

Parameters

Model	LabStar330S Hybrid
Production Mode	
Max. Print Speed	50 m/min
Max. Resolution	600 DPI
Ink Configuration	
Ink Type	UV Ink
Color Config	Standard mode: W+CMYK(Optional Double White); Optional: 3 spot colors (O, G, V)
Print Substrates	
Applicable Materials	PET/PVC/PP/PE/BOPP films, cardboards, aluminum foil, etc.
Material Width	75-350 mm
Max. Print Width	322 mm
Max. Roll Dia.	800 mm
Roll Core Dia.	3" (air shaft)
Material Thickness	0.02-0.5 mm
Feeding Method	Roll-to-roll
Roll Change Method	Dual-arm pneumatic lifting
Equipment Specifications	
Dimensions	Digital Unit(excluding unwind and rewind): 1698*1584*1922 mm(L*W*H)
Net Weight	Digital Unit(excluding unwind and rewind): 1500 KG
Power	40 kW / AC 380V
Air Requirement	Industrial air source, 0.6-0.8 MPa, clean and water-free
Operating Temperature	18-25°C, independent, clean, low-dust, low-light, well-ventilated
Relative Humidity	40-65%(no condensation)
Input Formats	TIFF, PDF, etc.
UV Curing	Combined UV drying (LED + UV Mercury)
Data Transmission	High-speed PCIE
Additional Features	Tension detection, corona treatment, dust removal, static elimination, modular drying, paper break detection, print height setting, automatic ink consumption detection, full servo control system, etc.

Industrial Digital Inkjet Comprehensive Solution Provider



Independent printhead-drive technology



Self-developed control system



Self-developed MES system



Independent ink industrial chain



Remote service maintenance system and local services

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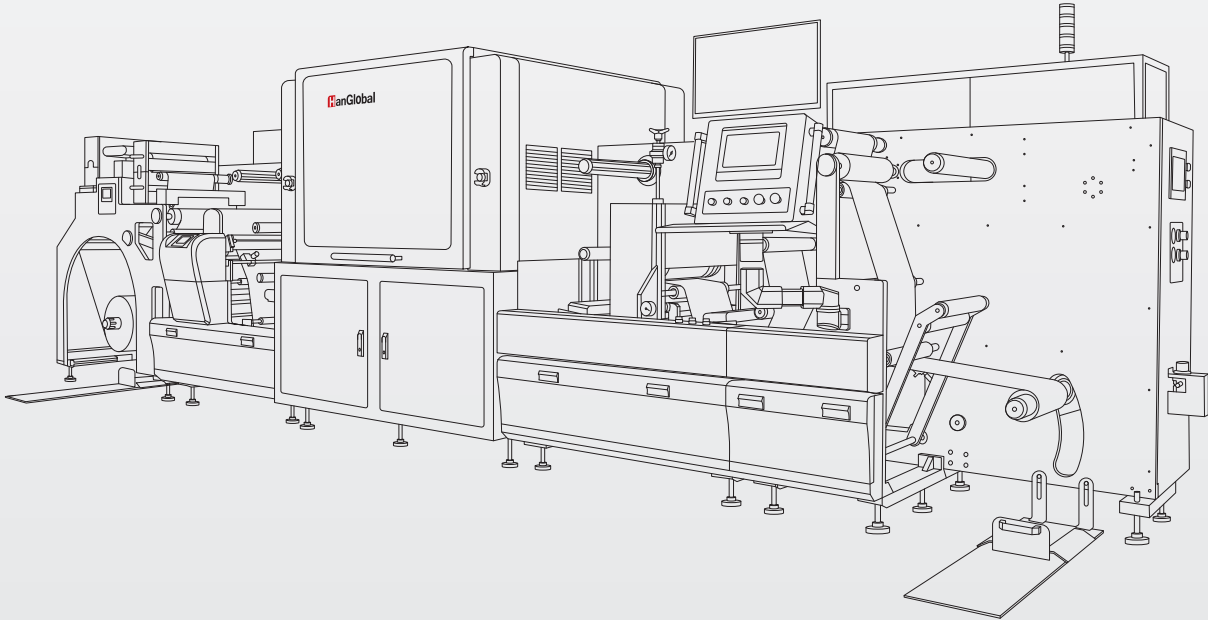


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LabStar330S Hybrid

Hybrid Inkjet Label Printing Production Line



600 DPI
Max. Resolution

50 m/min
Max. Print Speed

322 mm
Max. Print Width

Flexible Modular Configurations:

7-color digital printing, multi-color flexo, letterpress, hot stamping, adhesive-side printing, lamination, die-cutting, matrix removal, non-stop unwinding/rewinding, automatic splice avoidance, inline digital enhancement, etc.

