



HP PageWide Industrial Enhancements Catalog

For the HP PageWide Web Press
T200, T300, T400 HD families





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COLORPRO TECHNOLOGY

For color excellence in digital printing, look for papers with the ColorPRO Technology logo.

Compatible with
HP PageWide
Web Press

Look for the "Compatible with HP PageWide Web Press" badge to choose among compatible substrates from a wide range of media suppliers.

¹ The HP "Media Compatibility Program" ("Program") supplies information to media manufacturers, suppliers, and customers to assist in evaluating media compatibility with printers and inks from the HP Graphics Solutions Business. Media is supplied by independent third-party manufacturers. Inclusion in the Program and "Compatible with" media shall not be construed as an endorsement by HP for any of the media or manufacturers. HP makes no representation or warranty of any kind for any media in the Program including but not limited to media availability, media quality, media performance, or manufacturer changes that may impact any media characteristics. Media Compatibility information is subject to change without notice. HP makes no representation as to the Program information's completeness or accuracy. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. HP shall not be liable for technical or editorial errors or omissions contained herein. This information is provided as a courtesy, free of charge, "AS-IS" by HP. HP MAKES NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND REGARDING THIS INFORMATION. HP SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY IN CONNECTION WITH OR ARISING OUT OF THE FURNISHING OR USE OF THIS INFORMATION.

Print quality enhancements

HP Media Programs

For the HP PageWide Web Press series

Broad media choices for the HP PageWide Web Press series

Drawing on three decades of experience in inkjet technology leadership including printhead, ink and media development, HP provides solutions that allow customers to print on a wide variety of paper from inkjet treated and inkjet coated stocks to standard uncoated and coated offset media for applications ranging from newspapers to postcards, from letters to posters, and from books to magazines.

HP PageWide Presses can print to every category of paper from ColorPRO technology enabled papers that are tailored to HP's inks, to offset coated and uncoated papers. Enabling this broad range of capabilities is a media program that develops, tests and partners with paper and media companies worldwide.

The ColorPRO Technology

The ColorPRO Technology is developed by HP Inc. and licensed to leading media manufacturers worldwide. Papers developed utilizing the ColorPRO Technology are optimized for use on HP PageWide Web Presses to deliver color excellence in inkjet printing.

Performance assurance. ColorPRO Technology is based on the use of a set of paper enhancement technologies that visibly enhance the print quality of inkjet printing compared to standard uncoated offset papers, as well as other inkjet treated papers. ColorPRO Technology represents a quality standard for color excellence in digital printing, verified by HP or an independent testing agency.

ColorPRO papers use additives that interact with pigment inks. These additives treat the paper or coating to provide precise control over ink behavior at the paper surface. As the ink penetrates the paper, the colorant is immobilized at the surface, producing prints with higher contrast black, more striking colors, sharper lines, and finer detail.

Companies worldwide are integrating ColorPRO Technology into their paper manufacturing processes. By incorporating ColorPRO papers into their product lines, companies supporting the standard can offer their customers papers that keep pace with advancements in printing technology found in digital printing systems.

ColorPRO Technology for coated papers. Working with industry-leading media providers, HP and our partners jointly develop papers designed to provide high-quality, high-speed performance assurance ideal for digital printing applications, such as high-speed variable-content printing. Our partners provide the focus and experience of market leaders in the coated paper industry. HP provides the technology innovation and proven performance of digital printing technology.

The portfolio of papers using ColorPRO Technology for high-speed coated offerings is rapidly expanding to include a variety of high-performance substrates across a range of basis weights (text to cover) with different finishes.

Media Compatible with HP PageWide Web Presses¹

HP has a focus on papers that includes priming, bonding agents and ColorPRO Technology. As a part of that broad program, paper mills and media manufacturers can work with HP to test their papers as Compatible with HP PageWide Web Press technology.



Coated and thin media options

HP T300 HD and T400 HD series Coated Media Option

Gain more media flexibility for your HP press. The Coated Media Option uses a lighter weight roller on the rewind module to optimize pressure between the roller and paper, making this option ideal for high coverage applications on coated and glossy media.

COLORPRO TECHNOLOGY



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ColorPRO partners: high-speed coated papers

HP has entered into a business relationship with a number of paper companies worldwide that produce high-speed coated papers with ColorPRO Technology that are compatible with the HP PageWide Web Press series. These summaries provide profiles and contact information for current participants.

About Zanders. Zanders, a German manufacturer of high-quality specialty papers and boards developed especially for labels, packaging and graphical applications. Zanjet, a coated Gloss & Silk inkjet coated paper was design for high speed inkjet and is available in a broad range of basis weights from 61# text (90 gsm) to 9pt 92# cover (250 gsm). Zanjet meets strict ColorPRO Technology standards to offer optimized print performance, superior quality, and maximum densities at full press speed. Suitable applications include full color brochures, direct mail, commercial applications, softcovers, and books. To learn more, visit zanders.de

About Pixelle Specialty Solutions. Pixelle Specialty Solutions™ is a leading North American paper manufacturer headquartered in Spring Grove, Pennsylvania. With 150 years of leadership, our manufacturing facilities in Pennsylvania and Ohio mark the birthplace of modern papermaking. Pixelle was among the first to introduce a dedicated line of inkjet papers and today, is one of the world's leading manufacturers of digital inkjet papers with over 30 different products including Uncoated, Treated and Coated papers. For more information, visit www.pixelle.com



COLORPRO TECHNOLOGY

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ColorPRO partners: uncoated papers

HP has entered into a business relationship with a number of paper companies worldwide that produce uncoated ColorPRO papers compatible with the HP PageWide Web Press series. These summaries provide profiles and contact information for current participants.

About International Paper. International Paper Company is an ideal match for inkjet customers looking for solutions in finishing, workflow management and materials knowledge. With the ability to deliver end-to-end options for direct mail, commercial, transactional, and promotional materials, our Merchant Partners and Digital Printing Expert help to meet the requirements demanded in the production printing industry. Founded in 1898 and headquartered in Memphis, Tennessee, International Paper Company has grown into the world's largest paper and packaging products company with approximately 58,000 employees in 24 countries around the world. As long as HP PageWide Inkjet Presses have been around, International Paper has made the products to make them shine. We have applied extensive knowledge to developing exceptional papers for high-speed digital presses. Accent® Opaque with ColorPRO Technology, and Williamsburg Offset with ColorPRO Technology keep the pigment ink on top of the sheet to provide brilliant color and remarkable clarity that you have to see to believe. If you are looking for the feel of a coated stock, but need the latitude of an uncoated sheet, consider Accent® Opaque Super Smooth with ColorPRO Technology. Regardless of your opportunity, International Paper has the solution!

About Crown van Gelder. Dutch specialty paper mill, Crown Van Gelder, is known globally for quality and outstanding technological know-how. The highly flexible mill focuses on producing high-speed inkjet paper for the publishing and promotional world, paper grades for self-adhesive labelling, technical specialties and packaging. With the CROWN LETSGO inkjet range, the mill has gained a leading position in the field of high-speed inkjet printing, both in market share, technological know-how and insight in market opportunities. CVG's value chain approach, dialogue with print providers and end-customers, provides a clear insight in market needs and clues for new development. This makes CVG an attractive partner for growing your high-speed inkjet business.

About Mondi. Mondi is an international packaging and paper company with 100+ sites in 31 countries employing around 26,000 employees. Within their Uncoated Fine Paper business they serve customers globally from four mills. Sustainability is the key driver - all papers are part of Mondi's Green Range, meaning they are FSC® or PEFC™ certified, 100% recycled or TCF bleached. Mondi continually invests in making its mills as energy efficient and sustainable as possible. For Mondi, sustainability makes good business sense - every day. To learn more, visit mondigroup.com

About Evergreen Packaging. Evergreen Packaging is a global leader in creating fiber-based packaging and paper solutions customized to deliver brand and business distinction. Evergreen Packaging makes and supplies products globally with manufacturing facilities in the US, Asia, Central America and the Middle East/North Africa. Built on a foundation of manufacturing excellence, Evergreen Packaging has been producing Printing & Writing papers for over 100 years. Evergreen Packaging continues to innovate and create reliable products such as high speed digital inkjet papers designed to provide exceptional runnability and print quality. All the fiber used in Evergreen Packaging products comes from forests in the US where responsible forestry practices are used and where overall growth exceeds harvest. To learn more, visit evergreenpackaging.com





HP High Definition Nozzle Architecture technology



Upgrade to the next generation of production inkjet

High Definition Nozzle Architecture (HDNA) is HP's latest inkjet printhead technology. By delivering 2400 nozzles per inch¹ and providing support for dual drop weight per color, these new printheads represent a breakthrough in the print quality and performance of HP PageWide Web Presses. HDNA provides image quality ideal for demanding applications in publishing, direct mail, and commercial print, enabling you to do more: pitch new ideas and expand your offering.

Improved print quality

Enjoy best-in-class print quality, simply by upgrading your existing equipment. HDNA Quality mode¹ with dual drop weight offers smoother transitions and color fills, enhanced shadow details, and more even skin tones.

