

HP Indigo WS6800p Digital Press



True photo quality for lay-flat books,
cut prints, covers and more



A production line for photo products



The HP Indigo WS6800p Digital Press is a continuous feed press with a 980 mm print length for the production of simplex photo applications with a production line approach. Tailored for professional and consumer photo labs, the press is a solution for delivering premium photo applications such as lay-flat books, photo prints, and canvas.

The leader in print quality and color

The unique attributes of HP Indigo printing technology have made it the premier digital photo printing solution worldwide. Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo delivers prints with true photo quality that exceed the quality achieved by silver halide. Up to 7 ink stations on the press enable use of HP Indigo's special photo inks.

High productivity

The press operates at 30 metres per minute for 4-color jobs, and 20 metres per minute in 6 colors. Web-fed paper handling enables continuous printing. Inline connectivity to laminators and cutters contributes to the uninterrupted, continuous production. An automated early detection and quality control system helps find and highlight inconsistencies between the digital file and the printed images.

Supports diverse applications and media

The 317 x 980 mm printing area opens production possibilities for long format applications such as lay-flat books, long book covers and calendars. For small format jobs, efficient imposition reduces media waste and produces more copies for the same cost. The press feeds substrates from 40 to 350 gsm, including real photo papers and canvas. An option for an inline priming system (ILP) allows feeding of standard papers.

Automated end-to-end solutions

The HP Indigo Photo Prints Solution offers a full digital solution in conjunction with partners that provides the look and feel of consumer and professional photographs including customised solutions, from pre-press through printing and finishing.

Reinvent print production

HP PrintOS is a print production operating system with a set of web and mobile apps that help you get more out of HP Indigo presses, and simplify and automate your production. Use PrintOS to continuously improve operations. Enjoy PrintOS to manage any number of jobs from submission to shipment. Access the open and secure cloud based PrintOS anytime and anywhere.

Boost your sustainability

The HP Indigo WS6800p 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/hpindigoWS6800p

Photo quality with high productivity

HP Indigo value for photo

Digital offset color technology. HP Indigo's liquid electrophotography (LEP) technology, using HP Indigo ElectroInk with minute ink particles, delivers high resolution, uniform gloss, and sharp images with a very thin ink layer that is almost transparent, exposing the natural attributes of the paper for a fine photo finish.

Widest digital color gamut. HP Indigo printing with CMYK delivers high-definition photos. For high-end professional photo quality, light cyan and light magenta produces smoother images and tone transitions. Light black and light light black inks produce superior grayscale images for black and white photography and mixed color and black and white imagery.

Photo modes. Color profiles and screens deliver superior smoothness and color uniformity.

Color automation. Use automated color management tools and the inline spectrophotometer to easily meet color standards and achieve color accuracy and consistency across Indigo presses, sites, and time. Reprints will match even when printed weeks apart.

High print permanence. An independent testing institute, Wilhelm Imaging Research, has verified the permanence of HP Indigo photo prints. A WIR dark permanence rating of more than 200 years for HP Indigo prints ensures excellent long-term stability and freedom from gradual yellowing when stored in albums and other dark locations. The display quality of HP Indigo prints was also confirmed in WIR testing.

High versatility and productivity

Canvas prints. The press enables the cost-effective production of photo canvas applications. E-CANVAS by Felix Schoeller, featuring perfect stretching and framing performance, is provided especially for HP Indigo presses. Produce a minimum of 30 panoramic canvas prints per minute. Offer formats including canvas split, canvas cluster, and gallery wrapped.

Cut photo prints. Optimised E-PHOTO paper by Felix Schoeller is a real photo paper with a silver halide paper look and feel. Create a production line that can deliver 10 x 15 cm photos at a rate of 540 prints per minute.

Book covers. The long image format enables production of covers to complement book blocks printed on sheetfed Indigo technology. Use an extended range of compatible substrates with optimal folding attributes for the production of hard covers, soft covers, and dust jackets. Produce up to 1800 standard size photobook covers an hour.

