

HP Indigo 7600 Digital Press

A high-performance sheetfed press
with innovative capabilities



Efficiency and versatility for a broad range of applications

The HP Indigo 7600 Digital Press, the fastest SRA3+ format digital sheetfed press in the market, combines proven quality, versatility, and breakthrough productivity with intelligent automation that maximises uptime. Special effect printing expands high-value opportunities.

Breakthrough speed and productivity

The press prints four million colour pages per month with high profitability. High productivity is driven by robust hardware, software, and workflow, including pre-press and post-press integration. In Enhanced Productivity Mode, the press prints 33% faster at 160 colour ppm, boosting volume significantly.

High automation

Intelligent automation, powered by an enhanced Vision System, maintains and delivers quality prints, reducing operator intervention. The Automatic Alert Agent identifies print defects in real time. Automated calibrations keep registration and other key quality parameters on track.

Special print effects

On-demand special effects capabilities, including raised print and textured effects, offer outstanding differentiation to the print service provider, for a wide range of high-value applications.

The leader in print quality and colour

Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo prints are of the highest quality. They match or even exceed offset, allowing them to be used interchangeably. ElectroInk has the widest digital colour gamut, including special effect inks, using up to 7 ink stations on press.

- ElectroInk and the Indigo process deliver a very thin ink layer that gives uniform gloss.
- 4, 6 or 7 process colours for vivid printing and optimal on-press Pantone emulations.
- True spot colours, mixed off press, for outstanding Pantone-approved solids.

Widest media range

Compatible with more than 2800 substrates, the press enables PSPs to offer unique jobs using dark, transparent, metallic, and recycled papers, and paperboard for folding cartons.

Sustainability

Certified with the Intertek Green Leaf Mark, it is also the first HP Indigo press whose carbon manufacturing footprint has been fully offset.

To learn more, visit hp.com/go/graphic-arts
or hp.com/go/hpindigo7600



Raised print produces eye-catching, tactile effects that can turn an ordinary application into the extraordinary.

Everything a digital press can do and far more

High performance, intelligent automation

Designed to meet the most demanding peak production deadlines and financial targets, the HP Indigo 7600 Digital Press is the only digital sheetfed press in the market that can print four million colour pages every month. Innovative automated processes performed in the press reduce operator intervention, increasing press uptime while reducing waste.

Enhanced Productivity Mode (EPM). Increase throughput by 33% to 160 pages per minute for most image-rich colour jobs, significantly reducing turnaround time and production costs.

Advanced diagnostics and troubleshooting. HP Indigo Print Care 2.0 increases press uptime by assuring quick and accurate problem solving either by the operator or through remote support.

Vision System. Automatic, hands-free press calibrations and diagnostics guided by the system reduce operator effort, saving time, and diminishing errors.

Automatic Alert Agent. Automated early detection system helps identify quality problems during printing by finding inconsistencies between the digital file and the printed sheet, preventing imperfect sheets from reaching the end customer.

Production Excellence Routines. Best-in-class operator maintenance procedures are designed to provide maximal uptime and optimal print quality.

Field upgradeability. Most of the innovations in the press are upgradable options for HP Indigo 7000 Series digital presses.

High-value applications

Special effects printing and a variety of special inks open opportunities for unique applications that can increase profits. These special applications are created on press, making them quick and simple to achieve compared with laborious conventional methods.

HP Indigo Worldwide Services— Driving your production excellence

A comprehensive system of tools, knowledge and support ensures you are able to print what you need, when you need it, at the highest level of efficiency and Indigo print quality. Our certified service teams are committed to meeting your end-to-end needs for accelerated ramp-up, increased system utilisation and maximum uptime.



Textured and raised effects. Create embossed-style textures on substrates to give ordinary applications a boost of creativity and uniqueness. Make raised effects using layers of transparent ink applied directly to the substrate.

Digital watermarks. Offer customers a new application using one layer of transparent ink.

HP Indigo ElectroInk White. Print in white and produce a wide variety of new applications on a diverse range of media including transparencies, dark, coloured, and metallic substrates.

Invisible print. HP Indigo ElectroInk Invisible Red produces print that is only visible under UV light to create text, images, and barcodes for cards, tickets, coupons, and in-house processing and control.

Photo inks. Light cyan and light magenta bring out realistic skin and sky tones for professional photographic printing. HP Indigo ElectroInk Light Black enhances the quality of black-and-white photoreproduction. Using light black in 2-colour printing with black doubles throughput and lowers cost.

End-to-end workflow

Both the press and its workflow are designed to produce any application end-to-end including digital finishing.

Powerful DFE. HP Indigo SmartStream Production Pro 5.0 supports high-volume production of large quantities of jobs, including variable data. The server has a faster RIP engine and built-in FOGRA and GRACoL colour profiles.

Open JDF workflow architecture. Supports both upstream and downstream JDF connectivity, including inline and near line finishing. This architecture enables integration with third-party production systems through Software Development Kits (SDKs) and leverages HP SmartStream products including Production Center and Production Analyzer.

