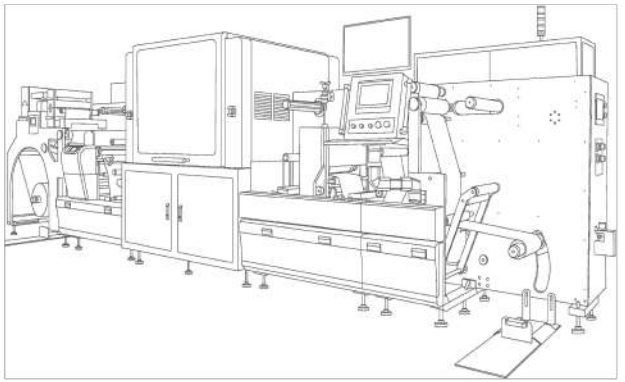
## Technical Parameters

| | |
|---|---|
| **Inkjet Configuration** | |
| Model | Lab 330S Hybrid |
| Printhead Resolution | 600 DPI |
| Max. Printing Width | 322 mm |
| Color Configuration | 4 - 7 Colors |
| **Technical Parameters of Flexo Unit** | |
| Max. Paper Width | 340 mm |
| Max. Printing Width | 330 mm |
| Printing Length | 203.2 - 635 mm (64 - 200 T) |
| Roll Diameter | 800 mm |
| Max. Paper Roll Weight | 230 KG |
| Printing Speed | 50 m/min |
| Intermittent Die-cutting Magnetic Roller | 508 mm (160 T) |
| Intermittent Die-cuttin | 101.6 - 467.25 mm |
| **Substrate** | |
| Type | PET/PVC/PP/PE/BOPP and Other Mono Film Materials, Synthetic Paper, Coated Paper, Aluminum Foil and Other Special Materials. |
| Material Width | 75 - 350 mm |
| Roll Diameter | 800 mm |
| Unwinder/Rewinder Core | 3" (Air Shaft) |
| Thickness | 0.02 - 0.5 mm |
| Feeding | Roll to Roll |
| Roll-changing Method | Automatic Lifting |
| **Ink** | |
| Ink Type | UV Ink |
| Color Configuration | Standard Model With White + CMYK, 2 Sets of Spot Color Are Optional |
| **Environment & Physical** | |
| Digital Tower | 1700 * 1585 * 2130 mm (L * W * H) |
| Power | AC380 V |
| Air Requirement | Industrial Compressed Air Source 0.6 - 0.8 M pa |
| Environment | Temperature: 18 - 25 °C, Independent, Clean, Low Dust, Less Light, Good Ventilation, Humidity: 40 - 65% (RH) |
| Input Format | TIFF, PDF, etc. |
| UV Curing | LED+UV Curing System (Modular Curing Design) |
| Data Transmission | High-speed PCIE Transmission |
| Additional Functions | Web Guide, Tension Control, Corona Treatment, Web Cleaner, Electrostatic Removal, Modules Led/UV Curing System, Web Break Sensor, Automatic Diameter Detection, Automatic Ink Consumption Detection, Fully Servo Control System |

# Lab 330S Hybrid

HYBRID COMBINATION DIGITAL LABEL PRESS



Inkjet Solution: 7 colors, cold foil/digital foil, Flexo and converting

# Focus on Label, Passion in Digital

The Lab 330S Hybrid sets a new standard in the industry with its outstanding productivity and flexibility. The inkjet unit offers versatile configurations, combining top-notch label printing quality with the multiple processes of flexo print-ing. It embodies the characteristics of digital printing, including flexibility, variability, diversity, and personalization. Furthermore, it leverages the advantages of cost-effective production and integrated connectivity in flexo printing for small to medium runs with complex processes. With one stop production line from print to finish , it reduces production costs, enables greater process variability, caters to a wider range of demands, and enhances market competitiveness.

## Module Functions

- Plug-in modular design
- New technology semi/full rotary flexo printing
- Traditional cold foiling
- Digital varnish
- Innovative drip off effect (enabling 3D embossed varnish effects)
- Integrated electrical cabinet within the module
- No need to invest on plate cylinders, reduce operating costs
- Digital cold foiling
- Traditional varnishing (high gloss, matte) with spot varnishing capabilities

## Combination Solutions (Optional)

### 7-Color Solution (Optional)

**Inkjet Printing Module**

- Maximum printing speed of 50m/min, offering flexible printing modes for various applications.
- New 7-color mode, expanding the color gamut to achieve coverage of 90% or more.

