HP Indigo WS6000p Digital Press

Top photo quality covers, cut prints and more

The HP Indigo WS6000p Digital Press is a high-quality, continuous feed press with a 980 mm print length for the production of cut-sheet photos, book covers, lay-flat books, and any other simplex applications demanding no-compromise print quality and a production line approach.

The leader in print quality and colour. Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, the press produces sharp images with a very thin ink layer, exposing the attributes of the substrate. The press delivers prints of the highest quality that match or even exceed silver halide (AgX) quality. Up to 7 ink stations on the press enable use of HP Indigo's wide digital colour gamut.

- 6-colour printing with light cyan and light magenta produces realistic skin and sky tones for professional photo quality applications.
- HP Indigo ElectroInk Light Black used in 2-colour printing with black gives great results for monochrome photo reproduction.
- One Shot Colour technology delivers perfect registration.

Long image format. The 317 x 980 mm printing area opens versatile and cost-effective production possibilities. For small format jobs, this also enables more efficient imposition using each frame fully, thereby reducing media waste and producing more

copies for the same cost. This amounts to significant savings for producing cut-photo prints, portrait prints, business cards, and more.

High productivity. The press operates at 30 metres per minute for 4-colour jobs, and 20 metres per minute in 6 colours.

- Large-volume ink cartridges allow the press to run uninterrupted for long periods.
- On-the-fly ink relacement lets the press run with minimal downtime.
- HP Indigo Print Care service and support toolset assure fast, accurate problem detection and resolution.

Wide substrate range. The press includes an inline priming system that allows feeding of standard, affordable substrates of all kinds, including offset uncoated papers, thereby keeping media costs low. The press enables further versatility by feeding substrates with thickness ranging from 40 to 350 gsm and real photo papers.

Automated end-to-end solutions. A range of end-to-end solutions, including inline lamination and customised third-party solutions, from pre-press through printing and finishing, reduces production steps and turnaround time.

To learn more, visit www.hp.com/go/graphic-arts or www.hp.com/go/hpindigows6000p
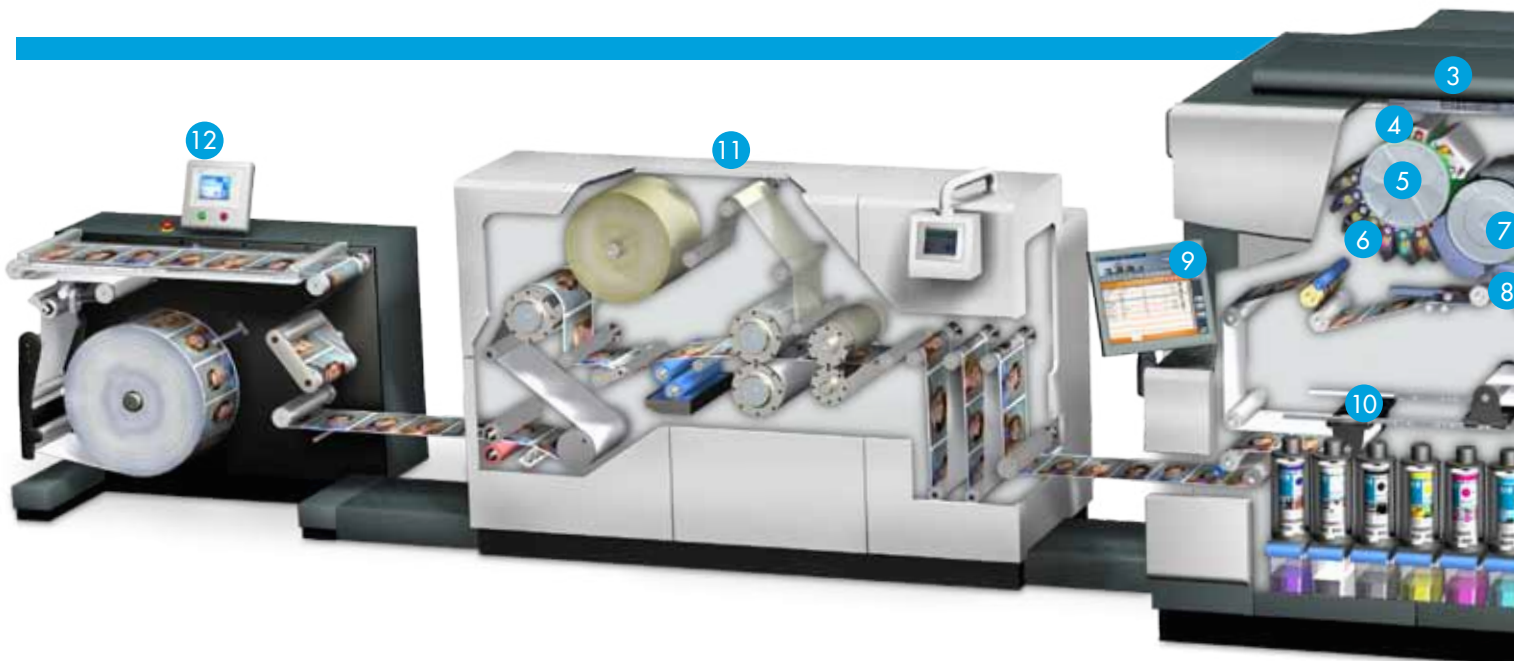
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Photo quality with high productivity and long printing frame

