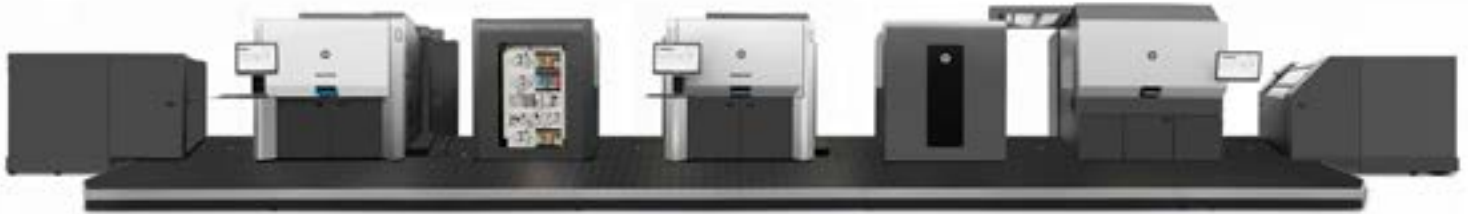# HP Indigo 50000 Digital Press

30-inch color web press for high-quality, high-volume applications

Digital productivity and quality in a class of its own

The HP Indigo 50000 Digital Press is a 30-inch duplex web press offering breakthrough productivity with Indigo's outstanding color quality. Benefit from low total cost of ownership for the production of high-value, high-coverage applications on an extensive range of paper.

Designed for high-volume printing, the press is a highly productive solution for photobooks, yearbooks, publications, direct mail and marketing collateral.

High productivity
The 29.3 x 44 inch image size enables ultimate flexibility in imposition efficiency. Print up to 24 million A4 color pages per month at 770 pages per minute. Produce 2300 ppm in monochrome. Inline finishing connectivity provides an optimized production line. Meet high peak season production needs.

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. They match or even exceed offset, allowing them to be used interchangeably. Up to 7 ink stations on the press enable use of HP Indigo's wide digital color gamut including mixed spot colors and 6-color printing with special photo inks.

Print on virtually any paper
Using the built-in Inline Priming Unit, the press can print on virtually any type of paper, from 27 lb text to 236 lb cover including coated, uncoated, superglossy and recycled, enabling unlimited availability.

Boost your sustainability
The HP Indigo 50000 Digital Press is manufactured carbon neutral, and offers reduced production waste, a takeback program, and energy efficiency. An on-press recycling system reduces Imaging Oil consumption by 50%.

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.

CO_2 neutral

To learn more, visit hp.com/go/graphic-arts or hp.com/go/hpindigo50000

High quality, high productivity

HP Indigo's leading digital offset quality

Digital offset color technology. HP Indigo ElectroInk and the HP Indigo digital offset process deliver crisp linework, attractive images and smooth vignettes with a very thin ink layer that gives uniform gloss between ink and substrate.

Widest digital color gamut. Use up to 7 ink stations to take advantage of the extensive color gamut. 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 for outstanding Pantone-approved solids, covering up to 97% of the PANTONE® color range.

Photo quality printing. Enhance image quality for photo applications with 6-color printing with light cyan and light magenta photo inks that deliver smoother images and tone transitions. Produce high-end monochrome with light black inks in 2-color printing with black. Special photo modes deliver even more superior smoothness and color uniformity.

High print permanence. An independent testing institute, Wilhelm Imaging Research, has verified the permanence of HP Indigo photobook 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.

Produce high-coverage publishing applications.

High productivity and efficiency

Long image format. The 29.3 x 44 inch image size provides the flexibility to print virtually any application of any size. Capture applications with larger image sizes including oversized photobooks, yearbooks, lay-flat books, long book covers, and calendars. Use the format to gang jobs and for efficient imposition of small images for higher productivity and reduced media waste.

Production efficiency. Produce books cost-effectively in just the right quantities, enabling customers to streamline the supply chain and dramatically reduce the costs of warehousing and obsolescence. Impose A4 book pages 10-up for more than 1800 200-page, high-quality color books per shift. Benefit from wide flexibility from duplex printing to produce 20-page signatures (A4) or 42-page signatures (A5).

Printing mode flexibility. Take advantage of HP Indigo's color switching technology to lower costs and boost productivity by printing with fewer than 4 colors. Enhanced Productivity Mode using three colors delivers 33% higher color throughput to 770 ppm while maintaining the same Indigo quality. It also consumes 25% less energy per printed page. Print in two colors at 1150 ppm, and monochrome at a speed of 2300 ppm. Produce high-end monochrome with HP Indigo ElectroInk Light Black in 2-color printing with standard black.

Intelligent color management. Easily meet color standards and achieve color accuracy and consistency across Indigo presses, sites, and between Indigo and offset. A built-in spectrophotometer and software tools eliminate the need for manual processes.

