

# HP Indigo 20000 Digital Press

30 inch wide breakthrough digital web printing solution for flexible packaging



**The groundbreaking 30 inch wide roll-to-roll HP Indigo 20000 Digital Press is poised to transform the film converting market with its capability to digitally produce the vast majority of flexible packaging applications.**

Printing any job on-demand at any time with no make-ready and minimal waste, the press offers converters and brand owners a prime opportunity for new business that responds to changing needs of consumers and the marketplace.

**Upsurge in demand.** The global flexible packaging market is growing steadily, alongside higher demand for shorter run lengths, shorter lead time, and higher print quality. This trend is accompanied by supply chain pressures, growing stock keeping unit (SKU) diversity, and frequent and seasonal redesigns. Conventional printing has a limited ability to adapt while maintaining profitability. On-demand printing with the HP Indigo 20000 Digital Press frees converters and brand owners from these constraints. HP Indigo technology also enables variable data printing including text, graphics, barcodes, and security elements.

**Brand-accepted gravure print quality.** Using HP Indigo's unique ElectroInk technology, the press delivers the high print quality required by brand

owners who set gravure as their colour quality benchmark for flexible packaging. The 7 on-press ink stations enable converters to meet even the most stringent corporate branding requirements, using HP IndiChrome Pantone-approved on-press 4-, 6- and 7-colour emulations, opaque white ink, and off-press mixed spot inks to achieve up to 97% of PANTONE® colours.

**Wide format captures most jobs.** The press supports 762 mm web width, 736 mm wide image format, and 1120 mm repeat length, capturing most consumer flexible packaging applications.

**Easy fit into existing production.** The 762 mm wide web format facilitates easy integration into current flexible packaging production processes.

**Wide media gamut.** The press can handle substrates from 10 to 250 microns, printing on film, paper, and aluminum. The priming unwinder, with its environmentally friendly, water-based primer, enables printing on off-the-shelf materials. The HP Indigo One Shot Colour process provides perfect colour registration including on heat-sensitive materials.

To learn more, visit [www.hp.com/go/graphic-arts](http://www.hp.com/go/graphic-arts) or [www.hp.com/go/hpindigo20000](http://www.hp.com/go/hpindigo20000)



# HP Indigo 20000 Digital Press

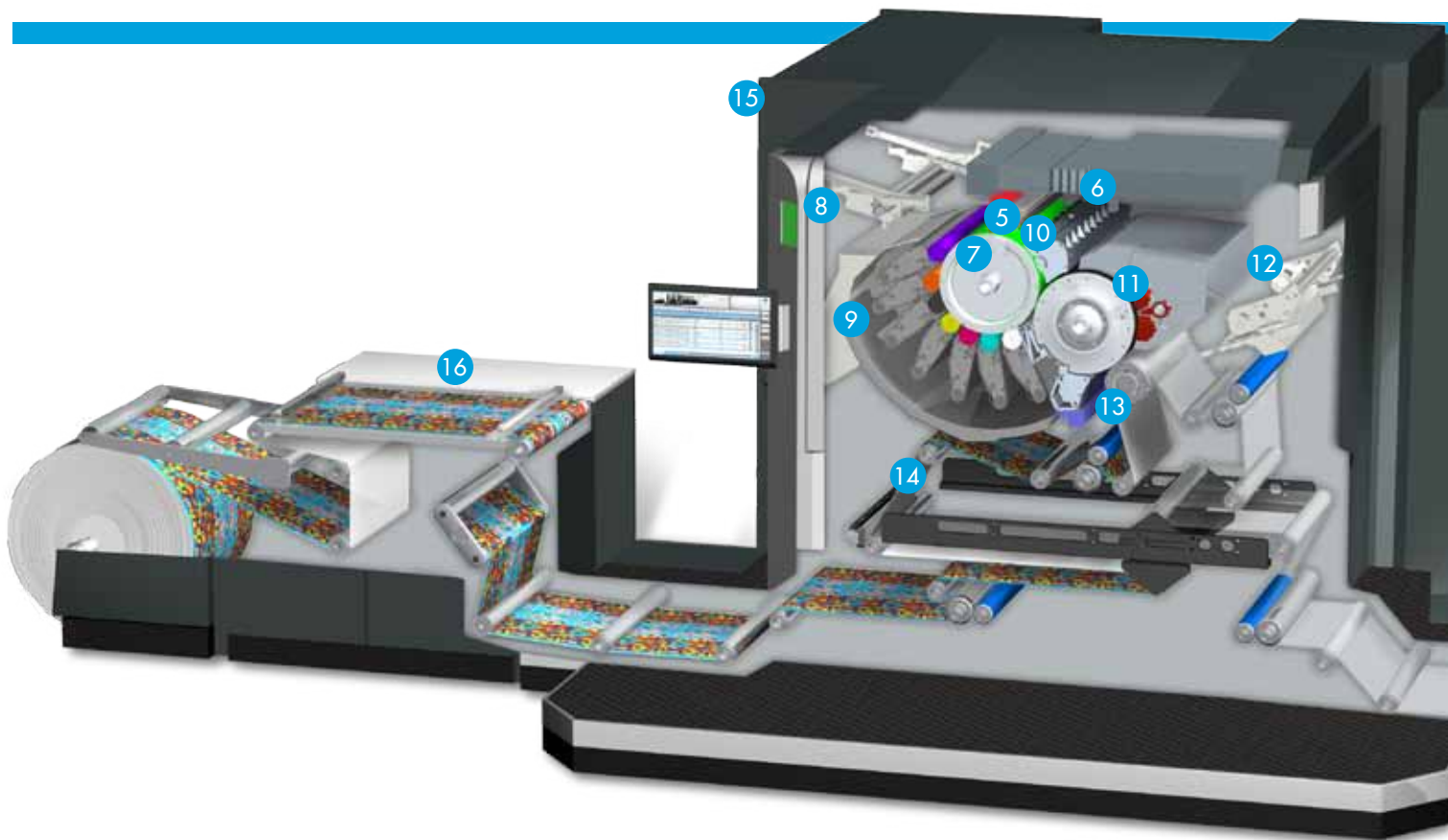
## 30 inch roll-to-roll press opens new packaging opportunities

