

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



■ Wipe-on label applicator

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



■ 4.5 inch full color LCD touch screen display

Like all POSTEK machines, the MX series carries on the dedication to the best user experience. Equipped with a 4.5 inch LCD touch screen and one of the friendliest user interface, the level of convenience and ease of use provided by the MX series is unmatched in the industry.



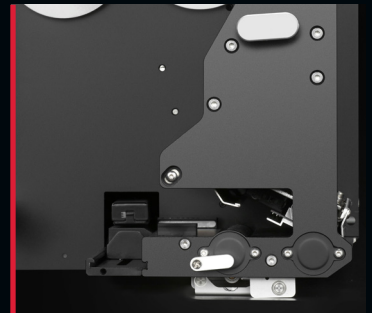
■ Processing power like never before

Equipped with one of the most advance quad-core processor on the market, the MX series provides unimaginable processing power. Not only does that mean lightning processing speeds for anything the application can throw at it, but also allowing the MX series to take full advantage over software breakthroughs such as HEAT™, ADAPT™, or OX script™



■ 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.





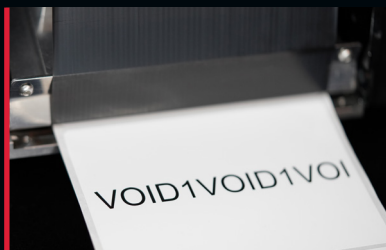
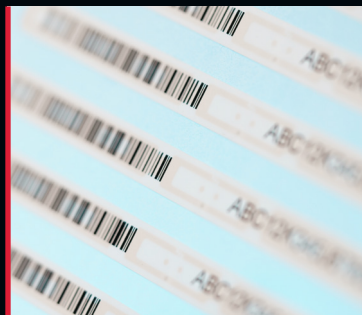
Smart printer that saves ribbon

When equipped with the Ribbon Saving Kit, the OX 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.



RFID Ready

The MX series equipped with RFID could provide one of the best user experiences in the RFID realm. With a simple push of a button, the MX series will automatically calibrate both the media and the RFID inlays within. Offering high fidelity media positioning and support for small RFID labels with a minimal distance of 12mm between RFID inlays.



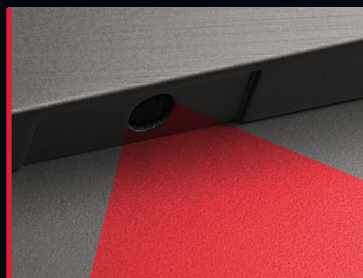
RFID Verification

The optional RFID verification package detects errors/mismatches immediately. Marking the erroneous label or tag and reprinting with the same data automatically.



Real-time Visual Verification

Thanks to robust deep-learning-based algorithms, the fully integrated visual verification system on the OX 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.



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*	There are three software packages listed below for the visual verifier, 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, grades printed barcode symbologies, and inspects print defects. (An internal or external rewinder is required to keep the media flat without bending or buckling when passing through the visual scanning area.)
Ribbon Saving Kit*	Including the following items: 1. The ribbon take-up clutch. 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.)
Wireless Module*	WIFI IEEE 802.11a/b/g/n/ac/ax, 2.4/5GHz, Bluetooth 5.0

* Factory dependent.



MX Pro

MX

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		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 Media Width	4.72" (120 mm)			
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 ①	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: 1.5" (38 mm) / 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	N/A		Width: 0.79" to 4.33" (20 mm to 110 mm)	
	N/A		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)



POSTEK

RUGGED PARTS, DURABLE MACHINES

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