

POSTEK MX Pro Robo-Touch

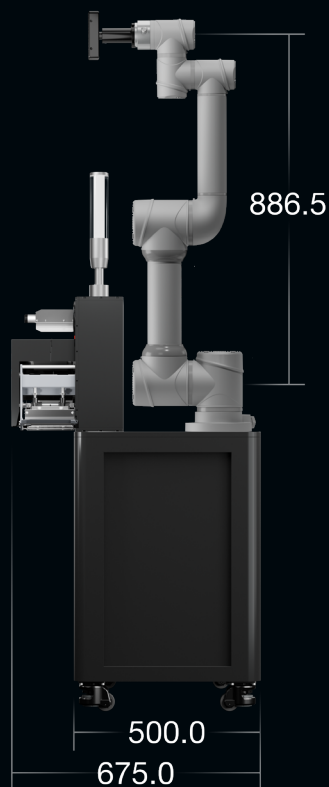
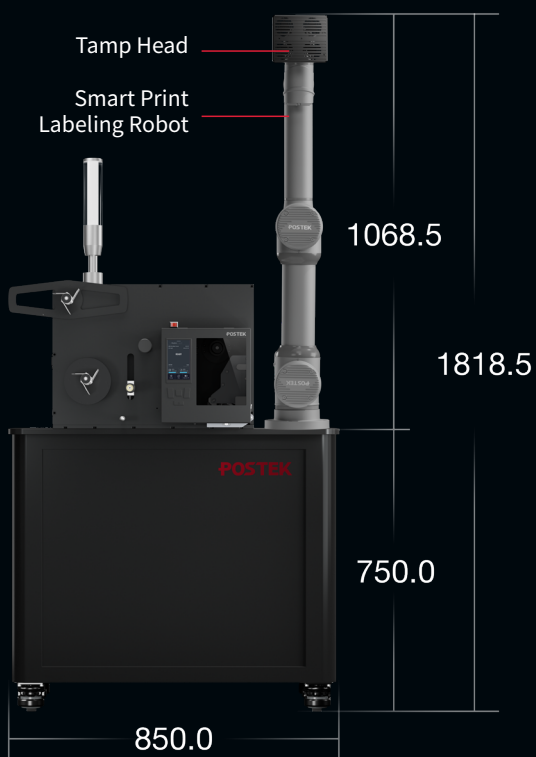
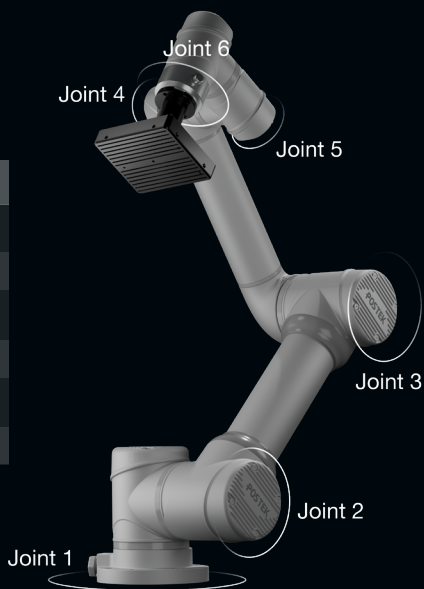
Smart Print Labeling Robot



An Intelligent, Safe,
Efficient Labeling Solution

DIMENSIONS

| Joints | Ranges | Max Speed |
|---------|--------|-----------|
| Joint 1 | ±360 ° | 147 °/s |
| Joint 2 | ±175 ° | 147 °/s |
| Joint 3 | ±162 ° | 147 °/s |
| Joint 4 | ±175 ° | 178 °/s |
| Joint 5 | ±175 ° | 178 °/s |
| Joint 6 | ±360 ° | 178 °/s |



Unit: mm

SMART PRINT LABELING ROBOT

■ Revolutionizing the Future of Labeling

The Smart Print Labeling Robot is a game-changing solution that offers an all-in-one solution for modern manufacturing. It combines a smart label printer with general IO and logic control interfaces and a collaborative robot (cobot) to create a more compact, efficient, reliable and safer labeling system. Upgrade to a smarter labeling system and experience the benefits today!



■ Compact and Lightweight

The collaborative robot is smaller, more flexible, and lighter than traditional Print & Apply systems, allowing for easier integration into production lines without taking up excessive space.



■ Direct Communication & Control

The smart printer can directly connect to and control the collaborative robot without the need for additional PLC (Programmable Logic Controller) equipment. This reduces system complexity and improves reliability.



■ Faster & More Efficient

The simultaneous control of printing and labeling speeds up the process, enhancing productivity without sacrificing precision.



■ Enhanced Safety

Collaborative robots are designed to work alongside humans, featuring advanced safety mechanisms that minimize the risk of injury, making them a safer option in any production environment.

FEATURES



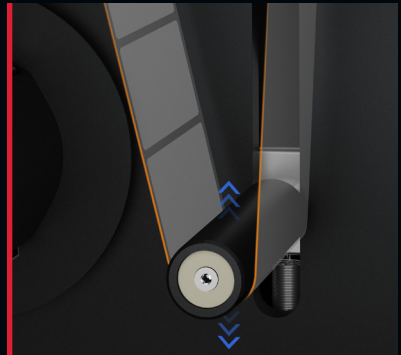
■ The formidable heart of an automated labeling system

The MX printer not only prints labels but also manages the entire labeling system, eliminating the need for a PLC or PC. The built-in logic controller makes setting up print and apply labeling system as easy as connect and go.