「Digital + Flexo」 Diversified Combination Solutions

The innovative hybrid printing model of "Digital Printing" and "Flexo Printing" enables a virtually limitless combination of digital label inkjet technology with traditional processes. This breaks down the barriers between different printing methods, offering unprecedented creative capabilities and supply chain flexibility.



Key Advantages of Digital Printing

Digital inkjet printing requires no plates, allows for on-demand direct printing, and supports efficient, flexible job changes without machine stops. It enables high-definition VDP. This perfectly matches the current demand for short-run, multi-variety, fast-delivery, small-batch, and multi-process label printing, aligning with SKU expansion and customized marketing trends.

Key Advantages of Flexo Technology

Flexo delivers high speed and low cost for long-run printing, high solid color density, and efficient, uniform printing for large-area background colors. It performs excellently on film substrates such as PET, BOPP and PE, and can be further integrated with inline finishing processes (e.g., die-cutting, hot stamping, varnishing) to enable diverse applications including multi-layer labels, transfer labels and anti-counterfeit labels.



LabStar330S Hybrid

Seamlessly integrate material unwinding, printing, enhancement, and finished product slitting/rewinding into a single automated line. Combine multiple processes for one-pass label production, boosting efficiency, reducing labor costs, and delivering premium labels.



Optional Solutions

• 7-Color Digital Inkjet

Standard Model

- W + CMYK

Optional Configurations

- Add 1-2 spot colors (O, V, G optional)
- Supports optional configuration of 1-2 sets of inkjet varnish/matte varnish/3D varnish/reverse varnish, etc. to achieve special effects
- Optional digital hot stamping&laminating module for an integrated line, enabling inline cold stamping



• Multi-Color Flexo

Supports Multi-color Addition

- Compatible with multiple printing technologies
- Meets multi-functional one-pass streamline production
- Flexibility at your own needs before or after inkjet

High-Precision Spot Colors

- High solid color density, efficient and uniform printing of large background areas
- Excellent performance on film materials such as PET, BOPP, and PE
- Special label applications (multi-layer labels, transfer labels, anti-counterfeit labels, etc.)

• Hot Stamping Enhancement

Pioneering Digital Hot Foil Stamping

- Breakthrough achievement of digital plateless hot stamping, capable of 0.1mm ultra-fine line hot stamping
- Precisely presents over 10 special metallic effects such as rose gold, matte gold, and laser gold
- Supports partial and full-area hot stamping, meeting the complex texture hot stamping needs of luxury labels

Cold Foiling

- A flexible hot stamping solution without a heat source, friendly to heat-sensitive materials
- Higher process flexibility, supporting front and back cold foiling, reducing costs and processes
- No need for traditional hot stamping heating devices, saving processes and costs

Holographic Flat-bed Online Positioning Hot Stamping (Optional Configuration)

- Based on flat-bed hot stamping, integrating holographic imaging technology and real-time positioning system to achieve high-precision hot stamping and anti-counterfeiting information
- Responsible for combining holographic patterns with online positioning hot stamping, providing precise traceability performance for high-value products (e.g., luxury goods, pharmaceuticals)
- The holographic effect gives labels a unique luster and three-dimensionality, overlaying with the metallic texture of hot stamping to create a luxurious visual experience



• Varnish Enhancement

Varnish/Matte Varnish

- Flexible enhancement, free switching between spot varnish, matte varnish, or full-area varnish
- Simple process, excellent durability, smooth varnish edges, and good uniformity
- Fine line texture varnish inkjet printing, min. can reach 0.07 mm

Reverse Varnish

- High-contrast relief and light/shadow effects are widely used in labels for daily chemicals, wine, etc.
- High hardness, high abrasion resistance, smooth touch, environmental safety, and low odor after drying
- Simulates reverse varnishing to achieve various effects such as fine sand, medium sand, and coarse sand, completing the comparison of varnish height differences on the same plane in one go

