HP Indigo 12000 Digital Press

A B2 digital offset press with extensive capabilities

Big ideas come to life

The 75 cm format HP Indigo 12000 Digital Press produces the widest commercial application range with superior print quality, high productivity, and wide versatility. Built on the best-selling and proven HP Indigo 10000 Digital Press, the press brings breakthrough printing capabilities that extend unique, high-value opportunities to grow business.

Any commercial job
An easy fit for offset printers, the HP Indigo 12000 Digital Press offers a solution for the digital printing of any commercial application on any substrate. Use the full sheet to print canvas wall art, high-impact posters, folders, oversized books, specialty products, and more.

The leader in print quality and colour
Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo digital prints are of the highest quality. Using dozens of software and hardware innovations, the press delivers the smoothest and sharpest prints in the industry, matching or even exceeding offset quality. HP Indigo ElectroInk has the widest digital colour gamut, reaching up to 97% of PANTONE® colours and using up to 7 ink stations on press. A 5th ink station is standard. Breakthrough colour matching tools ensure perfect colour accuracy and consistency.

Even higher productivity
Printing B2-sized sheets in colour at up to 4600 per hour, the press is capable of producing over two million colour sheets per month. Print monochrome in duplex at 4600 sheets per hour. Sophisticated automation tools boost production efficiency and uptime.

Print on any substrate
One Shot extends substrates to canvas, synthetics, and metallised media. Print on from 70 gsm to 400 gsm and 75 to 450 microns in thickness—including coated, uncoated, coloured and dark papers, and paperboard for folding cartons. Use on-press primer to print on off-the-shelf papers.

The choice of brands
Brands use HP Indigo for its high print quality, just-in-time production, and ability to engage customers by customisation and personalisation with unique variable data printing capabilities.

Reinvent print production
HP PrintOS is a print production operating system with apps that help you get more out of your HP Indigo presses, and simplify and automate production. Use PrintOS to continuously improve operations. Access the open and secure cloud-based PrintOS platform anytime, anywhere.

Boost your sustainability

The HP Indigo 12000 Digital Press is manufactured carbon neutral, and offers reduced production waste, a takeback program, and energy efficiency.

CO_2 neutral

Any commercial application

Leading print quality

Digital offset colour technology. HP Indigo's liquid electrophotography (LEP) technology, using HP Indigo ElectroInk with minute ink particles, delivers crisp linework, attractive images and smooth vignettes with a very thin ink layer that gives uniform gloss between the ink and substrate.

Setting new quality standards. Innovation in software, hardware and supplies takes print quality to new levels. Advances include a superfine adaptive colour profile, optimised calibrations for perfect colour uniformity, tailored print modes, and a microsphere-based blanket.

High Definition Laser Array (HDLA). A new high-definition writing head doubles print resolution and will set a new benchmark for print quality with 1600 dpi. (Available in 2017).

Wide colour gamut. Use the 5th ink station to take advantage of special inks and spot colours. Emulate PANTONE® colours on press using CMYK or HP IndiChrome's 6- or 7-colour process. True spot colours can be ordered from the HP IndiChrome Ink Mixing Service.

Freedom to innovate and create unlimited applications

Specialty media printing. One Shot transfers all colour separations in one pass onto the substrate with perfect registration, expanding printing capabilities to specialty substrates. Produce photo canvas, plastic cards, synthetic products, and high-end metallised prints.
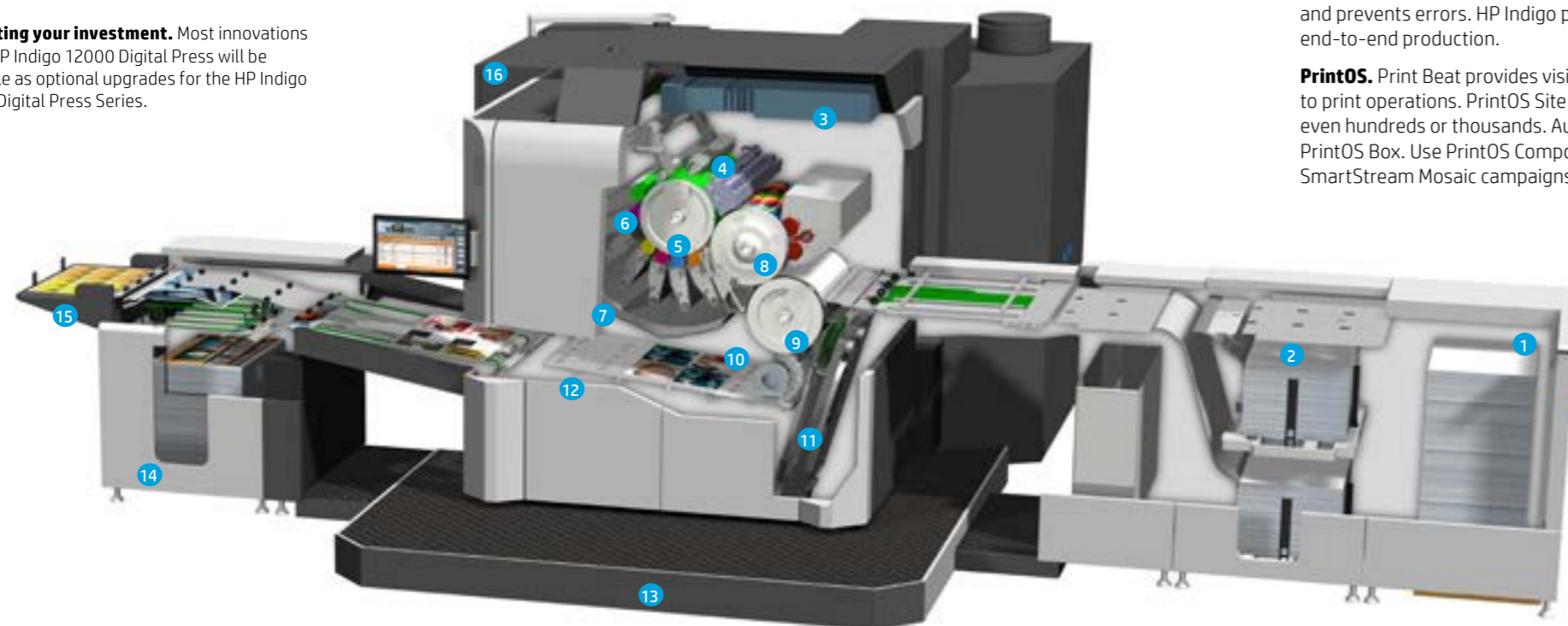
Digital ink priming. Use HP Indigo ElectroInk Primer to meet any customer need and print on an extended range of substrates including off-the-shelf offset stock and specialty papers.

