

# HP Indigo 20000 Digital Press



30-inch web solution for diverse labels and packaging applications



## Limitless possibilities

The HP Indigo 20000 Digital Press is a market-proven, 30-inch mid-web solution with an image format, speed and imposition capability that make it a highly productive and cost-effective digital labels and flexible packaging solution.

### High production solution

The 29 inch image width captures the vast majority of flexible packaging, pressure-sensitive label, shrink sleeve, wrap-around label, and in-mold labeling (IML) applications. Print on substrates from 0.4 to 10 pt. Produce up to 135 linear feet per minute in full color. HP Indigo ElectroInk Premium White offers high-opacity white for heavy usage in a one-pass process.

### The leader in print quality and color

HP Indigo is the only digital color printing process that matches gravure printing, delivering high resolution printing and perfect registration. Converters can meet strict brand color needs using 7 ink stations and a color gamut that reaches up to 97% of PANTONE® colors.

### The choice of brands

Adopted by the world's leading flexible packaging and label converters, HP Indigo technology is the choice of brands such as Coca-Cola, Nestle, and Waitrose for its print quality and flexible technology. HP Indigo printing can address SKU diversity and seasonal redesigns, optimize supply chains, and deploy mass customization and personalization for campaigns that boost sales and brand loyalty. Unique variable data capabilities for brands include HP SmartStream Mosaic unlimited designs, barcodes, text, images and security features.

### End-to-end production

Digitally printed materials can be converted using standard finishing equipment or dedicated solutions for just-in-time, cost-effective short runs. Benefit from the HP Indigo workflow ecosystem including the high-automation Workflow Suite Powered by Esko, and integrated MIS, pre-press and converting solutions from partners. The revolutionary HP Indigo Pack Ready ecosystem enables high performance applications and zero-cure time for immediate time to market. (Available in 2017)

### 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 20000 Digital Press is manufactured carbon neutral, and also offers reduced production waste, energy efficiency, and a supplies takeback program.

## CO<sub>2</sub> neutral

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

# High-capacity solution for labels and flexible packaging

## Leading digital print quality



**High resolution printing.** HP Indigo's liquid electrophotography (LEP), 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.** The press is now delivering even sharper, higher quality printing using dozens of hardware, supplies and software innovations. Advances include adaptive color profiles, optimized calibrations for perfect color uniformity, and a microsphere-based blanket.

**Widest digital color gamut.** Emulate PANTONE® colors on press with CMYK or using HP IndiChrome's 6- or 7-color process. True spot colors can be ordered from the HP IndiChrome Ink Mixing Service for outstanding Pantone-approved solids.

**One Shot technology.** All color separations are transferred simultaneously in a single pass on the substrate, for accurate and repeatable color-to-color registration, including on heat-sensitive materials.

**Intelligent color management.** The Color Automation Package guarantees standards-matching color accuracy and consistency. A built-in spectrophotometer and software tools simplify color management and eliminate the need for expensive software, hardware and manual calibration processes. Create color profiles and match PANTONE® colors in a simple, precise process.

**Regulatory compliance.** The HP Indigo 20000 Digital Press complies with industry standard definitions for low migration inks, under well-defined conditions of use. It meets FDA and EU guidelines and allows safe printing of primary food packaging. For more information, please refer to the HP Indigo for Food Packaging Printing brochure.

## High production efficiency and flexibility

**Digital freedom.** The press is capable of producing dozens of different jobs per day. With zero setup, minimal waste, and easy versioning capabilities, the press empowers packaging converters to profitably address the evolving needs of the market and gain a valuable competitive edge.

**Wide application possibilities.** The 29 inch image format captures the vast majority of flexible packaging jobs and brings high productivity and imposition efficiency to pressure-sensitive label applications, shrink sleeves, IML, laminate tubes and more.





**White inks.** HP Indigo ElectroInk Premium White is a versatile, opaque white, delivering up to silk screen white opacity in single print process with a thin white layer, fully dried and cured on impact. HP Indigo ElectroInk White for Sleeves is a high slip ink that improves efficiency in the converting of shrink sleeves, by reducing the friction coefficient (CoF).

**Unlimited designs.** Automate the creation of millions of one-of-a-kind designs with HP SmartStream Mosaic's variable design technology, creating a memorable consumer experience and adding value to products.