Available Upgrades

Existing HP customers are invited to upgrade their current HP PageWide web press to HDNA and benefit from higher productivity in Performance mode² and these technical advancements in Quality mode¹ so they can profit from new HDNA functionality.

	Available for	Upgrade to
	T200 T230	T240 HD – Up to 152m (500 ft) per minute ^{2,3}
	T300 T350 T360	T370 HD – Up to 183m (600 ft) per minute ³ T380 HD – Up to 244m (800 ft) per minute ³ T390 HD – Up to 305m (1,000 ft) per minute ³
	T400 T410	T470 HD – Up to 183m (600 ft) per minute ³ T480 HD – Up to 244m (800 ft) per minute ³ T490 HD – Up to 305m (1,000 ft) per minute ³

¹Per color in Quality mode, delivering the highest quality using dual (low and high) drop weights.

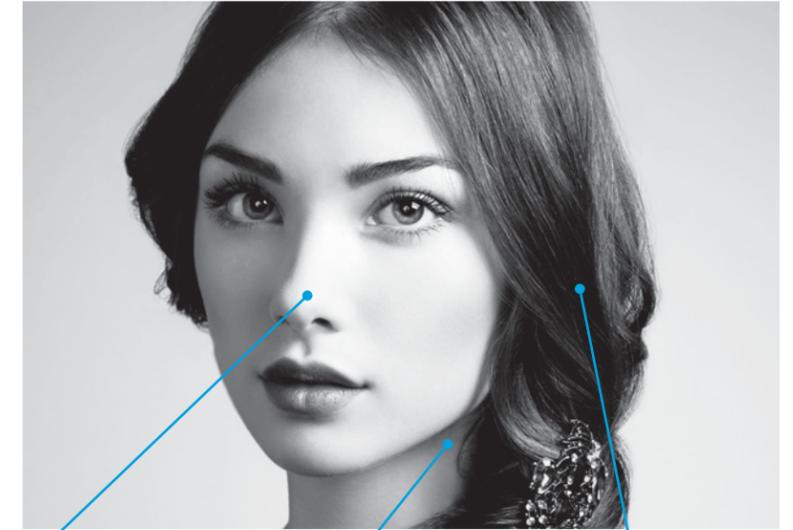
²In Performance HDK mode, using dual (low and high) drop weights in black ink and single (high) drop weights in color inks.

³In Performance mode, using single (or high) drop weights.

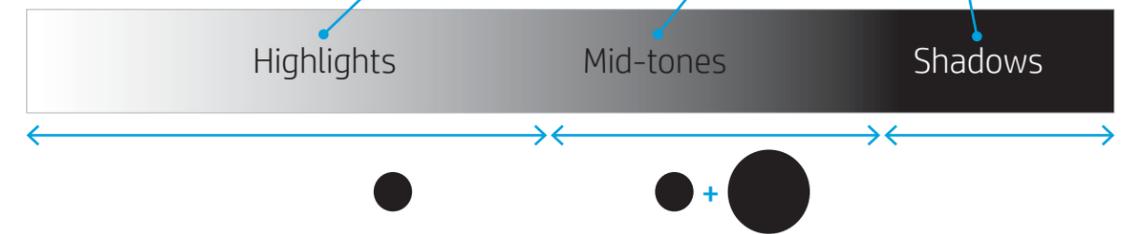
Printing with HP HDNA Technology

Using Low Drop Weight and High Drop Weight drops in Quality Mode

- The image processing pipeline converts continuous-tone data to halftones and placement commands for LDW and HDW drops
- Some processing objectives:
 - Implement color and mono ICC profiles and setup options
 - Match colors as closely as possible
 - Minimize grain and artifacts
 - Obtain smooth color and monochrome transitions
 - Set ink limits for the loaded paper

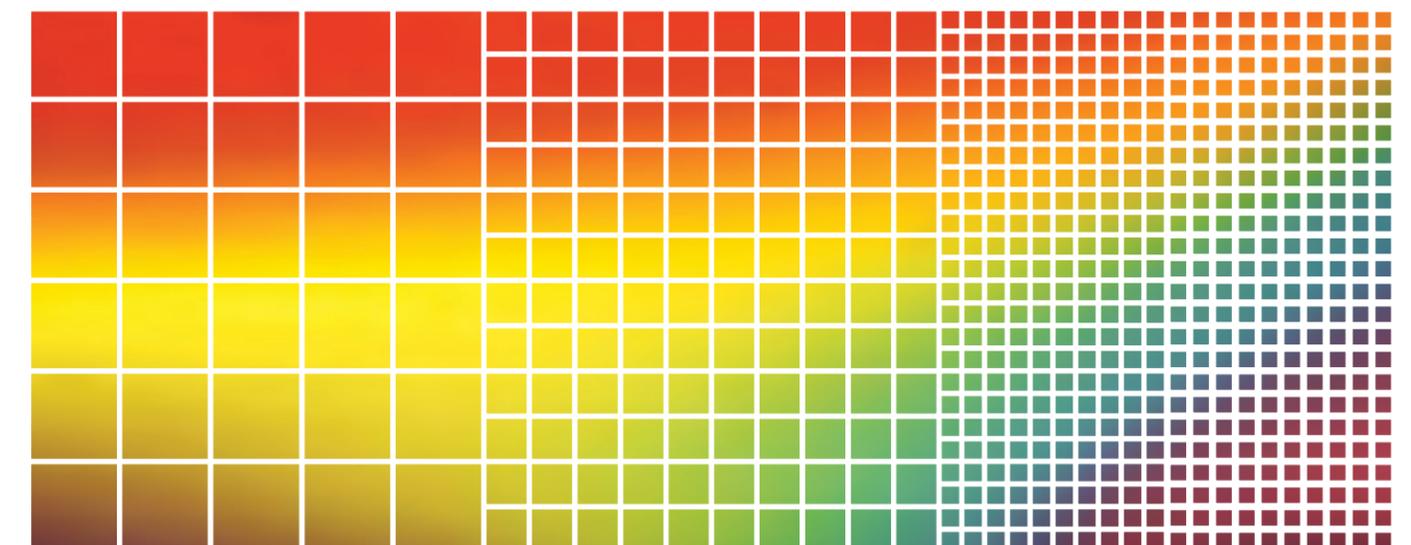


LDW and HDW drops are used in different regions across the density ramp for each color



More addressable colors within the press gamut

← Finer color resolution →





HP MICR for HDNA

Deliver secure prints with consistent MICR quality

Meet the standard for secure prints with the HP MICR solution,¹ designed together with the HP PageWide Web Press to deliver precise, consistent MICR quality.

Key details

- Consistent MICR quality in a solution meticulously tested and optimized as an integrated system with the HP PageWide Web Press.
- Prints meet the ANSI X9.100-20-2006 standard for MICR.
- HP printheads, based on proven HP Scalable Printing Technology, produce sharp, well-defined characters, enabling high reader-sorter processing success rates.
- HP MICR ink supplies are designed for on-the-fly replacement, while the press runs.
- HP MICR printheads remain installed on the press and are capped to maintain reliable performance and life.
- Reduce or eliminate inventory costs associated with storing and managing pre-printed MICR shells—print on pre-printed forms or deliver 100% variable full-color documents from white sheet.
- The HP MICR ink system can be easily removed and stored for added security.

Enable fast, accurate document processing with precise, secure Magnetic Ink Character Recognition (MICR) prints.

The business of secure prints

Magnetic Ink Character Recognition, or MICR, is a character recognition technology used to protect financial transaction documents. Unique MICR fonts—most easily recognized as the block-shaped numbers and symbols that make up the account number on checks—are printed with a magnetic ink that must be accurately read during high-speed, automated processing. Printing documents that achieve high reader-sorter processing success rates demands reliable, high-quality printing performance. Placement, uniformity, and precise character definition are critical. MICR printing standards are developed by The American National Standard Institute (ANSI), including requirements for MICR fonts and signal strength.

Produce MICR prints with precision

The HP MICR solution produces output that meets industry standards and precise specifications for print quality and signal strength. Using HP MICR inks, your secure prints meet the ANSI X9.100-20-2006 standard for MICR including attributes such as shape, dimensions, skew, void, and signal strength. Sharp, well-defined, high-quality characters printed with HP Scalable Printing Technology further enable high reader-sorter processing success rates.

Maintain high productivity

Reliable, high-quality printing enables high productivity. The HP MICR ink and printhead are meticulously tested and optimized as an integrated system to deliver consistent MICR quality. To help you maintain high productivity, HP MICR ink supplies are designed for on-the-fly replacement, while the press runs. When not in use, HP MICR printheads remain installed on the press and are capped to maintain reliable performance and preserve printhead life.

Secure this self-contained solution with ease

This solution offers security in more ways than one. The HP MICR ink system is designed as a self-contained, mobile solution. Connect it to your press, and when finished, simply remove it from the press and store in a secure place. The HP MICR solution can be ordered as an option with your new HP PageWide Web Press, or you can add it to your existing HDNA press.



