HP Indigo 7500 Digital Press

Exceptional productivity and low total cost for high-volume printing with unmatched offset quality — now with intelligent automation

Breakthrough technology for high-volume digital production

The new HP Indigo 7500 Digital Press is the most technologically advanced high-volume sheetfed digital printing solution in the market, opening an unprecedented range of opportunities for print service providers. Building on the success of the HP Indigo 7000 Digital Press introduced at drupa 2008, the more advanced HP Indigo 7500 Digital Press unveils intelligent automation breakthroughs within the press and for end-to-end production.

The innovative print engineering technologies embedded into the HP Indigo 7500 Digital Press are designed to produce superior prints and greater profits from your press, setting a new standard in quality, productivity, and versatility.

Unmatched print quality

Only HP Indigo can deliver print quality that is truly interchangeable with offset. HP Indigo's digital printing process is distinguished by its emulation of offset printing using the unique HP ElectroInk. The HP Indigo 7500 Digital Press breaks new ground in color quality with advanced automation of ink charging for controlling color consistency.

HP Indigo's color performance leadership was demonstrated in IPA testing of 10 digital presses from leading manufacturers. The tests found the HP Indigo 7000 Digital Press as having the lowest differentiations in color variation within a run and from day to day, and the closest matching of spot colors. Its color achievements enabled the HP Indigo 7000 Digital Press to win the first-ever GRACoL® proofing certification for a production press and to achieve Fogra validation certification.

IPA testing of 10 leading vendor presses. HP Indigo 7000 Digital Press achieved the lowest differentiation in Delta E and the closest matching to the PANTONE GoeGuide.

IPA | **Digital Print Forum**
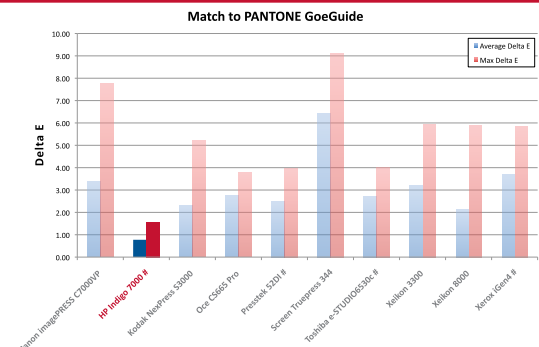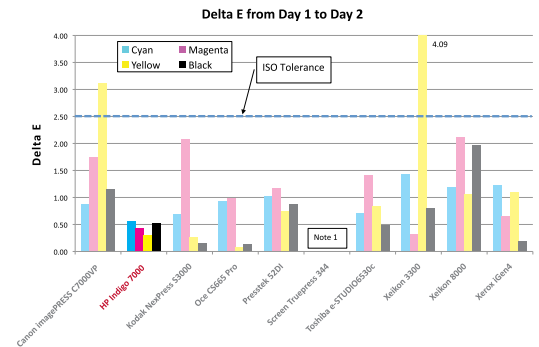
Delivering the widest and most accurate digital color gamut in the market, HP Indigo offers up to 7 ink stations, allowing 4-, 6-, and 7-color PANTONE® emulation, and off-press mixing, matching up to 97% of PANTONE® colors. To accurately meet customers' branding requirements, special spot colors can either be ordered or mixed on-site using the HP IndiChrome Ink Mixing System. Photos indistinguishable from silver halide can be produced by using HP Indigo's 6-color printing including light cyan and light magenta to achieve professional photography quality.

HP ElectroInk delivers true photographic quality

True photographic quality can be achieved on HP Indigo presses, opening new opportunities in high-value photography applications. HP Indigo's superior photo quality was recognized by its wins in the 2010 DIMA Digital Printer Shoot-Out at the PMA International Convention and Trade Show. The HP Indigo press 5500 won the 41-70 ppm competition, and the HP Indigo 7000 Digital Press took the prize in the 71+ ppm category.

Long-lasting prints

HP Indigo is the only digital press vendor that received an ink permanence rating in the new print permanence study released by Wilhelm Imaging Research, Inc. "The permanence ratings from WIR provide an important validation for the use of HP Indigo in consumer and professional photographic markets as well as in the fine art world," said Henry Wilhelm, WIR co-founder, president, and director of research. The study gave a permanence rating of 45 years for pages printed by HP Indigo presses on Kromekote paper from HP partner SMART Papers. This is longer than prints on Fuji Crystal Archive – the best of the silver halide photo papers – and more than twice as long as the WIR Display Permanence Rating for prints on Kodak silver halide photo paper. In addition, HP Indigo photo book prints received a WIR Album/Dark Storage Rating of more than 100 years.

