# POSTEK
# **MX Pro Applicator** Series

PRECISION LABELING · FULLY ELECTRIC DRIVE




## Engineered for Precision Labeling

Built around the MX Smart Printing Engine, the system combines fully electric actuation with intelligent control. Dedicated mechanisms and motion control are developed for press, blow, and wipe labeling, delivering efficient, precise, and reliable solutions for automated production lines.

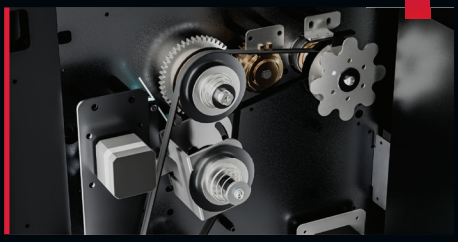
From a high-performance printing engine to a plug-and-play print-and-labeling system, one core platform meets diverse automation needs.

# One Platform · Powering the Entire Line

Built around an industrial-grade printing engine, the MX Smart Labeling Platform combines reliable control with flexible labeling applications to deliver consistent, high-performance labeling solutions for manufacturing, logistics, and automated production lines.labeling process.

## Fully Electric Drive Technology

Servo motors and electric vacuum systems replace traditional pneumatics—no compressed air required, for more precise, quiet, and safe operation.



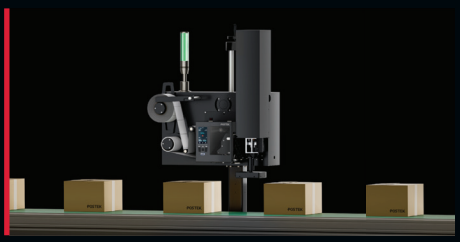


## Patented Fixed-Frame Design

A patented fixed-frame structure delivers industrial-grade durability and stability while ensuring long-term precision.

## Industrial-Grade Reliability

Designed for 24/7 automated production, delivering stable labeling speed and consistent performance during continuous operation.






## High-Precision Automated Labeling

Electric actuators precisely control label pickup, transfer, and application for consistent positioning and reliable adhesion.

## Intelligent Control Platform

An open Python platform powered by OX Script enables custom control logic and device integration—without manufacturer-dependent development.



# Synchronized Printing & Labeling

Built around the MX Pro intelligent printing engine, the system integrates industrial-grade printing, logic control, and labeling mechanisms for seamless coordination throughout the entire printing and labeling process.

## Synchronized Printing & Labeling

Labeling starts immediately after printing, keeping both cycles tightly synchronized for a seamless, uninterrupted workflow.





## Built-In PLC Control

The printer directly controls labeling, with timing and parameters for press, blow, and wipe labeling configured internally—no external PLC required.

## Open I/O Interface

Standard I/O terminals enable real-time communication with sensors, conveyors, and host systems for flexible production line integration.






## Real-Time Feedback & Status Monitoring

4.5" touchscreen displays printing and labeling status in real time, with instant alerts for abnormalities. Remote monitoring and maintenance are available through the POSTEK App.

# MX Pro Applicator Series

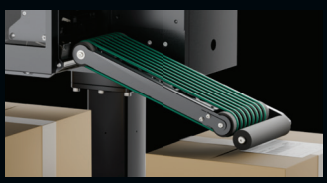
MX Pro Applicator Series——including MX Pro-Touch, MX Pro-Blow, and MX Pro-Wipe—is a fully electric labeling machine lineup independently developed by POSTEK, powered by the MX printing engine.
Different products, production lines, and labeling requirements present unique challenges for labeling mechanisms. The MX Pro Series addresses each application with dedicated mechanical structures and motion control logic, delivering optimized labeling performance for every labeling method.









### Dedicated Labeling Design

Each MX Pro model features dedicated mechanics and motion control for optimal labeling performance.



### Fully Electric Motion Control

Servo-driven and electric vacuum systems deliver fast, quiet, and safe operation—with no air compressor required.

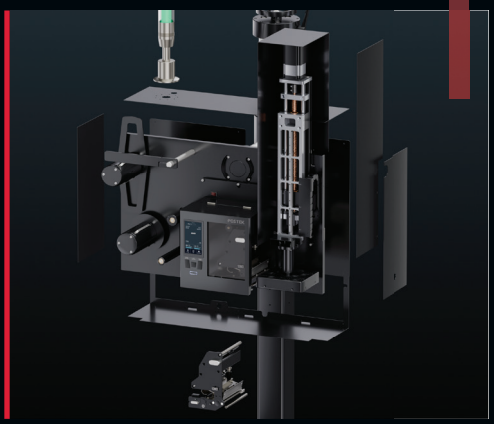



### Smarter System Integration

Built-in control coordinates printing, sensing, and labeling. OX Script enables custom workflows without external hardware.

