

HP Indigo 12000 Digital Press



A 29 inch digital offset press with extensive capabilities



Big ideas come to life

The 29 inch 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 color

Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo digital prints are 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 color gamut, reaching up to 97% of PANTONE® colors and using up to 7 ink stations on press. A 5th ink station is standard. Breakthrough color matching tools ensure perfect color accuracy and consistency.

Even higher productivity

Printing 29 inch sheets in color at up to 4600 per hour, the press is capable of producing over two million color sheets per month. Print monochrome in duplex at 4600 sheets per hour. Sophisticated automation tools boost production efficiency and uptime.

Widest media range

One Shot extends substrates to canvas, synthetics and metalized media. Print on 50 lb text to 150 lb cover and 3-18 pt in thickness—including coated, uncoated, colored and dark papers, and paperboard for folding cartons. Use on-press HP Indigo ElectroInk Primer to expand printing possibilities 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 customization and personalization 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.

CO₂ neutral

To learn more, visit hp.com/go/graphic-arts or hp.com/go/hpindigo12000

Any commercial application

Leading print quality

Digital offset color technology. HP Indigo's liquid electrophotography (LEP) technology, using HP Indigo ElectroInk, 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 color profile, optimized calibrations for perfect color uniformity, tailored print modes and a microsphere-based blanket.

New benchmark for print quality. HP Indigo HD Imaging System, a new high-definition writing head solution, doubles print resolution for the highest smoothness on both photo and high-end commercial applications. Surpass offset quality at 1600 DPI with high LPI screen sets up to 290 LPI, and create art-gallery quality prints with high detail reproduction.*

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

* HD Imaging System is available as a Value Pack option on the HP Indigo 12000 Digital Press

Freedom to innovate and create unlimited applications

Specialty media printing. One Shot transfers all color 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 metalized prints.

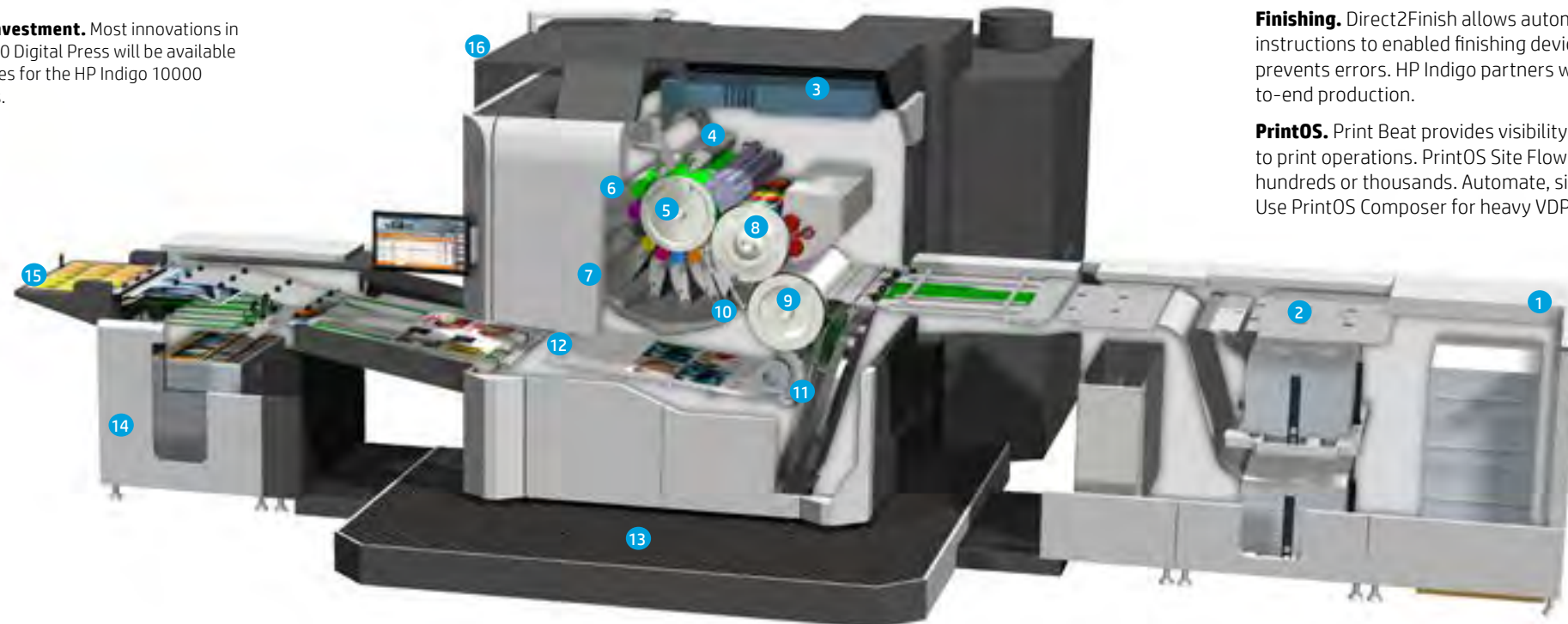
Digital ink priming. Use HP Indigo ElectroInk Primer to meet any customer need and print on an extended range of substrates including off-the-shelf offset stock and specialty papers.

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 color 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.



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



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 optimizes 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.

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, 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 color throughput by 33% and consume 25% less energy per page. A pre-flight solution by Enfocus can automatically select suitable jobs.



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

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 optimize production including imposition and marks creation engines, an advanced Color 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 Mosaic campaigns.

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.

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, writing system addressability: 812 dpi (virtual 2438 x 2438 dpi)
Line screens	175, 180, 180m, 190EPM, HMF200 lpi
Sheet size	Maximum sheet size: 29.5 x 20.81 (In-house cutting: 29.527 x 20.866 in) Minimum sheet size: 20.1 x 11.7 in for simplex; 20.1 x 13 in for duplex.
Image size	29.1 x 20.1 in maximum
Paper weight*	Uncoated media: 50 lb text to 150 lb cover. Coated media: 60 lb text to 150 lb cover; Thickness 3-18 pt.
Feeder	Palette feeder 33.4 in of media. Drawer feeder: Two drawers, each with 11.8 in of media.
Stacker	Main stacking tray with 33.4 in stack height supporting offset jogging
Print servers (DFE)	HP SmartStream Production Pro Print Server
Press dimensions	Length: 320 in; Width: 185 in; Height: 94 in
Press weight	24,250 lb
Cloud connectivity	Via HP PrintOS
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow and black
5-color printing	Use the 5th ink station
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
Special effect inks	White, light cyan, light magenta, light light black and fluorescent pink
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing Service 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 for achieving up to 97% of the PANTONE® color range
Options	
Print server (DFE)	HP SmartStream Ultra Print Server
HP Indigo ElectroInk Primer	Supports use of off-the-shelf papers
Expanded color 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, metalized and canvas using HP Indigo One Shot technology
HD Imaging System	
Image resolution	812 dpi at 8 bit, writing system addressability: 1625 dpi (virtual 4876 x 4876 dpi)

*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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4AA6-3965ENW, February 2018.

