# HP Indigo 30000 Digital Press

## 75 cm wide digital sheetfed press for folding cartons



## Print the vast majority of folding carton jobs

The HP Indigo 30000 Digital Press is a breakthrough 75 cm format offset-matching sheetfed solution especially designed for folding carton production. With zero setup, minimal waste, and easy versioning capabilities, the press empowers packaging converters to profitably address the evolving needs of their customers and gain a valuable competitive edge.

### A shift in market demands
Folding carton converters worldwide are feeling the impact of shorter, more frequent print runs that are challenging the economics and productivity of existing systems. Supply chain pressures, growing stock keeping unit (SKU) diversity, frequent and seasonal redesigns, point-of-sale campaigns, and customised product offerings all require shorter print runs and faster turnaround time. There is also growing demand for value adding product specialisation features with variable data including graphics, photos, text, barcodes, and security features.

### HP Indigo meets the challenge
Digital printing is the answer to changing market needs, but it must match offset quality and colour, and satisfy brands. This is the HP Indigo advantage. Its proven technology is already printing packaging for discerning global brands such as P&G, Nestlé, Coca-Cola, and L'Oréal.

### Brand-approved, best-in-class quality
HP Indigo's unique ElectroInk technology delivers print quality indistinguishable from offset. The 7 on-press ink stations enable converters to meet even the most stringent corporate branding requirements.
• 4, 6, or 7 colours using HP IndiChrome for on-press Pantone emulations.
• True spot colours, mixed off-press, for outstanding Pantone-approved solids.
• The HP Indigo One Shot Colour process delivers perfect colour registration.

### Easy fit into existing production lines
The 75 cm format facilitates quick ramp up and easy integration into current production operations. The press is compatible with standard sheet size, offset palette feeding, and finishing devices, thereby enabling carton converters to optimise operations and assign jobs more economically.

### Wide substrate versatility
The press prints on any substrate from 200 to 600 microns, including any off-the-shelf paperboard, coated, uncoated and metallised, enabling the production of almost any box, sleeve, or blister application with offset quality.

# 75 cm digital sheetfed folding carton solution

## Production flexibility

With 75 cm format on-demand printing and broad substrate support, the press allows for efficient use of production resources to meet the changing demands of the market.

**Digital freedom.** The press is capable of running over 20 different jobs per shift (1000 sheets on average per job) with automatic and immediate switching from one job to another, while keeping waste to a minimum.

**High productivity.** Reach a speed of up to 4600 full colour sheets per hour in Enhanced Productivity Mode (EPM), a technology that enables you to print colour 33% faster using only three colour separations.

**Wide format.** The 75 x 53 cm format covers the vast majority of folding carton jobs, while offering savings in setup and tooling costs for subsequent conventional finishing.

**Integrated priming unit.** This inline system allows usage of any off-the-shelf paperboard.

**Standards compliant.** HP Indigo print is compatible with industry standards for varnishes, foil stamping, lamination, cutting, creasing, folding and gluing, and is both FDA and EU compliant for indirect food contact. For more information, please refer to the HP Indigo for Food Packaging Regulatory White Paper.

## Sustainability

HP Indigo's digital, zero setup process eliminates plates and plate setting, and minimises waste, translating into significant cost and time savings while improving environmental scorecards. On-demand digital printing also reduces waste and over-stocking throughout the supply chain, allowing converters to offer their end customers and brands leaner, more sustainable packaging solutions.

**Reduce on-press waste.** Save up to 250 tons of paperboard waste per year.

Save up to 19,000 square metres of plate material.[1]

**Supply chain efficiency.** Improve overall sustainability by reducing inventories and obsolete stock.

**Eco-friendly packaging.** Provide eco-friendly packaging solutions by printing on recycled paperboards.

[1] Estimate based on 20 jobs per day, and 300 make-ready waste sheets per job.

# Advanced end-to-end solutions

Together with market-leading partners, HP Indigo is developing a well-integrated ecosystem for the press that provides converters all the tools needed from order to completion.