**High performance, high production flexibility.** Designed for demanding, 24/7 production operations, the press offers consistent quality and flexibility for diverse jobs.

- Flexible packaging applications require both surface printing on opaque material and reverse printing on clear material. HP Indigo colour switching technology provides agility for changing colour sequences and colours on the fly with zero overhead.
- Ability to produce over 10 different jobs per day.
- Maximum press throughput of 45 linear metres per minute, using Enhanced Productivity Mode.
- 34 linear metres per minute in 4-colour mode or 27 linear metres per minute in 5-colour mode.
- In addition to flexible packaging, the press supports packaging applications such as prime labels, shrink sleeves, and laminate tubes.

**End-to-end packaging excellence.** Together with hand-picked market-leading partners, HP Indigo is building a well-integrated ecosystem for the press that provides converters with all the tools they need from order to fulfilment.

- The HP SmartStream Labels and Packaging Print Server, Powered by Esko, supports scalable RIP power, ICC profiling, step and repeat, and automated workflow.
- The press and its supplies comply with food packaging regulations commonly applicable to or referenced by flexible packaging converters.
- The press system and supplies support flexible packaging industry standard finishing such as dry bond lamination and form fill sealing.



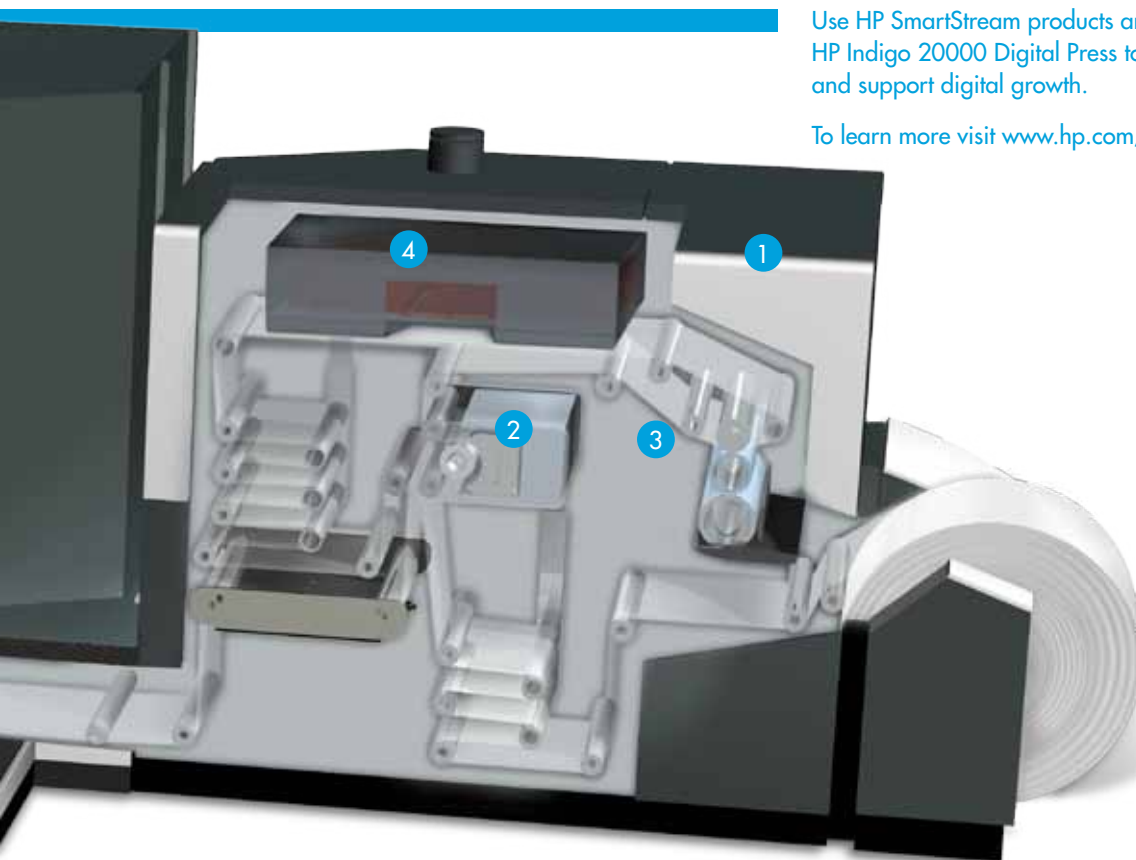
**Sustainability.** HP Indigo's on-demand printing technology enables converters to improve environmental scorecards by cutting waste from the supply chain.

