

PROGRESSIVE DIGITAL LABEL PRODUCTION

LabelStream 4000 series



VALUE CHAIN DYNAMICS

Today's marketplace is characterised by an extremely high complexity. Spurred by intense competition and globalisation, shorter product innovation cycles and turnaround times are critical success factors.

Digital printing offers distinct benefits that are a perfect fit for the emerging requirements of the packaging value chain. It can increase manufacturing flexibility with just-in-time and on-demand production. In addition, the inherent capability of digital printing to change content and artwork with ease makes it a powerful tool make communication more effective and drive sales with shorter time-to-market. Target group specific messaging from versioning to personalisation helps to grow revenues, extend market shares and build brands.

To be successful in today's challenging market environment you'll need to deliver outstanding performance along the three major business dimensions: Time, Cost and Value.

Be responsive

Get the job done

- · Short lead times
- Fast turnaround
- Time-to-market





Time

Reduce waste

Manage costs

- Optimised inventory
- Less overproduction
- Economic short runs





Cost

Reach your audience

Impress your audience

- Custom content
- Vibrant colours
- Striking embellishment





Value

The growing acceptance of digital printing in the self-adhesive label market requires new production methods to cope with rising demand. Established technologies cannot fully meet the new market requirements and keep up with the ever changing market dynamics. A new level of digital productivity

is needed to cost-efficiently produce short to medium runs on an industrial-scale. Short lead and turn-around times, customised content, high print quality and inline finishing and embellishment will give brands a boost while meeting the most demanding supply chain challenges.

LABELSTREAM 4000 SERIES

One platform, limitless opportunities

Building on reliable UV inkjet technology and robust web transport, the six-colour press (CMYKO and White) offers print speeds of up to 75 m/min and two print widths of 330 mm (13") or 410 mm (16"), resulting in an industry-leading overall output of 1,845 m²/hr. It offers minimal setup times, flexibility to mass-customise contents and artwork, whilst enabling the shortest possible time to market. With two distinct setups the LabelStream 4000 platform provides a choice for different demands:

CORE Upgrade your business



The LabelStream 4000 **CORE** unit is the ideal entry into the world of high performance UV inkjet printing. Building on a cost-efficient, yet powerful base unit, various options are available to further expand the press setup to meet additional requirements.

HYBRID Inline file-to-finish conversion



The LabelStream 4000 **HYBRID** configuration offers a custom mix of UV flexo, embellishment and finishing units, turning it into a fully integrated single-pass label conversion line. This mix of conventional and digital technologies enables a complete inline production of high-quality self-adhesive labels.

LabelStream provides a total package along the four dimensions Performance, Impact, Growth and Partnership to meet highest expectations with benchmark production efficiency and dependable output, whilst providing consistent results on a wide range of media.

> PERFORMANCE

Benefit from exceptional productivity!

Based on reliable UV inkjet technology, print speeds of up to 75 m/min with two print widths of 330 mm (13") and 410 mm (16") ensure industry-leading productivity of up to 1,845 m²/hr. In hybrid configurations a high level of integration with optimised synching and setup management further supports production efficiency.

> PARTNERSHIP

Canon - your trusted partner!

Canon offers a complete package consisting of innovative technologies integrated into comprehensive end-to-end solutions supported by first-class technical service and professional services including colour and workflow consultancy, project management and business development.

> GROWTH

Configure the system to your needs!

Choose additional components to add value or to drive operational efficiency of the Core unit.

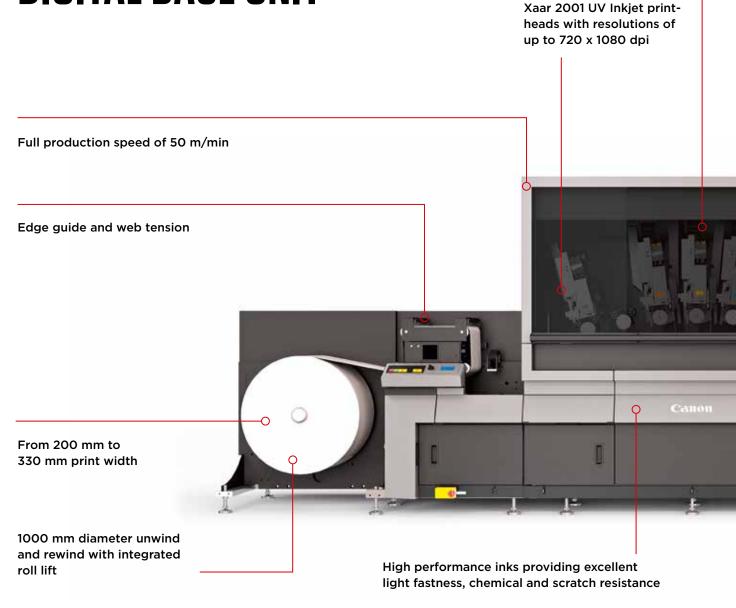
- Enhance productivity with higher speeds and wider print widths
- Extend the colour gamut with Orange and add high-performance White
- Include a pre- or post-digital UV flexo unit for spot colours or coating

