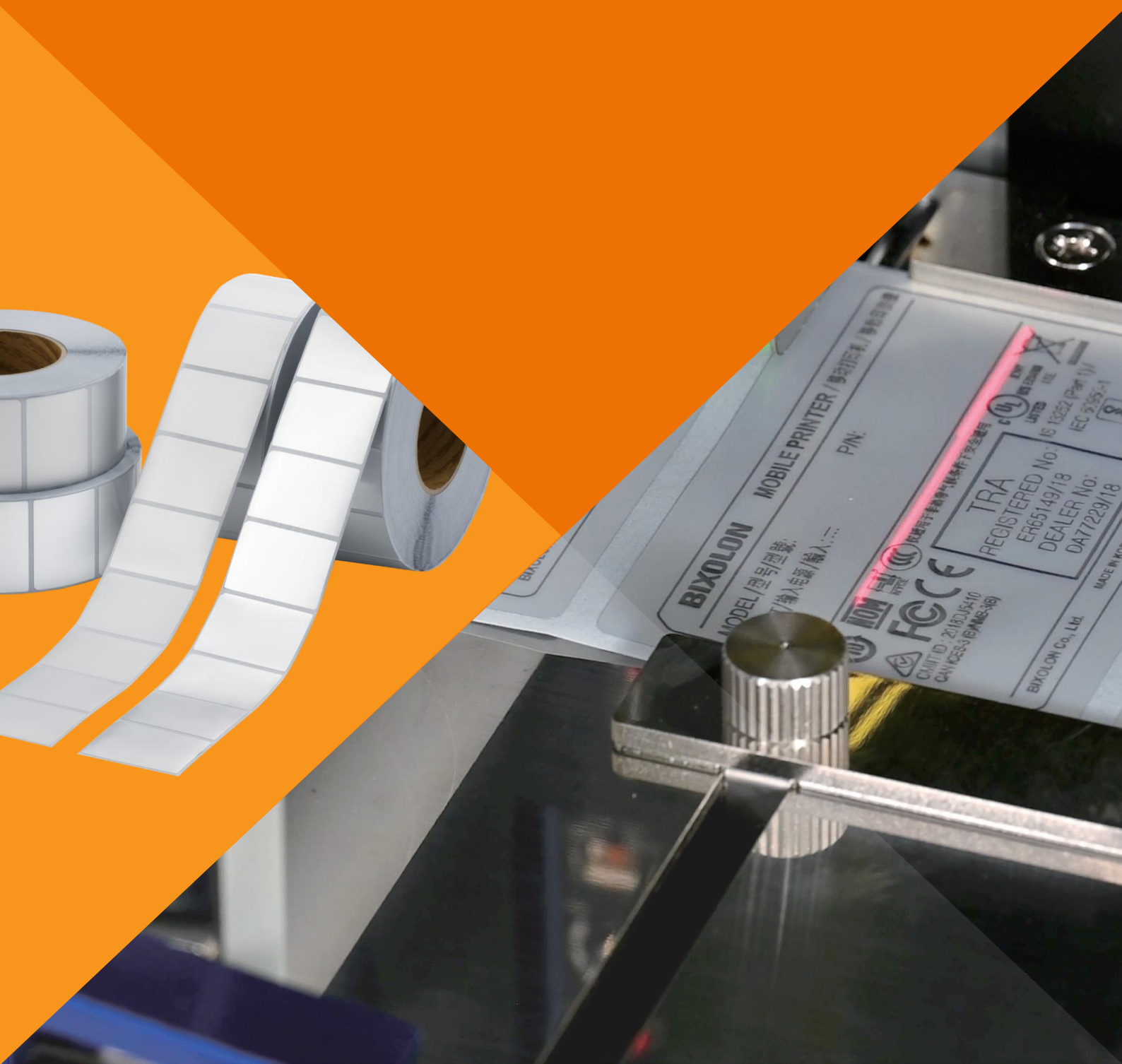


Laser Printing Solution

Laser Label Printer and Media



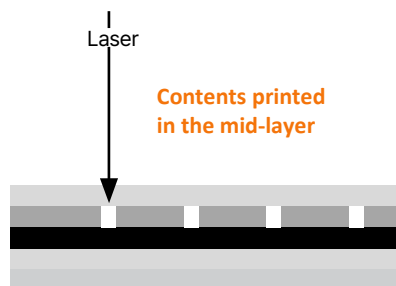
Durable Performance for Long-term Tracking

When labels must last, choose laser.

