OX SERIES
LABEL PRINTER



A BLEND OF ART AND TECHNOLOGY

DESIGN

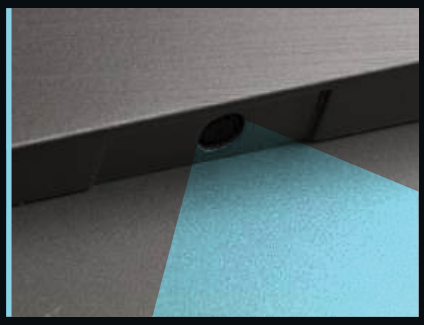
The mighty OX, a robust symbol of strength and reliability. Faced with tough tasks, the OX brings endurance. Because of its unique character, the OX as a totem animal usually belongs to those who show determination and perseverance whatever the circumstances. The OX totem inspired the unique, vigorous design of the POSTEK OX series printers — ingenious, with exquisite and rugged product design in every detail.







INNOVATION



Real-Time Visual Verification

Thanks to robust deep-learning algorithms, the visual verification system fully integrated into OX series printers can read and grade 1D and 2D barcodes to ANSI/ISO standards and verify label integrity. If for any reason a print does not meet the set standards, the printer immediately notifies the relevant staff through the LCD display and accompanying light system.



Automatic Precision Printhead Pressure Adjustment

Besides soft closing, this system can also automatically control printhead pressure. What used to be a laborious task for only the most skilled technicians can now be done with a few taps on the LCD.



HEAT ™ Technology

Powered by one of the most advanced quad-core application processors, the POSTEK OX series printer makes full use of HEAT™ printing technology to deliver best-in-class print quality. Combined with a 4.5-inch touch control panel and a series of new mechanical innovations, the OX series offers an entirely new user experience, unprecedented in the on-demand label printing industry.



Advanced Dynamic Adaptive Precision Tuning (ADAPT ™)

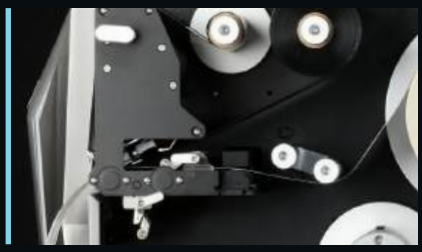
Say goodbye to poor print quality caused by platen roller wear, changes in media thickness or different media friction coefficients. With the innovative precision calibration algorithm, the industry's best print quality is achieved through a simple automatic calibration process, delivering consistent, accurate prints while drastically reducing maintenance needs.

PERFORMANCE

Available in 200 dpi, 300 dpi and 600 dpi resolutions, with POSTEK's signature ease of use and a maximum print speed of 18 ips, the POSTEK OX series printer is the ultimate choice for your printing needs. Constant tension applied to media rolls up to 9 inches in outer diameter, together with ultra-precision parts throughout the media transport system, takes media positioning accuracy to a new level: for example, positioning tolerance can be as low as ±0.20 mm when printing at low speed with optimized media and ribbon. For high-volume print jobs, an optional internal rewinder can take up an 8-inch roll of printed media for user convenience and easy storage.

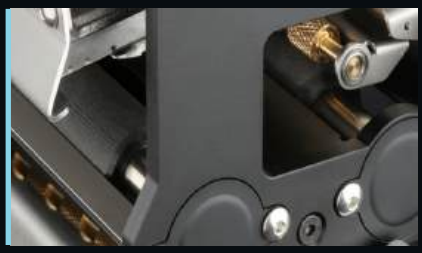
Fixed print engine frame

A unique, patented aluminum print engine frame underpins the OX series printer, together with a new all-metal structure, delivering unmatched stability and durability for industrial-grade equipment with uncompromising ease of loading consumables.



Intuitive media loading

The OX series' fixed print engine structure offers not only first-class reliability but also intuitive operation. A horizontal media path in the print engine module makes media loading natural and simple without sacrificing robustness.



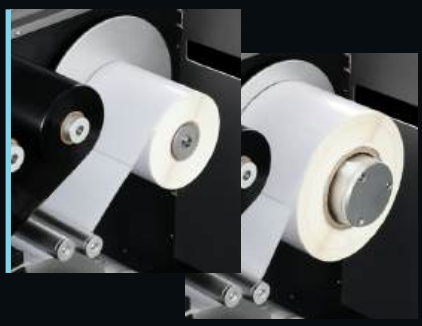
Optimal Ribbon Tension Adjustment Scheme

This patent-pending, easy-to-use method brings unprecedented simplicity and convenience. Using the Allen key included with the printer, users can easily adjust ribbon tension with minimal training or prior experience.



Innovative Dual-Platen Design

In addition to the main print platen roller, a second platen roller is available to further enhance the printing experience. In peel mode, the synchronized second platen roller is key to a smooth, precise peeling experience that makes OX series printers the best choice for the application.





Smart Ribbon-Saving Printer

When equipped with the Ribbon Saving Kit, the OX series printer automatically lifts the printhead over blank sections of media under predefined conditions and locks back down to print when needed. This eliminates ribbon consumption where nothing is printed and extends printhead life by avoiding unnecessary wear.



RFID Verification

The optional RFID verification kit detects errors or mismatches immediately. It marks the faulty label or tag and automatically reprints it with the same data.

