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 industry's best-selling mainstream solution and the choice of the world's leading brands, the press delivers high throughput and superior color quality.

Breakthrough productivity. Enhanced Productivity Mode increases press color speed to a record 130 linear feet per minute for most color jobs, delivering the industry's highest crossover point vs. analog for the vast majority of pressure-sensitive label jobs.

The leader in print quality and color. HP Indigo's superior technology is the only digital color printing process that matches gravure printing. It provides the widest digital color gamut using up to 7 ink stations on press. With high resolution printing and perfect registration, the HP Indigo labels and packaging solution can produce eye-catching, distinctive packaging by matching up to 97% of the PANTONE® color gamut 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. The HP Indigo WS6600 Digital Press is designed to advance more sustainable businesses. Shifting production from analog to digital improves environmental scorecards with the waste-reducing benefits of on-demand technology. The press is also compatible with many environmentally certified media as well as environmentally viable primers, substrates and adhesives.

Keep up to date. The vast majority of innovations released with the HP Indigo WS6600 Digital Press are available as upgrades to enhance capabilities for HP Indigo WS6000 Digital Press owners.

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

HP Indigo WS6600 Digital Press

The industry's 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 Color technology**—Performs accurate, repeatable printing. All color separations are laid down simultaneously in a single pass on the substrate, creating perfect color-to-color 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 0.5 to 18 pt. The press can print on either pre-optimized 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 color jobs and by 25% when adding white ink, achieving distinct HP Indigo quality with reduced turnaround time and lower cost per printed linear foot.

- **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 finishing line or to the press rewinder.

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 fulfillment.
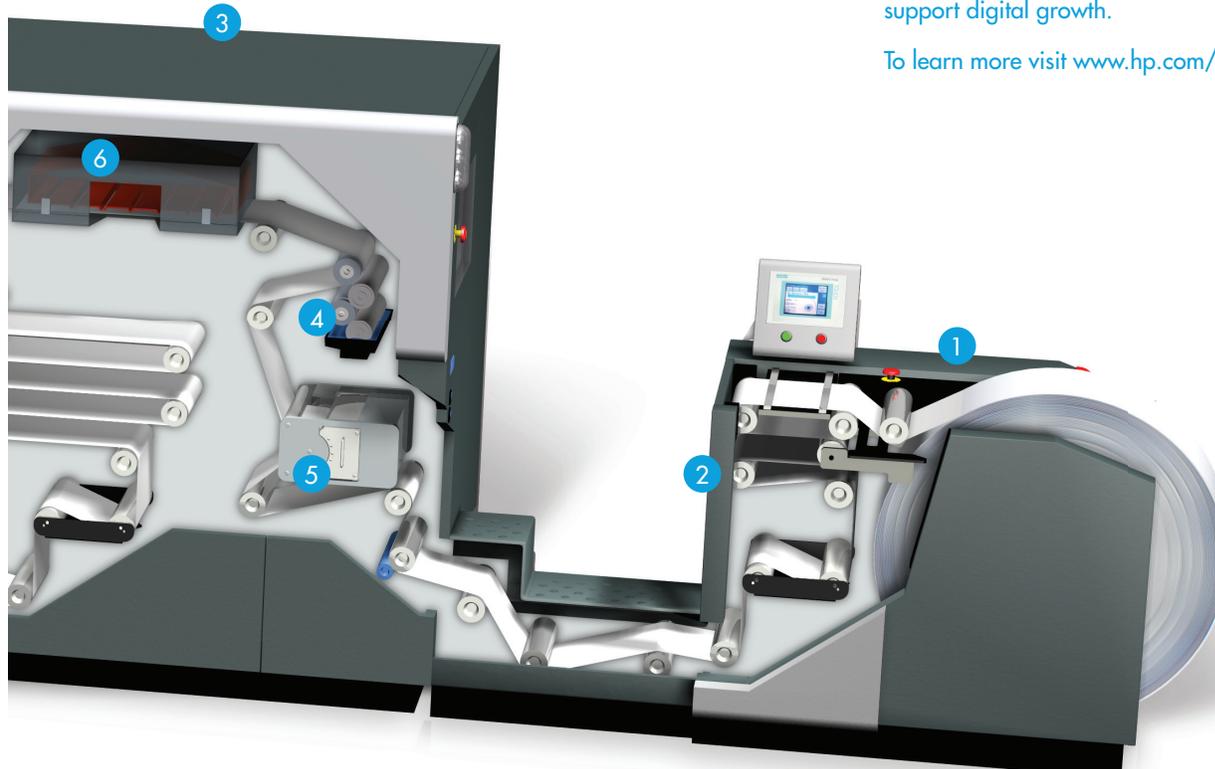
- **HP SmartStream Labels and Packaging Print Server** is designed specifically for HP Indigo by Esko. It supports scalable RIP power, ICC profiling, step and repeat, and automated workflow.

- **HP SmartStream Labels and Packaging Color Kit**, Powered by Esko, is an integrated solution that quickly creates profiles that match PANTONE and spot colors, and satisfies specific brand requirements, ensuring accurate and efficient color 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. Imaging Oil Recycling System
9. Photo Imaging Plate (PIP)
10. Charge roller
11. Blanket
12. Impression cylinder
13. Binary Ink Developers (BIDs)
14. Inline densitometer
15. Ink cabinet
16. Vision System
17. Rewinder
18. Packer arm

Technical specifications

Printing speed	Up to 98 ft/min in 4-color mode Up to 130 ft/min in Enhanced Productivity Mode Up to 196 ft/min in 1- or 2-color mode
Image resolution	812 and 1219 dpi at 8 bit, 2438 x 2438 dpi addressability HDI (High Definition Imaging)
Line screens	144 (sequin), 175, 180 lpi
Image format	12.48 x 38.58 in maximum
Substrate thickness*	0.5 to 18 pt.
Substrate type	Pressure-sensitive label stock, paperboard, and unsupported films
Web width	Max. width: 13.39 in/Min. width: 7.87 in
Unwinder	Input roll max. diameter: 39.37 in Core inside diameter: • Standard: 3 in • Optional: 6 in Max. roll weight: 595 lb
Rewinder	27.56 in max. roll diameter
Print server	HP SmartStream IN100 Labels and Packaging Print Server, Powered by Esko
Press dimensions	Width: 228 in, Depth: 155 in, Height: 83 in; Inline Priming Unit: Width: 55 in, Depth: 61 in, Height: 40 in
Press weight	9100 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
5-color printing	Cyan, magenta, yellow, black, and white
HP IndiChrome 6-color printing	Cyan, magenta, yellow, black, orange, and violet
HP IndiChrome Plus 7-color printing	Cyan, magenta, yellow, black, orange, violet, and green
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing System (IMS) for spot color creation using CMYK as well as orange, violet, green, reflex blue, rhodamine red, bright yellow, and transparent
PANTONE® colors	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® color range.
Options	
Expanded color capabilities	5, 6, or 7 on-press on-press ink stations , HP IndiChrome Ink Mixing System
Enhanced Productivity Mode	Enables EPM
Configurations	Inline Priming Unit, dual mode inline finishing connectivity kit, flexible packaging packer arm support in rewinder
Print server options	HP SmartStream Labels and Packaging Color 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.

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Digital Color

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