> IMPACT

Get customer attention with quality and content!

- Large colour gamut & vibrant colours
- Screen-like white opacity of up to 80%
- · Customised content and targeted messaging
- Flexibility for trigger-based campaigns
- Inline embellishment in hybrid configuration

CORE: A POWERFUL DIGITAL BASE UNIT



GROWTH PATH: FOR MORE TO COME

Colour channels

The Core unit can be extended with additional digital colour channels:

- White to attain flexo-like opacity levels in a single-pass (>70%) at production speed or up to 80% at slightly reduced speed (Alpine White).
- Orange to enhance the coverage of Pantone colour gamut up to 96% and to match important brand colours without compromise on speed.

Web treatment

Optional web treatment components to safeguard a reliable high quality production:

- Corona treater prepare the substrate for excellent adhesion
- Web cleaner choose between single or dual-sided contact or non-contact to remove dust and debris

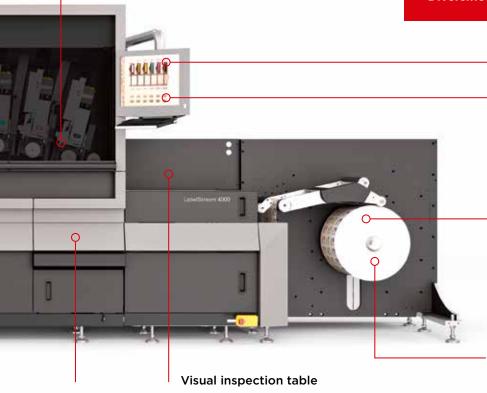
Super-sized CMYK colour gamut (610 cubic Δ E) and excellent colour consistency, up to 6 colours (WCMYKO)

LED Intercolour pinning after each colour to manage dot gain

New feature highlights

LabelStream has received major updates regarding colour, productivity and Total Cost of Ownership (TCO). The following features are now available for both the CORE and HYBRID configuration:

- Alpine White: screen-like digital White with up to 80% opacity
- Orange gamut extension: optional 5th colour to further enlarge the already super-sized CMYK colour gamut
- Enhanced job management features
- Improved synching of digital and analogue modules
- New entry-level configuration
- Diversified service and pricing models



Single-point of operation

Open workflow architecture for easy integration in existing workflows; Integrated VDP support

Wide range of standard label stocks including PP, PE, PPET, paper and cartonboard from 40 to 600 microns

Up to 430 mm media width

Web transport built on a proven label printing press

Productivity

Increased production efficiency for higher volume demands or peak production capacity.

- Print speed: optional print speeds of up to 75 m/min for highest performance requirements, resulting in an overall output of 1,845 m²/hr (at 410 mm print width).
- Print width: optional 16" (410 mm) extended print width for a 25% productivity boost and web width flexibility.

Flexo lite

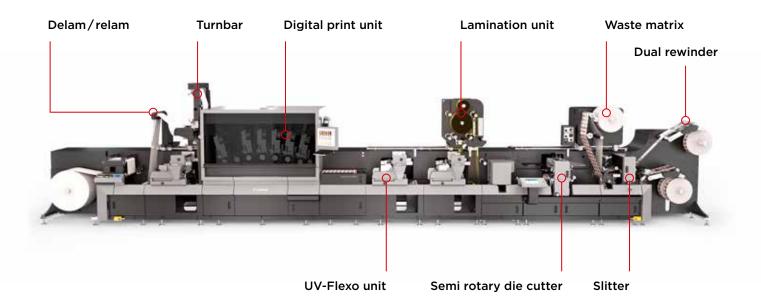
Extend your digital production unit with spot colours, varnishing and coating capabilities to meet the most common protection and embellishment needs in a simple and cost-efficient manner.

