

# HP Indigo WS6800 Digital Press



**A highly productive and versatile narrow-web labels and packaging solution**



## Driving unmatched quality, productivity and versatility

The HP Indigo WS6800 Digital Press is the market-leading narrow-web printing solution for digital labels and packaging production, delivering unparalleled quality, wide versatility with the broadest range of applications, streamlined production, higher productivity, and the ability to produce high-value applications.

The HP Indigo WS6800 Digital Press allows you to print any label, at any run-length in a simpler, more productive and profitable way. Eliminate the need for tooling, and enable an all-digital production floor, powered by the best E2E solution and user experience available in the industry.

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, optimise their supply chain, accelerate time-to-market and stay competitive. HP Indigo's powerful variable data capabilities and ability to produce unlimited designs, barcodes, text and images, provide added value for brands in the realm of consumer engagement and brand protection



### 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.

### CO<sub>2</sub> neutral

To learn more, visit [hp.com/go/graphic-arts](http://hp.com/go/graphic-arts)  
or [hp.com/go/hpindigoWS6800](http://hp.com/go/hpindigoWS6800)



# Industry benchmark in labels and packaging production

## Leading digital quality

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.

**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.

**Superior resistance.** Address high-performance applications with Pack Ready for labels, enabled by novel chemistry that seals the label structure to create a bond with many off-the-shelf UV varnishes, and an upgraded In-line Priming (ILP) unit that 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.

**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.

### Pack Ready for Labels



## Advanced Productivity

Streamline your production floor by utilising a whole new set of powerful tools and systems.

**Powerful print server.** Optimise your production by utilizing our whole new powerful, scalable and cloud connected DFE - HP Production Pro for Indigo Labels & Packaging<sup>1</sup>. Based on the field proven and sophisticated architecture of HP Production Pro, HP PrintOS and Esko Colour Engine, HP Production Pro for Indigo Labels and Packaging enhances connectivity of your press to HP PrintOS and 3<sup>rd</sup> party workflow tools, streamlines pre-press processes, increases press utilisation with cutting-edge RIP capabilities, reduces paper waste, and increases fleet productivity and control production with automated load balancing and the ability to effortlessly move jobs between presses.

**Production flexibility and breakthrough simplicity.** 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. Fully digital combination printing simplifies production and saves time and money for highly decorated labels jobs, by allowing the addition of digital foil, digital tactile, digital varnish and special effects in a single pass.

### Keeping you up to date.

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



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

**Colour automation and consistency.** Advanced colour automation, sophisticated colour matching tools, and up to 2X shorter colour calibration make it fast and easy to hit brand colours with extreme accuracy, consistency and repeatability from the first print to the last.

**Workflow & PrintOS.** Access HP PrintOS anywhere, anytime and get more out of your HP Indigo presses. PrintOS is a collection of web and mobile apps packaged under the umbrella of a print production operating system that supports the efficient production of labels on the HP Indigo WS6800 Digital Press enabling customers to produce more jobs effortlessly, at lower cost and with measurable results. With the HP labels and packaging workflow and finishing solutions, you can have access to a complete ecosystem of end-to-end automation from order to fulfilment, which enables converters to boost profitability, increase output, save time and reduce costs.

**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.

## Unmatched Versatility

This press 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.

**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 IndiChromelnk Mixing System for outstanding Pantone-approved solids.

**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.

**High-value colours.** Add value to any application with our extended colour gamut, including the 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.

**Widest media range.** 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-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.

**Brand protection.** Easily integrate a wide range of solutions from smart algorithms, cloud based solutions to taggant inks and deliver layered authentication in one pass. Strengthen any security feature with the power of variable data and serialisation.



### 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.



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

## Technical specifications

<b>Printing speed</b>	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
<b>Image resolution</b>	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
<b>Line screens</b>	175, 180, 196, 210 lpi
<b>Image format</b>	320 x 980 mm maximum
<b>Substrate thickness*</b>	12 to 450 microns
<b>Substrate type</b>	Pressure-sensitive label stock, paperboard, and unsupported films
<b>Web width</b>	Max. width: 340 mm / Min. width: 200 mm
<b>Unwinder</b>	Input roll max. diameter: 1000 mm Core inside diameter: • Standard: 76.2 mm • Optional: 152.4 mm Max. roll weight: 270 kg
<b>Rewinder</b>	700 mm max. roll diameter
<b>Print server</b>	HP SmartStream IN100 Labels and Packaging Print Server and Colour Engine, Powered by Esko
<b>Press dimensions</b>	Length: 5780 mm, Width: 3940 mm, Height: 83 in; Inline Priming Unit: Length: 1410 mm; Width: 1560 mm; Height: 1760 mm
<b>Cloud connectivity</b>	Via HP PrintOS
<b>Press weight</b>	5400 kg; Inline Priming Unit: 1800 kg
<b>HP Indigo ElectroInks</b>	
<b>Standard 4-colour printing</b>	Cyan, magenta, yellow, and black
<b>Additional process inks</b>	Standard white, premium white, white for sleeves, fade resistant yellow, fade resistant magenta, fluorescent pink
<b>HP IndiChrome 6-colour printing</b>	Cyan, magenta, yellow, black, orange, and violet
<b>HP IndiChrome Plus 7-colour printing</b>	Cyan, magenta, yellow, black, orange, violet, and green
<b>HP IndiChrome off-press spot inks</b>	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
<b>PANTONE® colours</b>	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.
<b>Options</b>	
<b>Enhanced Productivity Mode</b>	Enables three-colour EPM printing
<b>Inline Priming Unit</b>	Enables easy on-demand treatment of substrates
<b>Configurations</b>	Dual mode inline finishing connectivity kit, flexible packaging packer arm support in rewinder, Automatic Alert Agent, Colour Automation Package
<b>Print server options</b>	HP SmartStream Labels and Packaging VDP Tools, Powered by Esko HP SmartStream Labels and Packaging Prepress Tools, Powered by Esko
<b>Reinsertion</b>	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.



Intertek  
Independently verified for  
environmental credentials

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