Lay-flat books. Produce professional 30 x 30 cm or 30 x 45 cm lay-flat books while printing simplex, long format pages, and using HP Indigo partner solutions.



Sustainability

Non-chemical papers. Produce photo prints with HP Indigo digital presses and replace the need for the chemical development process used in silver halide (AgX) photofinishing.

Environmental credentials. The HP Indigo WS6800p Digital Press has been independently verified for environmental credentials with the Green Leaf Mark by Intertek, one of the world's leading independent certification and testing companies.

Self-sustaining imaging oil system. The Regenerated Imaging Oil (RIO) system allows the press to be self-sustainable in imaging oil usage.

Low waste. Long lasting supplies reduce waste due to lower replacement frequency. As part of its environmental responsibility and as a service to customers, HP Indigo also has a comprehensive supplies take back program (may vary by country).



End-to-end solutions

Powerful DFE. HP SmartStream Production Pro Print Server 6 is the industry's most scalable and powerful print server capable of handling the most challenging workloads. It offers automated prepress tools to optimise production including imposition and marks creation engines, advanced Color Management Module (CMM), and Image Enhancement features.

Inline roll laminator. For a photo finish, an inline laminator with an embossing roller creates luster, gloss, or matte finish.

Digital slitter/cutter. A nearline automated system slits and cuts 10 x 15 cm and 13 x 18 cm cut prints and 20 x 25 cm portrait prints.

Finishing automation. Inline finishing connectivity delivers an optimised production line.

PrintOS. Print Beat provides visibility to press performance to drive continuous improvement to print operations. PrintOS Site Flow efficiently manages any number of jobs per day, even hundreds or thousands, from submission to shipment. Automate, simplify and streamline files submission with PrintOS Box. Boost efficiency with ganging, batching and dynamic scheduling. Use PrintOS Composer for heavy VDP processing.

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.



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|-----------------------------------|---------------------------------|
| 1. Unwinder | 6. Binary Ink Developers (BIDs) |
| 2. Inline Priming Unit (optional) | 7. Blanket |
| 3. High-speed laser writing head | 8. Impression cylinder |
| 4. Charge roller | 9. Work station |
| 5. Photo Imaging Plate (PIP) | 10. Ink cabinet |
| | 11. Rewinder |

Technical specifications

Printing speed	30 m/min in 4-colour mode; 60 m/min in 1- or 2-colour mode; 20 m/min in 6-colour mode
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 160, 175, 180, 180m, 181
Image size	317 x 980 mm maximum
Paper weight*	40 to 350 gsm
Substrate types	Coated and uncoated paper, canvas
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 (DFE)	HP SmartStream Production Pro Print Server
Cloud connectivity	Via HP PrintOS
Press dimensions**	Length: 5771 mm; Width: 2715 mm; Height: 2090 mm
Press weight**	4080 kg
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
6-colour photo printing	Cyan, magenta, yellow, black, light cyan, and light magenta
HP IndiChrome 6-colour printing	Cyan, magenta, yellow, black, orange, and violet
HP IndiChrome Plus 7-color printing	Cyan, magenta, yellow, black, orange, violet, and green
Special effect inks	Light cyan, light magenta
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®, and 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 ink stations
Auto Alert Agent	Enables on-press alert system
Third-party solutions	GMP LAMIMASTER-34 Tecnau PhotoReady for cut prints applications: 4 x 6 Photobook Technology's Mitamax and Imaging Solutions for lay-flat books Renz 500 for calendar wire binding Ultimate Technographics software for cut prints, imposition and layout Web2print software for creation of photo products (portraits, books): MediaClip, TaoPix, Pixfizz, LumaPix, PhotoLynx

* 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.

** Weight and dimensions uncrated including rewinder, unwinder, and print engine. Excluding ILP and chiller.



Independently verified for environmental credentials

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