# Fully Electric Drive

MX Pro Series replaces traditional pneumatic systems with servo motors and an electric vacuum system, enabling precise control throughout the labeling process. No compressed air is required, reducing installation and infrastructure costs.



**More Precise**
Servo Control for Stable Motion

**Quieter**
Reduced Operating Noise for a Better Work

**Safer**
Fast Braking with Real-Time Control Feedback



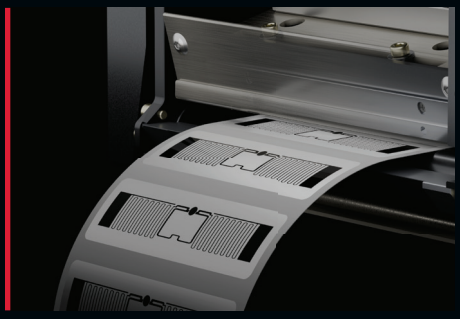

## VisualGuard™ (Optional Features)

VisualGuard™ integrates visual inspection directly into the printer, enabling simultaneous printing and inspection. It detects label content, barcode quality, and printing defects in real time, with instant alerts via the LCD display and indicator lights when anomalies are detected.

## Industrial-Grade Printing Platform

MX Pro Series features a patented fixed-frame design and a rugged industrial-grade chassis for reliable, around-the-clock operation. It delivers high-precision label output and supports extended continuous printing, making it ideal for high-volume label production on automated production lines.





## RFID Smart Label Support

MXr Series features a proprietary “Print-Then-Encode” antenna technology, with optional automatic RFID encoding verification to ensure 100% label verification accuracy. It supports small labels with a minimum spacing of 12 mm, as well as flexible on-metal labels up to 1.6 mm thick.

## AVA — Intelligent AI Assistant

AVA is POSTEK’s AI-powered assistant for barcode printing and RFID encoding, powered by the latest DeepSeek model. Available 24/7, it monitors printing status in real time, intelligently diagnoses issues, and provides precise guidance through natural-language interaction. With deep printer integration, AVA enables faster issue identification and resolution for a more efficient, intelligent, and reliable printing experience.



# MX Pro - Touch·Blow·Wipe

## Three Labeling Methods · Dedicated Mechanisms & Control Logic




### MX Pro-Touch

**High-Precision Positioning for Fixed Labeling Applications**

An electric labeling head precisely applies labels to the product surface, ensuring consistent positioning and reliable adhesion. Ideal for applications requiring high labeling accuracy.

#### Key Advantages

- High-precision labeling
- Consistent label positioning
- Ideal for flat surfaces and stationary or low-speed products




### MX Pro-Blow

**Contactless Labeling for Delicate Products**

The label is held by vacuum suction and blown onto the product surface using an air stream, eliminating direct contact between the labeling head and the product. Ideal for sensitive surfaces or continuous-conveying applications where products cannot stop.

#### Key Advantages

- Contactless Labeling
- Ideal for Delicate Products
- Minimal Product Interference
- Supports High-Speed Production Lines




### MX Pro-Wipe

**High-Speed Continuous Labeling for Production Lines**

Labels are applied directly as products pass through the labeling area, with a guide plate mechanism ensuring smooth label transfer. Ideal for high-speed production environments with continuous product flow.

#### Key Advantages

- High-Speed Continuous Labeling
- High Production Efficiency
- Simple & Reliable Design
- Ideal for Regular-Shaped Products