The HP D2200 Duplex Primer integrates seamlessly with the HP T2xx HD Series PageWide Web Press. Print on the widest range of offset coated media without the cost and hassle of switching to specialty inks. Deliver high print quality to your customers at a lower cost.

HP D2200 Duplex Primer

Print on the widest range of offset coated media without specialty inks

Versatility: Expand your media and application breadth

Print on the widest range of coated offset media and enable your business to do and offer more. Take advantage of the wide variety of media weights and finishes available from all the leading media manufacturers. HP's P47 Coated Paper Priming Agent is compatible with matte, silk, satin, or gloss media, so you can take advantage of one solution for all your applications. Expand your printing capabilities and offer your customers more options.

Increase productivity, lower production costs

Rely on a highly productive solution that can run as fast as your press and enables you to use lower cost offset media. Increase your turnaround time by utilizing more widely available offset coated papers. Use the offset media you already have in stock or that your customer specifies – and maintain the current pricing from your media vendor.

Print high image quality

HP's proprietary P47 Coated Paper Priming Agent is based on years of HP's material science development and testing. As a result, you'll see higher optical density, expanded color gamut, and vibrant image quality that is equivalent to or better than coated inkjet papers.

The HP P47 Coated Paper Priming Agent is an aqueous solution that is odor free, non-hazardous, and requires no VOC declarations.



¹ Consult your PageWide Web Press account manager for availability. MICR print speed is enabled up to 152m (500ft) per minute in crossweb print orientation.

Technical Specifications

Applications	Publishing, Direct Mail, General Commercial Printing
Hardware solution components	K1B12A - HP 22-inch Primer
Configuration	In-line configuration
Paper width	15 to 21.5 inches
Media weight	40 - 250 gsm (30-170 lbs)
Max Priming speed	400 feet (122 m)/min
Dimensions	Equipment size (LxWxH): 57 x 55 x 54 inches. Space required (clearance) (LxWxH) may be as much as 100 x 20 x 54 inches.
Fluid	HP P47 200-liter Coated Paper Priming Agent



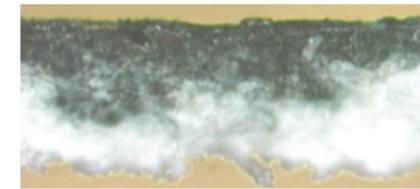
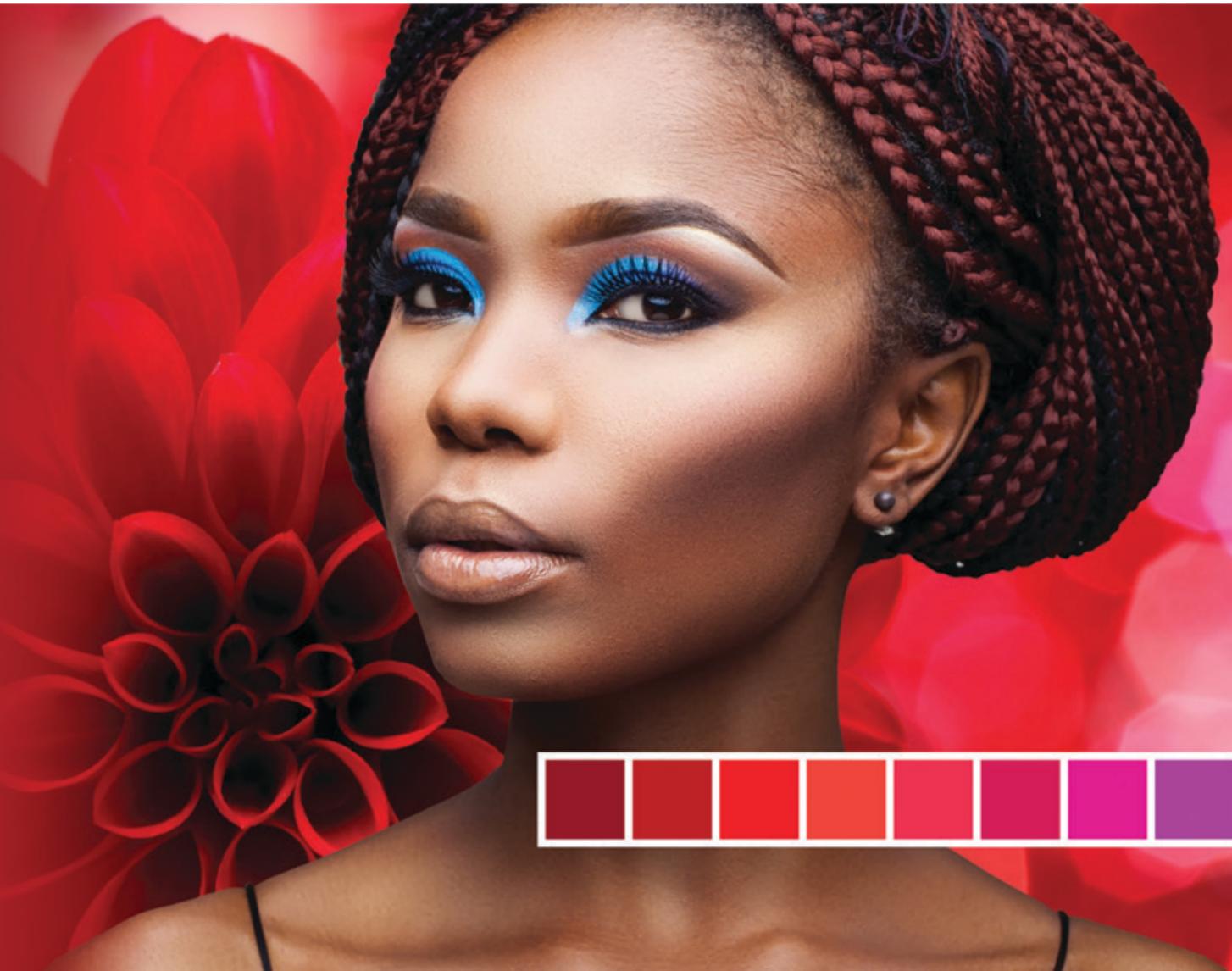
HP Bonding Agent

Your competitive advantage for great print quality

Make color pop and text stand out on your standard uncoated offset media with exceptional, consistent results.

Printed communication is meant to inform, intrigue and delight. The best communication does that with excellent content and excellent print working in unison to meet the needs of the content developer. HP PageWide Web Press printing is an excellent solution, but not all PageWide solutions provide the same level of quality. HP Bonding Agent, used with HP PageWide Web Presses, helps ensure great quality on standard uncoated offset media, producing that great look and feel demanded by designers, brand owners and print buyers.

HP Bonding Agent is a colorless liquid that is printed before black and color inks only where the paper will receive ink. You see the intended color because it immobilizes the ink pigments near the paper surface to control the spread and penetration of the ink. Bonding Agent also improves color saturation and black optical density, while limiting feathering and show-through. Now you can use less-expensive, standard uncoated offset paper, often with reduced density color profiles, to optimize ink costs for your jobs.



Printing without bonding agent
Not all pigments stay near the surface.



Printing with HP Bonding Agent
Colorants react with HP Bonding Agent to stay near the surface and bind with the media.

Get the print quality you want...

The truth is that uncoated paper likes to absorb ink, which can alter the vibrancy of color graphics and images as well as the crispness of the text. HP engineers discovered that when HP Bonding Agent is applied under the text and graphics, colors stay vibrant and text remains crisp at even small type sizes. The magic is in the way HP Bonding Agent prepares the paper substrate to accept the ink. By keeping the ink on the surface of the paper, the dot gain (spreading) and seepage of the ink droplets are limited, bringing a richer quality to the print.

On the paper you want...

The best thing about HP Bonding Agent is that it allows you to use the paper you know, unlocking economic opportunity. No matter what kind of stock you use, including a wide range of uncoated offset stocks, lightweight or newspaper stocks, HP Bonding Agent allows you to print reliably with no show-through. You won't have to wait for delivery of specialty stocks. The uncoated stocks your customers specify will be able to produce the results they demand. And, because the bonding agent is printed inline during production, there is no additional time needed for stock preparation. You and your customers will appreciate the convenience and options.

And use less ink

HP Bonding Agent enables you to use reduced density color profiles, reducing the overall amount of ink required to get the pop and optical density your customers demand. In fact, some jobs will benefit from trying different ratios of ink to bonding agent to find the print quality / ink cost that is right for your job.

The more you know...

HP provides resources about using color to your advantage. Ask your HP representative about the following guide:

Color solutions guide

This guide provides technical guidance on how to achieve the best results using pre-press tools, paper selection and on-press controls. HP's color solutions span these three areas to produce exceptional, consistent results within a roll, roll-to-roll, job-to-job, and press-to-press.



HP Color Calibration Upgrade Kit

Optimize production color consistency

Produce the most consistent output across a variety of papers and HP PageWide Web Presses. Create ICC profiles that lock in color values established during initial calibration so that the press returns to the calibrated state after paper changes.

