

MX SERIES PRINT ENGINE



No PC No PLC No Problem

The integration of label printers into automated production lines usually required the deployment of an external PLC (or programmable logic controller).

With the new MX series from POSTEK, the printer is the PLC. With just a few tap on the LCD touch screen, the entire operation can be up and ready to go in no time with zero requirements for prior coding experiences.

FEATURES



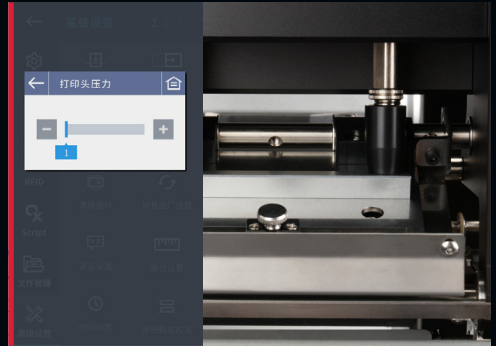
The formidable heart of an automated labeling system

The inaugural intelligent terminal labeling system globally, requiring no linkage to PLC or PC. Distinguished by its exclusive 24-pin embedded logic I/O control and a 15-pin universal I/O control, it provides an all-encompassing and convenient solution for connecting external devices.



Automatic Precision Printhead Pressure Adjustment

When equipped with the optional electronically controlled printhead pressure adjustment scheme, MX Pro-Touch can turn the labor-intensive task of printhead pressure adjustment to just a few taps on the printer's LCD screen.



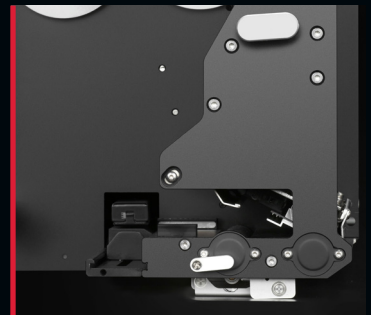
Advanced Dynamic Adaptive Precision Tuning (ADAPT™)

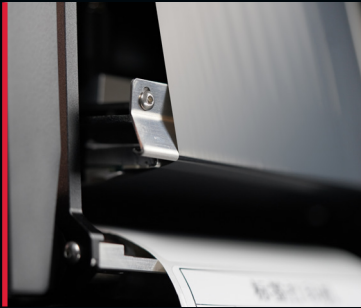
Say goodbye to poor printout quality due to wear and tear on the platen roller, changing of media thickness, or different friction coefficient of media. With the innovative precise calibration algorithm, the best printout quality in the industry can be achieved with a simple automatic calibration process. Providing consistent, precise printout while drastically cutting back on the need for maintenance.



Fixed Print Engine Frame

A unique, patented aluminum print engine frame underpins the MX series printer, along with a new all-metal structure to deliver unparalleled stability and durability with uncompromised convenience of consumables loading.





Smart printer that saves ribbon

When equipped with the Ribbon Saving Kit, the MX series printer automatically lifts the printhead during the empty portions of the media under predefined conditions and locks down to print again when needed. Eliminating the consumption of ribbon without printing and extends printhead life span by putting an end to unnecessary wear and tear.



Optimal Ribbon Tension Adjustment Scheme

This patent-pending, user-friendly method has brought unprecedented simplicity and convenience. Through the Allen wrench bundled with the printer, users can easily finetune the ribbon tension with minimal training or prior experiences.



SmartTagVerify

Equipped with the innovative SmartTagVerify, the MX series printers offer automatic RFID encoding verification that instantly detects errors or mismatches. Upon detecting an issue, SmartTagVerify seamlessly marks the erroneous label or tag and automatically initiates reprinting with the same accurate data, ensuring uninterrupted workflow and unparalleled data integrity.



Real-time VisualGuard

As an advanced printed label visual verification system, VisualGuard on the MX series printers can read and grade 1D & 2D barcodes to ANSI/ISO standards, verify text data, and check the integrity of labels. If for any reason the printout doesn't meet the set standard, the printer will immediately notify relevant personals through the LCD screen and the accompanying indication light system.