# MX Pro-Touch·Blow·Wipe
# SPECIFICATIONS

| Model | MX2 Pro-Touch/Blow/Wipe | MX3 Pro-Touch/Blow/Wipe | MX6 Pro-Touch/Blow/Wipe |
|---|---|---|---|
| Model with RFID | MX2r Pro-Touch/Blow/Wipe | MX3r Pro-Touch/Blow/Wipe | MX6r Pro-Touch/Blow/Wipe |
| 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 Media Width | 4.72″ (120 mm) | | |
| Max Print Width | 4.09″ (104 mm) | 4.161″ (105.7 mm) | 4.157″ (105.6 mm) |
| MPU | 64-bit, quad core, maximum operating frequency 1.8 GHz | | |
| Memory | 2GB DDR RAM, 8GB Flash ROM | | |
| HEAT™ Level① | 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.<br>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 | Width: 0.79" ~ 4.33" (20 ~ 110 mm)<br>Length: 1968' (600 m) max.<br>Outer Diameter: 3.38" (86 mm) max.<br>Inner Diameter: 1" (25.4 mm)<br>Ink side: both In and Out | | |
| Media Sensor | Upper reflective: detects black marks on print side<br>Lower reflective: detects black marks on back side<br>Transmissive: detects gaps, notches, holes | | |
| Fonts | Five built-in dot matrix fonts, which include Basic Latin and Latin-1 Supplement character sets.<br>Two built-in scalable fonts. One supports Latin, Greek and Cyrillic scripts, and the other is a GB2312 Chinese character set specifically.<br>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.<br>2D Barcodes: MaxiCode, PDF417, Data Matrix, QR Code, GS1 DataMatrix, GS1 QR Code, CS Code, etc. | | |
| Interfaces | RS-232 Serial, 10/100/1000 Mbps Ethernet, USB DEVICE 2.0, USB HOST, General I/O Interface, Logic Control I/O Signal Wiring Terminal Block | | |
| LCD Display | 4.5“ LCD Capacitive Touchscreen | | |
| Power Source | 100 ~ 240 V AC, 50/60 Hz, 300 W | | |
| Operating Environment | Temperature: 32°F ~ 104°F (0°C ~ 40°C)<br>Relative humidity: 5% ~ 90% non-condensing<br>Maximum Altitude: 16404 ft (5000 m) | | |
| Storage Environment | Temperature: -40°F ~ 140°F (-40°C ~ 60°C)<br>Relative humidity: 5% ~ 90% non-condensing | | |

① 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 ™ demonstrate 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.

| Model | MX Pro-Touch |
|---|---|
| Application Mode | Touch-on |
| Label Size for Application | Width: 20 ~ 120 mm; Height: 20 ~ 150 mm |
| Labeling Speed② | 35 labels/min |
| Labeling Cylinder Stroke | 300 mm |
| Labeling Position | Top, bottom, or side |
| Size of the Product to Be Labeled | Variable |
| Operating Air Pressure | 0.5 ~ 0.8 MPa |

② The labeling speed varies depending on the height of the label and the selected print speed, the Labeling Speed here is based on a label height of 100 mm and a printing speed of 8ips.

| Model | MX Pro-Blow |
|---|---|
| Application Mode | Blow-on |
| Label Size for Application③ | Width: 50 ~ 120 mm; Height: 50 ~ 200 mm |
| Labeling Speed④ | 60 labels/min |
| Air Gap | 200 mm, the gap between the tamp and the package to be labeled. |
| Labeling Position | Top, or side |
| Size of the Product to Be Labeled | Variable |
| State of a product at the moment a label is applied | In rest or in motion |
| Operating Air Pressure | 0.5 ~ 0.8 MPa |

③ The tamp needs to be customized according to the actual size of the label to be applied. ④ The labeling speed varies depending on the height of the label and the selected print speed, the Labeling Speed here is based on a label height of 100 mm and a printing speed of 8ips.

| Model | MX Pro-Wipe |
|---|---|
| Application Mode | Wipe |
| Label Size for Application | Width: 10 ~ 120 mm; Height: 25 ~ 250 mm |
| Distance from Print Line to Peeling Edge | 360 ~ 570 mm |
| Distance between the Product to Be Labeled and the Peeling Edge | 2 ~ 10 mm |
| Size of the Product to Be Labeled | Variable |
| Speed Matching between Printing and Product Moving | The printer regulates the print speed according to the signal received back from the conveyor speed encoder. |
| Labeling Speed⑤ | About 60 labels/min |
| Labeling Position | Top, bottom, or side |