Robust supplies. Large-volume ink tubes with higher pigment concentration allow the press to run uninterrupted for long periods.

End-to-end solutions

Print server. HP SmartStream Production Pro Print Server is the most reliable print server in the market, driving HP Indigo presses at consistent and record-breaking speed.

Finishing solutions. Create an end-to-end production line together with HP Indigo finishing partners and inline finishing connectivity including via JDF, for the end-to-end delivery of a broad application range in the most efficient and flexible manner.
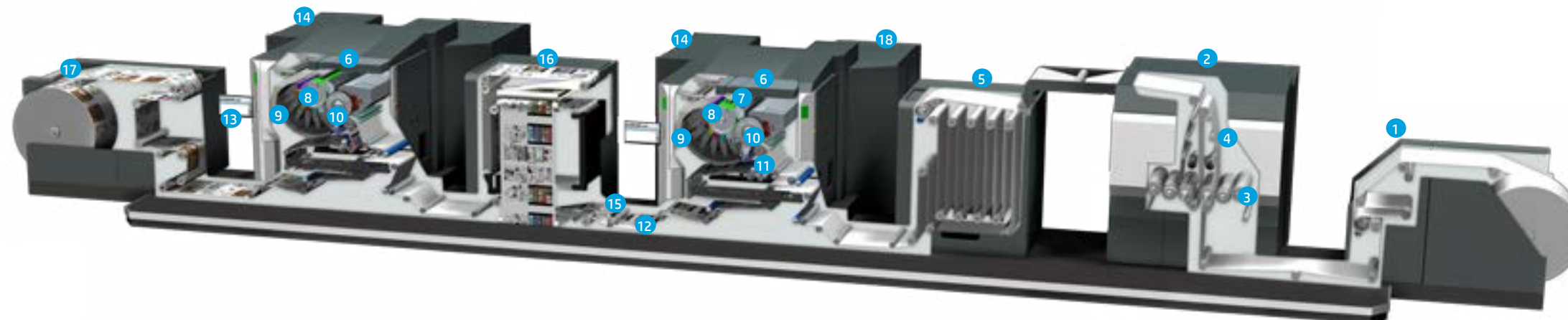
PrintOS. Print Beat provides visibility to press performance to drive continuous improvement to print operations. PrintOS Site Flow efficiently manages any number of jobs per day, even hundreds or thousands. Automate, simplify and streamline files submission with PrintOS Box. Use PrintOS Composer for heavy VDP processing including sophisticated HP SmartStream Mosaic campaigns.

High productivity for large-sized marketing collateral.

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. Unwinder
2. Inline Priming Unit
3. Priming station (Anilox based)
4. Dryer
5. Buffer unit
6. High-speed laser writing head
7. Charge roller
8. Photo Imaging Plate (PIP)
9. Binary Ink Developers (BIDs)
10. Blanket
11. Impression cylinder
12. Inline spectrophotometer
13. Working station
14. Ink cabinet
15. Inline scanner
16. Buffer Control Unit
17. Rewinder
18. Imaging oil recycling system

Technical specifications

Printing speed	575 four-color 8.5 x 11 in pages per minute 4/0 770 three- color 8.5 x 11 in pages per minute 1150 two-color 8.5 x 11 in pages per minute 2300 monochrome 8.5 x 11 in pages per minute
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 160, 175, 180, 180m, 181, HMF-200
Image size	29.3 X 44 in maximum
Web width	15.7 – 30 in; Min repeat length 21.6 in; Max repeat length 44.88 in
Paper weight*	Coated and uncoated: 27 text to 236 lb cover; (subject to paper stiffness) Thickness: 2.7 to 16 pt
Unwinder	• Input roller diameter 51.2 in • Input roll inner core diameter: • Standard: 3 in • Optional: 6 in
Print servers (DFEs)	HP SmartStream Production Pro
Press dimensions	Length: 818.89 in; Width: 185 in; Height: 82.83 in
Press weight	51,478 pounds (roll to floor configuration including unwinder, buffer, inline priming unit, platforms, printing engines, BCU). Optional rewinder 6,616 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
6-color photo printing	Cyan, magenta, yellow, black, light cyan, and light magenta
HP IndiChrome Plus 7-color printing	Cyan, magenta, yellow, black, orange, violet, and green
Special effect inks	Light cyan, light magenta, light black, and light light black
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® color	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
Rewinder	• Input roller diameter 51.2 in • Input roll inner core diameter: • Standard: 3 in • Optional: 6 in
Slitter	Add-on to rewinder

PANTONE®
Digital Color

Learn more at
hp.com/go/indigo

Sign up for updates
hp.com/go/getupdated

Share with colleagues   Rate this document