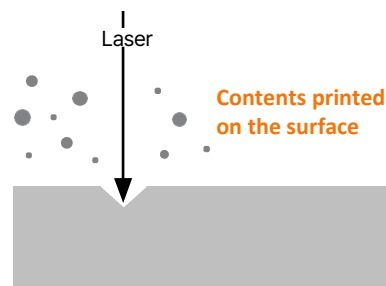
BIXOLON's laser label solution uses advanced laser technology to create highly durable, scratch-resistant labels without ink, toner, or ribbon. Built for environments where labels require longevity, the XLR-40 provides an ideal solution for asset identification, compliance labelling, and long-term traceability.

Why BIXOLON?

Both the BIXOLON Laser Label Solution and conventional laser markers produce durable, high-quality results. However, conventional laser markers engrave content directly onto the surface of the media, generating fumes during the marking process and typically require a suction system. BIXOLON's Laser Solution prints within the middle layer of B-laser Label™ Media, durable labels without engraving the surface. The outer surface of the media acts as a protective barrier, making the printed output resistant to abrasion, chemicals, and extreme temperatures. The XLR-40 ensures product traceability and authenticity for long-term maintenance and after-sales service.



BIXOLON Laser Printing



General Laser Marking



Durability

Laser-printed content is sealed beneath a protective layer-resistant to wear, UV exposure, moisture and extreme temperatures.



High Print Quality

Delivering precise print quality with resolutions of up to 2,000 dpi. A large amount of data can be printed in a compact yet clear label format.



Cost-efficient

With no ribbons or printheads to replace. Maintenance requirements are reduced, helping to minimise downtime and support cost-efficient operations.

BIXOLON Laser Solution Lineup

BIXOLON's laser label solution includes both a 4-inch laser label printer and laser labels, making it ideal for industrial applications where permanent, non-erasable labelling is required.

XLR-40

4-inch Laser Label Printer

- **Ultra-High Print Quality**
Resolutions of up to 2,000 dpi
- **Unmatched Longevity**
Stable laser printing performance over time (100,000 hours of laser lifetime)
- **Low Operating Cost**
No ink, toner, ribbon or TPH required
- **Label Design Software**
Fully compatible with Bartender®

B-laser Label™

Laser Label Media

The silver PET-based B-laser Label™ is engineered exclusively for the BIXOLON XLR-40 laser printer. Optimised for the XLR-40's mid-layer laser printing technology, it produces highly durable labels with long-term resistance to scratches, heat, and chemicals.

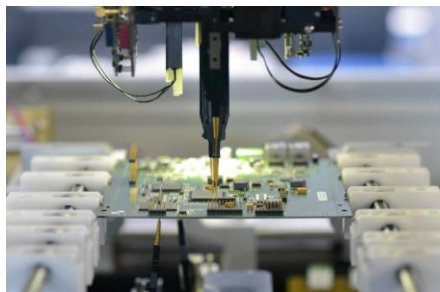
Customisation

- Flexible format options: jumbo rolls up to 1,080 mm wide, as well as slit-roll and die-cut converting options
- Additional capabilities: laminating and four-colour printing options available

Applications

Built for Demanding Environments

- Outdoor Equipment: Solar photovoltaics, pole transformers, and equipment exposed to UV rays, high temperature and humidity
- Consumer Electronics: Smudging-proof labels for long-term warranty and traceability
- Healthcare: UDI and serial numbers that withstand sterilization and harsh chemicals



