Data sheet

HP Indigo 6900 Digital Press

Outperforming the market's best narrow-web digital press

co₂ neutral

Boost your sustainability

The HP Indigo 6900 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.

To learn more, visit hp.com/go/graphic-arts or hp.com/go/hpindigo6900

Driving unmatched quality, productivity and versatility

Changes in consumer behavior and market trends are prompting brands to adapt and evolve, constantly looking for ways to SAVE money, SPEED time to market and ENGAGE better with consumers. For labels and packaging converters, this translates into a dramatic shift from traditional long runs to short runs and "new" long runs, consisting of multiple SKUs, brand protection features and variable data characteristics. HP Indigo allows innovative converters to seize this amazing growth opportunity by enabling them to print anything, in the most productive manner, and at the highest quality.

Introducing the HP Indigo 6900 Digital Press. A press built on the foundation of the market-leading narrow-web printing solution for digital labels and packaging production, the HP Indigo 6000 series, to enable printing of any label, at any run-length, in a simpler, more productive and profitable way.

Say YES to unmatched versatility and open new market opportunities with the ability to produce any L&P application, any color, at any run length.

Be productive - increase productivity and put automation to work for you.

Stand out by relying on Indigo's renowned print quality.

Pack Ready for Labels

HP Indigo ElectroInk Silver

Industry benchmark in labels and packaging production

Say YES to unmatched versatility

The HP Indigo 6900 offers unique solutions allowing converters to produce any narrow-format label, flexible packaging, sleeve, IML, wrap-around labels or folding cartons job, with easy and quick changeovers.

- **Endless applications.** Produce nearly any packaging application, including labels, flexible packaging, and shrink sleeves on any film or paper.
- **Widest media gamut.** The press supports the widest range of media in digital production including synthetic and paper substrates from 0.5 to 18 pt. Print on either pre-optimized 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.
- **High-value colors.** Add value to any application with our extended color gamut, including the ElectroInk Silver, Fluorescent Pink, and invisible inks.
- **Widest white portfolio.** Choose from a wide range of opacities, including the ElectroInk Premium White, a versatile, opaque white, delivering up to silk screen white opacity in a single print process with a thin white layer, fully dried and cured on impact.
- **Enhanced resistance.** Address high-performance applications with Pack Ready for Labels, designed to improve the labels' resistance against water, chemical and mechanical exposure, through cross-linking between the upper and lower layers of the label's construction. An upgraded In-line Priming (ILP) unit makes for enhanced press utilization, and better serviceability. The HP Indigo ElectroInk Fade Resistant Yellow and HP Indigo ElectroInk Fade Resistant Magenta expand the addressability of applications that require a high level of lightfastness in outdoor conditions.
- **Production flexibility and breakthrough simplicity.** Simplify embellishments and accelerate time-to-market by integrating with the innovative digital embellishment HP Indigo GEM, a one-pass inline solution that brings the full advantages of digital print to the label embellishment process. Simplify production and save time and money on highly decorated labels jobs, by allowing the addition of variable digital foil, tactile, varnish and special effects in a single pass.
- **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 color shuffling capabilities.
- **Brand protection.** Provide brands with the tools necessary to obtain top quality layered protection, by offering a wide range of security features including microtext, track & trace solutions and invisible security inks, all printed on one press in one pass.

HP Production Pro for Indigo L&P

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.

Learn more at hp.com/go/indigoservice

Be productive

Streamline production by utilizing a whole new set of powerful tools and systems. Enable an all-digital production floor, powered by the best E2E solution and user experience available in the industry.

- **Powerful print server.** Optimize and control production, increase press utilization with cutting-edge RIP capabilities, and expand fleet connectivity by utilizing our new, powerful, scalable and cloud-connected DFE - HP Production Pro for Indigo Labels & Packaging.
- **Enhanced Productivity Mode (EPM).** Use three-color printing to increase throughput by 33%, with 25% less energy consumed.
- **Color automation and consistency** Advanced color automation, sophisticated color matching tools, and shorter color calibration (X2 less substrate) make it fast and easy to hit brand colors with extreme accuracy, consistency and repeatability from the first print to the last, across presses and sites.
- **PrintOS** Access HP PrintOS anywhere, anytime and get more out of your HP Indigo presses. PrintOS is a collection of web and mobile apps that support the efficient production of labels and enables customers to simplify and automate production processes.
- **Workflow & Converting solutions.** The HP labels and packaging workflow and finishing solutions, including a full range of inline and offline label converting systems, allows access to a complete ecosystem of end-to end automation, from order to fulfilment, enabling converters to boost profitability, increase output, save time and reduce costs.
- **Automatic Alert Agent.** Tight process control with high detection rate using machine learning algorithm.
- **Splice detector.** Enable continuous printing by automatically detecting media splices.

Stand out with Indigo's leading quality

Meet the most stringent corporate branding requirements with gravure-matching quality, delivering high resolution printing and perfect registration with HP Indigo's superior Liquid Electrophotography technology (LEP). Brands around the world use the HP Indigo WS6000 Digital Press Series for its print quality and versatility to respond to market challenges, optimize their supply chain, and accelerate time-to-market. HP Indigo's powerful variable data capabilities provide added value for brands in the realm of consumer engagement.

- **Widest digital color gamut.** Reach up to 97% of PANTONE® colors on press using CMYK or HP IndiChrome's 6- or 7-color process. True spot colors can be ordered or mixed off-press with the HP IndiChrome Ink Mixing System for outstanding Pantone-approved solids.
- **High resolution printing.** HP Indigo's Liquid Electrophotography (LEP) technology, delivers crisp attractive images and smooth vignettes with a very thin ink layer that gives uniform gloss between the ink and substrate.
- **One Shot technology.** All color separations are transferred simultaneously in a single pass on the substrate, for accurate and repeatable color-to-color registration, including on heat-sensitive materials.
- **Intelligent color management.** The Color Automation Package guarantees standards-matching color accuracy and consistency. A built-in spectrophotometer and software tools simplify color management and eliminate the need for manual calibration processes.

1. Unwinder
2. Inline Priming Unit (ILP)**
3. Pack Ready for Labels**
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

** Available as an option

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 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	175, 180, 196, 210 lpi
Image format	12.59 x 38.58 in maximum
Substrate thickness*	0.5 to 18 pt.
Substrate type	Pressure-sensitive label stock, paper, unsupported films, and paperboard
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 Production Pro for Indigo Label & Packaging
Press dimensions	Length: 228 in, Width: 155 in, Height: 83 in; Inline Priming Unit: Length: 55 in; Width: 61 in; Height: 40 in
Cloud connectivity	Via HP PrintOS
Press weight	12,157 lb ; Inline Priming Unit: 4000 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
Additional process inks	Standard white, premium white, white for sleeves, fade resistant yellow, fade resistant magenta, fluorescent pink, HP Indigo ElectroInk Silver, HP Indigo Invisible ElectroInks (Yellow/Blue)
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	
Enhanced Productivity Mode	Enables three-color EPM printing
Inline Priming Unit (ILP**)	Enables easy on-demand treatment of substrates
Configurations	Dual mode inline finishing connectivity kit, flexible packaging packer arm support in rewinder, Automatic Alert Agent (AAA), Color Automation Package
Print server options	HP SmartStream Labels and Packaging Tools, Powered by Esko HP SmartStream Designer for AI
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
Intertek

Learn more at
hp.com/go/indigo

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