HP Indigo WS6600 Digital Press

Efficiency and versatility for high-capacity labels and packaging production

The HP Indigo WS6600 Digital Press is the most cost-effective, high-quality printing solution for high-volume labels and packaging production. The best-selling mainstream solution in the industry and the choice of the world's leading brands, the press delivers high throughput and superior colour quality.

Breakthrough productivity. Enhanced Productivity Mode increases press colour speed to a record 40 linear metres per minute for most colour jobs, delivering the industry's highest crossover point vs. analogue for the vast majority of pressure-sensitive label jobs.

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. It provides the widest digital colour gamut using up to 7 ink stations on press. With high resolution printing and perfect registration, the HP Indigo labels and packaging solution produces eye-catching, distinctive packaging. Up to 97% of the PANTONE® colour gamut can be achieved using on-press simulations or an off-press ink mixing system.

Application versatility. The press offers unmatched application flexibility, enabling production of labels, flexible packaging, sleeves, and folding cartons. It supports pre-treated materials as well as standard, off-the shelf substrates with in-line priming.

End-to-end workflow. Together with market-leading partners, HP Indigo offers an array of well-integrated workflow solutions specifically designed for the needs of labels and packaging converters.

Sustainability. Make business more environmentally responsible by shifting production from conventional to digital technology. The HP Indigo WS6600 Digital Press has received the Green Leaf Mark from Intertek, one of the world's leading independent certification and testing companies. It also supports many eco-certified substrates as well as environmentally friendly primers, varnishes, and adhesives.

Keep up to date. The vast majority of innovations released with the press are available as upgrades for HP Indigo WS6000 Digital Press owners.

To learn more, visit www.hp.com/go/graphic-arts or www.hp.com/go/hpindigoWS6600

HP Indigo WS6600 Digital Press

Industry benchmark in labels and packaging production

Application versatility. The HP Indigo WS6600 Digital Press is a one-stop-shop solution for converters to produce any labels or packaging job on any substrate with easy and quick changeovers between applications.

- **One Shot Colour technology**—Performs accurate, repeatable printing. All colour separations are laid down simultaneously in a single pass on the substrate, creating perfect colour-to-colour registration that allows wide media flexibility.

- **Widest media gamut**—Support for the widest range of media in digital production including synthetic and paper substrates from 12 to 450 microns. The press can print on either pre-optimised substrates or standard off-the-shelf materials using inline or offline priming solutions.

- **Inline Priming Unit**—Offers the unique capability to use 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. Designed for easy operation and high performance, the Inline Priming unit is automatically controlled by the press software.

- **Security printing offering**—HP Indigo's exclusive Secure Pack System supports efficient production according to the Current Good Manufacturing Practices (cGMP) for pharmaceutical and security printing. This, combined with superior print quality and the ability to print microtext as small as 0.7 pt., robust VDP capabilities and integration with a variety of creation and inspection solutions from the world's leading providers, creates a robust, end-to-end security offering.

Unmatched productivity. The leading mainstream solution, the HP Indigo WS6600 Digital Press offers unmatched production efficiency with advanced automation, higher uptime, and serviceability.

- **Enhanced Productivity Mode (EPM)**—Using breakthrough innovation, EPM increases press throughput by 33% for most new colour jobs and by 25% when adding white ink, achieving distinct HP Indigo quality with reduced turnaround time and lower cost per printed linear metre.

- **HP Indigo ElectroInk White Plus**—Delivers white with high opacity by applying one thick layer of ink in a single pass for maximum productivity.

- **Advanced automation**—The advanced level of automation embedded in the HP Indigo WS6600 Digital Press lowers the need for operator intervention and increases uptime.

- **Improved serviceability**—New tools for remote diagnostics and operator-level troubleshooting increase uptime and overall productivity.

- **Flexibility between inline and offline finishing modes**—A new finishing connectivity interface allows easy switching between printing directly to the press rewinder or feeding to an offline finishing device.