State of the art tools

Use the spectrophotometer installed with the press vision system to measure color patches during calibration. That set of measurements becomes the link between the color and the paper to ensure color consistency.



HP SmartStream Color Studio family

Essential color management and proofing packages to support your high-performance PageWide Web press

Each Color Studio package provides all you need for quick and easy startup to get professional quality color results

- A complete package saves the time and energy spent on searching for and testing components that will work well together.
- Installation and setup is included. Provide a location, power, and network and we take care of the rest.
- On-site training is included. We explain the basics of color, operation of all the tools, and how to get started with your production system.
- We offer best practices guidance—walking your operators through the process, at your facility, and using actual jobs as part of the training. Our experience becomes your knowledge.

Comprehensive color support tools

- Color management software is provided by ColorGATE Production Server software configured to HP specifications.
- Three levels of performance are available:

HP SmartStream Color Studio

Produce professional color results on the HP PageWide Web Press

- Create ICC profiles for each production paper to emulate the color output of your press with the proofer.
- Create swatch patterns to evaluate color gamut and help visualize color matching.
- Software analysis of fine color adjustments helps choose the best options for targeted spot colors.

Includes everything needed to get started

- Soft proofing platform including server & calibrated monitor.
- Color profiling, calibration, and spot color matching tools.
- Color viewing light booth.

HP SmartStream ColorElite Studio

The complete Color Studio features plus: Ink Saver Tool, Media and Light Profiler, Workflow (JDF) Automation capability with inline PDF file processing, and additional RIP capacity.

Each HP SmartStream Color Studio includes

- HP Z8 G4 Workstation
- HP Monitor DealClr Z27xG2 Studio Display
- Color RIP/Profiler software: ColorGATE Production Server – HP Color Studio Edition
- Automated scanning table: X-Rite Model I1 IO2
- Hand-held spectrodensitometer: X-Rite Model I1 Basic Pro 2
- Pantone® Color Viewing Light (3-light box)
- Pantone® Printer color management kit (GPG301N)



SmartStream Color Studio – proofing options

The HP SmartStream Color Studio includes a complete soft proofing solution with options for hardcopy proofing printers

Cut time and costs with advanced, accurate offline color and layout proofing for the HP PageWide Web Press Color family.

Soft proofing

- Preview jobs without stopping production
- Experiment with design elements and view changes more quickly than with a hardcopy or on-press proof
- View accurate colors with a color calibrated monitor
- Provides all you need to get started, including:
 - HP Z8 G4 Workstation
 - HP Monitor DreamClr Z27xG2 Studio Display

Hardcopy proofing

- Emulate jobs before they go to press
- Preserve valuable press time and materials for sellable production, not proofing
- Create profiles to tune colors for specific papers
- Choose a 61 cm (24 in) or 112 cm (44 in) HP DesignJet Z9+ PostScript® Printer to emulate full press width layouts
- Adapts to production paper roll ends for many substrates

Using this complete color management and soft proofing package, your prepress team can create profiles to get the best image quality possible for each new substrate, make ink reduction vs. quality tradeoffs, create and analyze swatch patterns to visualize press gamut, and use it to assist in color matching. Reliably fine-tune brand colors, or experiment with different color settings.

Color accurate soft proofing is included in every HP SmartStream Color Studio package and is enabled by the HP DreamColor LP2480zx 24-inch Professional Display. This calibrated monitor will let you see the effects in real time of any adjustments being made to any job's color settings.

Optional printers are also available to provide hardcopy output proofs. The extended gamut provided by the HP Designjet family of printers enables color accurate proofs so that color and layout meet your approval before you go to the press. The profiling tools in the HP SmartStream Color Studio are also used to accurately profile the proofer to match any target device.

Technical specifications

Components are configured by HP for operation with the color proofer solution kit. Models of equal or better performance may be substituted at installation based on availability.

Web station platform	HP Z8 G4 Workstation ¹	
Hard drive	1 TB	
Graphics	NVIDIA®Quadro®P4000 1st GFX 8GB Graphics	
Memory	16 GB DDR4	
Operating system	Windows®10 Pro 64 for Workstations	
Display	HP Monitor DreamClr Z27xG2 Studio Display ¹	
Viewable image area	68.58 cm (27 in) diagonal, 16:9 ratio, color accurate	
Native resolution²	QHD (2560 x 1440 @ 60 Hz)	
Printer with stand³	DesignJet Z9+ PostScript® Printer 61 cm (24 in) or 112 cm (44 in) available ¹	
Print speeds	Best	48 ft2/hr1 (4.5m2/hr1) on glossy media
	Normal	185 ft2/hr1 (17.2m2/hr1) on coated media ⁴
	Draft	769 ft2/hr1 (71.4m2/hr1) on plain media ⁴
Print resolution²	Up to 2400 x 1200 optimized dpi	
Printheads	5 universal printheads (valid for all colors)	
Ink colors	9 ink cartridges included (cyan, magenta, yellow, matte black, photo black, chromatic red, chromatic green, chromatic blue, gray)	
Paper handling	Single-roll: Roll feed, top sheet feed, rear sheet feed for rigid media, media output bin, automatic horizontal cutter; Dual-roll: Two automatic rolls feeds, smart roll-switching, top sheet feed, media output bin, automatic horizontal cutter and vertical trimmer (cuts all HP Z-series printer-qualified media, including canvas)	
Adapter kit for spindle	7.62 cm (3 in) roll adapter is included	
Paper weight	Up to 500 gsm (133 lb)	
Paper size	61 cm (24 in) model: 216 x 279 x 610 x 1676 mm (8.5 x 11 x 24 x 66 in); 279 to 610 mm (11 to 24 in) rolls 112 cm (44 in) model: 216 x 279 x 1118 x 1676 mm (8.5 x 11 x 44 x 66 in); 279 to 1118 mm (11 to 44 in) rolls	
Media⁴	1 roll of (#Q8920A) HP Everyday Pigment Ink Satin Photo Paper 235 g/m ² photo paper is included	
Consumables	Paper, ink and printheads are readily available from HP or local distributors	
Color RIP / profiler software	ColorGATE Production Server (PS9) – HP Color Studio Edition	
Software localization	ColorGATE supports: English; Chinese (simplified, traditional); Danish; Dutch; Finnish; French; German; Greek; Italian; Japanese; Korean; Norwegian; Polish; Portuguese; Russian; Spanish; Thai	
RIP technology	Adobe PDF Print Engine (APPE)	
Automated chart reader	X-Rite Model I1 I02 Automated Scanning Table	
Color viewing light	PANTONE® Color Viewing Light (3-light unit)	
Hand-held Spectrodensitometer	X-Rite Model I1 Basic Pro 2	
Pantone® color guides	Pantone® Printer color management kit (GPG301N)	
Onsite installation	Onsite installation and setup – customer responsible for furniture, power, and network connection Power required: 100-127 VAC, 50-60Hz, typically one 15 A circuit with 5 outlets Network required: one connection to HP workstation, 10/100/1000Base-T Ethernet, RJ-45 port	
Onsite training	3 days	

¹ Complete spec sheets are available at hp.com.

² Image processing techniques are used to match the HP PageWide Web Press Color output for proofing purposes.

³ Stand not included in the box in Asia Pacific for 61 cm (24 in) models.

⁴ Media is critical for best results - make sure that paper on proofer and target press are compatible.