Soft printhead closing

If you hate slamming the doors of your beloved car just to lock it, slamming the printhead module just to secure it can be just as irritating. With the OX series, the frustration of slamming the printhead and double-checking that it is closed is a thing of the past: the printhead closes smoothly and quietly at the push of a button, bringing convenience and consistency to your fingertips.



Cable storage space

Hidden in plain sight, the OX series printer features ample cable storage at the back. The system sorts, stores and protects cables for a clean, tidy workspace. In the OX series we have built user-centered design into every detail of the product. An integrated smart lighting system gives cues about the printer's space and status, making the printing experience more direct and enjoyable.



SPECIFICATIONS

Model	OX2	OX3	OX6	OX218	OX318
RFID model	OX2r	OX3r	OX6r	OX218r	OX318r
Print mode	Direct Thermal and Thermal Transfer				
Print resolution	203 dpi	300 dpi	600 dpi	203 dpi	300 dpi
Max. print speed	18 ips (457.2 mm/s)	14 ips (355.6 mm/s)	7 ips (177.8 mm/s)	12 ips (304.8 mm/s)	10 ips (274 mm/s)
Max. media width	4.72" (120 mm)			7.08" (180 mm)	
Max. print width	4.09" (104 mm)	4.16" (105.7 mm)	4.16" (105.6 mm)	6.6" (168 mm)	
Max. print length	196" (5000 mm)			118" (3000 mm)	
MPU	Quad-core 64-bit Arm® Cortex®-A53, max. 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 (RFID models only)				
Media roll	Max. media width: 4.72" (120 mm) Min. media width: 0.39" (10 mm)			Max. media width: 7.09" (180 mm) Min. media width: 1.18" (30 mm)	
	Max. outer diameter: 9" (228.6 mm) Inner diameter: 1.5" (38 mm) / 3" (76.2 mm)				
Minimum label length	Tear-off: 0.2" (5 mm)			Tear-off: 0.59" (15 mm)	
	Peel-off: 0.47" (12 mm), with peeled-label detection 0.2" (5 mm), without peeled-label detection				
	Cutter: 0.79" (20 mm)			N/A	
	Rewind: 0.2" (5 mm)				
Media thickness	Regular barcode label printer and regular RFID label printer: 0.0024" ~ 0.012" (0.06 ~ 0.305 mm), including liner.				
	On-metal RFID label printer②: 0.063" (1.6 mm) max., including liner.				
Ribbon	Max. length: 1968' (600 m) Max. outer diameter: 3.38" (86 mm) Inner diameter: 1" (25.4 mm) Ink side: in or out				
	Width: 0.79" to 4.33" (20 mm to 110 mm)			Width: 1.18" to 6.93" (30 mm to 176 mm)	
Media sensor	Top reflective: detects black mark on the front side. Bottom reflective: detects black mark on the back side. Transmissive: detects gaps, notches, holes.				
Fonts	Five built-in bitmap fonts, including the Basic Latin and Latin-1 Supplement character sets. Two built-in scalable fonts: one supports Latin, Greek and Cyrillic scripts, and the other is specifically a GB2312 Chinese character set. 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. 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-Purpose I/O Signal Interface for Applicator Control (Optional), Applicator Peripheral Logic Signal Wiring Terminal Block (Optional)
LCD display	4.5" capacitive LCD touchscreen
Power supply	100 ~ 240 VAC, 50/60 Hz
Weight	47.08 lbs (21.4 kgs)
Dimensions	W 12" (305 mm) x D 22.05" (560 mm) x H 16.06" (408 mm)
Operating environment	Temperature: 32°F to +104°F (0°C to 40°C) Relative humidity: 5% - 90% non-condensing Max. altitude: 5000 m
Storage environment:	Temperature: -40°F to +140°F (-40°C to 60°C) Relative humidity: 5% - 90% non-condensing

① HEAT™ (Heat Equilibrium Adaptive Tuning), developed by POSTEK, is a cutting-edge technology for controlling thermal printhead heating. With HEAT™, POSTEK printers significantly improve print clarity and print speed. The HEAT™ level represents the fineness of heating uniformity, with level I being the finest.

② For on-metal RFID tags, tag flexibility and whether fillers are used between tags can affect print quality and even the encoding success rate. We strongly recommend testing the tags on this POSTEK printer before purchasing them.

Optional Configuration

RFID verifier*	Externally mountable module (RFID models only)		
Visual verifier*	Three software packages are listed below for the visual verifier; users can choose one according to their needs and budget: 1. Verifies 1D and 2D barcode data. 2. Verifies 1D and 2D barcode data and grades printed barcode symbologies. 3. Verifies 1D and 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, as it passes the visual scanning area.)		
Auto peeler*	A dedicated peel roller set, together with an internal liner rewinder.		
Internal rewinder*	Max. rewind roll diameter: 8" (203 mm) 1. Second platen roller and pinch roller assembly. 2. Ribbon		
Ribbon saving kit*	take-up clutch. (An internal or external rewinder may be needed to use the Ribbon Saving function. The media is advanced by the second platen roller while the printhead lifts to save ribbon; a rewinder helps keep the media flat, without bending or buckling, as it passes the printhead area. Please contact a qualified professional to confirm.)		
Cutter	Type	Rotary cutter	
	Model	A150	A400
	Max. cut width	120 mm	120 mm
	Min. cut length	20 mm	20 mm
	Cut thickness (white cardboard)	0,20 mm	0,2~0,35 mm
	Cuts through adhesive	Yes	Yes
	Guaranteed cuts	600,000	600,000

*Factory dependent.



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