• **Inline Digital Enhancement**

Industry-Innovative Hanlabel Ultra Digital Enhancement Unit

- Supports standalone offline application or inline enhancement with digital printing machines, flexibly responding to label processes on demand
- Simultaneously achieves digital cold and hot dual stamping (first of its kind), rich varnish overprinting, and fine 3D text effects, replacing rotary screen printing
- The printheads have automatic cleaning, moisturizing, and waste ink recovery functions, adapting to a wider range of label materials, such as heat-sensitive ones

72 m/min
Max. Capacity

4800*1200 DPI
Max. Precision

0.3 mm (max.)
Varnish Thickness

• **Backside Adhesive Printing**

Innovative Combined Process Achieves More Precise Front-to-Back Registration

- Combining the backside adhesive printing unit from the flexo units to the end of the LabStar digital inkjet unit
- Ensures the safety of the material for secondary compounding with the printheads and front-to-back registration, controlling front-to-back printing errors within ± 0.1 mm
- Widely used in the food, pharmaceutical, daily chemical, and electronics industries to increase the displayed content within the same area and enrich the diversity of labels



• **Letterpress Solution**

Diverse Processes for Special Effects

- Letterpress ink provides stronger adhesion on top of digital ink, enabling more outstanding cold foil results
- Using the letterpress unit to apply varnish over digital ink is compatible with subsequent thermal transfer ribbon (TTR) printing
- Letterpress matte varnish provides a superior matte texture and finish

• **Screen Printing Solution**

Diverse Processes for Special Effects

- **Strong compatibility with special inks:**
such as fluorescent ink, thermochromic ink, suitable for thick film printing (50-300 μ m)
- **Outstanding opaque printing capability:**
digital printing machine adapted with rotary screen unit, applied for light blocking on special electronic products. Screen printing features large ink volume, strong adhesion, and good opacity
- **Low-cost small batch advantage:**
plate-making cost is lower than letterpress, suitable for small orders of high-end personalized customization



• **Lamination Process**

Integrated Lamination into One Streamline Process

- Supports a rich variety of film types such as BOPP, PET, glossy, matte, and mono films
- Automatic tension control prevents film stretching and deformation, enabling integrated inline compounding production

• **Die-Cutting Process**

Integrated Converting into One Streamline Process

- Flexible selection of intermittent die-cutting and full-rotary die-cutting on demand, with integrated automatic cutting and forming
- Worry-free cutting of irregular labels, and no need to change magnetic anilox rollers, reducing production cost
- Flat-bed die-cutting has low cost and fast delivery, customers can choose the die-cutting method according to actual needs



• **Matrix Removal Process**

Integrated Matrix into One Streamline Process

- Non-stop matrix removal or snowball matrix removal are optional, improving waste material handling efficiency
- Direct post-die-cutting waste removal eliminates secondary processing

• **Continuous and Intelligent Production**

Non-stop Unwinding & Rewinding & Auto Splice Avoidance

- Automatic unwinding and rewinding technology allows for easy loading and unloading of large orders without stopping, reducing material changeover waste
- If anything drops on the material which exceeds the print height, the inkjet unit will automatically detect it and stop the press



Ink & Applications

High-Performance UV Ink

We keep developing high-performance UV ink for better weather resistance, faster drying, and vivid colors. They offer great print quality with less ink and are eco-friendly.

- Fast-Drying
- Strong Material Adaptability
- Enhanced Weather Resistance
- High Color Saturation
- High Abrasion Resistance
- High Sunlight Resistance

Printing Substrates

Papers	Films	Specials
Coated paper, matte paper, thermal paper, etc.	Such as BOPP, PE, PP, PET, etc., bright silver, aluminum-plated & in-mold materials	Unlimited length (long images achievable via tiling) metal aluminum foil, ABL/PBL, gold/silver/white/grey card cartons, etc.