Intelligent automation for exceptional productivity and low operating costs

Based on the reliable and productive HP Indigo 7000 Digital Press, the HP Indigo 7500 Digital Press has been enhanced by breakthrough automations, making it the ultimate flexible sheetfed digital printing powerhouse.

Speed table: Press productivity in different printing modes

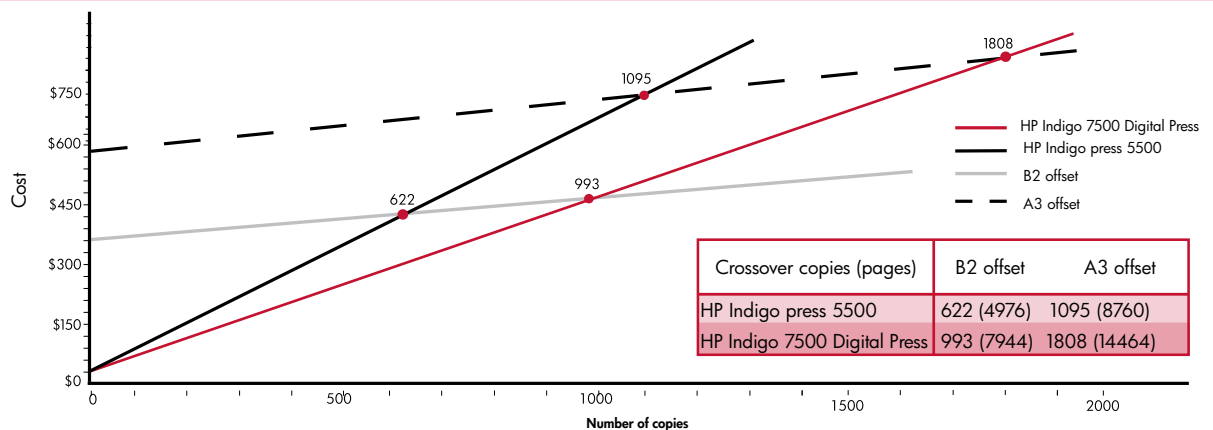|		Number of separations on side A						
		1	2	3	4	5	6	7
Number of separations on side B	0	7200	7200	4800	3600	2880	2400	2400
	1	3600	3600	2880	2400	2057	1800	1600
	2	3600	3600	2880	2400	2057	1800	1600
	3	2880	2880	2400	2057	1800	1600	1440
	4	2400	2400	2057	1800	1600	1440	1309
	5	2057	2057	1800	1600	1440	1309	1200
	6	1800	1800	1600	1440	1309	1200	1107
	7	1600	1600	1440	1309	1200	1107	1028

13 x 19 in sheets per hour

The high-speed press produces 120 letter pages per minute (ppm) in full color or 240 ppm in either monochrome or 2 colors.

A new Vision System has been deployed in the HP Indigo 7500 Digital Press, delivering more uptime and giving the press the capacity to produce up to 3.5 million full color pages or 6.5 million monochrome or 2-color pages per month to maximize profits. Thanks to its speed and productivity, the press pushes the crossover point with offset to the level of thousands of pages.

The Vision System performs automatic hands free press calibrations and diagnostics with high accuracy, reducing operator effort, saving time, and diminishing errors. The Vision System is also utilized by the innovative HP Indigo Print Care toolset for intelligent troubleshooting, helping you keep to the tightest deadlines. Assuring quick and accurate problem detection, as well as fast resolution, HP Indigo Print Care offers a set of tools including wizard-guided assistance for troubleshooting and webcam communications to increase uptime for mission critical and demanding jobs.

Crossover analysis: Eight-page brochure - 4/4, letter size, 115 lb text
By virtue of its remarkable speed and productivity, the HP Indigo 7500 Digital Press brings the crossover point with offset to the level of thousands of pages (estimated numbers – based on the HP Indigo SmartPlanner).