Advanced workflow solutions. Together with hand-picked market-leading partners, HP Indigo has built a well-integrated ecosystem that provides converters with all the tools they need from order to fulfilment.
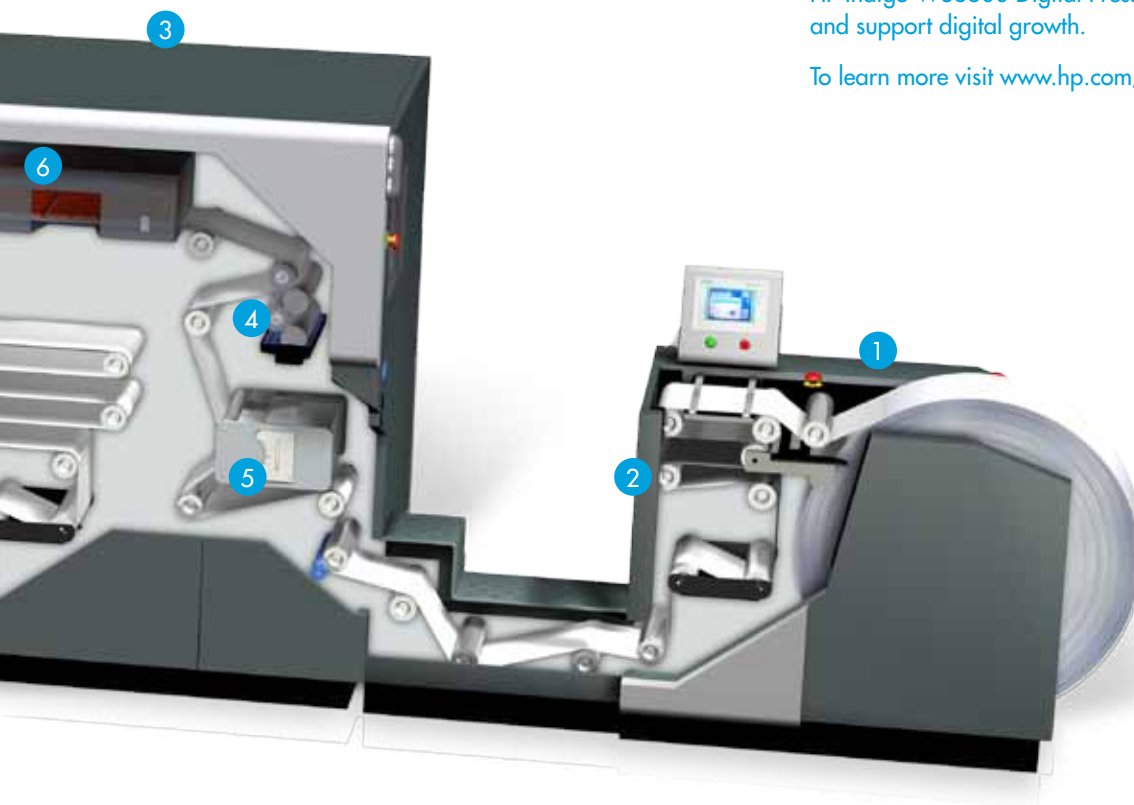
- **HP SmartStream Labels and Packaging Print Server** is designed specifically for HP Indigo by Esko. It supports scalable RIP power, ICC profiling, step and repeat, and automated workflow.
- **HP SmartStream Labels and Packaging Colour Kit**, Powered by Esko, is an integrated solution that quickly creates profiles that match PANTONE and spot colours, and satisfies specific brand requirements, ensuring accurate and efficient colour matching from any technology to an HP Indigo press.
- **Multiple VDP solutions**—HP SmartStream Labels and Packaging VDP Tools, Powered by Esko, provides automatic printing of unique elements such as barcodes, text, singular numbers, photos, and security features. HP SmartStream Designer, is an entry level VDP offering with unique creative functionalities.
- A full range of converting solutions from AB Graphics International and other leading vendors.
- Integration with MIS solutions, pre-press tools, production management and more drives superior quality, efficiency, and profitability by lowering human intervention and creating automated flow of jobs.

Please refer to the Labels and Packaging Roll-fed Workflow Solutions brochure for more information.

Use HP SmartStream products and partner solutions with the HP Indigo WS6600 Digital Press to improve production efficiency and support digital growth.

To learn more visit www.hp.com/go/smartstream

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 densitometer
14. Ink cabinet
15. Vision System
16. Rewinder
17. Packer arm
18. Imaging oil recycling system

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	144 (sequin), 175, 180 lpi
Image format	317 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, 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
Press weight	5400 kg; Inline Priming Unit: 1800 kg
HP Indigo ElectroInks	
Standard 4-colour printing	Cyan, magenta, yellow, and black
5-colour printing	Cyan, magenta, yellow, black, and white
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	
Expanded colour capabilities	5, 6, or 7 on-press on-press ink stations; HP IndiChrome Ink Mixing System
Enhanced Productivity Mode	Enables EPM
Inline Priming Unit	Enables easy on-demand treatment of substrates
Configurations	Dual mode inline finishing connectivity kit, flexible packaging packer arm support in rewinder
Print server options	HP SmartStream Labels and Packaging Colour Kit, Powered by Esko 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. If the media you are about to use is not listed in the Media Locator, HP cannot guarantee performance and we recommend that you test it prior to use.

PANTONE®
Digital Color

Independently verified for
Intertek environmental credentials

Please scan this QR code to learn
more about the
HP Indigo WS6600 Digital Press.