HP Indigo 12000 HD Digital Press

A 29-inch digital offset press with breakthrough print quality

The 29-inch HP Indigo 12000 HD Digital Press produces the widest range of commercial applications with breakthrough print quality, high productivity, and broad versatility. Built on the best-selling and proven HP Indigo 12000 Digital Press, this press delivers a new level of printing capabilities that open unique, high-value opportunities to grow your business.

CO_2 neutral
Boost your sustainability

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

To learn more, visit www8.hp.com/us/en/commercial-printers/indigo-presses/12000HD.html

Raising the print quality benchmark

The leader in print quality and color. Enabled by HP Indigo's Liquid ElectroInk technology and unique digital offset process, prints produced on the HP Indigo 12000 HD Digital Press are of the highest quality. Using the breakthrough high-definition Imaging System, the press delivers the smoothest and sharpest prints in the industry, exceeding offset quality. HP Indigo ElectroInk has the widest digital color gamut, reaching up to 97% of PANTONE® colors and using up to seven ink stations on press. A fifth ink station is standard.

New benchmark for print quality. The HP Indigo HD Imaging System, a new high-definition writing head solution, doubles print resolution and decreases ink dot size by 30% compared to non-HD presses, for maximum smoothness on 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.

- 175 LPI screen – Match quality and rosette sizes with non-HD Indigo digital presses.
- 220 LPI screen – Produce smoother skin tones, skies, and light-colored flat tints.
- Default 250 LPI screen – Reproduce finely detailed landscapes, other highly detailed images, and composite grays.
- 290 LPI screen – Clearly reproduce halftone text applications, fine lines, and text characters.

Wide color gamut. Use the default fifth 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.

Superior color management. HP Indigo offers a suite of integrated solutions that simplify and automate color management and enable you to save time and costs with fewer color adjustments and reprints. Ensure color consistency over time, across presses, sites, and between offset and HP Indigo technology.

- Automatically match industry color standards with Media Fingerprint.
- Keep impeccable color consistency across presses and over time using 3D color calibration.
- Easily share and manage color assets between presses and sites via HP PrintOS Substrate Manager.
- Track your color status anytime, anywhere, with PrintOS Color Beat.

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.

Protecting your investment. HD technology is available as a value pack for all HP Indigo 12000 Digital Presses and for HP Indigo 10000 Digital Presses with SN 230 and above, enabling you to upgrade your existing presses to HD quality printing.

Freedom to innovate and create unlimited applications

Any commercial job
An easy fit for offset printers, the HP Indigo 12000 HD Digital Press offers a solution for the digital printing of any commercial application on virtually any substrate. Use the full sheet to print any high-impact commercial application, from attention-grabbing posters, to folders, oversized books, photo applications, specialty products using high value substrates or inks, and much more.

Wide media range
Print on virtually any substrate, from 50 lb text to 150 lb cover, 3-18 pt thick—including coated, uncoated, colored and dark papers, and paperboard for folding cartons—in an unlimited variety of paper sizes down to a minimum size of 20.1 x 11.7 in. One Shot technology transfers all color separations in one pass onto the substrate with perfect registration, expanding printing capabilities to specialty substrates such as canvas, synthetics and metalized media. Use HP Indigo ElectroInk Primer to print on an extended range of substrates, including off-the-shelf offset stock and specialty papers.

Widest range of special inks. Produce jobs that were never-before possible, with our wide range of special inks. Print higher-value pages using white ink on colored media and spot colors. Achieve professional photo quality with Light Light Black, Light Cyan, and Light Magenta inks. Create a Wow! effect with transparent ink watermarks and high-impact fluorescent ink applications.

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

Take automation to the next level

Increase productivity. Print up to 4600 29 inch sheets in color per hour, and over two million color sheets per month. Print monochrome in duplex at 4600 sheets per hour. Sophisticated automation tools boost production efficiency and uptime.

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.

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, allowing easy reprinting.

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 HP Indigo's unique proof-while-printing capability.

Powerful DFE. HP SmartStream Production Pro Print Server 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.