Workflow enhancements

HP SmartStream Workflow Platform

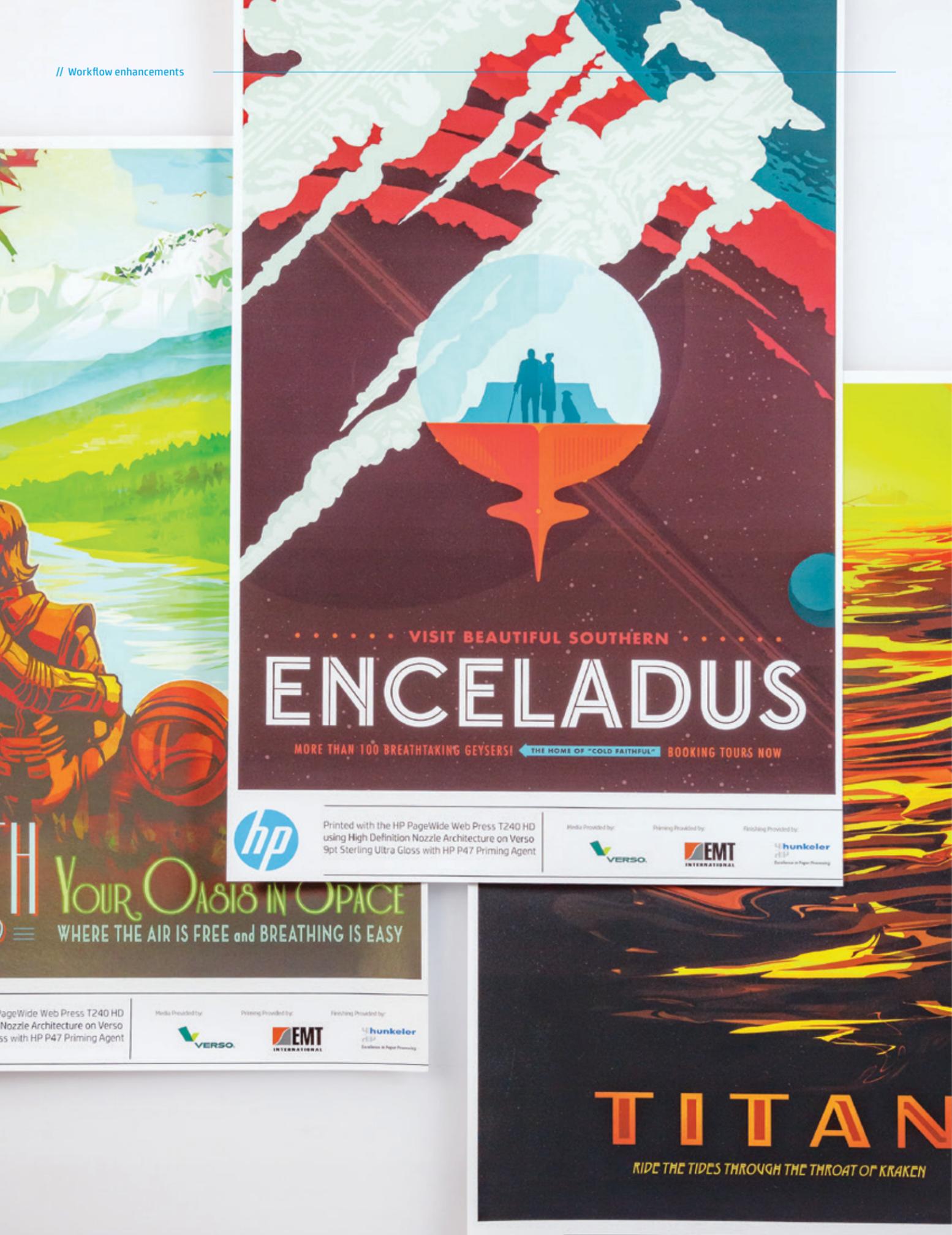
Wide choice of workflow solutions for varied applications.

The HP family of inkjet presses are highly capable of producing quality print across a wide range of printed products, whether you focus on publishing, direct mail, commercial print applications, or any combination of them. The complete solutions available by combining HP SmartStream core products with HP qualified SmartStream partners provide high-value workflow enhancements resulting in improvements to your productivity and bottom line.

Choose from a wide range of production-proven solutions from our growing network of highly qualified, industry leading workflow partners. HP SmartStream partners offer best-in-class solutions for tasks that include job creation & VDP composition, workflow automation, data processing, color management, imposition and tracking systems and more.

Expert technical support throughout the selection, installation, and integration process.

We listen to each customer individually and tailor the best solution specifically for *your* requirements. Whether you need off-the-shelf products or wish to integrate with home-grown solutions, HP will help you find that right combination of products, partners, and integration work that allows you to reach your goals. With expert technical evaluation provided by HP, you can choose your solutions with confidence. The HP Solutions Services team supports your specific integration requirements to fit your needs. Let us help you find that differentiator that separates your business from the rest.



Printed with the HP PageWide Web Press T240 HD using High Definition Nozzle Architecture on Verso 9pt Sterling Ultra Gloss with HP P47 Priming Agent

Media Provided by:



Printing Provided by:



Finishing Provided by:



PageWide Web Press T240 HD using High Definition Nozzle Architecture on Verso 9pt Sterling Ultra Gloss with HP P47 Priming Agent

Media Provided by:



Printing Provided by:



Finishing Provided by:



TITAN

RIDE THE TIDES THROUGH THE THROAT OF KRAKEN



HP SmartStream Production Elite Print Server

For Commercial HP PageWide Web Presses featuring HE10 compute system hardware and PCR 5 press code software

A Solid Investment

The HP SmartStream Production Elite Print Server supports a scalable RIP that is uniquely architected to handle the toughest jobs today and grow even further along with your business, making it a solid investment.

Upgradability protects your press investment into the future, keeping presses relevant with performance improvements and addition of new features, expand and adapt as requirements evolve and your business grows.

Print Server Subsystems:

HE10 Compute Stack Hardware:

- DFE with Scalable RIP & Application servers

- Print Engine Controllers (PEC):

– 1-simplex, 2-duplex

- Press Electronics

PCR 5 Press Software

Digital Front End (DFE) Productivity

- Fast DFE feeds high performance industrial web presses at full engine speeds
- Drives the highly productive HP PageWide Web Presses: T2XX, T3XX, & T4XX
- Choose to run presses in Performance or HDNA Quality modes
- Scalable RIP raises the ceiling for processor power: from simple static jobs up to the toughest variable, short run and print-to-order jobs

Press System Versatility

- Rack choices: standard rack for remote “lights out” locations or press side rack
- Press controls integrate with a variety of inline or nearline finishing devices including continuous multi-roll printing systems
- Document processing for MICR, bonding agent and preprinted forms
- Print engine controller maintains data to press synchronization and registration
- Workflow connectivity options: HP PrintOS API, JDF/JMF, Hotfolders, XML, SDK

Quality & Reliability From a Trusted Source

- Proliant server & network technology is field proven in critical IT environments
- Standard UPS backup safeguards against lost or poor quality power
- Offset quality produced with HP High Definition Nozzle Architecture (HDNA)
- Press electronics deliver nozzle redundancy that eliminates jetouts
- Applies optional bonding agent to bring out the quality on uncoated media
- Dynamic color profiling and ink reduction fine-tune the look at the right cost

HP SmartStream Web Press Metrics API

Optimize your business by integrating press data into your production management system, with the HP SmartStream Web Press Metrics API. This real-time data interface provides insight into a wide range of press parameters, to enable excellent operational efficiency and support better business decisions. Track production activity for quality control, and use analytical reports to help you locate and fix production bottlenecks.

- Provides live feeds of press data, including:

– Current job status

– Press state

– Ink levels

– Paper consumption

– Operator activity

– Maintenance tasks due

- Integrates with most common application software packages.

Scalable RIP optimizes the print server's size according to your applications

The Base DFE for each press model supports the most common applications.

Additional server modules are added as needed to attain additional performance.

RIP Processing Unit (RPU) Sizes

DFE performance level	Distributed/shared preRIP & RPU storage	Number of RPU servers
T2XX Base	19.2 TB	3
T3XX/4XX Base	24.0 TB	5
* Add a Server	4.8 TB	1

*At 42U tall, the Standard Rack holds up to 9 RPU servers. A second rack can be added for further expansion.

*At 47U tall, the PSR holds up to 12 RPU servers. Note: two PSR racks cannot be linked together and still maintain the environmental advantages.

Application Server

Pre-installed software for JDF/JMF communication, imposition processing, and Ink Estimator

PrintOS Ready

Connect to the PrintOS Software as a Service platform

Optimized connection to PrintOS Site Flow's powerful production management & workflow software

Complementary access to press optimization applications:

- Print Beat for PWP, Insight, Knowledge Zone, Service Center, Marketplace, and more...

Technical specifications

Supported presses	All PageWide Industrial T2XX, T3XX, T4XX presses
HE10 Compute Stack	Generation 10 server based hardware system consisting of DFE Servers, PEC Servers, Press Electronics with firmware, power distribution, network infrastructure, UPS and Rack Enclosure
Networking	Local Area Network (LAN) and Wide Area Network (WLAN) connections. Cisco® network compatible.
PCR 5	Press Code Release - core software supporting the HP PageWide Web Press
Input data formats	Portable Document Format (PDF) - Self-contained PDF printable content files are supported: PDF 1.3-1.7, PDF/X-1a:2001, PDF/X-1a:2003, PDF/X-3:2002, PDF/X-3:2003, PDF/X4, PDF/VT-1, PDF 2.0
Cabinet options	Standard Rack for remote IT environments: 42U, HP 642 1200mm Shock Intelligent Rack with Rack Stabilizer Kit Dim: W 23.54 in (597.8 mm) x L 51.19 in (1300.2 mm) x H 78.98 in (2006.6 mm) Weight: 1300 lbs (589.67 kg) – Print servers with large RIP capacity can be expanded into a 2nd rack Optional Press Side Rack (PSR) - 47U, environmentally controlled Rittal TS IT Dynaload Rack with shock pallet, filter and cooling unit. Weight: 1600 lbs. (725.74 kg) – Note: Press Side Racks cannot expand to multiple racks
Uninterruptible Power Supply (UPS)	Provides controlled shutdown protection against data loss due to a power outage or poor power input. Supports all DFE sizes. Standard for all systems.
Local display	HP LCD8500 1U Rackmount Console Kit with a 18.5-inch WXGA TFT LCD
User interface	HP PageWide Web Press Job Submission Tool - this client software enables job related tasks and queue access either at the press or remotely
Processor hardware	PreRIP Server & Application Server - HP DL360 Gen10 (Dual Intel® Xeon-Gold 5118 2.3 GHz, 12-core, 128 GB RAM, Windows 2016) RIP Processing Unit (RPU) - HP DL360 Gen10 (Dual Intel® Xeon-Gold 5118 2.3 GHz, 12-core, 128 GB RAM, RHEL 7.4) Press Control Server (PCS) - HP DL360 Gen10 (Dual Intel® Xeon-Gold 5118 2.3 GHz, 12-core, 256 GB RAM, RHEL 7.4) Print Engine Controller (PEC) Servers - HP ML350 Gen10 (Dual Intel Xeon-Gold 6130 2.3 GHz, 12-core, 64 GB RAM, RHEL 7.4)
RIP core	Global Graphics Harlequin Host Renderer (HHR) v12.1r2
MICR & Bonding Agent	Drives the MICR & Bonding Agent press writing systems options
Color profile support	ICC version 4.0, device link profiles
Application Software included	Ultimate Impostrip OnDemand Scalable Server Edition Ultimate Impostrip OnDemand Digital Automation Ultimate Impostrip XML Redirection Module HP SmartStream Web Press Ink Estimator HP SmartStream Web Press Metrics API
Operating environment	Temperature: 50 degrees to 77 degrees F (10 degrees to 25 degrees C) Humidity: 10 to 90% (non-condensing) Consult your HP Solutions professional for more information
Security Support	Virus scanning for Windows and Linux, monthly security patches, & vulnerability mitigation backed by HP cybersecurity experts