- Pre flexo unit for additional spot colours or flexo white
- Post flexo unit for additional spot colours or coating and varnishing



Inline file-to-finish label conversion

Hybrid printing combines the benefits of digital with conventional converting techniques to balance application costs and quality for the most cost-efficient production. The system can be expanded to a full hybrid configuration with a custom mix of additional flexo, embellishment and finishing units turning it into a fully integrated single-pass label conversion line to meet various demands and budgets. This mix of conventional and digital technologies enables fast and affordable production of high-quality self-adhesive labels.



Hybrid press options UV-Flexo units Turnbar Delam/relam Semi rotary die cutting Full rotary die cutting Cold foiling Lamination Varnish Waste matrix Dual rewinder Slitting

LabelStream provides accurate registration and fast sync between flexo and digital. It requires minimal operator intervention, in order to drive uptime and high quality output, whilst reducing waste. The seamless interplay of the two technologies, driven by LabelStream's central control panel, allows for easy recalling of job settings and automated job setup. Job changes can take effect, on-the-fly, without halting the press to adjust digital and analogue components.

CANON - YOUR TRUSTED PARTNER

The Canon inkjet DNA as basis for your success

As worldwide No. 1 in inkjet webfed printing and technology leader in UV inkjet based large format printing Canon identified the key factors of our customers for a successful digital printing business. This experience and insights became part of our DNA over time, influencing our strategies, products and services to help our customers build a profitable business. However, there is no shortcut to true inkjet DNA. It has grown and evolved with each installation of more than 1,600 high-volume inkjet presses and 8,500 UV-based Large Format Printing systems.

Business Model		Bespoke business development
Service	<u> </u>	Maximum uptime and availability
Solution		End-to-end solutions from file-to-finish
Technology		Best of class technology components

Worry-free operation

Matched to your business situation and production environment, we develop solutions, establish the corresponding work processes, and instruct your staff for the operation, and daily maintenance of your printing presses. Your uptime is our highest priority! We provide maintenance contracts according to your needs – with service levels supporting extended working hours and reaction times as fast as two hours (depending on local service capabilities). Our service models are fully proven and tested in many multi-shift operations printing high volume applications, enabling our customers to meet tight deadlines.

Dense service network

~250 service technicians in Central Europe dedicated to inkjet production printing to keep your production up and running.

Sophisticated logistics network

The spare parts you need are nearby thanks to our global logistics network.

Tailored service models

Choose between various service models depending on your needs.

Professional Services & Training

Operator training and consultancy for colour, workflow and applications completes the package.

Comprehensive service model

- Local presence in each country (Central Europe)
- Travel and labour cost
- Spare parts
- Replacement parts (inc. printheads)
- Preventive maintenance
- Remote diagnostics
- Service for digital and analogue components
- 2 hour qualified call back in local language*
- 4 hour on site*
- Extended hours (standby)
- 2 hours on-site (depending on local availability)
- included optional

tional *during office hours

TECHNICAL DATA

LabelStream 4000 series at a glance

Print Modes

Performance $720 \times 720 \text{ dpi at } 75 \text{ m/min (>65\% white opacity)}$ Quality $720 \times 1,080 \text{ dpi at } 50 \text{ m/min (>70\% white opacity)}$ Alpine White $720 \times 1,080 \text{ dpi at } 36 \text{ m/min (80\% white opacity)}$ Graphics $720 \times 360 \text{ dpi at } 50 \text{ m/min}$

Media & Print Width

Digital print width 330 mm | 410 mm
Flexo print width 420 mm
Web width 430 mm

Technology

Printing technology

Single pass UV inkjet

Xaar 2001+ UV hybrid side shooter® with variable dot size and greyscale technology

Productivity 792-1,845 m²/hr
Ink/colours UV CMYK
Optional colours UV White and Orange

Media

Thickness 40 – 450 μm (hybrid) 40 – 600 μm (digital)

Type

Backed liners: e.g. PE, PP, PVC, PET, paper (uncoated, coated)

Linerless/unsupported: e.g. Kraft, carton, BO-PET, BO-PP, metallised film

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