**Standard Configuration**
White + CMYK
(optionally available as double White).

**Optional Configuration**
Addition of 1-2 sets of spot colors (O, V, G options available).
Optional inclusion of 1 set or 2 sets of varnish (gloss/matte) or special effects such as 3D varnish and reverse varnish.

Our Lab 330S Hybrid's inkjet printing module provides high-speed printing capabilities with versatile color options, allowing for enhanced color representation and the application of various special effects, catering to different label printing requirements.

**Digital Foiling Module**

Optional integration of a digital foiling and lamination module to create an all-in-one production line, enabling efficient and seamless foiling processes.

- Utilizes digital inkjet technology for instant production.
- Meets the demand for personalized label customization and extends compatibility to a wider range of materials.

Lab 330S Hybrid offers the option to incorporate a digital foiling module, allowing for the integration of foiling and lamination processes into a single production line. By leveraging digital inkjet technology, this module enables on-demand foiling capabilities, providing flexibility for personalized label customization. Additionally, it extends compatibility to a broader range of label materials, ensuring versatility and efficiency in the production process.

**Flexo Printing Module**

- Twin servo flexo system

  Innovative semi/full rotary flexo system for swift execution of diverse label orders. | Intermittent flexo offers enhanced flexibility without the need for changing plate cylinders, resulting in significant reduction in upfront consumables investment.

- Support the addition of multiple colors.
- Can be flexibly installed before or after the inkjet printing unit.
- Enable multi-functional one-pass production.
- Achieve true Pantone® coverage for accurate spot colors.
- Ideal for multi-layer label printing applications.
- Support special label applications such as temperature-changing, water-changing, impact labels, heat transfer, water transfer, and more.

The new Lab 330S Hybrid is a versatile machine that combines the benefits of digital printing with various features. In addition to supporting multi-color digital printing before or after the printing process, it also enables accurate spot color printing. To address the needs of short runs and cost efficiency, we have developed an innovative intermittent/full rotary flexo system that eliminates the need for changing different-sized plate cylinders. This significantly reduces print-ing costs. By combining digital and flexo printing, the Lab 330S Hybrid opens up a wider range of possibilities for special label applications, expanding the capabilities of the machine.

**Traditional Cold Foiling Module**

- Combines traditional cold foiling with multi-color printing on foil to create a foil-on-print effect, resulting in various metallic glossy effects.
- Offers precise and intricate foiling, producing clear and visually appealing patterns with long-lasting glossiness.

**Die-cutting and Converting Module**

- Integrated modular design for die-cutting and finishing processes, allowing for seamless production and inline finishing.

  Comprehensive functions include lamination, semi/full-rotary die-cutting. | Semi rotary die-cutting eliminates the need for change of magnetic cylinders, reducing production costs.

- Features a snowball waste removal system for stable matrix rewind.
- Equipped with a lifting rewind system for easy roll handling.
- Additional collection functions can be customized to meet your specific requirements.

The Converting functions offered by our machine provide a range of options to enhance your printing and finishing capabilities. The integrated die-cutting module allows for seamless production and convenient roll-to-roll processing. With features like semi/full-rotary die-cutting, there is no need to change magnetic cylinders, reducing production costs. The snowball waste collection system ensures efficient waste removal, maintaining a clean work environment. Additionally, the lift-up rewinding system enables easy handling and collection of the finished products. These die-cutting functions offer versatility and efficiency, allowing you to create custom shapes and achieve high-quality results in your printing projects.



## Expend Your Imagination

**Plug and Play module system for future expansion on your need.**

**The design allows for the extension of color modules and die-cutting modules, facilitating the handling of more complex jobs in the future.**

**Unlock new functionalities and features to maximize productivity and efficiency.**

| Stable Color | Superb Short Run | Variable Data and Color QR Code |
|---|---|---|
|  |  |  |

## CGS Color Management Features (Optional)

- Color rebalancing optimization that saves an average of over 10% ink consumption
- Built-in Pantone color library for more accurate spot color matching
- Unique honeycomb-style spot color swatch chart for faster spot color matching
- International standard color management output compliant with G7, Forgra, ISO12647 certification standards
- Faster drying speed while ensuring image quality
- Color matching for various printing methods

## Industrial Digital Printing Solution Provider