD touchscreen and one of the friendliest user interfaces, the convenience and ease of use the MX series provides are unmatched in the industry.





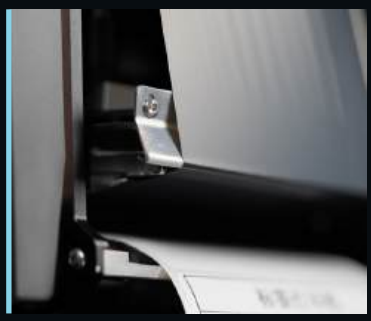
Processing power like never before

Equipped with one of the most advanced quad-core processors on the market, the MX series delivers unimaginable processing power. This means not only ultra-fast processing for any application, but also lets the MX series take full advantage of software advances such as HEAT™, ADAPT™ and OX script™.

Fixed Print Engine Chassis

An exclusive patented aluminum chassis holds the MX series printer, together with a new all-metal structure that provides unmatched stability and durability without compromising ease of loading consumables.





Smart Ribbon-Saving Printer

When equipped with the Ribbon Saving Kit, the MX series printer automatically lifts the printhead over blank portions of the media under predefined conditions and lowers it again to print when needed. This eliminates ribbon consumption without printing and extends printhead life by avoiding unnecessary wear.

RFID ready

The RFID-equipped MX series delivers one of the best user experiences in RFID. At the push of a button, the MX series automatically calibrates both the media and the internal RFID inlays. It offers high-fidelity media positioning and supports small RFID labels with a minimum 12 mm gap between RFID inlays.





RFID Verification

The optional RFID verification package detects errors or mismatches immediately. It marks the faulty label or tag and automatically reprints with the same data.

Real-Time Visual Verification

Thanks to robust deep-learning-based algorithms, the fully integrated visual verification system in MX series printers can read and grade 1D and 2D barcodes to ANSI/ISO standards, verify text data and check label integrity. If for any reason the printed result does not meet the set standard, the printer immediately notifies the relevant staff through the LCD display and the corresponding indicator light system.



SPECIFICATIONS

Model	MX2/MX2 Pro	MX3/MX3 Pro	MX6/MX6 Pro
RFID model	MX2r/MX2r Pro	MX3r/MX3r Pro	MX6r/MX6r Pro
Print mode	Direct Thermal and Thermal Transfer		
Print resolution	203 dpi	300 dpi	600 dpi
Max. print speed	18 ips (457.2 mm/s)	14 ips (355.6 mm/s)	6 ips (152.4 mm/s)
Max. print width	4.09 (104 mm)	4.16 (105.7 mm)	4.16 (105.6 mm)
Max. print length	196 (5000 mm)		
MPU	Quad-core 64-bit Arm® Cortex®-A53, max. operating frequency 1.8 GHz		
CPU	GC NanoUltra 3D (1 shader) & GC320 2D OpenGL ES 2.0		
Memory	2GB DDR4 RAM, 8GB managed NAND flash		
HEAT™ level ①	I		
RFID encoder	Supports UHF EPC Gen 2, ISO 18000-6C protocols (RFID models only)		
Media roll	Max. media width: 4.72" (120 mm) Min. media width: 0.39" (10 mm) Max. outer diameter: 12" (304.8 mm) Inner diameter: 1.5" (38 mm) / 3" (76.2 mm) (Only Pro models are equipped with the media supply mechanism)		
Liner rewind	Max. outer diameter: 7.87" (200 mm) (Only Pro models are equipped with a liner rewinder)		
Min. label length	Tear-off: 0.2" (5 mm)		
	Peel-off: 0.47" (12 mm)		
Media thickness	Regular barcode label printer and regular RFID label printer: 0.0024" ~ 0.012" (0.06 ~ 0.305 mm), including liner		
	On-metal RFID label printer: 0.063" (1.6 mm) max., including liner ②		
Ribbon	Width: 0.79" to 4.33" (20 mm to 110 mm)		
	Max. length: 1968' (600 m) Max. outer diameter: 3.38" (86 mm) Inner diameter: 1" (25.4 mm) Ink side: both in and out		
Media sensor	Top reflective: detects black marks on the print side Bottom reflective: detects black marks on the back side Transmissive: detects gaps, notches, holes		
Fonts	Five built-in dot-matrix fonts, including the Basic Latin and Latin-1 Supplement character sets. Two built-in scalable fonts. One supports Latin, Greek and Cyrillic scripts, and the other is specifically a GB2312 Chinese character set. User-downloadable TrueType fonts.		
Barcode types	1D barcodes: Code 39, Code 93, Code 128/subset A,B,C, Codabar, Interleaved 2 of 5, UPC A/E 2 and 5 add-on, EAN-13/8/128, UCC-128, GS1-128, etc. 2D barcodes: MaxiCode, PDF417, Data Matrix, QR Code, GS1 DataMatrix, GS1 QR Code, CS Code, etc.		
Interfaces	RS-232 Serial, Ethernet 10/100/1000Mbps, USB DEVICE 2.0, USB HOST, general I/O signal interface, logic-control I/O signal wiring terminal block		
LCD display	4.5" capacitive LCD touchscreen		
Power supply	100 ~ 240 VAC, 50/60 Hz		
Weight	MX2 & MX2r: 26.46 lbs (12 kgs)	MX3 & MX3r: 29.76 lbs (13.5 kgs)	MX6 & MX6r: 30.86 lbs (14 kgs)
	MX2 Pro & MX2r Pro: 36.38 lbs (16.5 kgs)	MX3 Pro & MX3r Pro: 39.68 lbs (18 kgs)	MX6 Pro & MX6r Pro: 40.79 lbs (18.5 kgs)