Wide-Ranging Applications

Cosmetics & Personal Care

3C Labels

Apparel

Logistics & Warehousing

Food, Beverage, Wine Labels

Cosmetic Packaging

Flexible Packaging

Pharmaceutical Labels

Heavy & Heavy Chemical Industry Labels

VDP

Special Packaging

Authorized Certifications

HanGlobal’s LabStar digital inkjet printers have earned multiple international authoritative certifications. This not only puts the company on par with global advanced standards in color management, process norms and printing QC, but also, via authoritative endorsement, highlights its strong, well-honed and burgeoning capabilities in digital inkjet printing.



Achieved Fogra PSD Certification Setting a New Standard in Digital Printing

- **Color Accuracy:** Achieving consistent and precise color reproduction.
- **Process Control:** Ensuring repeatable and stable printing production.
- **Workflow Compliance:** Using a PDF/-X workflow to guarantee consistent quality and color fidelity.



Achieved Idealliance G7® Colorspace Certification

- Data-driven and standardized production processes.
- Maintaining long-term, stable, and repeatable printing quality.
- This accomplishment ensures our clients receive prints with superior color accuracy and consistency.

Core Strengths

HanLabel is jointly established by HanGlory Group (HanGlobal) & Label Source, proudly launching the LabStar series Hybrid multi-process label printing combination production line, integrating multiple pioneering technologies, fully inheriting HanGlory Group (HanGlobal)'s strong capabilities in label digital printing and Label Source 's profound accumulation in traditional flexo processes, providing customers with "full-scenario" solutions for high-speed label delivery

Strong Combination of Digital and Traditional

• Mastering Core Digital Inkjet Technology

- Possesses the ability to independently research and develop core printhead drive systems and overall control systems
- Proficiently masters the application of industrial-grade Single Pass technology and piezoelectric inkjet technology
- Collaborating with international inkjet giants, inheriting over 10 years of stable inkjet production experience
- Mastering special printhead splicing, software and hardware processing, etc., providing comprehensive technical support

• Perfect Inheritance of Core Flexo Technology

- Inheriting over 20 years of rich experience in the label machinery industry, with solid technical strength
- Powerful multi-process expansion capability, integrating various traditional printing technologies
- Mastering core label machinery technologies such as high-precision registration and web tension control
- Closely following international market demands, innovatively achieving personalized customization of various processes



Diverse Technology & Function Support

• Stable Web Feeding Design

- **Short rainbow bridge for precise registration and printhead protection:** ultimate registration precision, avoiding printhead scratching due to material warping
- **Printhead linear splicing and stitching technology:** achieves seamless full-page graphic printing, printhead positioning accuracy can reach micron level
- **Printhead alignment temperature control system:** Avoid print variations due to over heating of printheads, no color difference during continuous operation, stable color for long orders and reorders
- **Servo unwinding and rewinding system:** stable tension, one-button lift for easy roll change, efficient and smooth feeding for super large paper rolls.
- **Multiple water cooling systems** (printheads, UV water-cooled rollers, baseplate, etc.): supports thermal paper, heat shrink film, single-layer film, etc.

• Intelligent Printing Design

- **Seamless job change system:** unlimited plate length, seamless pattern printing, over 90% of label materials do not require pre-coating
- **Intelligent operating system:** integrated control interface, convenient, worry-free, easy to learn, easily achieving one-person multiple-machine operation
- **Order management system:** supports file loading without stopping, flexible adding, inserting, deleting, and reordering jobs
- **Full-color variable data:** supports various dynamic variable data & graphic printing, precise details clearly recognizable
- **Intelligent standby design:** instant production recovery, truly achieving "print one piece" ultra-short order production

• Cost Saving Design

- **Super save intelligent paper saving system:** intelligent back-tracing for continuous printing, saving waste during job changes
- **Innovative mechanical structure design:** integrated, modular, requiring less floor space
- **Re-registration function:** significantly reduces material and time waste during overprinting
- **Accurate ink volume calculation software:** achieves ultra-low ink consumption, precisely controlling ink costs

• Printhead Protection Function

- **Warpage detection and automatic avoidance technology:** protects printheads, reduces downtime, and prevents material waste
- **Comprehensive material thickness & paper break detection:** prevents printing interruptions, material arching and rubbing against printheads
- **Fully automatic printhead maintenance function:** integrated control interface for easy operation, extremely low maintenance costs
- **Anti-power-outage negative pressure protection system:** no ink leakage during sudden power outages, continuous and stable order printing.