

HP Indigo WS4600 Digital Press

Productive, high-quality digital production solution for labels



The HP Indigo WS4600 Digital Press offers superior quality, productivity, and flexibility for any facet of labels production. The press delivers the quality demanded by brands, enabling converters to start on a growth path to a more profitable digital platform.

The newest addition to the largest digital fleet in the world, the press is a no-compromise, entry-level solution that delivers high productivity and the finest quality. Built on the success of the HP Indigo press ws4500, it offers new innovations based on customer feedback.

The leader in print quality and colour. HP Indigo's superior liquid ElectroInk technology is the only colour process in digital printing that matches gravure quality. ElectroInk provides the widest digital colour gamut using up to 7 ink stations on press. With high resolution printing and perfect registration, the press can produce eye-catching, distinctive labels.

Security printing. Capture new business opportunities using HP Indigo ElectroInk UV Red to print anti-counterfeiting, invisible barcodes, and other security elements.

High productivity. Using breakthrough innovation, the Enhanced Productivity Mode (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.

- Designed for continuous printing of a wide variety of jobs
- Press speed of 21 linear metres/minute in colour using EPM, increasing the amount of addressable jobs
- Up to 30 linear metres/minute in 1- or 2-colour mode

End-to-end workflow. Together with market-leading partners, HP Indigo offers a portfolio of workflow solutions specifically designed for the needs of labels converters, including MIS solutions, pre-press tools, and production management.

Environmental benefits. Make business more environmentally responsible by shifting production from conventional processes to digital, on-demand technology. The HP Indigo WS4600 Digital Press also supports many eco-certified substrates as well as environmentally friendly primers, varnishes, and adhesives.

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



HP Indigo WS4600 Digital Press

High-quality, cost-effective digital production system for labels

Wide colour and substrate flexibility. A wide offering of certified substrates and the widest digital colour gamut give a business advantage by enabling production of high-value jobs.

- HP Indigo One Shot Colour technology performs accurate, repeatable printing of jobs.
- All colour separations are applied simultaneously in a single pass on the substrate, preventing registration issues while enabling wide media flexibility.
- Print on substrates from 12 to 350 microns.
- True brand colour matching of up to 97% of the PANTONE® colour range with the off-press 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.
- Emulate a wide majority of PANTONE colours on press with CMYK or the HP IndiChrome Plus 7-colour system using CMYK plus orange, violet, and green inks.

Maximise production flexibility. The HP Indigo WS4600 Digital Press integrates easily within existing environments, complementing conventional printing platforms and expanding service options.

- Print runs that require no minimum or up to 50 000 labels, in fast turnaround time, exactly when required.
- Enhance production efficiency and profitability by allocating suitable jobs to the HP Indigo WS4600 Digital Press.
- Complete runs more economically with fast turnaround time, enhancing overall production efficiency.



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. Driving up to four presses, this highly efficient RIP and workflow station simplifies colour management and ensures consistency and repeatability across all presses.
- HP SmartStream Labels and Packaging Colour Kit, Powered by Esko, is an integrated solution that quickly creates profiles that match PANTONE and spot colours, to satisfy specific brand requirements, delivering accurate and efficient colour matching from any technology to an HP Indigo press.
- HP SmartStream Labels and Packaging VDP Tools, Powered by Esko, provide automatic printing of unique elements such as barcodes, text, singular numbers, photos, and security features. HP SmartStream Designer is an entry offering for creative VDP applications.



Use HP SmartStream products and partner solutions with the HP Indigo WS4600 Digital Press to improve production efficiency and support digital growth.

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

1. Unwinder
2. High-speed laser writing head
3. Photo Imaging Plate (PIP)
4. Scorotron charging units
5. Blanket
6. Impression cylinder
7. Inline densitometer
8. Binary Ink Developers (BIDs)
9. Ink cabinet
10. Work station
11. Rewinder

Technical specifications

Printing speed	Up to 15 m/min in 4-colour mode Up to 21 m/min in Enhanced Productivity Mode Up to 30 m/min in 1- or 2-colour mode	
Image resolution	812 x 812 dpi, 812 x 1624 dpi when printing in high resolution mode	
Line screens	144 (sequin) 160, 175, 180, 230 lpi	
Image size	308 x 450 mm maximum	
Substrate thickness*	12 to 350 microns	
Substrate type	Pressure-sensitive label stock and films	
Web width	Max. width: 330 mm, Min. width: 200 mm	
Unwinder	Input roll max. diameter: 1000 mm Core inside diameter: <ul style="list-style-type: none">• Standard: 3 in• Optional: 6 in	Tension control system, air expanded shaft Roll load/unload pneumatic device Max. roll weight: 400 kg Active web guide
Rewinder	700 mm max. roll diameter	
Print server	HP SmartStream IN050 Labels and Packaging Print Server, Powered by Esko	
Press dimensions	Width: 6070 mm, Depth: 2020 mm, Height: 2150 mm; Electrical cabinet: Width: 2700 mm, Depth: 650 mm, Height: 1440 mm	
Press weight	4550 kg	
HP Indigo ElectrolInks		
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	
Special effect inks	UV red	
HP IndiChrome off-press spot colours	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; HP IndiChrome and 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 ink stations; HP IndiChrome Ink Mixing System	
Enhanced Productivity Mode	Enables EPM	
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.



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