Crossover copies (pages)	B2 offset	A3 offset
HP Indigo press 5500	622 (4976)	1095 (8760)
HP Indigo 7500 Digital Press	993 (7944)	1808 (14464)

High-speed writing head
812 dpi (8 Bit/pixel) at 775 Mpix/sec
using a 22 beam laser

Charge roller
For ease of use

Photo Imaging Plate (PIP)

**Seven Binary Ink
Developers (BIDs)**

Vision System
Hands free automatic
diagnostics and calibrations

Proof tray
Proof jobs
without stopping
ongoing work

Touchscreen user interface
Intuitive and easy to use

Inline densitometer (ILD)
Self-calibrating measurement device
for closed loop color adjust

Paper stacker
Supports 6000 80 lb text sheets.

**Recycled oil
reservoir**
To reduce environmental footprint

Direct injection of Imaging Agent
Improves color consistency

7-station color ink cabinet:
- 7 color stations, allow PANTONE®
  emulation of 4, 6, 7 process colors and
  spot color printing
- On-the-fly On-press Fast Ink Replacement
  (OFIR) system for easy spot color printing
- Large process ink cans for lower intervention
- White ink station–option

Perfector

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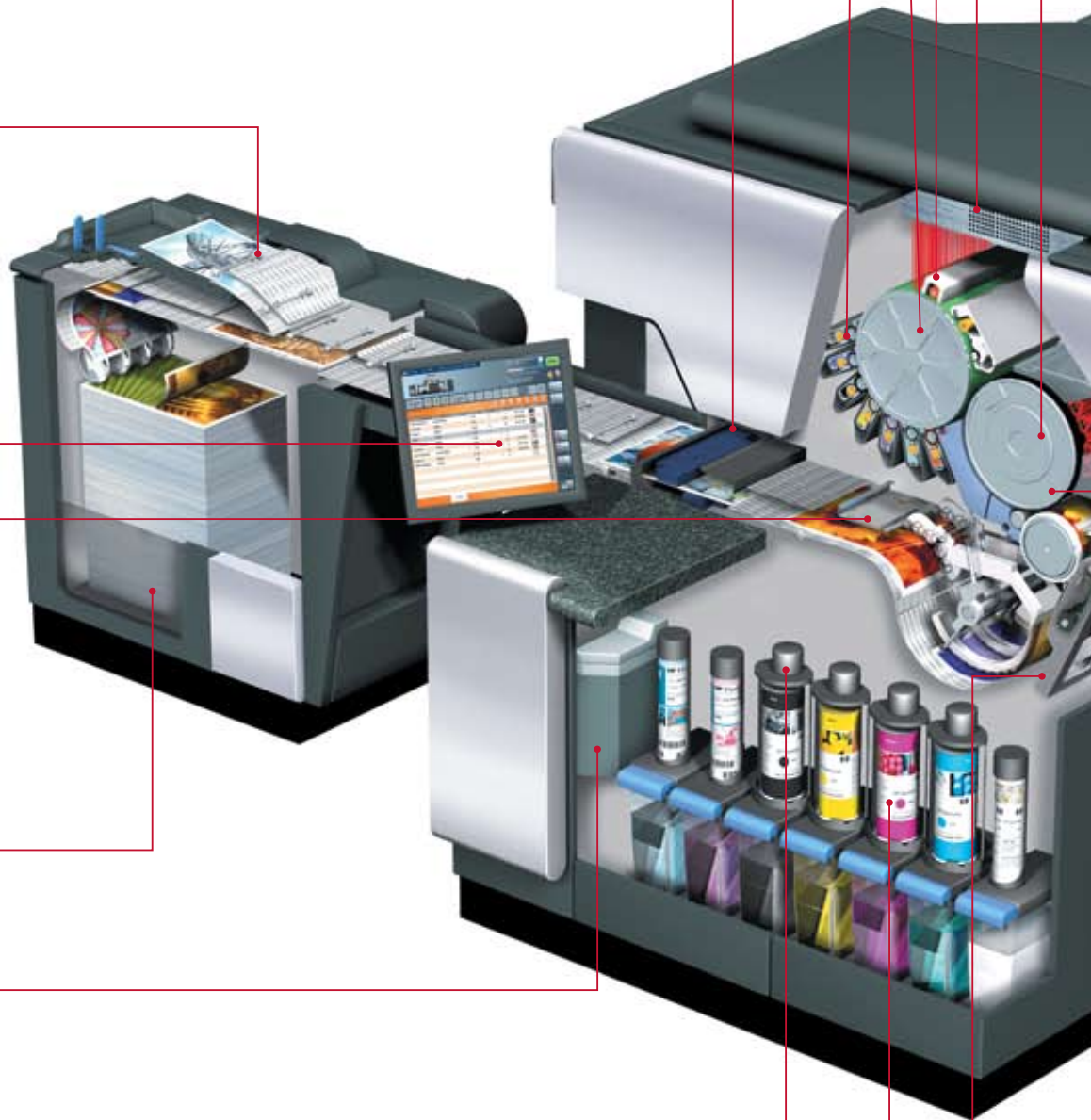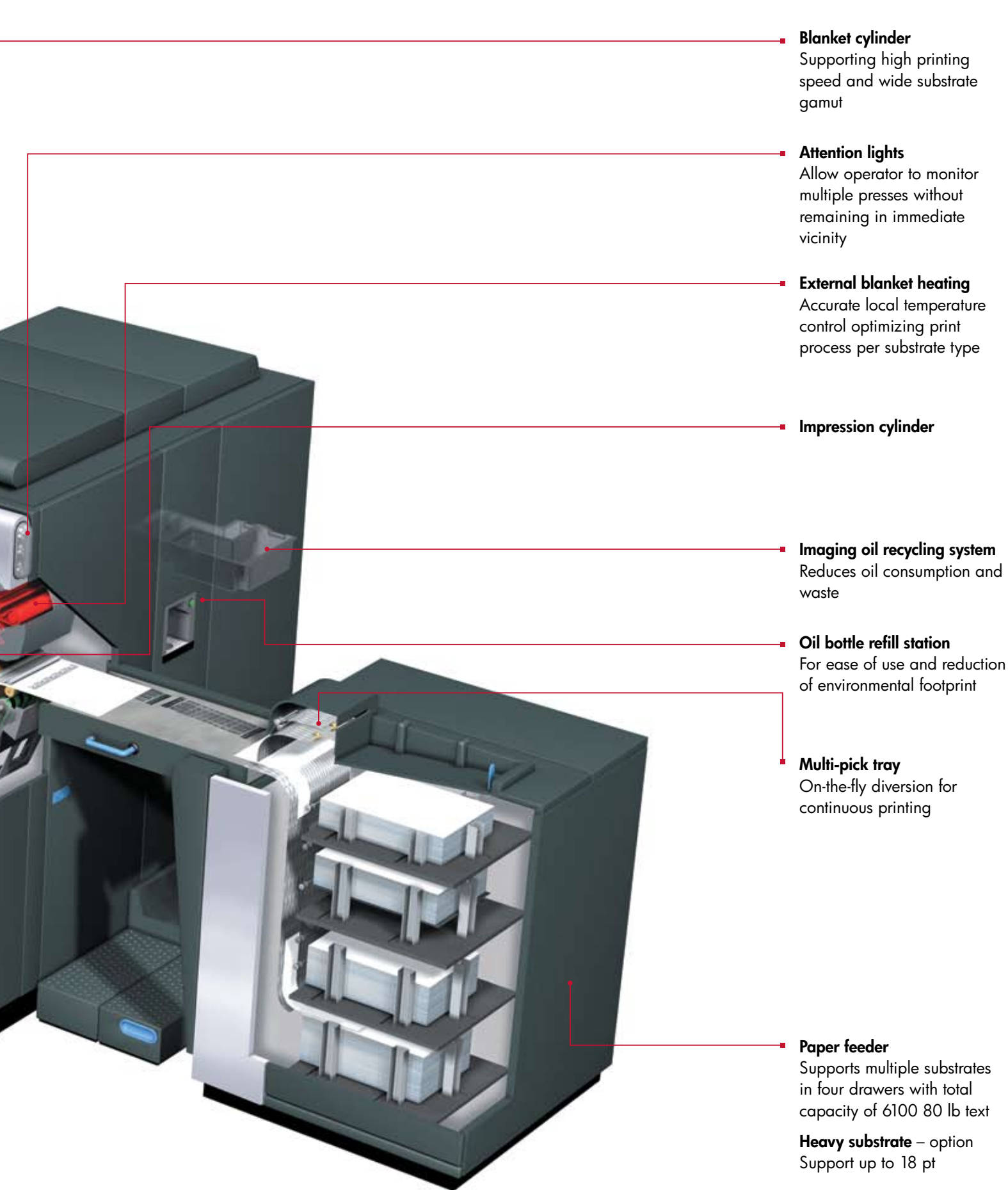
Blanket cylinder
Supporting high printing speed and wide substrate gamut

