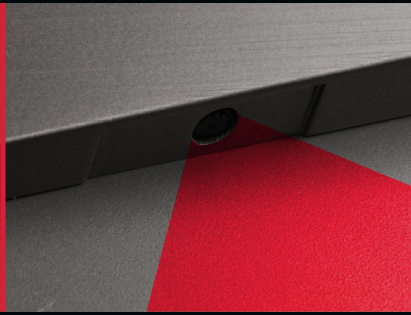


# OX SERIES LABEL PRINTER



A BLEND OF  
ART AND TECH

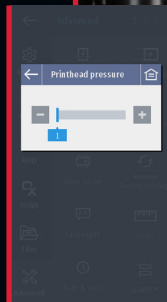


## Real-time VisualGuard

As an advanced printed label visual verification system, VisualGuard 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 persons through the LCD screen and the accompanying indication light system.

## Automatic Precision Printhead Pressure Adjustment

Aside from soft close, this system can also automatically control printhead pressure. What used to be a labor-intensive task for only the most skilled technician can now be done through a few taps on the LCD screen.



## HEAT™

## HEAT™ Technology

Powered by one of the most advanced quad-core applications processors, the POSTEK OX series printer takes full advantage of the cutting-edge HEAT™ printing technology, providing the best in class printout qualities. Combined with a 4.5-inch touchscreen control panel and a number of new mechanical innovations, the OX series printer unveils a brand-new user experience unparalleled in the on-demand label printing industry.

## 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.



# DESIGN

The great OX, a rugged symbol of strength and reliability. When faced with hard tasks, the OX provides endurance.

Due to its unique characteristic, the OX as a totem animal usually belongs to those who always shows determination perseverance regardless of the circumstances.

The OX totem has inspired the POSTEK OX series printer's unique and vigorous design. With ingenuity, exquisite, and robust product design endowed in every detail.



# PERFORMANCE

Available in 200 dpi, 300 dpi and 600 dpi resolution, with POSTEK's signature ease-of-use features and a top print speed of 18ips, the POSTEK OX series printer is the ultimate choice for your printing needs. Constant tension applied to roll media with a maximum 9-inch outer diameter, along with ultra-precision parts throughout the media transmission system, the OX series printer

brings the media positioning accuracy to a new level, e.g., the media positioning tolerance can be as low as  $\pm 0.20$  mm when printing with low speed and optimized media, ribbon selection. If the application requires a high-volume print job, an optional internal rewinder can take up an 8-inch roll of printed media for user convenience and easy storage.



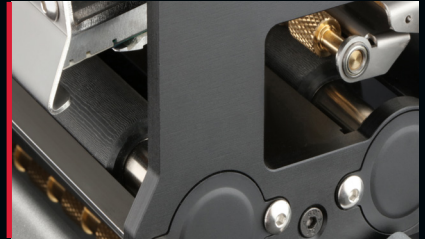
## Fixed Print Engine Frame

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



## Intuitive Media Loading

The fixed print engine frame structure of the OX series printer offers not only premier reliability, but intuitive operation as well. The OX series printer features a horizontal media feeding path on the print engine module, making the media loading process natural and straightforward without any sacrifices in robustness.



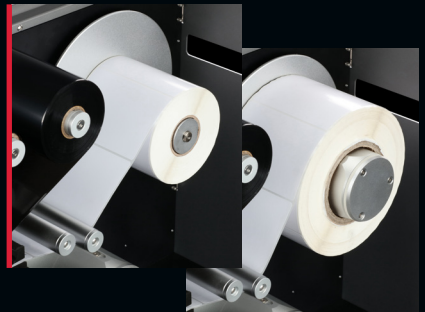
## Optimal Ribbon Tension Adjustment Scheme

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.



## Innovative Two Roller Design

In addition to the main printing platen roller, a second platen roller is available to further enhance the printing experience. When the printer is in Peel-Off mode, the synchronous second platen roller is the key to the smooth and precise peeling experience that made the OX series printers best choice for the application.





### 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.



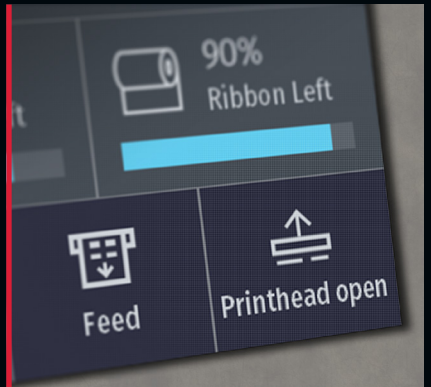
### SmartTagVerify

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



### Soft Close Printhead

If you hate to slam the doors on your beloved car just to engage the locks, then the idea of slamming the printhead module just to lock it into place can be just as irritating. The frustration with slamming the printhead and the need to double check just make sure the lock is engaged is a thing of the past with the OX series. The printhead of the OX series printer can close softly and quietly through the push of a button, providing convenience and consistency at your fingertips.



### Cable Storage Space

Hiding in plain sight, the OX series printer features a large cable storage space on the back of the printer. The system provides sorting, storage, and protection to the cable and presents a clean and orderly working environment. With the OX series printer, we integrated user experience centered designs into every detail of the product. An integrated intelligent lighting system will provide indication of space and status of the printer, as well as transforming the printing experience to be more straightforward and enjoyable.