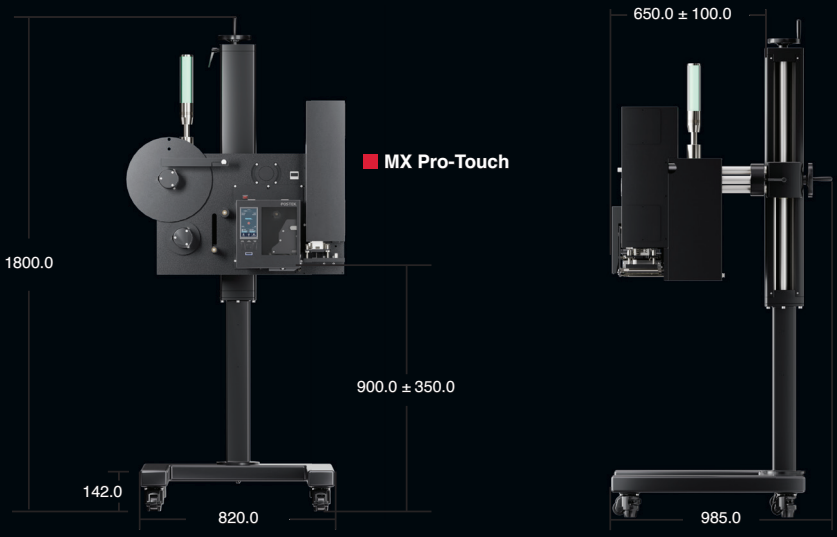
⑤ The labeling speed varies depending on the labeling interval, the height of the label and the selected print speed, the Labeling Speed here is based on a continuous labeling with label height of 100 mm and a printing speed of 4ips.

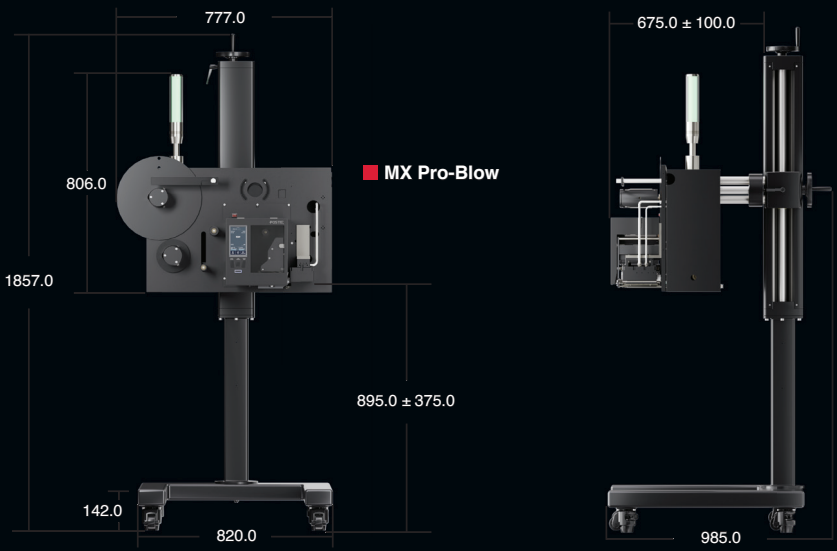
## Optional Features

| | |
|---|---|
| SmartTagVerify Pro* | The RFID verifier is an external-mount module (Only available for RFID models) |
| VisualGuard* | The visual verifier is offered in the configurations below for selection according to your requirements and budget:<br>· VG4 Scan Lite: Features a CIS camera for continuous scanning. It supports barcode data verification and OCR. OCR function: Recognizes only regular-sized English characters; tiny fonts cannot be identified.<br>· VG4 Scan: Equipped with a CIS camera for continuous scanning. Functions cover barcode data verification, OCR (supports Chinese-English mixed text and miniature character recognition with broader coverage), and label integrity inspection.<br>· VG4 Pro: Adopts an industrial camera for continuous image capture with no limitation on label height. It includes all functionalities of VG4 Scan plus 1D/2D barcode grading. |
| Ribbon Saving Kit* | Includes the following items:<br>1. Automatic Brake on the ribbon take-up spindle.<br>2. The automatic printhead open/close module.<br>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, 2.4/5 GHz, Bluetooth 5.0 |
| Y-axis Pneumatic Slide* | Maximum stroke length: 10 mm (Only MX Pro-Touch) |
| Cylinder Stroke Range* | 200 mm、400 mm、500 mm (Only MX Pro-Touch) |

*Factory dependent.

Units: mm


MX Pro-Touch
1800.0
900.0 ± 350.0
142.0
820.0
650.0 ± 100.0
985.0


777.0
MX Pro-Blow
806.0
1857.0
895.0 ± 375.0
142.0
820.0
675.0 ± 100.0
985.0


MX Pro-Wipe
1800.0
812.0 ± 350.0
142.0
820.0
650.0 ± 100.0
985.0



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