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 13 x 19 inch 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 color pages at up to 160 ppm for more than 5 million color pages per month using Enhanced Productivity Mode. On-press job scheduling tools optimize the printing queue. Sophisticated color automation ensures accuracy and consistency within the job and among presses and sites.

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

The leader in print quality and color
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 color, 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 colors for vivid printing and optimal on-press Pantone emulations.
- True spot colors, 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, and recycled papers, synthetic and lenticular substrates, and paperboard for folding cartons. Print on thick substrates up to 18 pt.

Sustainability
Offering reduced production waste, energy efficiency, and carbon-neutral manufacturing, the HP Indigo 7800 Digital Press carries the Green Leaf Mark from Intertek, a leading independent certification and testing company.

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

Print on synthetics. Specialty items such as plastic cards open new business opportunities.

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 color pages every month. Innovative automated processes reduce operator intervention, increasing press uptime.

Intelligent color management. Built-in color management tools eliminate the need for expensive software, hardware and manual calibration processes, delivering consistent color output between presses and sites. Reduce the cost and complexity in maintaining compliance with color standards such as GRACoL and Fogra.

Smart Scheduling. Maximize print time and benefit from quick and easy proofing while printing with Smart Scheduling, delivering significantly higher real production capacity. The system automatically optimizes the job queue according to priority, job length, substrate type, and image size, allowing most sites to print considerably higher volume per shift.

Enhanced Productivity Mode (EPM). Increase throughput by 33% from 120 ppm to 160 ppm for most image-rich color 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 in kept in top shape.

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

Special capabilities take printing to the next level

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

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 utilization and maximum uptime.

Learn more at hp.com/go/indigoservice

Plastic card and specialty printing. Produce plastic card and specialty applications on synthetics with HP Indigo's One Shot Color technology. All color 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 cards, 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 in white on a diverse range of media including transparencies, dark, colored, and metallic substrates—available only on HP Indigo digital presses. Deliver high-impact applications such as white-on-black invitations, greeting cards, photo albums, and more.

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.

Photo inks. Light cyan and light magenta bring out realistic skin tones for professional printing. Light black enhances the quality of black-and-white photo reproduction.

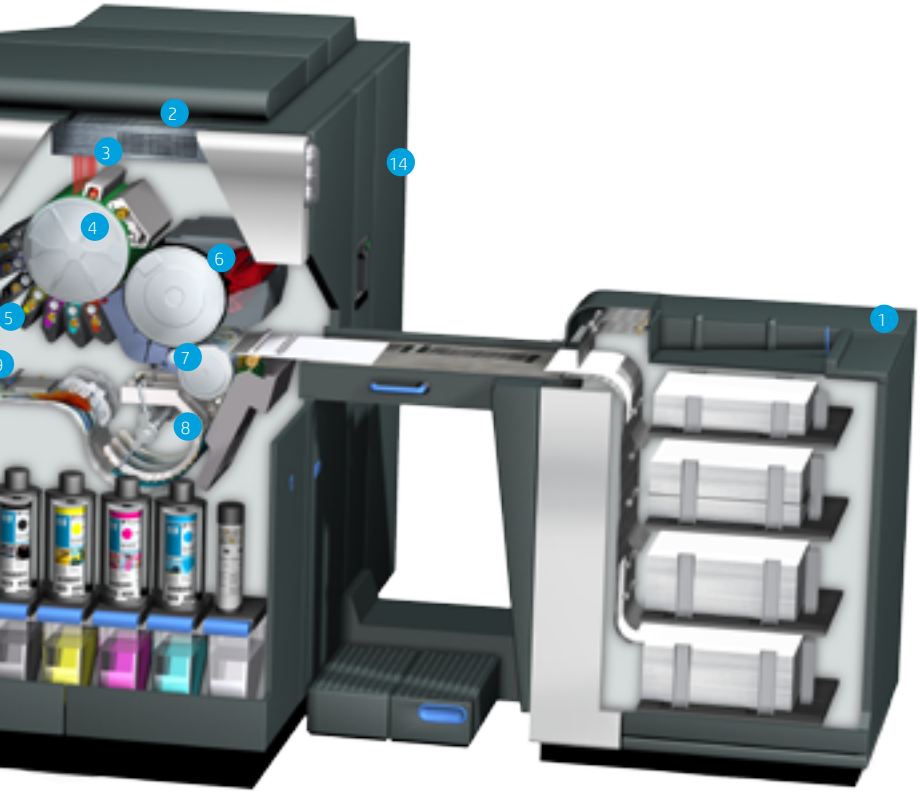
End-to-end workflow

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 5.1 supports high-volume production of large quantities of jobs, including variable data, now RIPing files faster than ever. Enjoy easy access and single point of control via the web-based user interface.

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. Finishing becomes a true part of workflow with HP Indigo's Direct2Finish near-line or inline, reducing make-ready, turnaround time, waste and errors with automated finishing setup and operation. Capable of driving multiple devices from different vendors, Direct2Finish solutions include CP Bourg booklet maker, Duplo UV coater and Lasermax Roll Systems PageReady cutter/stacker.



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

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

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-color 8.5 x 11 in pages per minute (two-up) 160 8.5 x 11 in color pages per minute in EPM (two-up) 240 two-color or 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	144, 160, 175, 180, 180m lpi
Sheet size	13 x 19 in maximum
Image size	12.48 x 18.26 in maximum
Paper weight*	Coated: 55 lb text to 130 lb cover; Uncoated: 40 lb text to 130 lb cover; Thickness 3 to 16 pt
Feeder	Four drawers: Three drawers with 6 in each (1500 sheets of 80 lb text each) One special jobs drawer: 2.5 in (700 sheets of 80 lb text) A total of 5200 sheets of 80 lb text. All drawers support the full range of substrates.
Stacker	Main stacking tray with 23.6 in stack height, supports offset jogging (6100 sheets of 80 lb text) Proof tray with 2.36 in stack height (600 sheets of 80 lb text)
Print servers (DFEs)	HP SmartStream Production Pro Print Server
Press dimensions	Length: 214.3 in; Width: 90.5 in; Height: 82.8 in
Press weight	7300 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
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	Light black, light cyan, light magenta, white, transparent, invisible red, and digital matte
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	
Print server (DFE)	HP SmartStream Ultra Print Server
Expanded color 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 18 pt.
One Shot process kit	Enables printing on synthetics using HP Indigo One Shot Color technology
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. HP cannot guarantee performance of media not listed in the Media Locator and recommends testing prior to use.

PANTONE® Digital Color

Intertek Independently verified for environmental credentials

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