Attention lights
Allow operator to monitor multiple presses without remaining in immediate vicinity

External blanket heating
Accurate local temperature control optimizing print process per substrate type

Impression cylinder

Imaging oil recycling system
Reduces oil consumption and waste

Oil bottle refill station
For ease of use and reduction of environmental footprint

Multi-pick tray
On-the-fly diversion for continuous printing

Paper feeder
Supports multiple substrates in four drawers with total capacity of 6100 80 lb text

Heavy substrate – option Support up to 18 pt

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Universal Finishing Interface

End-to-end automation of the workflow is the key to productivity. The new Universal Finishing Interface (UFI) embedded as an option in the HP Indigo 7500 Digital Press is a platform that has been designed to bring about full digital production. To enable automation of the entire process, the job ticket works through the finishing line controller to set up the inline finishing using industry standard JDF/JMF. The UFI makes it easy to connect flexible digital inline or near-line finishing systems from HP Indigo partners. Smart finishing reduces labor costs, errors, and turnaround time. Taking a modular approach, the UFI enables the construction of complex finishing lines with multiple systems to meet the needs of varied production environments.

Wide range of applications

Endless types of applications are possible on the highly flexible HP Indigo 7500 Digital Press, which prints with offset look and feel and true photo quality on a wide substrate range, boosted by a strong Digital Front End. Marketing collateral, photo applications, direct mail, TransPromo, books, and magazines can all be produced on demand.

Exclusively available from HP Indigo, the newly released HP ElectroInk White enables the printing of high-value pages on specialized substrates, including transparent, metallic, and colored media via the optional white ink station.

Supporting a wide range and variety of substrates, including more than 1000 meeting environmental standards, the press feeds paper stocks from 3 to 16 pt, coated, uncoated, transparent, colored, or adhesive. Using the optional thick substrate kit extends the range up to 18 pt to print on paperboard, enabling applications such as point-of-purchase, new and attractive marketing collateral, and short-run folding cartons.

Manage dynamic digital environments with easy-to-integrate, scalable workflows

The HP Indigo 7500 Digital Press offers the choice of two high-performance, scalable HP SmartStream Digital Front Ends (DFE). HP SmartStream combines both HP and industry-leading workflow products that integrate to form powerful end-to-end workflow solutions. To enable the press operator to focus exclusively on the job of printing, all DFE operations can be centrally located in the shop's prepress environment for efficient and convenient operation.

HP SmartStream Production Pro Print Server is a robust, scalable, high-performance print server with unique VDP capabilities. Especially designed for HP Indigo digital presses, the print server leverages the high speed and print quality of the presses to create the most captivating application fast and easy. The HP SmartStream Production Pro enables business flexibility and scalability, with its unique features powering easy expansion during peak production periods and business growth while preserving investment. No matter what the application, the print server can help you produce with tools like imposition and color management. The server drives and balances jobs across presses and divides jobs among RIP units to achieve high performance.

HP SmartStream Production Plus Print Server, Powered by Creo, meets the demanding workflow needs of hybrid offset-digital print environments with a comprehensive graphic arts feature set. Based on technology from Creo—renowned for workflow solutions and mature, feature-rich DFE solutions—HP SmartStream Production Plus offers smooth integration with Creo Prinergy and Brisque workflows operating within traditional commercial print shops.

Digital printing and the environment

Digital printing is making an important contribution to the environment by taking the lead in responsible printing. Approximately 30% of printed collateral is never used, and up to 25% of book stock remains unsold and is eventually re-pulped. Here are some environmental advantages to digital printing:

- Digital printing enables you to print what you need, when you need it, and where you need it, eliminating waste, transportation, and storage.
- To conserve paper and reduce waste, use variable data printing. Personalization boosts the impact of the printed piece and increase yields, while printing fewer pieces.
- Avoid the costs and creation of waste associated with conventional printing. Use short-run digital printing to avoid make-ready and change over between job runs in conventional printing.