**Wide media gamut.** The press prints on synthetic or paper substrates from 0.4 to 10 pt. including films, various pressure-sensitive label stocks, IML and shrink materials. The priming unwinder enables printing on standard materials without any preliminary processes. The press also supports PE and other validated highly stretchable materials.

**Superior agility.** HP Indigo technology provides agility for changing color sequences on the fly, enabling easy switching among surface, reverse, and sandwich printing with zero overhead.

**Enhanced Productivity Mode.** Use three-color printing in EPM to increase throughput by 33%, with 25% less energy consumed.

## End-to-end production

**Powerful print server.** HP SmartStream Labels and Packaging Print Server, Powered by Esko, provides the most advanced tools in the industry for streamlining pre-press processes. It features best-in-class, fully integrated solutions for accurate and fast digital color management to reproduce any print job. It enables bi-directional connectivity with industry standard prepress automation and production management systems and is driven by a powerful Adobe RIP engine.

**PrintOS.** Print Beat provides visibility to press performance and real-time data-insights, for continuous improvements of print operations. With PrintOS Site Flow efficiently manage any number of jobs per day, even hundreds or thousands, from submission to shipment. Automate, simplify and streamline files submission with PrintOS Box. Use PrintOS Composer for heavy VDP processing including sophisticated Mosaic campaigns.

**Finishing solutions.** HP Indigo partners offer solutions optimized for the press. The Digicon 3000 from AB Graphics is a modular design for both labels converting and flexible packaging lamination. Comexi's Nexus L20000 performs high-quality, water-based lamination with short time to market. Karlville offers a range of solventless and solvent-based lamination machines. All these products work with validated adhesives and varnishes that support HP Indigo ElectroInk.



### 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.



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. Impression cylinder
13. Internal web handling system
14. Ink cabinet
15. Reverse Inspection Bridge (RIB)
16. Rewinder

## Technical specifications

<b>Printing speed</b>	101 ft/min in 4-color mode; 135 ft/min in EPM; 82 ft/min in 5-color mode
<b>Image resolution</b>	812 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
<b>Line screens</b>	175, 180, 180m, HMF-200
<b>Image size</b>	29 x 43 in maximum; Repeat length: 21.6 in minimum, 43 in maximum
<b>Substrate thickness</b>	0.4 to 10 pt.
<b>Substrate type**</b>	Film (PET, BOPP, PE, BOPA), shrink film (PETG, PVC, OPS) label stock (PE label), pre-laminates (PET/ALU/PE) and paper.
<b>Web width</b>	Maximum width: 30 in / Minimum width: 15.7 in`
<b>Priming unwinder</b>	Max roll diameter: 39.4 in Max roll weight: 1870 lb Core inside diameter: Standard 6 in adapter Optional 3 in
<b>Rewinder</b>	Maximum roll diameter: 31.5 in. Additional option for reduced rewinder tension Maximum roll weight: 1540 lb. Additional option for reduced rewinder tension
<b>Print server</b>	HP SmartStream Labels and Packaging Print Server, Powered by Esko
<b>Cloud connectivity</b>	Via HP PrintOS
<b>Press dimensions</b>	Width: 383 in; Height: 94 in; Depth: 185 in
<b>Press weight</b>	33,000 lb
<b>HP Indigo ElectroInks*</b>	
<b>Standard 4-color printing</b>	Cyan, magenta, yellow, and black
<b>Additional process inks</b>	White, white for sleeves, premium white
<b>HP IndiChrome 6-color printing</b>	Cyan, magenta, yellow, black, orange, violet, and violet for packaging.
<b>HP IndiChrome Plus 7-color printing</b>	Cyan, magenta, yellow, black, orange, violet, violet for packaging, and green
<b>HP IndiChrome off-press spot inks</b>	HP IndiChrome Ink Mixing Service for spot color creation using CMYK as well as orange, violet, green, reflex blue, rhodamine red, bright yellow, and transparent
<b>PANTONE® colors</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 Ink Mixing Service for achieving up to 97% of the PANTONE® color range.
<b>Enhanced Productivity Mode</b>	Enables three-color EPM printing
<b>Options</b>	
<b>Reinsertion</b>	Simplex
<b>Extended inspection capabilities</b>	Reverse Inspection Bridge (RIB)
<b>Slitter</b>	Optional kit for inline slitting

\*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 utilized 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.



Winner: InterTech Technology Awards 2014



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