Book covers and lay-flat books. The press enables the production of book covers and lay-flat books with consistent colour and quality, complementing book blocks printed on HP Indigo digital printing technology.

- **High productivity**—Produce up to1800 standard size photobook covers an hour in four colours using the press image format capablities.

- **Consistent Indigo quality inside and out**—The long image format enables production of photobook covers to finish book blocks printed on sheetfed Indigo technology.

- **Substrate flexibility**—An extended range of compatible substrates enables production of book covers with optimal folding attributes for the production of slick and neat covers, hard covers, soft covers, and dust jackets.

- **Lay-flat books**—Produce professional 30 x 30 cm or 30 x 45 cm lay-flat books while printing simplex, long format pages, and using HP Indigo partner solutions.

Silver halide replacement solution. HP Indigo offers a full digital solution to provide the "look and feel" of consumer and professional photographs.

- **Optimised real photo papers**—World leading photo paper manufacturers Mitsubishi and Felix Schoeller have developed photo papers for use on HP Indigo digital presses. These papers are similar to silver halide papers but without the chemicals and the added expense.

- **Inline roll laminator**—For a photo finish, an inline laminator with an embossing roller creates luster, gloss, or matt finish.

- **Digital slitter/cutter**—A nearline automated system slits and cuts (X-Y Cutting) 10 x 15 cm and 13 x 18 cm cut prints and 20 x 25 cm portrait prints.

- **High productivity**—Produce up to 25,000 prints (10 x 15 cm) an hour (70% uptime using 4 colours) or 4600 portraits (20 x 25 cm) an hour (70% uptime using 6 colours).

High print permanence (lightfastness)—An independent research institute, Wilhelm Imaging Research, has verified the permanence of the HP Indigo photo solution. WIR testing determines how well prints and colours withstand the test of time when exposed to environmental factors. HP Indigo is the only digital press manufacturer that has published print permanence results from independent testing.

- **Archivability of HP Indigo photobooks**—Dark permanence measures the longevity of photos stored in photobooks. All four of the Indigo printing combinations that underwent testing earned the maximum WIR dark permanence rating of > 200 years. In comparison, silver halide photos received a rating of > 100 years.

- **HP Indigo photo display solution**—Display permanence refers to how long a photo can be on display before noticeable discolouration. The display permanence ratings for HP Indigo photo prints far exceed the results of tests conducted on photos printed on industry standard silver halide papers.

Use HP SmartStream products and partner solutions with the HP Indigo WS6000p Digital Press to improve production efficiency and support digital growth.

To learn more visit www.hp.com/go/smartstream

1. Unwinder
2. Inline Priming Unit
3. High-speed laser writing head
4. Charge roller
5. Photo Imaging Plate (PIP)
6. Binary Ink Developers (BIDs)
7. Blanket
8. Impression cylinder
9. Work station
10. Ink cabinet
11. GMP LAMIMASTER-34 (optional)
12. Rewinder

Technical specifications

Printing speed	30 m/min in 4-colour mode 60 m/min in 1- or 2-colour mode 20 m/min in 6-colour mode
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 175, 180, 180m, 210
Image size	317 x 980 mm maximum
Paper weight*	40 to 350 gsm
Substrate type	Coated and uncoated paper
Web width	Max. width: 340 mm / Min. width: 200 mm
Unwinder	Input roll max. diameter: 1000 mm Core inside diameter: • Standard: 3 in • Optional: 6 in Max. roll weight: 270 kg
Rewinder	700 mm max. roll diameter
Print server (DFE)	HP SmartStream Onboard Print Server
Press dimensions	Length: 8236 mm; Width: 3833 mm; Height: 2090 mm
Press weight	3950 kg
HP Indigo ElectroInks	
Standard 4-colour printing	Cyan, magenta, yellow, and black
6-colour photo printing	Cyan, magenta, yellow, black, light cyan, and light magenta
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 cyan, light magenta, and light black
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	
Expanded colour capabilities	5, 6 or 7 on-press ink stations
Third-party solutions	GMP LAMIMASTER-34 Tecnau Photobook Technology Mitamax for lay-flat books Renz 500 for calendar wire binding

* 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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