

# HP Indigo 7900 Digital Press



A high-performance sheetfed press with unique capabilities



## The freedom to do more

The HP Indigo 7900 Digital Press is the market-leading SRA3+ format digital sheetfed press, keeping you a step ahead with major innovations in print quality, intelligent automation and media versatility to reach the highest levels of productivity. Distinct printing capabilities enable the widest range of digital applications.

### The leader in print quality and colour

Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo digital prints are the highest quality. Using dozens of software and hardware innovations, the press delivers the smoothest and sharpest prints in the industry, matching or even exceeding offset quality. HP Indigo ElectroInk has the widest digital colour gamut, in addition to special inks, using up to 7 ink stations on press. A 5th ink station is standard.

### Unlimited versatility for any application

Meet any customer request faster than ever. On-press priming enables printing on virtually any paper for new production possibilities. Produce applications that stand out with special effects and unique inks. One Shot technology prints on specialty substrates including canvas, synthetics, lenticular, and metallised media. HP SmartStream Mosaic produces millions of one-of-a-kind products using variable design technology.

### High productivity

Print in colour at up to 160 ppm for more than 5 million colour pages every month. Sophisticated colour automation ensures standard-matching colour accuracy and consistency saving time and costs. An on-press production assistant ensures non-stop printing. Benefit from the industry's most scalable and powerful print server.

### The choice of brands

Brands use HP Indigo for its high print quality, just-in-time production, and ability to engage customers by customisation and personalisation with unique variable data printing capabilities.

### 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 7900 Digital Press is manufactured carbon neutral, and offers reduced production waste, a takeback program, and energy efficiency. Certified with the Intertek Green Leaf Mark.

**CO<sub>2</sub> neutral**

To learn more, visit [hp.com/go/graphic-arts](https://hp.com/go/graphic-arts)  
or [hp.com/go/hpindigo7900](https://hp.com/go/hpindigo7900)

# A digital press and much more

## Leading digital print quality

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

**Setting new quality standards.** Major innovation in software, hardware and supplies takes printing quality to new levels. Advances include optimised calibrations for perfect colour uniformity, tailored print quality modes, and a microsphere-based blanket.

**Widest digital colour gamut.** Use the 5th ink station to take advantage of special inks and spot colours. Emulate PANTONE® colours on press using CMYK or HP IndiChrome's 6- or 7-colour process. True spot colours can be mixed off press or ordered from the HP IndiChrome Ink Mixing Service, covering up to 97% of the PANTONE® colour range.

## Unmatched versatility

**Specialty media printing.** One Shot technology extends media capabilities to special substrates including canvas, synthetic, lenticular, dark and metalized media. All colour separations are transferred to the substrate in a single pass with perfect registration. Launch new business with plastic cards, photo specialty canvas prints, lenticular applications, and more.

**Digital ink priming.** Use HP Indigo ElectroInk Primer to meet any customer need and print on an extended range of substrates, including offset stock and specialty papers.

**Unlimited designs.** Automate the creation of millions of one-of-a-kind designs with HP SmartStream Mosaic's variable design technology for sophisticated, high-value products. It now includes colour shuffling capabilities.

**High-impact inks.** HP Indigo ElectroInk White on transparencies, dark, and metallic substrates makes a high-impact for invitations, greeting cards, photo albums, and more. HP Indigo ElectroInk Fluorescent Pink stands out for premium pages and glow-in-the-dark effects.

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



Raised print makes tactile effects.

**Protecting your investment.** Most innovations in the HP Indigo 7900 will be available as optional upgrades to the HP Indigo 7000 Digital Press Series.



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



## Smart automation for high productivity

**Make the best use of press time.** Benefit from up to 40% higher productivity using Optimiser, the on-press production efficiency assistant. The artificial intelligence algorithm optimises the queue for non-stop printing using Indigo's unique proof-while-print capability.

**Colour automation.** Use automated colour management tools and the inline spectrophotometer to easily meet colour standards and achieve colour accuracy and consistency across Indigo presses, sites, and time, as well as between Indigo and offset.

**Enhanced Productivity Mode (EPM).** Increase throughput by 33% using only three colours, significantly reducing turnaround time and production costs, with 25% less energy consumed per printed page. A pre-flight solution by Enfocus can automatically select suitable jobs.

**Automated print quality control.** The Automatic Alert Agent performs real-time error detection while printing, reducing waste and increasing productivity. The system finds and highlights inconsistencies between the digital file and the printed sheet.



## End-to-end production

**Powerful print server.** HP SmartStream Production Pro Print Server 6 is the industry's most scalable and powerful print server. It can handle the most challenging workloads and offers a wealth of easily automated prepress tools to optimise production.

**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.

**Finishing.** Direct2Finish allows automating the bindery by creating and delivering JDF instructions to enabled finishing devices. This allows faster turnarounds, lowers labor costs and prevents costly errors in the finishing department. HP Indigo partners with leading finishing vendors to drive cost-effective end-to-end production.

### 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

<b>Printing speed</b>	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)
<b>Image resolution</b>	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
<b>Line screens</b>	144, 160, 175, 180, 180m, 210, HMF200 lpi
<b>Sheet size</b>	330 x 482 mm maximum
<b>Image size</b>	317 x 464 mm maximum
<b>Paper weight*</b>	Coated: 80 to 350 gsm; Uncoated: 60 to 350 gsm; Thickness: 70 to 400 microns
<b>Feeder</b>	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
<b>Stacker</b>	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)
<b>Print servers (DFE)</b>	HP SmartStream Production Pro Print Server
<b>Cloud connectivity</b>	Via HP PrintOS
<b>Press dimensions</b>	Length: 5443 mm; Width: 2298 mm; Height: 2104 mm
<b>Press weight</b>	3300 kg
<b>HP Indigo ElectroInks</b>	
<b>Standard 4-colour printing</b>	Cyan, magenta, yellow, and black
<b>5-colour printing</b>	Via the 5th ink station
<b>HP IndiChrome 6-colour printing</b>	Cyan, magenta, yellow, black, orange, and violet
<b>HP IndiChrome Plus 7-colour printing</b>	Cyan, magenta, yellow, black, orange, violet, and green
<b>Special effect inks</b>	Digital matte, fluorescent pink, invisible red, light black, light light black, light cyan, light magenta, and white
<b>HP IndiChrome off-press spot inks</b>	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
<b>PANTONE® colours</b>	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.
<b>Options</b>	
<b>Print server (DFE)</b>	HP SmartStream Ultra Print Server
<b>Expanded colour capabilities</b>	6 or 7 on-press ink stations; HP IndiChrome Ink Mixing System
<b>HP Indigo ElectroInk Primer</b>	Supports use of off-the-shelf papers
<b>Auto Alert Agent</b>	Enables on-press alert system
<b>Optimizer</b>	Automatic prioritization of the job queue
<b>White ink</b>	Enables use of white ink
<b>Special effects kit</b>	Enables creation of on-demand, on-press high-value applications
<b>Thick substrate kit</b>	Supports paperboards up to 400 gsm/ 460 microns
<b>One Shot process kit</b>	Enables printing on synthetics using One Shot technology
<b>Additional feeder/stacker</b>	One additional feeder with three drawers, each with 180 mm of media. 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.



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