SPECIFICATIONS

Model	MX2/MX2 Pro	MX3/MX3 Pro	MX6/MX6 Pro
Model with RFID	MX2r/MX2r Pro	MX3r/MX3r Pro	MX6r/MX6r Pro
Print Mode	Direct Thermal and Thermal Transfer	Direct Thermal and Thermal Transfer	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	64-bit, quad Arm® Cortex®-A53 core, maximum 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[®]	I		
RFID Encoder	Supports UHF EPC Gen 2, ISO 18000-6C protocols (Only available for RFID models)		
Media Roll	Maximum Media Width: 4.72" (120 mm) Minimum Media Width: 0.39" (10 mm) Maximum Outer Diameter: 12" (304.8 mm) Inner Diameter: 3" (76.2 mm) (Only the Pro models are equipped with media supply mechanism)		
Liner Rewind	Maximum Outer Diameter: 7.87" (200 mm) (Only the Pro models are equipped with liner rewinder)		
Minimum 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		
	Mount-on-Metal RFID Label Printer [®] : 0.063" (1.6 mm) max., including liner		
Ribbon	Width: 0.79" to 4.33" (20 mm to 110 mm)		
	Maximum Ribbon Length: 1968' (600 m) Maximum Outer Diameter: 3.38" (86 mm) Inner Diameter: 1" (25.4 mm) Ink side: both In and Out		
Media Sensor	Upper reflective: detects black marks on print side Lower reflective: detects black marks on back side Transmissive: detects gaps, notches, holes		
Fonts	Five built-in dot matrix fonts, which include Basic Latin and Latin-1 Supplement character sets. Two built-in scalable fonts. One supports Latin, Greek and Cyrillic scripts, and the other is a GB2312 Chinese character set specifically. User downloadable TrueType fonts.		
Barcode Types	1D Barcodes: Code 39, Code 93, Code 128/subset A,B,C, Codabar, Interleave 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, 10/100/1000Mbps Ethernet, USB DEVICE 2.0, USB HOST, General I/O Signal Interface, Logic Control I/O Signal Wiring Terminal Block		
LCD Display	4.5" LCD Capacitive Touchscreen		
Power Source	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
Model with RFID	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 Maximum Altitude: 5000 m		
Storage Environment	Temperature: -40°F ~ +140°F (-40°C ~ 60°C) Relative humidity: 5% ~ 90% non-condensing		

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

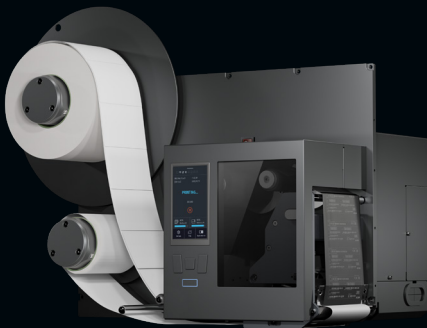
② For Mount-on-Metal RFID tags, the flexibility of the tag and whether or not to use fillings to bridge the gaps between tags can affect print quality and even encoding success rate. It is strongly recommended to test the tags on this POSTEK printer before purchasing.

Optional Configuration

RFID Verifier*	External-mount module (Only available for RFID models)
Visual Verifier*	Three software packages tailored for VisualGuard, an advanced printed label visual verification system, and users can choose one from them based on needs and budget: 1. Verifies 1D & 2D barcode data. 2. Verifies 1D & 2D barcode data and evaluates printed barcode symbologies. 3. Verifies 1D & 2D barcode data, evaluates printed barcode symbologies, and inspects print defects. Note: After purchasing the software packages for the visual verifier, a product key will be provided for activation.
Ribbon Saving Kit*	Including the following items: 1. Automatic Brake on the ribbon take-up spindle. 2. The automatic printhead open/close module. 3. The media tension mechanism for a MX Pro model printer. (For standard models, the media supply system must take measures to prevent the media from being loose while backfeeding.) Note: After purchasing the Ribbon Saving feature, a product key will be provided for activation.
Media Tension Kit*	Including the following items: 1. Linear Dancer. 2. Media Spindle Brake. (Only available for MX Pro models)
Wireless Module*	WiFi IEEE 802.11a/b/g/n/ac/ax, 2.4/5GHz, Bluetooth 5.0

* Factory dependent.

③ Disclaimer: While the RFID Verifier or Visual Label Verifier is designed to enhance the accuracy and reliability of your product verification processes, the seller of this product cannot guarantee 100% success in all instances. Various factors beyond our control may influence the effectiveness of the verification system. Consequently, the seller is not liable for any direct or indirect losses, damages, or disruptions resulting from the failure or malfunction of the verification process. It is recommended that users implement additional safeguards and redundancy measures to ensure product quality and accuracy.



MX Pro



MX



POSTEK

RUGGED PARTS, DURABLE MACHINES

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