■ Linear Dancer With Braking System

The advanced media tension control system utilizing a linear dancer in combination with an automatic braking system ensures proper media tension at all times, maximizing printing accuracy, printout quality, and precise label application.



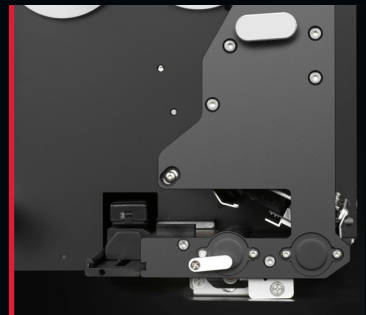
■ Advanced Dynamic Adaptive Precision Tuning (ADAPT™)

Say goodbye to poor printout quality due to wear 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.





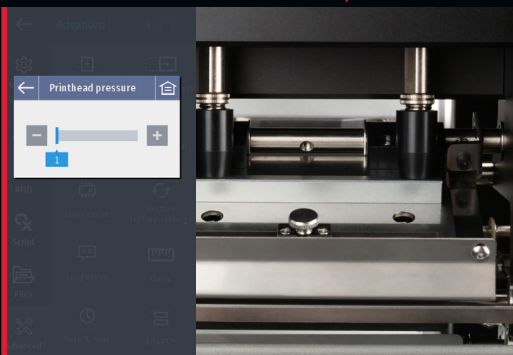
Smart Printer That Saves Ribbon

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.



Automatic Precision Printhead Pressure Adjustment

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



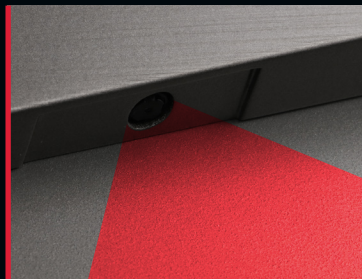
SmartTagVerify

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, 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 Pro Robo-Touch | MX3 Pro Robo-Touch | MX6 Pro Robo-Touch |
| Model with RFID | MX2r Pro Robo-Touch | MX3r Robo Pro-Touch | MX6r Pro Robo-Touch |
| Print Mode | Direct Thermal and Thermal Transfer | | |
| Print Resolution | 203 dpi | 300 dpi | 600 dpi |
| Max Print Speed | 18ips (457.2 mm/s) | 14ips (355.6 mm/s) | 6ips (152.4 mm/s) |
| Max Print Width | 4.09" (104 mm) | 4.16" (105.7mm) | 4.16" (105.6 mm) |
| Max Media Width | 4.72" (120 mm) | | |
| Application Mode | Touch-on | | |
| Label Size for Application | Width: 20 ~ 120 mm Height: 20 ~ 200 mm | | |
| Labeling Speed ^① | 30 labels/min | | |
| Max Working Radiu | 886.5 mm | | |
| Applying Directions | On the top, on the below, or on the side | | |
| Size of the Product to Be Labeled | Variable | | |
| GPU | GC NanoUltra 3D (1 shader) &GC320 2D OpenGL ES 2.0 | | |
| MPU | 64-bit, quad Arm® Cortex®-A53 core, maximum operating frequency 1.8 GHz | | |
| Memory | 2GB DDR4 RAM, 8GB Managed NAND Flash | | |
| HEAT™ Level ^② | I | | |
| RFID Encoder | Supports UHF EPC Gen 2, ISO 18000-6C protocols (Only available for RFID models) | | |
| Media Roll | Outer Diameter: 12" (304.8 mm) max. Inner Diameter: 3" (76.2 mm) | | |
| Liner Rewind | Outer Diameter: 7.87" (200 mm) max. | | |
| Media Thickness | 0.0024" ~ 0.012" (0.06 ~ 0.305 mm), including liner | | |
| Ribbon (both In and Out) | N/A | Width: 0.79" ~ 4.33" (20 ~ 110 mm) Length: 1968' (600 m) max. Outer Diameter: 3.38" (86 mm) max. Inner Diameter: 1" (25.4 mm) | |
| 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 |
| 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 The labeling speed varies depending on the height of the label and the selected print speed, the Labeling Speed here is base on a label height of 100 mm and a printing speed of 8ips.

② HEAT™, or Heating Equilibrium Adaptive Tuning, is a POSTEK designed and developed cutting-edge technology that sets the benchmark for heat management in thermal printing. Printers equipped with HEAT™ have significant improvements in their printout clarity and print speed. The HEAT™ level represents the fineness of the heating uniformity with level I being the finest.

Optional Features

| | |
|---------------------------|---|
| SmartTagVerify*③ | External-mount module (Only available for RFID models) |
| VisualGuard*③ | 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. A set of printhead motorized lifting assembly. 2. Automatic Brake on the ribbon take-up spindle. Note: After purchasing the Ribbon Saving feature, a product key will be provided for activation. |
| 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.



POSTEK

RUGGED PARTS, DURABLE MACHINES

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