# SPECIFICATIONS

<b>Model</b>	OX2	OX3	OX6	OX218	OX318
<b>Model with RFID</b>	OX2r	OX3r	OX6r	OX218r	OX318r
<b>Print Mode</b>	Direct Thermal and Thermal Transfer				
<b>Print Resolution</b>	203 dpi	300 dpi	600 dpi	203 dpi	300 dpi
<b>Max Print Speed</b>	18 ips (457.2 mm/s)	14 ips (355.6 mm/s)	7 ips (177.8 mm/s)	12 ips (304.8 mm/s)	12 ips (304.8 mm/s)
<b>Max Print Width</b>	4.09" (104 mm)	4.16" (105.7 mm)	4.16" (105.6 mm)	6.6" (168 mm)	
<b>Max Print Length</b>	196" (5000 mm)			118" (3000 mm)	
<b>MPU</b>	64-bit, quad Arm® Cortex®-A53 core, maximum operating frequency 1.8 GHz				
<b>GPU</b>	GC NanoUltra 3D (1 shader) & GC320 2D OpenGL ES 2.0				
<b>Memory</b>	2GB DDR4 RAM, 8GB managed NAND flash				
<b>Wireless Module</b>	WiFi IEEE 802.11a/b/g/n/ac/ax, 2.4/5.8GHz, Bluetooth 5.0				
<b>HEAT™ Level ①</b>	I				
<b>RFID Encoder</b>	Supports UHF EPC Gen 2, ISO 18000-6C protocols (Only available for RFID models)				
<b>Media Roll</b>	Maximum Media Width: 4.72" (120 mm) Minimum Media Width: 0.39" (10 mm)			Maximum Media Width: 7.09" (180 mm) Minimum Media Width: 1.18" (30 mm)	
	Maximum Outer Diameter: 9" (228.6 mm) Inner Diameter: 3" (76.2mm)			Maximum Outer Diameter: 9" (228.6 mm) Inner Diameter: 3" (76.2mm)	
<b>Minimum Label Length</b>	Tear-off: 0.2" (5 mm)			Tear-off: 0.59" (15 mm)	
	Peel-off: 0.47" (12 mm), with label peeled-off sensor 0.2" (5 mm), w/o label peeled-off sensor			Peel-off: 0.47" (12 mm)	
	Cutter: 0.79" (20 mm)			N/A	
	Rewind: 0.2" (5 mm)				
<b>Media Thickness</b>	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 ② : 0.063" (1.6 mm) max., including liner				
<b>Ribbon</b>	Maximum Length: 1968' (600 m) Maximum Outer Diameter: 3.38"(86 mm) Inner Diameter: 1" (25.4 mm) Ink side: both In and Out				
	Width: 0.79" to 4.33" (20 mm to 110 mm)			Width: 1.18" to 6.93" (30 mm to 176 mm)	
<b>Media Sensor</b>	Upper reflective: detects black mark on face side Lower reflective: detects black mark on back side Transmissive: detects gaps, notches, holes				
<b>Fonts</b>	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.				
<b>Barcode Types</b>	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.				

<b>Interfaces</b>	RS-232 Serial, 10/100/1000Mbps Ethernet, USB DEVICE 2.0, USB HOST, General I/O Signal Interface (Optional), Applicator Peripheral Logic Control I/O Signal Wiring Terminal Block (Optional)		
<b>LCD Display</b>	4.5" LCD Capacitive Touchscreen		
<b>Power Source</b>	100 ~ 240 VAC, 50/60 Hz		
<b>Weight</b>	47.08 lbs (21.4 kgs)	54.23 lbs (24.6 kgs)	
<b>Dimensions</b>	W 12" (305 mm) × D 22.05" (560 mm) × H 16.06" (408 mm)	W 14.45" (367 mm) × D 22.05" (560 mm) × H 16.06" (408 mm)	
<b>Operating Environment</b>	Temperature: 32°F ~ +104°F (0°C ~ 40°C) Relative humidity: 5% - 90% non-condensing Maximum Altitude: 5000 m		
<b>Storage Environment</b>	Temperature: -40°F ~ +140°F (-40°C ~ 60°C) 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™ 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.

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

<b>SmartTagVerify*</b>	External-mount module (Only available for RFID models)			
<b>VisualGuard*③</b>	<p>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:</p> <ol style="list-style-type: none"> <li>Verifies 1D &amp; 2D barcode data.</li> <li>Verifies 1D &amp; 2D barcode data and evaluates printed barcode symbologies.</li> <li>Verifies 1D &amp; 2D barcode data, evaluates 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.)</li> </ol> <p>Note: After purchasing the software packages for the visual verifier, a product key will be provided for activation.</p>			
<b>Automatic Peeler*</b>	A dedicated set of peeling rollers, an internal liner rewinder, and a label peeled-off sensor			
<b>Internal Rewinder*</b>	Rewind Roll: Maximum Outer Diameter: 8" (203 mm) Inner Diameter: 3" (76.2mm)			
<b>Ribbon Saving Kit*</b>	Includes the following items: <ol style="list-style-type: none"> <li>Automatic Brake on the ribbon take-up spindle.</li> <li>External Media Feed Assembly (not required when equipped with an Automatic Peeler and in Peeler Mode).</li> </ol> <p>Note: After purchasing the Ribbon Saving feature, a product key will be provided for activation.</p>			
<b>Cutters</b>	Type	Rotary Cutter (Only available for OX2/OX3/OX6/OX2r/OX3r/OX6r)		
	Model	A150S	A400S	A400P
	Max. Cut Width	120 mm	120 mm	120 mm
	Min. Cut Length	20 mm	20 mm	20 mm
	Cut Speed	0.8 sec/cut	0.8 sec/cut	0.15 sec/cut
	Cut Thickness (white cardboard paper)	0.20 mm	0.2-0.35 mm	0.35 mm
	Cuts Guaranteed	600,000	600,000	600,000

\* 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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