Support and service contracts

HP offers a wide variety of post warranty support and service contracts for all its Digital Presses and Digital Front End (DFE) workflow systems, including Full Maintenance Support and Shared Maintenance Support Programs



HP SmartStream VDP Studio

HP SmartStream Designer

HP SmartStream Designer technical specifications

HP SmartStream Designer for Adobe InDesign

- Mac OS X versions 10.11 or 10.12, Java JDK 8
- Microsoft Windows 7 with Service Pack 1 or Windows 10, Java JRE 8
- Minimum 8GB memory
- Adobe InDesign CS6 or CC 2017 64bit

HP SmartStream Designer for Adobe Illustrator

- Mac OS X versions 10.11 or 10.12, Java JDK 8
- Microsoft Windows 7 with Service Pack 1 or Windows 10, Java JRE 8
- Minimum 8GB memory
- Adobe Illustrator CC 2017 64bit

HP SmartStream Designer is a simple, affordable variable data software tool optimized for HP presses and based on industry standard tools. With this tool, you can leverage existing assets to create personalized versions for unique and sophisticated high-value jobs.

For high-speed VDP, it is ideal for creating background templates to use with HP SmartStream Composer. Use it to create the background designs with the rich editing and versioning options of Adobe InDesign or QuarkXPress. HP SmartStream Designer can also be used to define the variable data locations that HP SmartStream Composer will use to fill in from its data base.

HP SmartStream Mosaic

HP SmartStream Mosaic is variable design technology software provided with HP SmartStream Designer that enables the creation of one-of-a-kind products for a memorable customer experience. It automatically generates hundreds, thousands and even millions of unique graphics for variable data jobs, from a fixed number of base patterns, using scaling, transposition and rotation. Create endless versions of the same seed with Mosaic 3.0 colour shuffle.

Mosaic is available for latest versions of HP SmartStream Designer for InDesign and Illustrator. It can also be used with HP SmartStream Designer 6.3 for Adobe InDesign CS6.





HP SmartStream Composer technical specifications

Hardware

- Gen10 ML350 Tower computer
- Gen9 DL360 Rack Insert

Software

- HP SmartStream Composer software, Adobe

Workflows

- Personalization (VDP) workflow
- Imposition workflow

HP SmartStream Composer supports HP SmartStream Designer Template files created by

HP SmartStream Designer for InDesign CS6 and higher, and all versions of HP SmartStream Designer for Illustrator

Presses

- HP Indigo Digital Presses
- HP PageWide Web Press

WEB UI support

- Chrome, Safari, FireFox, IE version 11

HP SmartStream Composer

HP SmartStream Composer enables you to efficiently process jobs from capture to print, offering cost savings through accelerated creation and submission of variable data print (VDP) jobs. It is ideal for print service providers who produce personalized or customized print products, such as customized textbooks, versioned catalogs, personalized inserts for newspapers, and direct mail pieces. HP SmartStream Composer can add barcodes for production tracking in automated workflows or to add personalization and versioning capability to web-to-print portals. The solution is flexible to fit your growing business.

The HP SmartStream Composer VDP server boosts job creation using graphics templates created with the richly featured HP SmartStream Designer (included). The boost in composition performance makes HP SmartStream Composer and HP SmartStream Designer a powerful, yet cost-effective combination for producing variable data jobs for HP PageWide Web Presses for many applications.

Optimized to work with HP presses, HP SmartStream Composer creates the XML job ticket and hot folder needed to drive automated submission directly to HP PageWide Web Presses. Data is produced in PDF-VT format to take advantage of optimization with the HP SmartStream Production Elite Print Servers. If preferred, it can also connect to the HP SmartStream Production Center for automatic job submission in a broader production environment.

HP SmartStream Qualified Workflow Partners



ColorGATE delivers software and color services to simplify color management, spot color replacement, ink reduction, and proofing, providing consistent and reproducible color fidelity.



Compart provides high-performance document processing, format conversion, and output management solutions to keep workflows organized.



Enfocus specializes in the development of software tools to control the quality of PDF files for print and to automate workflow processes in the graphic arts industry.



Hunkeler provides web inspection systems with integrated tracking to continuously monitor print content and quality, assuring accurate completion of variable data printing.



Muller Martini offers standards-based digital workflow solutions that manage the print production of variable data, and single book production runs for saddle stitching, softcover and hardcover systems.



Ultimate TechnoGraphics develops automated load balancing imposition and production software to boost printing efficiency across a variety of applications.



Rotomail delivers end-to-end automated workflow solutions uniquely scaled to produce short run, print-on-demand, and book-of-one applications.



Solimar Systems offers customer communication management solutions that enhance PDF-based workflows with tools for onboarding, file queuing, tracking, reporting, archiving in its Chemistry platform.



Videk designs technology that monitors the accuracy and consistency of printed content to enable top-tier data-driven communications.



HP PrintOS Workflow Platform

 **HP Print OS**
Seize the digital opportunity

In today's constantly changing print world, the only way to compete is to adopt change faster than your customers.

Across every print segment, lead times are shrinking, segmentation and customization are growing, while image quality expectations are continuously rising. As you well know, the way you cope with increasing production complexity and pressure on margins is vital for your success today and for your growth tomorrow. For that, we have designed HP PrintOS.

Advance from fast to faster

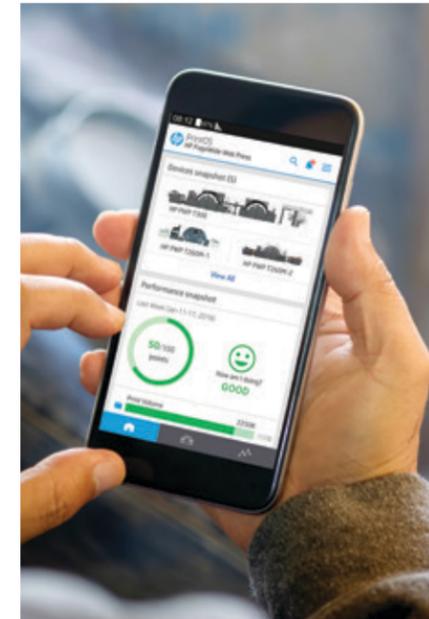
With the HP PrintOS print production operating system you can know more, do more, and grow even more. This cloud-based platform, with web and mobile apps connected to your HP devices, adapts your operations to today's market. It's the difference between keeping up and speeding ahead.

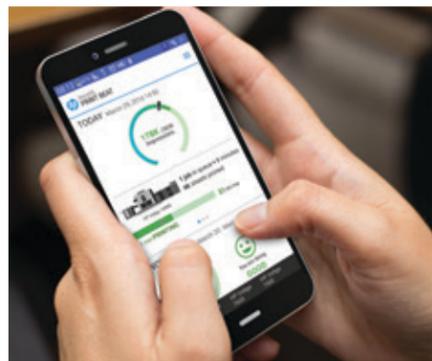
Make PrintOS your advantage

Get more out of your HP presses and printers. Simplify and automate your print production. With PrintOS you can inspire your team, make better and faster informed decisions, continuously improve your operations, and better collaborate with partners and colleagues. With your HP digital press and PrintOS, you've got everything you need to meet and exceed your customers' expectations, and discover new opportunities for growth.

Why advance to PrintOS cloud-based services?

-  **Easy setup and low implementation costs**
No hardware to buy, software licenses fees, or installation.
-  **No maintenance required**
HP manages all the upgrades and updates remotely, so you don't have to download, install, or manage any of it.
-  **Unlimited service**
24x7 service monitoring and automated service elasticity and capability.
-  **Simple integration**
PrintOS meets print service providers' needs today and in the future with open APIs that allow easy and simple integration with other solutions and products.
-  **Peace of mind**
A combination of state-of-the-art HP security, privacy, and availability commitment built on AWS.





