

HP Indigo WS6800 Digital Press



A high-performance, high-quality narrow-web labels and packaging solution



Driving an unmatched range of applications

The HP Indigo WS6800 Digital Press is the market-leading narrow-web printing solution for digital labels and packaging production, delivering high productivity, wide versatility, and intelligent colour automation.

High productivity

The press delivers high productivity for the vast majority of labels and packaging jobs. Produce up to 131 linear feet per minute in colour. Advanced colour automation and sophisticated colour matching tools make it fast and easy to hit brand colours with extreme accuracy, consistency and repeatability from the first print to the last.

The leader in print quality and colour

HP Indigo's superior liquid ElectroInk technology is the only digital colour printing process that matches gravure printing, delivering high resolution printing and perfect registration. Converters can meet even the most stringent corporate branding requirements using 7 ink stations and a colour gamut reaching up to 97% of PANTONE® colours.

The choice of brands

Brands around the world such as Coca-Cola, Budweiser, Nestle, P&G, and Oreo use the HP Indigo WS6000 Digital Press Series for its print quality and versatility to respond to market challenges and stay competitive. HP Indigo can address SKU proliferation and seasonal redesigns, optimise supply chains, and produce mass customisation for campaigns that boost sales. Variable data capabilities for brands include HP SmartStream Mosaic unlimited designs, barcodes, text, images and security features.

Application versatility

The press is a unique solution allowing converters to produce any narrow-format label, flexible packaging, sleeve, IML, wrap-around labels or folding cartons job, with easy and quick changeovers. It supports 12 to 450 micron materials, including standard substrates with in-line priming. HP Indigo ElectroInk Premium White delivers high-opacity white in a one-pass process.

End-to-end workflow

Benefit from the HP Indigo workflow ecosystem including the high-automation Workflow Suite Powered by Esko, and an array of integrated MIS, pre-press and converting solutions from partners.

Reinvent print production

HP PrintOS is a print production operating system with apps that help you get more out of your HP Indigo presses, and simplify and automate your production. Access the open and secure cloud-based PrintOS platform anytime, anywhere.



Boost your sustainability

The HP Indigo WS6800 Digital Press is manufactured carbon neutral, and offers reduced production waste, a takeback program, and energy efficiency. Certified with the Intertek Green Leaf Mark. The Regenerated Imaging Oil (RIO) system allows the press to be self-sustainable in imaging oil usage.

CO₂ neutral

To learn more, visit hp.com/go/graphic-arts
or hp.com/go/hpindigoWS6800

Industry benchmark in labels and packaging production

Leading digital quality

High resolution printing. HP Indigo's liquid electrophotography (LEP) technology, using HP Indigo ElectroInk with minute ink particles, delivers crisp linework, attractive images and smooth vignettes with a very thin ink layer that gives uniform gloss between the ink and substrate.

Widest digital colour gamut. Emulate PANTONE® colours on press using CMYK or HP IndiChrome's 6- or 7-colour process. True spot colours can be ordered or mixed off-press with the HP IndiChrome Ink Mixing System for outstanding Pantone-approved solids.

One Shot technology. All colour separations are transferred simultaneously in a single pass on the substrate, for accurate and repeatable colour-to-colour registration, including on heat-sensitive materials.

Intelligent colour management. The Colour Automation Package guarantees standards-matching colour accuracy and consistency. A built-in spectrophotometer and software tools simplify colour management and eliminate the need for expensive software, hardware and manual calibration processes. Create colour profiles and match PANTONE colours in a simple, precise process.

Automatic Alert Agent. Automated early detection and quality control system helps find and highlight inconsistencies between the digital file and the printed images in real time.