**Powerful print server.** The HP SmartStream Labels and Packaging Print Server is designed specifically for HP Indigo by Esko. It includes best-in-class job management tools to automate and simplify workflow, as well as a powerful Colour Engine. The Colour Engine is a fully integrated solution for complete colour management. It quickly creates profiles that match PANTONE and spot colours, ensuring accurate and efficient colour matching from any technology to an HP Indigo press.

The print server is equipped with a dedicated Adobe RIP for consistent and high-quality output and enables proprietary bi-directional connectivity with Esko Automation Engine, or direct connectivity with any MIS system via JDF protocol.

**Multiple VDP solutions.** HP SmartStream Labels and Packaging VDP Tools, Powered by Esko, provides automatic printing of unique elements such as barcodes, text, singular numbers, photos, and security features. HP SmartStream Designer, is an entry-level VDP offering with unique creative functionalities.

**Coating unit.** A dedicated inline coating unit, allowing for UV and aqueous post print varnish, is provided by the TRESU Group. The TRESU iCoat 30000 was designed to meet the production capabilities of the HP Indigo 30000 Digital Press, allowing selective coating with fast changeover, producing printed and coated sheets inline.

**Finishing solutions.** HP Indigo has partnered with manufacturers of digital and conventional finishing technologies (such as Kama, Highcon and Scodix) to offer an end-to-end, folding carton production line.

For more information, please refer to the Labels and Packaging Workflow Solutions Brochure.

Use HP SmartStream products and partner solutions with the HP Indigo 30000 Digital Press to improve production efficiency and support digital growth. To learn more visit hp.com/go/smartstream

1. Palette feeder
2. Two drawer feeder
3. Inline priming unit
4. High-speed laser writing head
5. Photo Imaging Plate (PIP)
6. PIP Automatic Replacement System (PARS)
7. Binary Ink Developers (BIDs)
8. Blanket
9. Blanket Automatic Replacement System (BARS)
10. Impression cylinder
11. Registration cameras
12. Vision System & Spectrophotometer
13. Proof tray
14. Stacker
15. Ink cabinet

# Technical specifications

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|---|---|
| **Printing speed** | 3450 sheets per hour 4/0; 4600 sheets per hour in EPM |
| **Image resolution** | 812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging) |
| **Line screens** | 175, 180, 180m |
| **Sheet size** | 750 X 530 mm maximum |
| **Image size** | 740 x 510 mm maximum |
| **Substrate thickness** | 200 to 600 microns |
| **Substrate type** | All types of paperboard, including C1S and C2S, virgin and recycled. Metallised boards and microflute top sheets. |
| **Feeder** | Palette feeder: 85 cm of media. Drawer feeder: two drawers, with 30 cm of media. |
| **Stacker** | 85 cm of media |
| **Print server** | HP SmartStream Labels and Packaging Print Server, Powered by Esko |
| **Press dimensions** | Length: 11,500 mm; Width: 4700 mm; Height: 2400 mm |
| **Press weight** | 13,000 kg |
| **HP Indigo ElectroInks\*** | |
| **Standard 4-colour printing** | Cyan, magenta, yellow, and black |
| **5-colour printing** | Cyan, magenta, yellow, black, and white |
| **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 |
| **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™<br>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; HP IndiChrome Ink Mixing system |
| **Operator workstation** | Proof jobs, control the press, DFE remote station |
| **Inline Coater Adaptor** | Interface between press and inline coater |

\*Food products and packaging are a highly regulated sector, with varying requirements depending on where they are placed on the market. Therefore, converters are reminded to ensure that all materials utilised in the printing process are suited for the intended application and its conditions of use, and that the printing is performed in accordance with Good Manufacturing Practices. HP Indigo compliance with food packaging regulations: FDA, Title 21 of the Code of Federal Regulations for indirect food contact; Swiss Ordinance on Materials and Articles in Contact with Food, RS 817.023.21; EUPIA Guideline on Printing Inks Applied to the Non-Food Contact Surface of Food Packaging Materials and Articles (November 2011); Council of Europe Resolution ResAP (2005/2) for indirect food contact; Nestlé Guidance Note on Packaging Inks, exclusion lists for indirect food contact; German Food Law and Article 3 of the EU framework regulation 1935/2004, for non-food contact.

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