XLR-40

4-inch Laser Label Printer



Specifications

Print Characteristics

Print Method
Laser
Print Speed
** Up to 3,000 mm/sec
Print Resolution
2,000 dpi
Printing Area
108 x 108 mm
Sensor
Transmissive (Adjustable)

Media Characteristics

Media Type
Gap
Media Width
17 to 114 mm
Media Roll Diameter
Up to 180 mm
Media Thickness
0.08 to 0.5 mm
Supply Method
Easy Paper Loading
Inner Core
76 mm

Laser Characteristics

Laser Type
Fiber
Laser Power
Up to 20 W
Wavelength
1064 nm
Cooling Method
Air-cooled
Wavelength
1064 nm
Pulse Energy
XLR-40J: 0.8 mJ
XLR-40M: 0.7 mJ
Frequency Range
XLR-40J: 20 to 600 kHz
XLR-40M: 20 to 80 kHz
Physical Characteristics
Dimensions (WxLxH)
290 x 510 x 405 mm
(11.42 x 20.07 x 15.94 inch)
Weight
XLR-40J: 31 kg (68.3 lbs.)
XLR-40M: Appr. 31.2 kg (68.8 lbs.)
Electrical
Internal Power Adaptor 100-240 V,
50/60 Hz
Display
STN/Blue LCD (Black light LED)

Performance Characteristics

Interface
USB
Environment Characteristics
Temperature
Operating: 10 to 35°C (50 to 95°F)
Storage: -10 to 60°C (50 to 140°F)
(non-condensing condition)
Humidity
Operating: 10 to 80% RH
Storage: 5 to 90% RH
(non-condensing condition)

Software
Driver/Utility
Windows® Driver

Fonts/Graphics/Symbologies

Fonts
TTF Windows Font
Graphics
Bitmap, Jpg

Accessories
Standard
Power Cord, USB Cable

** Printing speed is based on scanner performance (up to 3,000 mm/sec) and includes both printing (laser ON) and non-printing (laser OFF) movements. Actual printing time may vary depending on factors such as content, marked area, jump distance, resolution and acceleration/deceleration conditions.



B-laser Label™



Laser Label Media

Label Type

	Permanent	Restick
Matt Silver	MP (UL Certified)	MR
Glossy Silver	GP	GR

Permanent

- 1 Layer
- Suitable for permanent data security
- The printed information is destroyed upon removal or reapplication

Matt Finish

- Appearance: Dull, non shiny, smooth but flat
- Light reflection: Low (reduces glare)
- Perceived color: Softer and more muted
- Fingerprints/scratches: Much less noticeable
- Typical use: Industrial labels, security labels, barcodes, or where readability matters under strong lighting

Restick

- 2 Layers
- Removable and repositionable
- The printed content remains intact and does not peel off during reapplication

Glossy Finish

- Appearance: Shiny, reflective, mirror like
- Light reflection: High
- Perceived color: Looks brighter and more vivid
- Fingerprints/scratches: More visible
- Typical use: Branding where visual impact matters, premium or decorative labels. The GR model is preferred for transitioning from metal nameplates.

Comparison

Aspect	Matt	Glossy
Shine	Low	High
Glare	Minimal	High
Readability	Better in all lighting	Can suffer in bright light
Premium look	Subtle / professional	Flashy
Smudge visibility	Low	High

- Choose glossy if you want maximum visual impact
- Choose matt if you want readability, durability, and a low-key professional look

Specifications

	MP	MR	GP	GR
Colour	Matt Silver		Glossy Silver	
Material	Polyester (PET)			
Data Printing	Laser Print (Laser Type: Fibre)			
Thickness	50µm (+Adhesive20 → Total → 70 µm±5 µm)	85µm (+Adhesive20 → Total → 105 µm±5 µm)	50 µm	85 µm
Adhesive Strength	1000 gf/25mm			
Liner	Glassine (Thickness 53 µm, Weight 65 g)			

RANGE BROCHURE

YOUR PRINTING CHALLENGE SOLVED



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August 2026