Unique inks. HP Indigo ElectroInk Fluorescent Pink makes a bold statement and glow effects under UV light for cards, promotional collateral, fashion applications, specialty products, publishing and more. Make an impact with HP Indigo ElectroInk White on dark, black and transparent media. Use light cyan, and light magenta for professional photo portrait quality.

Unlimited designs. Automate the creation of millions of one-of-a-kind designs with HP SmartStream Mosaic's variable design technology, now including colour shuffling capabilities, for sophisticated, high-value products.

Protecting your investment. Most innovations in the HP Indigo 12000 Digital Press will be available as optional upgrades for the HP Indigo 10000 Digital Press Series.

Smart automation for high productivity

Make the best use of press time. Benefit from up to 40% higher productivity using Optimizer, the on-press production efficiency assistant. The artificial intelligence algorithm optimises the printing queue for non-stop printing using Indigo's unique proof while printing capability.

Automated print quality control. Automatic Alert Agent performs real-time print quality error detection while printing, reducing waste and increasing productivity. The system finds and highlights inconsistencies between the digital file and the printed sheet.

Colour automation. Use automated colour management tools and the inline spectrophotometer to easily meet colour standards and achieve colour accuracy and consistency across Indigo presses, sites, and time, as well as between Indigo and offset.

High-speed monochrome. Print monochrome at rapid speed of 4600 duplex sheets per hour for cost-effective, and just-in-time production for publishing and direct mail needs.

Enhanced Productivity Mode. Increase colour throughput by 33% and consume 25% less energy per page. A pre-flight solution by Enfocus can automatically select suitable jobs.

Production management and workflow

Powerful DFE. HP SmartStream Production Pro Print Server 6 is the industry's most scalable and powerful print server. It offers automated prepress tools to optimise production including imposition and marks creation engines, an advanced Colour Management Module (CMM), and image enhancement features.

Finishing. Direct2Finish allows automating the bindery by creating and delivering JDF instructions to enabled finishing devices. This allows faster turnarounds, lowers labor costs and prevents errors. HP Indigo partners with leading finishing vendors to drive cost-effective end-to-end production.

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. Automate, simplify and streamline files submission with PrintOS Box. Use PrintOS Composer for heavy VDP processing including sophisticated HP SmartStream Mosaic campaigns.

HP SmartStream Mosaic one-of-a-kind designs.

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. Palette feeder
2. Two drawer feeder
3. High-speed laser writing head
4. Charge roller
5. Photo Imaging Plate (PIP)
6. PIP Automatic Replacement System
7. Binary Ink Developers (BIDs)
8. Blanket
9. Impression cylinder
10. Registration cameras
11. Perfector
12. Vision System & Spectrophotometer
13. Operator platform
14. Stacker
15. Proof tray
16. Ink cabinet

Technical specifications

Printing speed	3450 sheets per hour 4/0 4600 sheets per hour in EPM 3/0 1725 sheets per hour 4/4 4600 sheets per hour 1/1 (monochrome)
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	175, 180, 180m, 190EPM, HMF200 lpi
Sheet size	Maximum sheet size: 750 x 530 mm Minimum sheet size: 510 x 297 mm for simplex; 510 x 330 mm for duplex.
Image size	740 x 510 mm maximum
Paper weight*	Uncoated media: 70 gsm to 400 gsm. Coated media: 90 gsm to 400 gsm: Thickness 75 to 450 microns
Feeder	Palette feeder 850 mm of media. Drawer feeder: Two drawers, each with 300 mm of media.
Stacker	Main stacking tray with 850 mm stack height supporting offset jogging
Print servers (DFE)	HP SmartStream Production Pro Print Server
Press dimensions	Length: 8000 mm; Width: 4700 mm; Height: 2400 mm
Press weight	11,000 kg
Cloud connectivity	Via HP PrintOS
HP Indigo ElectroInks	
Standard 4-colour printing	Cyan, magenta, yellow, and black
5-colour printing	Use the 5th ink station
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	White, light cyan, light magenta, fluorescent pink
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing Service 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®, 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 for achieving up to 97% of the PANTONE® colour range
Options	
Print server (DFE)	HP SmartStream Ultra Print Server
HP Indigo ElectroInk Primer	Supports use of off-the-shelf papers.
Expanded colour capabilities	6 or 7 ink stations
Operator Control Station	Proof jobs, control the press, DFE remote station
Auto Alert Agent	Enables on-press quality alert system
Optimizer	Automatic prioritization and management of the job queue
One Shot process kit	Enables printing on synthetics, metallised, and canvas using HP Indigo One Shot technology

*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.

CO₂ neutral

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