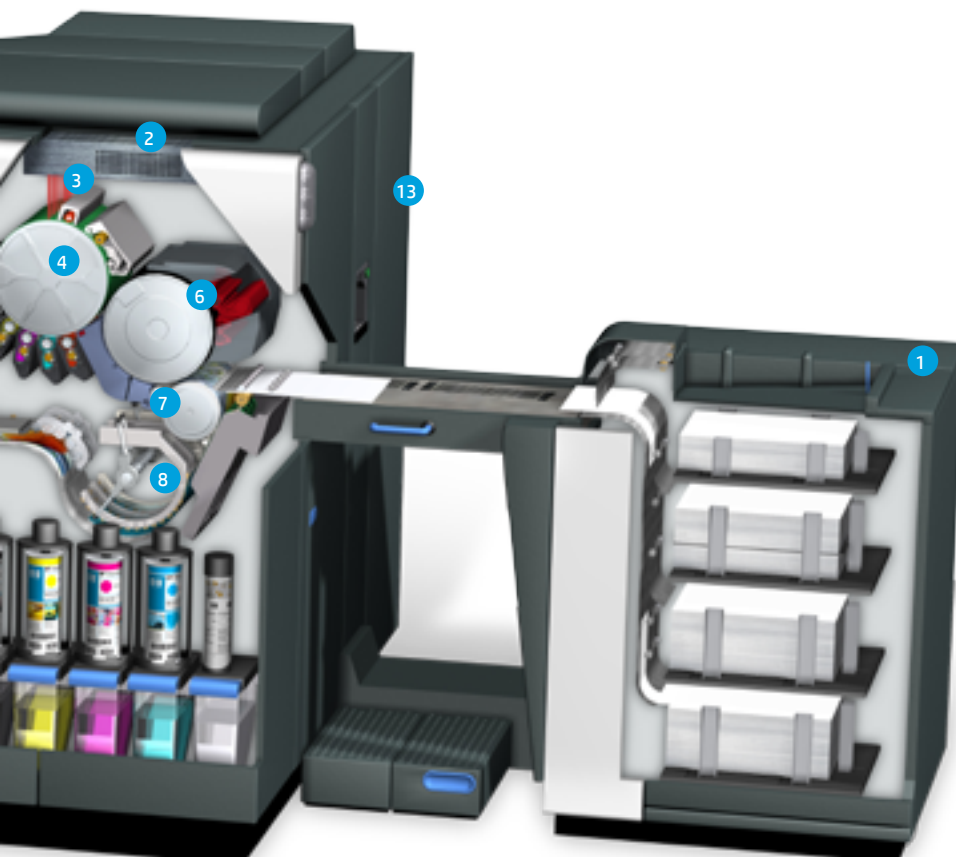
Inline and near line finishing. HP Indigo Direct2Finish finishing automation, near-line or in-line, reduces make-ready, turnaround time, waste and errors with automated finishing setup and operation. Solutions include the Duplo UV coater and CP Bourg booklet maker.



Create dramatic effects using HP Indigo ElectroInk White, on black and dark substrates.



On-press textured effects simulate conventional embossing, producing creations that are unique and stand out.



Use HP SmartStream products and partner solutions with the HP Indigo 7600 Digital Press to improve production efficiency and support digital growth. To learn more visit hp.com/go/smartstream

1. Feeder
2. High-speed laser writing head
3. Charge roller
4. Photo Imaging Plate (PIP)
5. Binary Ink Developers (BIDs)
6. Blanket
7. Impression cylinder
8. Perfector
9. Ink cabinet
10. Vision System
11. Proof tray
12. Stacker
13. Imaging Oil Recycling System

Technical specifications

Printing speed	120 four-color A4 pages per minute (two-up) 160 A4 colour pages per minute in EPM (two-up) 240 two-color or monochrome A4 pages per minute (two-up)
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 160, 175, 180, 180m lpi
Sheet size	330 x 482 mm maximum
Image size	317 x 464 mm maximum
Paper weight*	Coated: 80 to 350 gsm; Uncoated: 60 to 350 gsm Thickness: 70 to 400 microns
Feeder	Four drawers: Three drawers with 180 mm each (1800 sheets of 120 gsm each) One special jobs drawer: 70 mm (700 sheets of 120 gsm) A total of 6100 sheets of 120 gsm. All drawers support the full range of substrates.
Stacker	Main stacking tray with 600 mm stack height, supports offset jogging (6100 sheets of 120 gsm) Proof tray with 60 mm stack height (600 sheets of 120 gsm)
Print servers (DFEs)	HP SmartStream Production Pro Print Server
Press dimensions	Length: 5443 mm; Width: 2298 mm; Height: 2104 mm
Press weight	3300 kg
HP Indigo Electrolinks	
Standard 4-colour printing	Cyan, magenta, yellow, and black
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	Light black, light cyan, light magenta, white, transparent and invisible red
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing System (IMS) 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 (IMS) for achieving up to 97% of the PANTONE® colour range.
Options	
Print server (DFE)	HP SmartStream Ultra Print Server
Expanded colour capabilities	5, 6, or 7 on-press ink stations; HP IndiChrome Ink Mixing System
Auto Alert Agent	Enables on-press alert system
Special effects kit	Enables creation of on-demand, on-press high-value applications
White ink kit	Enables use of white ink
Thick substrate kit	Supports paperboards up to 400 gsm/ 460 microns
Additional feeder	One additional feeder with three drawers, each with 180 mm of media
Additional stacker	One additional stacker with 600 mm 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.



Independently verified for
environmental credentials



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