HP PrintOS Reinvent print production

HP PrintOS is a print production operating system with apps that help you get more out of your HP presses and printers, and simplify and automate your production processes. Use PrintOS to continuously improve your operations and enable new forms of collaboration. Access the open and secure cloud-based PrintOS platform anytime, anywhere.

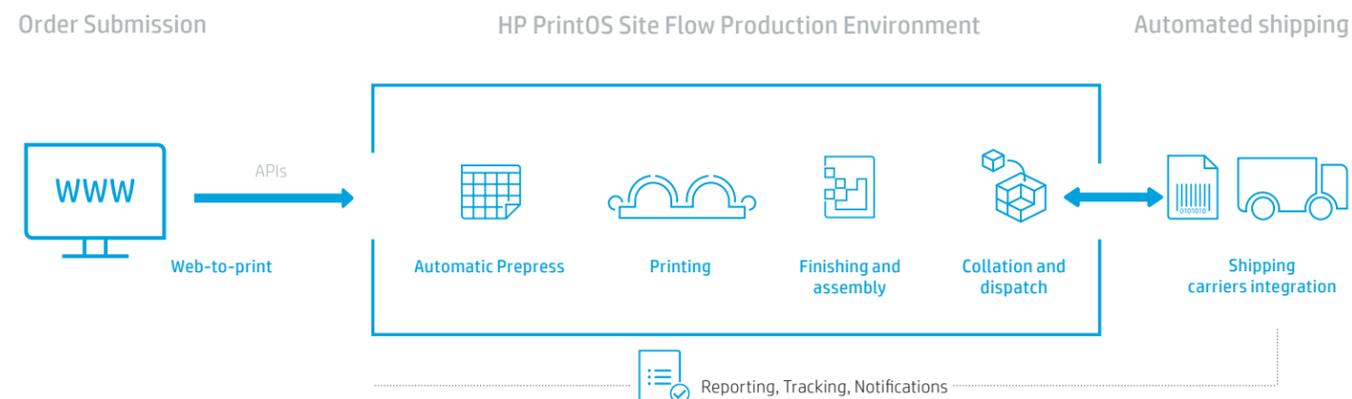
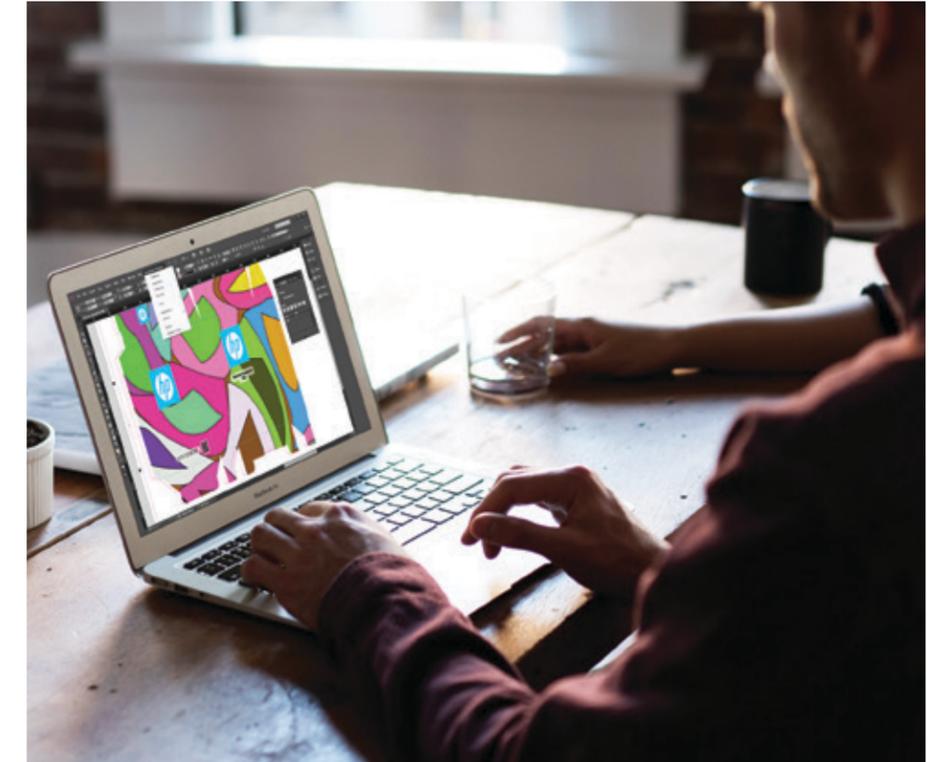
Benefits	Applications
<p>Get more out of your HP presses and printers</p> <ul style="list-style-type: none"> • Drive higher uptime and productivity • Make better-informed, faster decisions • Gain greater visibility and control, anytime, from anywhere • Improved services and support 	<ul style="list-style-type: none"> • Print Beat • Mobile Application • Media Locator • Insight • Service Center for PWP • Smart Uptime Kit
<p>Simplify and automate production</p> <ul style="list-style-type: none"> • Simplify and consolidate order capture from multiple sources, streamline communication with print buyers • Manage hundreds of jobs a day, handle production details efficiently • Reduce complexity to allow easier processing and delivery of orders in no time • Your choice of flexible production automation 	<ul style="list-style-type: none"> • Box • Site Flow • Composer • Imposer
<p>Innovate, collaborate, and grow</p> <ul style="list-style-type: none"> • On-demand subscription to a wide variety of value-add workflow apps and licenses • Leverage partner solutions and industry knowledge to innovate • Attract new customers and add new services, without the IT integration cost and hassle 	<ul style="list-style-type: none"> • PrintOS Marketplace • Partner Ecosystem • Open APIs

HP PrintOS Print Beat

For PageWide Web Presses

With PrintOS Print Beat you can make better, faster, data-driven decisions. Improve efficiency and “uptime – and ultimately performance” with a clear view of key indicator trends that are affecting performance. Use Print Beat with your HP PageWide Web Press to gain access to status updates virtually anytime, anywhere¹ – via web browser or mobile device.

¹ The HP PrintOS Mobile Application is compatible with Android 4.0 or later and iPhone mobile digital devices running iOS 8 or later, and requires the press and the smart phone to be connected to the Internet.



- Simple, straight forward performance tracking**
Overall performance is aggregated to a single 0-100 Print Beat score, so it is easy to understand your overall production performance and where opportunities for improvement exist.
- Multiple performance indicators**
Excellence in production comes from multiple areas. PrintOS Print Beat tracks performance across five key parameters: print volume, system health score, print volume per run, maintenance score and operating efficiency. These indicators not only show you how well your production did, but also on which areas to focus.
- Drives continuous improvement**
Improvement can easily be tracked by looking at the trend data in the Print Beat dashboards.
- Full transparency and shared goals**
Your HP service team gets visibility to your dashboard and reports, for full transparency and goal collaboration.



HP PrintOS Insight

For PageWide Web Presses

Business Intelligence for PrintOS Connected PageWide Web Presses

HP PrintOS Insight provides regularly updated analytics, reports and dashboards allowing print-shop managers to improve efficiency, reduce costs, and make smart business decisions.



PrintOS Insight Viewer

PrintOS Insight Viewer provides automated updates of detailed PageWide Web Press metrics including prebuilt dashboards for historical analysis. Standard reports plus those customized by advanced licenses allow print managers to improve efficiency, reduce cost, and make smart business decisions.



Core data reports for all PageWide Web Presses

Detailed production reports provide important details about consumables, printhead usage, and job processing



Out-of-the-box reports require no programming

Dashboards include key metrics & historical trends that help with intelligent decision making



Accessible Data

HP PrintOS cloud platform makes it easy to access from any user device, at any location, at any time



Customization when desired

User license options enable just viewing access or can allow creation of user-specific reports and Dashboards

PrintOS Insight Supervisor

PrintOS Insight Supervisor offers automated updates of PageWide Web Press metrics, with standard reports, and the ability to create custom dashboards. No programming skills are needed to improve your print operations using data that is most important to you, formatted to your style.



PrintOS Mobile

Enjoy absolute control over your print operations virtually anywhere, anytime, and on the go.

- Control – Monitor the press/printer job and order status.
- Visibility – Gain in-depth visibility into production site operations and improvement over time, based on key performance indicators and historical reports, for better decision-making and quicker action.
- Insights – Get Tailored tips to increase your availability and overall site productiveness.
- Service calls view – Get service calls information in real time.
- Gain knowledge – Access the latest technical information, and tips and tricks, for continuous learning and to inspire your team.
- Compete – See where you are ranked in comparison to other PSP's in your country, region or even worldwide.



Knowledge Zone

Access the latest technical information, and tips and tricks, for continuous learning.

- Easy access – Immediate, quick, and effective access to your choice of relevant content.
- Innovation – Learn and get inspired to improve your performance and increase your professional skills.
- Operational independence – Easy access to practical knowledge and training materials from anywhere.



