

OX SERIES LABEL PRINTER



A BLEND OF
ART AND TECH

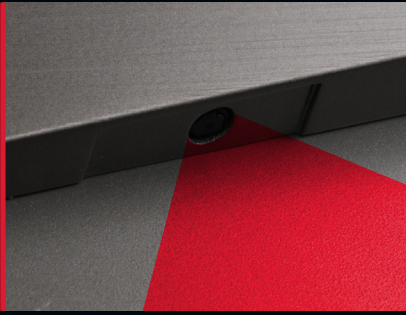
DESIGN

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.



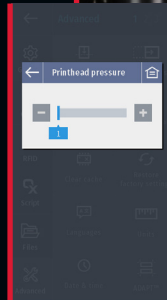


Real-time Visual Verification

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, and check the integrity of labels. If for any reason the printout doesn't meet the set standard, the printer will immediately notify relevant personnel through the LCD screen and the accompanying 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™ 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.



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 ± 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.



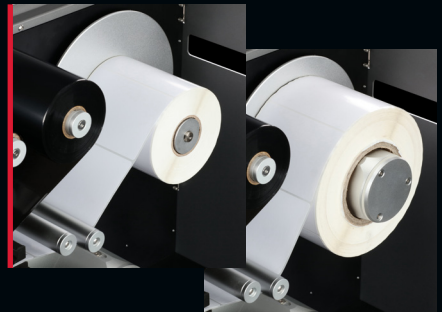
Optimal Ribbon Tension Adjustment Scheme

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.



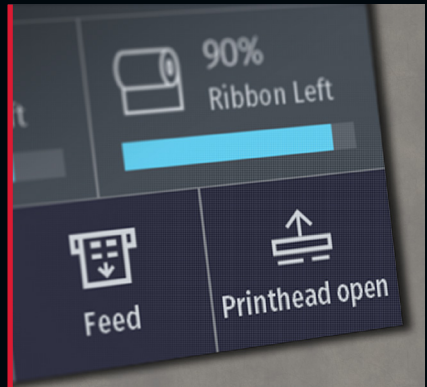
RFID Verification

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



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

| | | | | | |
|-------------------------|---|------------------------|-----------------------|---|----------------------|
| Model | OX2 | OX3 | OX6 | OX218 | OX318 |
| Model with RFID | 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 (254 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 | 64-bit, quad Arm® Cortex®-A53 core, maximum operating frequency 1.8 GHz | | | | |
| GPU | 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 Media Width: 7.09" (180 mm) Minimum Media Width: 1.18" (30 mm) | |
| | Maximum Outer Diameter: 9" (228.6 mm) Inner Diameter: 1.5" (38mm) / 3" (76.2mm) | | | | |
| Minimum Label Length | Tear-off: 0.2" (5 mm) | | | Tear-off: 0.59" (15 mm) | |
| | Peel-off: 0.47" (12 mm), with peeled-label detect 0.2" (5 mm), w/o peeled-label detect | | | | |
| | 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 | | | | |
| | Mount-on-Metal RFID Label Printer ^② : 0.063" (1.6 mm) max., including liner | | | | |
| Ribbon | 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) | |
| Media Sensor | Upper reflective: detects black mark on face side Lower reflective: detects black mark 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, Applicator Control General I/O Signal Interface (Optional), Applicator Peripheral Logic Control I/O Signal Wiring Terminal Block (Optional) |
| LCD Display | 4.5" LCD Capacitive Touchscreen |
| Power Source | 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 ~ +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™, 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

| | | | |
|--------------------|--|---------------|-------------|
| 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, 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.) | | |
| Automatic Peeler* | A dedicated set of peeling rollers, along with an internal liner rewinder | | |
| Internal Rewinder* | Maximum Rewind Roll Diameter: 8" (203 mm) | | |
| Ribbon Saving Kit* | Includes the following items: 1. The second platen roller & pinch roller assembly. 2. The ribbon take-up clutch. (An internal or external rewinder may be required to use the Ribbon Saving function. The media will be advanced by the second platen roller when the printhead lifts to save the ribbon. In this case, a rewinder can help keep the media flat without bending or buckling when passing through the printhead area. Please contact a qualified professional to confirm.) | | |
| Cutters | Type | Rotary Cutter | |
| | Model | A150 | A400 |
| | Max. Cut Width | 120 mm | 120 mm |
| | Min. Cut Length | 20 mm | 20 mm |
| | Cut Thickness (white cardboard paper) | 0.20 mm | 0.2~0.35 mm |
| | Cut Through Adhesive | Yes | Yes |
| | Cuts Guaranteed | 600,000 | 600,000 |

* Factory dependent.



POSTEK

RUGGED PARTS DURABLE MACHINES

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