Designed for the environment

The HP Indigo 7500 Digital Press was designed and manufactured with the environment in mind throughout its entire lifecycle. To this end, the product features the following environmental measures:

- **Maximized oil recycling**—improvements in the new on-press oil recycling system, first introduced in the HP Indigo press 5500, eliminate the need for adding imaging oil under average operating conditions.
- **Energy consumption**—despite almost doubling the speed compared with the HP Indigo press 5500, the HP Indigo 7500 Digital Press consumes up to 30% less energy per page.
- HP Indigo sites are ISO 14001 certified.
- Presses and consumables are REACH compliant.

HP—a worldwide leader and trusted partner

The HP Indigo community

The global HP Indigo digital press community is linked via 'My HP Indigo'—a secure online portal for vital tools, training, and development materials for shop owners, press operators, sales representatives, and production managers.

www.hp.com/go/myhpindigoweb

The Digital Solutions Cooperative

An exclusive opportunity for HP Indigo owners and sponsored by HP, this user-driven network of HP Indigo press owners, HP industry experts and partner companies share ideas and knowledge to drive success. www.dscoop.org

HP Indigo Capture program

HP is committed to helping you capture business success. Grow your business with HP's innovative business development tools, training, and programs.

Access the HP Indigo Capture program through the 'My HP Indigo' portal.

Technical Specifications

Printing speed	120 four-color letter size images per minute (two-up); 240 two-color or monochrome letter size images per minute (two-up)
Image resolution	812 and 1219 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 160, 175, 180, 180m lpi
Paper format	13 x 19 in
Image format	12.48 x 18.26 in
Paper weight*	Coated: 55 lb text to 130 lb cover; Uncoated: 40 lb text to 130 lb cover; Thickness 3-16 pt; With option kit - up to 18pt
Paper input system	Four drawers: Three drawers with 7 in each (1800 sheets of 80 lb text each) Special jobs drawer: 1 x 2.5 in (700 sheets of 80 lb text) A total of 6100 sheets of 80 lb text. All paper drawers support full range of substrates
Paper output system	Autoduplex/autoperfecting Main stacking tray with 23.6 in stack height, with job offset stacking (6000 sheets of 80 lb text) Proof tray with 2.36 in stack height (600 sheets of 80 lb text)
Supported image formats and standards	Postscript 1,2,3; EPS; PDF1.7 including optimized PDF; PDF/x-1a: 2001, PDF/X-1a:2003, PDF/x-3:2002, PDF/X-3:2003; Tiff Version 6, CMYK/RGB, multi page tiff; JPEG; PPML / T; DCS 1 and 2; GIF; XPS; JLYT Including SNAP; BMP; With HPPS: PPML 2.2; VPS; Brisque CT/LW, PDF/VT, PPML 3.0
Press dimensions	Width: 214.3 in; Depth: 90.5 in; Height: 82.8 in
Press weight	7275 lb excluding chiller
Print servers (DFEs)	HP SmartStream Production Pro Print Server, HP SmartStream Production Plus Print Server, Powered by Creo

HP Indigo inks:

Standard 4-color printing	Cyan, magenta, yellow, and black
HP IndiChrome 6-color printing	Cyan, magenta, yellow, black, orange, and violet
6-color photo printing	Cyan, magenta, yellow, black, light cyan, and light magenta
HP Indigo special effect inks	HP ElectroInk White
PANTONE® colors	• PANTONE-licensed HP IndiChrome on-press 6-color printing using CMYK as well as orange and violet • PANTONE-licensed HP IndiChrome Plus on-press 7-color printing using CMYK as well as orange, violet, and green • PANTONE-licensed HP IndiChrome off-press Ink Mixing System, for spot color creation, using CMYK as well as orange, violet, red, green, blue, bright yellow, and transparent • HP Professional PANTONE Emulation Technology (PANTONE-licensed CMYK values for 4-color PANTONE simulation, utilizing ICC profiles to provide optimized simulation values for the specific press and media combination)

Optional equipment /configurations:

Expanded colors capabilities	5th, 6th, and 7th color printing; HP IndiChrome Ink Mixing System
White ink option kit	Enables the use of HP ElectroInk White
Thick substrate support kit	Supports paper boards up to 18 pt.
Additional feeding unit	One additional feeding module with a capacity of 3 x 1800, 80 lb text sheets (combined total of 11,500 sheets with main paper input system)
Additional stacking unit	One additional stacking module, capacity of 6000 80 lb text sheets

*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.

To learn more, visit www.hp.com/go/graphic-arts or www.hp.com/go/myhpindigoweb

4AA0-4904ENUS, April 2010. Printed on an HP Indigo digital press.

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