

HP Indigo 5900 Digital Press

The gateway to HP Indigo quality



Enter the world of quality, versatility and robustness

The HP Indigo 5900 Digital Press is the entry point to HP Indigo's offset-matching quality and versatility, driven by the latest innovations for smart and productive printing. Broad capabilities, including printing on synthetics and extra thick substrates, enable an extensive range of high-value applications and an unparalleled variety of colors.

Highly productive and capable

The leading choice for medium-volume printers, the press prints at 90 color pages per minute for more than two million color pages per month. It can also deliver five million pages per month using its rapid 272 pages per minute monochrome speed. HP SmartStream Production Pro brings substantial RIP power. Multiple drawers enable continuous printing of a diverse job mix, and seamlessly switching between jobs and media types. HP SmartStream Mosaic produces millions of one-of-a-kind products using variable design technology.

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 of the highest quality. They match or even exceed offset, allowing them to be used interchangeably. ElectroInk has the widest digital color gamut, in addition to special inks, using up to 7 ink stations on press. A 5th ink station is standard.

Biggest media range including thick substrates

Boasting the widest substrate offering in digital production, the press is compatible with uncoated and coated papers, as well as canvas, synthetics, lenticular, metalized, dark and transparent media, and paperboard. Print on thick substrates up to 22 pt and ultra-thick synthetics up to 24 pt. Use on-press primer to print on an extended range of paperboards.

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 your production. Use PrintOS to continuously improve operations. Access the open and secure cloud-based PrintOS platform anytime, anywhere.



Boost your sustainability.

The HP Indigo 5900 Digital Press is manufactured carbon neutral, and offers reduced production waste, a takeback program, and energy efficiency. Certified with the Intertek Green Leaf Mark.

CO₂ neutral

To learn more, visit hp.com/go/graphic-arts
or hp.com/go/hpindigo5900

A highly versatile digital printing solution

Uncompromising HP Indigo value and quality

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

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 mixed off press or ordered from the HP IndiChrome Ink Mixing Service for outstanding Pantone-approved solids, reaching 97% of the PANTONE® color range.

Printing mode flexibility. Lower costs and boost productivity by printing high-quality prints in fewer than four colors. Enhanced Productivity Mode using only three colors delivers 33% higher throughput, significantly reducing turnaround time and production costs, as well as 25% less energy consumed per printed page. A pre-flight solution by Enfocast can automatically select suitable jobs. Print in two colors at 136 ppm, and monochrome at a speed of 272 ppm.

Proven success. The HP Indigo 5900 Digital Press is the latest model in the HP Indigo 5000 Digital Press Series with thousands of presses sold and over 100 billion printed impressions. It is a proven platform that delivers consistently high quality, reliability and productivity.

Wide flexibility for high-value specialty applications

Specialty media printing. One Shot technology extends media capabilities to unique substrates including canvas, synthetic, lenticular, and metalized media. All color separations are accumulated on the blanket and transferred to the substrate in a single pass for perfect registration. Offer plastic cards, photo canvas, metalized cartons, and specialty products.

Ultra thick and thick synthetics. Print on opaque PVC materials up to 24 pt, opening new applications such as mono-core plastic cards and more. Offer an alternative to silk screen printing for manufacturers of industrial products, including panels, labels, and clothing tags. Support for thick paperboard up to 22 pt, including duplex printing, enables an array of folding cartons to help you get into the packaging world, as well as point of purchase applications.

Protecting your investment. Most innovations in the HP Indigo 5900 Digital Press will be available as optional upgrades for the HP Indigo 5600 and the HP Indigo press 5500.



Digital ink priming. Use HP Indigo ElectroInk Primer to extend the variety of paperboards for the 22 pt thick substrate capability.

High-impact inks. Printing with HP Indigo ElectroInk White on transparencies, dark, colored, and metallic substrates creates a high impact for white-on-black invitations, business cards, covers and cards. HP Indigo ElectroInk Fluorescent Pink offers high-value pages and glow effects under UV light for cards, publishing, specialty products, and more. Transparent ink creates a gloss effect on a matte substrate and can be used for watermark printing.

Production management and workflow

Powerful print server. Now provided for the HP Indigo 5000 Digital Press Series, HP SmartStream Production Pro is a powerful print server designed to meet challenging workloads. It offers a wealth of easily automated prepress tools to optimize production. Use an embedded real-time guide to easily leverage these capabilities.

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.

Open standards. HP Indigo's openness makes it possible to tailor a solution according to specific business needs. JDF workflow architecture supports both upstream and downstream JDF connectivity, including inline and near line finishing.



- 1. Feeder
- 2. High-speed laser writing head
- 3. Scorotron charging units
- 4. Photo Imaging Plate (PIP)
- 5. Binary Ink Developers (BIDs)
- 6. Blanket

- 7. Impression cylinder
- 8. Perfector
- 9. Ink cabinet
- 10. Proof tray
- 11. Stacker
- 12. Imaging Oil Recycling System

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	68 four-color 8.5 x 11 in pages per minute (two-up); 90 color 8.5 x 11 in pages per minute in EPM (two-up); 136 two-color 8.5 x 11 in pages per minute (two-up); 272 full monochrome 8.5 x 11 in pages per minute (two-up)
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	175, 180, 180m, 230 lpi
Sheet size	13 x 19 in maximum
Image size	12.48 x 17.7 in maximum
Paper weight*	Coated: 55 lb text to 130 lb cover; Uncoated: 40 lb text to 120 lb cover Thickness: 3 to 16 pt.
Feeder	Four drawers: Three drawers with 7 in depth each (1800 sheets of 80 lb text each) One special jobs drawer: 2.5 in (700 sheets of 80 lb text) A total of 6100 sheets of 80 lb text. All drawers support the full range of substrates.
Stacker	Main stacking tray with 23.6 in stack height, supporting offset jogging (6100 sheets of 80 lb text) Proof tray with 2.36 in stack height (600 sheets of 80 lb text)
Print servers (DFE)	HP SmartStream Production Pro
Cloud connectivity	Via HP PrintOS
Press dimensions	Length: 155.5 in (additional 19.7 in with TSK 550) ; Width: 89.8 in; Height: 81.7 in
Press weight	5900 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
5-color printing	Via 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 inks	Invisible red, light cyan, light magenta, white, digital matte, transparent, fluorescent pink, 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® 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 (IMS) for achieving up to 97% of the PANTONE® color range.
Options	
Expanded color capabilities	6 or 7 on-press ink stations; HP IndiChrome Ink Mixing System
White ink kit	Enables use of white ink
Thick Substrate Kit 550	Supports substrates up to 22 pt (paperboards with duplex printing and synthetics with One Shot printing)
HP Indigo ElectroInk Primer	On-press priming solution for off-the-shelf paperboard up to 22 pt.
Ultra thick substrate kit	Enables printing on opaque PVC materials up to 24 pt and 850 gsm
One Shot process kit	Enables printing on synthetics using HP Indigo One Shot technology
Print servers (DFEs)	HP SmartStream Ultra Print Server; HP SmartStream Labels and Packaging Print Server, Powered by Esko
Additional feeder	One additional feeder with three drawers, each with 7 in of media
Additional stacker	One additional stacker with 23.6 in of media

*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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environmental credentials

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