Model	MX2/MX2 Pro	MX3/MX3 Pro	MX6/MX6 Pro
RFID model	MX2r/MX2r Pro	MX3r/MX3r Pro	MX6r/MX6r Pro
Dimensions	MX & MXr: W 9.6" (245 mm) x D 16.0" (405.8 mm) x H 12.1" (306.7 mm) MX Pro & MXr Pro: W 20.3" (515 mm) x D 16.0" (405.8 mm) x H 14.4" (366 mm)		
Operating environment	Temperature: 32°F ~ +104°F (0°C ~ 40°C) Relative humidity: 5% ~ 90% non-condensing Max. altitude: 5000 m		
Storage environment	Temperature: -40°F ~ +140°F (-40°C ~ 60°C) Relative humidity: 5% ~ 90% non-condensing		

① HEAT™ (Heat Equilibrium Adaptive Tuning), developed by POSTEK, is a cutting-edge technology for controlling printhead heating. With HEAT™, POSTEK printers can significantly improve their performance in print clarity and print speed. The HEAT™ level represents the fineness of heating uniformity, with level I being the finest.

② For on-metal RFID labels, label flexibility and whether fillers are used to fill the gaps between labels can affect print quality and even the encoding success rate. We strongly recommend testing labels on this POSTEK printer before purchasing them.

Optional Configuration

RFID verifier*	Externally mountable module (RFID models only)
Visual verifier*	Three software packages are available for the visual verifier; users can choose one according to their needs and budget: 1. Verifies 1D and 2D barcode data. 2. Verifies 1D and 2D barcode data and grades printed barcode symbologies. 3. Verifies 1D and 2D barcode data, grades printed barcode symbologies and inspects print defects. (An internal or external rewinder is required to keep the media flat, without bending or wrinkling, as it passes through the visual scanning area.)
Ribbon saving kit*	Including the following items: 1. Automatic brake on the ribbon take-up spindle. 2. Automatic printhead open/close module. 3. Media tension mechanism for an MX Pro model printer. (For standard models, the media supply system must take steps to prevent the media from going slack during backfeed.)
Wireless module	WIFI IEEE 802.11a/b/g/n/ac/ax, 2.4/5GHz, Bluetooth 5.0

*Factory dependent.



MX Pro



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