- No plates or cylinders—eliminate waste between jobs.
- Save more than 10 metric tons of print film waste per year.
- Save more than 10,000 square metres of flexo plates per year.
- Save more than 25,000 gravure cylinders per year.
- Provide eco-friendly packaging solutions by printing on biodegradable film.



Use HP SmartStream products and partner solutions with the HP Indigo 20000 Digital Press to improve production efficiency and support digital growth.

To learn more visit [www.hp.com/go/smartstream](http://www.hp.com/go/smartstream)



1. Priming unwinder
2. Corona treatment unit
3. Priming unit
4. Dryer
5. Charge roller
6. High-speed laser writing head
7. PIP (Photo Imaging Plate)
8. PIP Automated Replacement System (PARS)
9. Binary Ink Developers (BIDs)
10. Cleaning station
11. Blanket
12. Blanket Automated Replacement System (BARS)
13. Impression cylinder
14. Internal web handling system
15. Ink cabinet
16. Rewinder

## Technical specifications

Printing speed	34 m/min in 4-colour mode; 45 m/min in EPM; 27 m/min in 5-colour mode
Image resolution	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	175, 180, 180m
Image size	736 x 1100 mm maximum; Repeat length: 550 mm minimum, 1120 mm maximum
Substrate thickness	10 to 250 microns
Substrate type	Film, (PE, PET, BOPP, CPP, PA, PVC, OPS), paper (Cello), aluminum, and biodegradable materials
Web width	Maximum width: 762 mm / Minimum width: 400 mm
Priming unwinder	Max roll diameter: 1000 mm Max roll weight: 850 kg Core inside diameter: <ul style="list-style-type: none"><li>• Standard 6 in</li><li>• Optional 3 in</li></ul>
Rewinder	Maximum roll diameter: 800 mm Maximum roll weight: 700 kg
Print server	HP SmartStream Labels and Packaging Print Server, Powered by Esko
Press dimensions	Width: 9730 mm; Height: 2400 mm; Depth: 4700 mm
Press weight	15,000 kg
<b>HP Indigo ElectroInks*</b>	
Standard 4-colour printing	Cyan, magenta, yellow, and black
5-colour printing	Cyan, magenta, yellow, black, and white plus
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™ 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>	
Expanded colour capabilities	5, 6, or 7 on-press ink stations
Reinsertion	Simplex and duplex capability

\*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.



Please scan this QR code to learn more about the HP Indigo 20000 Digital Press.

**North America**  
Hewlett-Packard Company  
5555 Windward Pkwy  
Alpharetta, GA 30004  
USA  
Tel: +1 800 289 5986

**Europe, Middle East, and Africa**  
Hewlett-Packard Española S.L  
Cami de Can Graells, 1 – 21  
08174 Sant Cugat del Valles  
Barcelona  
Spain  
Tel: +34 902 027 020  
Fax: +34 935 82 1 400

**Asia Pacific**  
Hewlett-Packard Company  
138 Depot Road  
Singapore 109683  
Tel: +65 6727 0777  
Fax: +65 6276 3160

**Latin America**  
Hewlett-Packard Company  
5200 Blue Lagoon Drive  
Suite 950  
Miami, FL 33126  
USA  
Tel: +305 267 4220  
Fax: +305 265 5550  
informhpindigo@hp.com

**Israel**  
Hewlett-Packard Company  
Kiryat Weizmann  
P.O. Box 150  
Rehovot 76101  
Israel  
Tel: +972 8 938 1818  
Fax: +972 8 938 1338

© Copyright 2012 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

PANTONE® and other Pantone, Inc. trademarks are the property of Pantone, Inc.

4AA3-9766EEW, April 2012.