Unmatched versatility

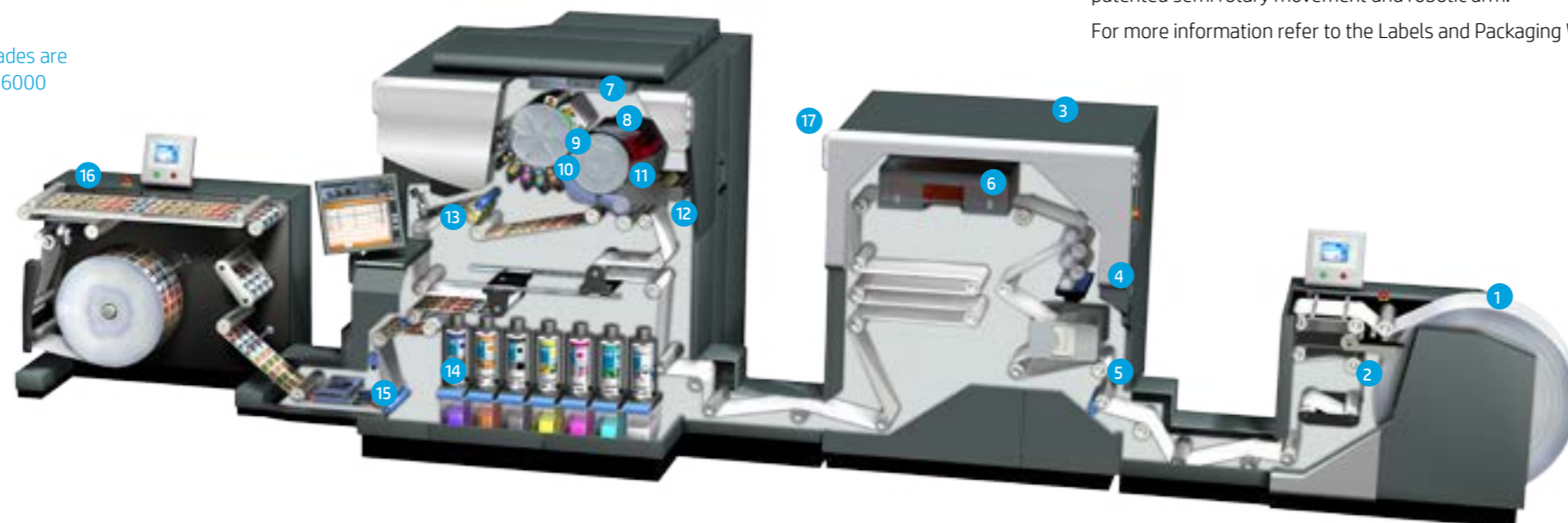
White inks. HP Indigo ElectroInk Premium White is a versatile, opaque white, delivering up to silk screen white opacity in single print process with a thin white layer, fully dried and cured on impact. HP Indigo ElectroInk White for Sleeves is a high slip ink that improves efficiency in the converting of shrink sleeves, by reducing the friction coefficient (CoF).

New inks. HP Indigo ElectroInk Fade Resistant Yellow and HP Indigo ElectroInk Fade Resistant Magenta are an ink set for expanding the addressability of applications that require a high level of lightfastness in outdoor conditions. Open new application opportunities with HP Indigo ElectroInk Fluorescent Pink for high-value, standout designs and glow effects under UV light.

Unlimited designs. HP SmartStream Mosaic variable design technology enables a one-of-a-kind, memorable customer experience and adds value to products. It automatically generates millions of unique designs from a fixed number of seed patterns and now includes colour shuffling capabilities.

Keeping you up to date.

Many press enhancements and upgrades are available as options for HP Indigo WS6000 Series Digital Press owners.



1. Unwinder
2. Web guide
3. Inline Priming Unit
4. Priming station
5. Corona
6. Dryer
7. High-speed laser writing head
8. Charge roller
9. Photo Imaging Plate (PIP)

10. Binary Ink Developers (BIDs)
11. Blanket
12. Impression cylinder
13. Inline spectrophotometer
14. Ink cabinet
15. Inline scanner
16. Rewinder
17. Imaging oil recycling system



Widest media gamut. The press supports the widest range of media in digital production including synthetic and paper substrates from 12 to 450 microns. Print on either pre-optimised substrates or standard off-the-shelf materials using inline or offline priming solutions. Many eco-certified substrates as well as environmentally friendly primers, varnishes, and adhesives are supported.

Inline Priming Unit. This unique capability allows use of standard, non-treated substrates while eliminating the need for pre-planned treatment, making the support of last-minute jobs easier and quicker than ever before.

Enhanced Productivity Mode. Use three-colour printing in EPM to increase throughput by 33%, with 25% less energy consumed.

