HP Indigo 7800 Digital Press

A high-performance sheetfed press with exceptional capabilities

Offset-matching quality with ultimate versatility

The HP Indigo 7800 Digital Press is the fastest SRA3+ format digital sheetfed press in the market, combining proven quality, versatility, and breakthrough intelligent automation to maintain the highest possible productivity. Special printing capabilities expand digital applications.

Breakthrough speed and productivity

Advanced systems and software drive high productivity for more output per day, every day. Print colour pages at up to 160 ppm for more than 5 million colour pages every month using Enhanced Productivity Mode (EPM). On-press production manager optimises the printing queue. Sophisticated colour automation ensures accuracy and consistency within the job, across time, and among presses and sites.

Special printing capabilities

Enable customers to make an impact with high-value digitally printed applications. Print on synthetic substrates, canvas and plastic cards using HP Indigo's unique One Shot Colour technology. Produce raised print and textured effects on-press, saving the costs of traditional methods.

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, in addition to special effect inks, using up to 7 ink stations on press.

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

Widest media range

Compatible with more than 2800 substrates, the press enables PSPs to offer unique jobs using dark, transparent, metallic, off-the-shelf, and recycled papers, synthetic and lenticular substrates, and paperboard for folding cartons. Print on thick substrates up to 400 gsm.

Sustainability

The HP Indigo 7800 Digital Press is certified with the Intertek Green Leaf Mark and offers reduced production waste, energy efficiency, and carbon-neutral manufacturing. The Regenerated Imaging Oil (RIO) system allows the press to be self-sustainable in imaging oil usage.

To learn more, visit hp.com/go/graphic-arts or hp.com/go/hpindigo7800

Everything a digital press can do and much more

High productivity, intelligent automation

Designed to meet the most demanding peak production deadlines and financial targets, the HP Indigo 7800 Digital Press can print up to 5.3 million colour pages every month. Innovative automated processes reduce operator intervention, increasing press uptime.

Intelligent colour management. A built-in spectrophotometer and software tools simplify colour management and eliminate the need for expensive software, hardware and manual calibration processes, delivering consistent colour output over time and across presses and sites. Reduce the cost and complexity in maintaining compliance with colour standards such as Fogra and GRACoL.

Optimizer. Benefit from overall higher productivity of up to 50% using the Optimizer, an algorithm that calculates the most efficient use of press printing time. Print continuously and proof in parallel. Optimizer automatically prioritises the job queue according to job length, and substrate type and size. Optimizer shows the estimated time of completion for each and every job in the queue and provides a list of all substrate types and quantity in advance.

Enhanced Productivity Mode (EPM). Increase throughput by 33% from 120 ppm to 160 ppm for most image-rich colour jobs, significantly reducing turnaround time and production costs.

Automatic Alert Agent. Automated early detection system helps identify print quality problems in real time by finding inconsistencies between the digital file and the printed sheet.

Vision System. Automatic, hands-free press calibrations guided by the system reduce operator effort, saving time, and improving both print quality and consistency.

Advanced diagnostics and troubleshooting. HP Indigo Print Care is a comprehensive suite of enhanced support tools and services to keep press operations on track. Operators are guided through automated or manual processes, and can also receive live support.

Production Excellence Routines. Clear and robust daily, weekly and monthly maintenance procedures are integrated into the press software to ensure the press is kept in top shape.

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

Print plastic cards using One Shot Colour printing.

Use Enhanced Productivity Mode for 33% higher productivity.

Photo canvas printing expands product offering.

HP Graphics Solutions 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.

Learn more at hp.com/go/indigoservice

Special capabilities take printing to the next level

The HP Indigo 7800 Digital Press has extra printing capabilities, special inks and supports unique media, enabling high-value products using cost-effective digital production.

Printing on synthetics. Produce plastic card and specialty applications on synthetics with HP Indigo's One Shot Colour technology. All colour separations are accumulated on the blanket and transferred to the substrate in a single pass for perfect registration. Launch new business with ID cards, credit cards, lenticular applications, gift cards, and more.

Textured and raised effects. Create embossed-style textures for a boost of creativity and uniqueness. Make images stand out with raised print using layers of transparent ink. Digital watermarks can be produced for corporate and security applications. HP Indigo ElectroInk Digital Matte creates selective glossy varnish effects that stand out, in a one-pass process.

White ink. Print on transparencies, dark, coloured,and metallic substratesfor high-impactapplications such as white-on-black invitations, greeting cards, photo albums, and more.

Fluorescent pink ink. HP Indigo ElectroInk Fluorescent Pink offers premium pages and glow-in-the-dark effects for greeting cards, promotional collateral, fashion applications, specialty products, publishing opportunities and more.

Photo applications. Light cyan and light magenta bring out realistic skin tones for professional printing. Light black enhances the quality of black-and-white photo reproduction. Print on canvas for high-value photo products using One Shot Colour.

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

End-to-end workflow

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. It allows multi-press connectivity and management from a single or a Web-connected device.

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.

Finishing automation. HP Indigo's Direct2Finish near-line or inline capability offers the capability to move jobs from print to finish flawlessly, transmitting JDF instructions from the print server to the JDF-enabled finisher automatically sets up and operates the finishing device, saving time, reducing errors and eliminating waste.

Raised print produces eye-catching, tactile effects.

HP Indigo ElectroInk Fluorescent pink for high-value pages.

Use HP SmartStream products and partner solutions with the HP Indigo 7800 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. Inline spectrophotometer

10. Ink cabinet

11. Vision System

12. Proof tray

13. Stacker
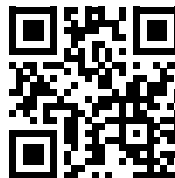
14. Imaging Oil Recycling System

Technical specifications

Printing speed	120 four-colour A4 pages per minute (two-up) 160 A4 colour pages per minute in EPM (two-up) 240 two-colour 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, 210, HMF200 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 150 mm each (1500 sheets of 120 gsm each) One special jobs drawer: 70 mm (700 sheets of 120 gsm) A total of 5200 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 ElectroInks	
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	Digital matte, fluorescent pink, invisible red, light black, light cyan, light magenta, and white
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
Optimizer	Automatic prioritisation of the job queue
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
One Shot process kit	Enables printing on synthetics using HP Indigo One Shot Colour technology
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. HP cannot guarantee performance of media not listed in the Media Locator and recommends testing prior to use.

PANTONE® Digital Color

Intertek CERTIFIED — **Independently verified for environmental credentials**

CO₂ neutral

Learn more at
hp.com/go/hpindigo7800

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