Digital feeding system. HP Indigo's unique laser-guided digital feeding system includes two drawers, in addition to a pile feeder. This enables non-stop printing from one input source, while the other is loaded in parallel, maximizing utilization and uptime in case of frequent media changes.
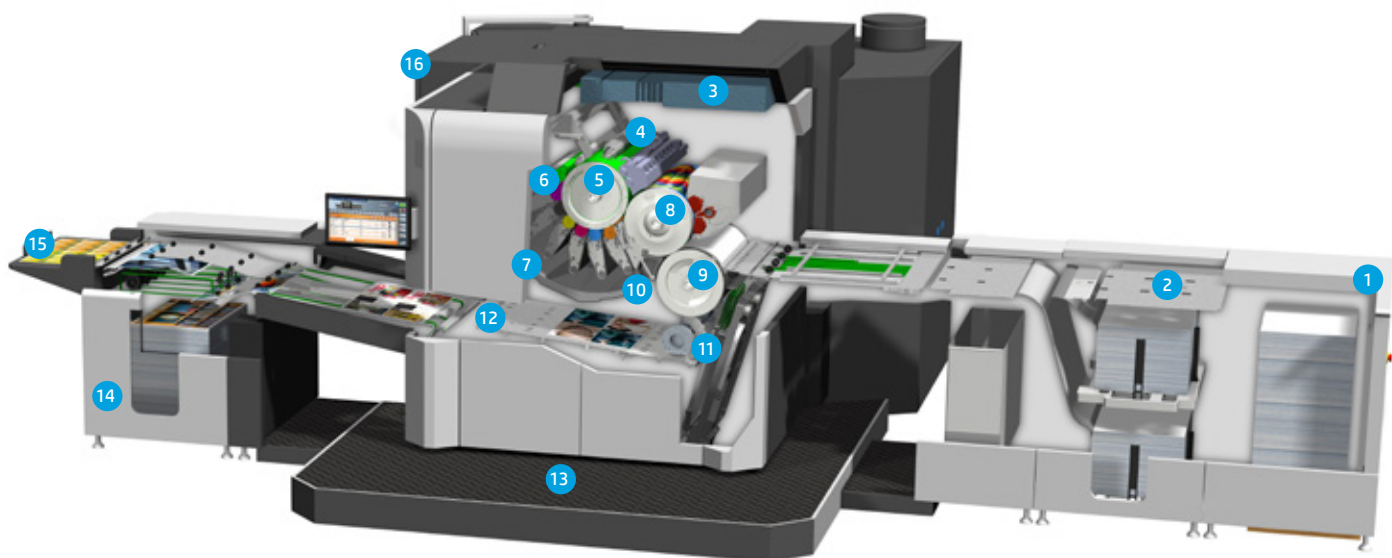
Finishing. HP Indigo partners with leading finishing vendors to provide a highly automated end-to-end production workflow designed to meet your needs and requirements. The HP Indigo 12000 HD Digital Press can be integrated with inline one-pass solutions to allow faster turnaround and reduce labor costs. HP SmartStream Direct to Finish simplifies the prepress art creation and automates post-printing processes via JDF instructions that allow faster turnaround and prevent human errors.

Reinvent print production

HP PrintOS is a print production operating system with web and mobile apps connected to your HP Indigo press that adapts your operations to today's market. Get more out of your presses, simplify as well as grow. Access the open and secure cloud-based PrintOS platform anytime, anywhere, including on the go.

Improve uptime, productivity, and quality. Drive continuous improvement across your print operations with increased visibility into print performance. Automate all aspects of production, from order submission to shipping. Broaden your offering and reach by joining a virtual print network of HP PSPs used by brands for running high value, unique and personalized campaigns on a global scale.

Use PrintOS Color Beat and leverage the press' inline spectrophotometer and PrintOS press connectivity to obtain real-time color status on-press, and improve your color consistency across presses and sites, without the need for external devices.

1. Palette feeder
2. Two drawer feeder
3. HD 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	Addressability: 1625 DPI (virtual 4876 x 4876 DPI) Rip: 812 DPI at 8 bit
Line screens	175, 220, 250, 290 LPI, HMF-200
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	24,470 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

* 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.

PANTONE
Digital Color

Learn more at
hp.com/go/indigo

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