Security printing. Provide a security printing solution with superior print quality producing microtext as small as 0.7 pt, variable data printing (VDP) capabilities, and integration with a variety of creation and inspection solutions from the world's leading providers.

Advanced workflow solutions

Powerful print server. HP SmartStream Labels and Packaging Print Server, Powered by Esko, provides the most advanced and comprehensive tools in the industry for streamlining pre-press processes. It features best-in-class, fully integrated solutions for accurate and fast digital colour management to reproduce any print job. It enables bi-directional connectivity with industry standard prepress automation and production management systems and is driven by a powerful Adobe RIP engine.

PrintOS. Print Beat provides visibility to press performance and real-time data-insights, for continuous improvements of print operations. With PrintOS Site Flow efficiently manage any number of jobs per day, even hundreds or thousands, from submission to shipment. Automate, simplify and streamline files submission with PrintOS Box. Use PrintOS Composer for heavy VDP processing including sophisticated Mosaic campaigns.

Converting solutions. A full range of inline and offline label converting solutions is provided by AB Graphics International including a fast die cutting station. A high-quality in-mold label (IML) solution is available from Schober for cutting and stacking any label of any size with a special patented semi rotary movement and robotic arm.

For more information refer to the Labels and Packaging Workflow Solutions brochure.



Service Advantage

Our certified service teams are committed to meeting your end-to-end needs for accelerated ramp-up and maximum uptime. Remote engineers around the world provide support in multiple languages. Use the on-press capabilities of Print Care to resolve issues quickly and independently. The Smart Uptime Kit helps you to quickly locate the right part and manage your inventory.

Technical specifications

Printing speed	Up to 30 m/min in 4-colour mode Up to 40 m/min in Enhanced Productivity Mode Up to 60 m/min in 1- or 2-colour mode
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	175, 180, 196, 210 lpi
Image format	320 x 980 mm maximum
Substrate thickness*	12 to 450 microns
Substrate type	Pressure-sensitive label stock, paperboard, and unsupported films
Web width	Max. width: 340 mm / Min. width: 200 mm
Unwinder	Input roll max. diameter: 1000 mm Core inside diameter: • Standard: 3 in • Optional: 6 in Max. roll weight: 270 kg
Rewinder	700 mm max. roll diameter
Print server	HP SmartStream IN100 Labels and Packaging Print Server and Colour Engine, Powered by Esko
Press dimensions	Length: 5780 mm, Width: 3940 mm, Height: 83 in; Inline Priming Unit: Length: 1410 mm; Width: 1560 mm; Height: 1760 mm
Cloud connectivity	Via HP PrintOS
Press weight	5400 kg; Inline Priming Unit: 1800 kg
HP Indigo ElectroInks	
Standard 4-colour printing	Cyan, magenta, yellow, and black
Additional process inks	White, premium white, white for sleeves, fade resistant yellow, fade resistant magenta, fluorescent pink
HP IndiChrome 6-colour printing	Cyan, magenta, yellow, black, orange, and violet
HP IndiChrome Plus 7-colour printing	Cyan, magenta, yellow, black, orange, violet, and green
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing System (IMS) for spot colour creation using CMYK as well as orange, violet, green, reflex blue, rhodamine red, bright yellow, and transparent
PANTONE® colours	Supports PANTONE PLUS®, PANTONE MATCHING SYSTEM®, PANTONE Goe™ HP Professional PANTONE Emulation Technology using CMYK on-press; HP IndiChrome on-press; HP IndiChrome Plus on-press; HP IndiChrome off-press (IMS) for achieving up to 97% of the PANTONE® colour range.
Options	
Enhanced Productivity Mode	Enables three-colour EPM printing
Inline Priming Unit	Enables easy on-demand treatment of substrates
Configurations	Dual mode inline finishing connectivity kit, flexible packaging packer arm support in rewinder, Automatic Alert Agent, Colour Automation Package
Print server options	HP SmartStream Labels and Packaging VDP Tools, Powered by Esko HP SmartStream Labels and Packaging Prepress Tools, Powered by Esko
Reinsertion	Simplex and duplex capability

*Media characteristics vary. HP cannot guarantee performance of media not listed in the Media Locator and recommends testing prior to use.



Independently verified for environmental credentials

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