PrintOS Box

Simplify file receipt from clients, content validation, file preparation, and file routing directly to production.

- Simple and intuitive – Ramp-up quickly with an out-of-the-box solution.
- Efficiency – Save Customer Sales Representatives time, with a unified and consistent experience that streamlines file handling.
- Cost effective – Gain a professional toolset at an affordable cost.
- Web interface – Improve your clients' experience with your own branded Easy Submit portal.
- EPM computability check – Save time and costs with immediate indication of your files' suitability for Enhanced Productivity Mode (EPM) printing, using EPM Preflight in PrintOS Box.



Site Flow

All-in-one solution combining automated order submission, pre-press, shop-floor management and shipping integration.

- Efficiency – Gain efficiency and speed at printing and finishing with batch management and a product plan for every job.
- Automation – Easily trace components throughout the production floor, with inserted barcodes.
- Control – Ensure jobs are prioritized based on customer SLAs, with control lists at each production step.
- Integrated shipping – Leverage add-ons available for all major carriers.
- Connect with brands – Join the largest global network of Print Service Providers and Converters and get connected to brands that use Site Flow to build their print network and manage high-volume personalized campaigns.



Composer

Save time by easily and efficiently composing sophisticated and large variable data jobs on the cloud.

- Efficiency – Save time with fast, cloud-based processing that frees up your computer resources and enables parallel creation and composition of multiple templates.
- No limits – Process variable files of any size, with any number of records, including Rich templates, HP SmartStream Mosaic, Spine and Edge printing, Locr maps, and MindFire Studio personalized URLs.
- Automation – Leverage the open API to integrate composition in an automated end-to-end prepress workflow.



Imposer

Make imposition automatic, fast and easy, with a cloud-based centralized imposition tool that the whole prepress team can access.

- Time saver – Speed through imposition. Final imposition templates can be created online or in HP SmartStream Designer and imported. Drag and drop any PDF file and quickly create a final imposed sheet or frame for download directly to production.
- Consistency – Boost standardization and workflow efficiency with centralized imposition for all printing devices.
- Easy-to-use – Enjoy a simple user interface with file preview and on-screen simulation.



PrintOS Marketplace

Access the PrintOS community platform to monetize ideas, share knowledge, and leverage opportunities for growth, innovation, and production efficiencies.

- Grow – Pursue opportunities to expand your applications, grow and differentiate your business, by leveraging integrated partner solutions.
- Simplify production – Boost your efficiency and capabilities with pre-integrated solutions automating various stages of your workflow.





HP Publishing Solutions

HP Piazza

Stand out with a full solution for the publishing market

Seamlessly connect to book publishers, and print incremental pages with greater efficiency, with HP Piazza. This revolutionary set of cloud-based services makes it easy for you to produce and deliver the books that publishers need, when they need them, no matter where those publishers are – down the street or on the other side of the world.

HP Piazza connects with HP PrintOS Site Flow, delivering powerful production efficiencies and full automation that let you eliminate costly overhead and infrastructure, and reduce manpower. You can stand out by offering new services and capabilities that support publishers' new business models.

Yes, printing books to order just got a lot simpler and more efficient, for you and for your publisher customers!

Increase your production efficiency

HP Piazza enables efficiencies across the entire production process, from the papers you print on, through delivery of the finished books.

- Standardize formats and papers.
- Save time and reduce errors with automated content delivery.
- Reduce costs with a touch-free, automated production workflow from order receipt through to integrated shipping.

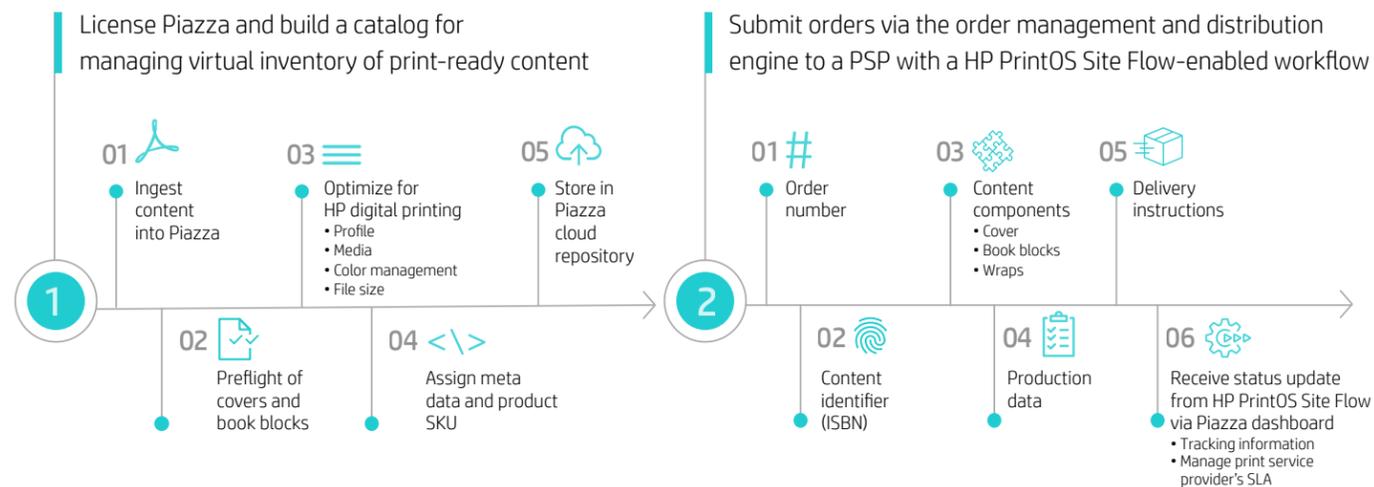
Boost your revenues

HP Piazza is built to support efficient, profitable high-volume printing, enabling you to do more with your HP digital presses.

- Connect with a wide world of publishers that use HP Piazza to build their print network and manage their print-to-order production.
- Gain a new source of revenues by digitally printing pages that traditionally would go to offset.
- Respond quickly to publishing trends and say YES to more jobs, with high productivity and agility powered by end-to-end automation.



HP PIAZZA



Put the power of the cloud to work for you

HP Piazza connects to the cloud-based HP PrintOS print production operating system, integrated directly with the PrintOS Site Flow app for a fully automated workflow. With Piazza and Site Flow, your entire workflow, from order receipt through to shipping of finished books, is optimized for maximum efficiency.

- Ingest jobs from publishers, complete with all content and production data.
- Batch and impose jobs by profile and trim sizes while maintaining quality standards.
- Prioritize production according to SLAs.
- Automatically manage and track individual items through print, finishing, and bindery workflows, and consolidate multi-item orders for dispatch.
- Provide your publishers with full visibility into production status and dispatch confirmation via their Piazza dashboard.

This is where publishing is going. Take your customers there, with HP Piazza.

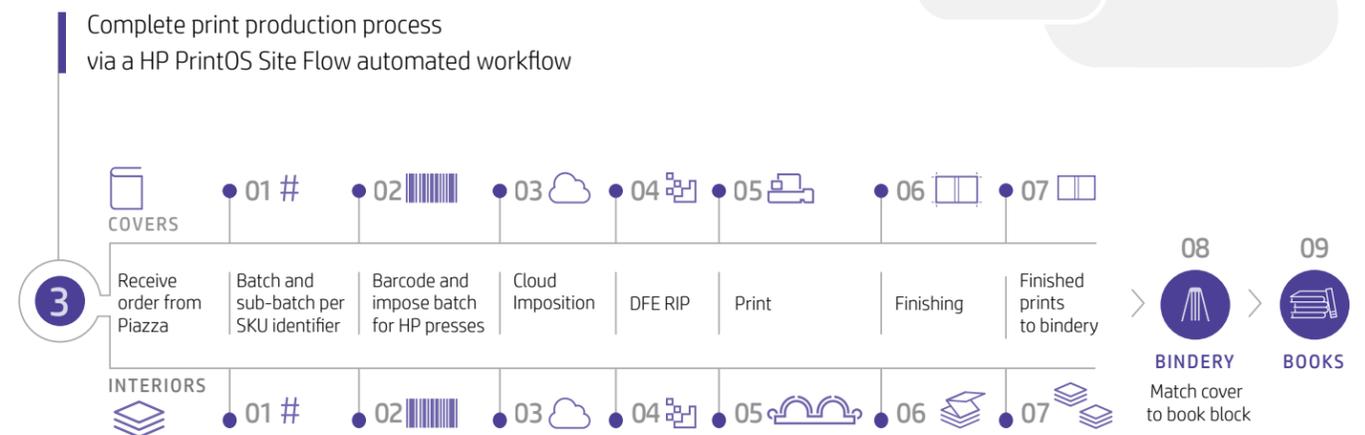
The days of 'one book fits all' publishing, with warehouses filled with unsold books that are ultimately scrapped, are on their way out. Market changes and technology advances are forcing publishers to transform their approach, to increase their agility and adopt new business models.

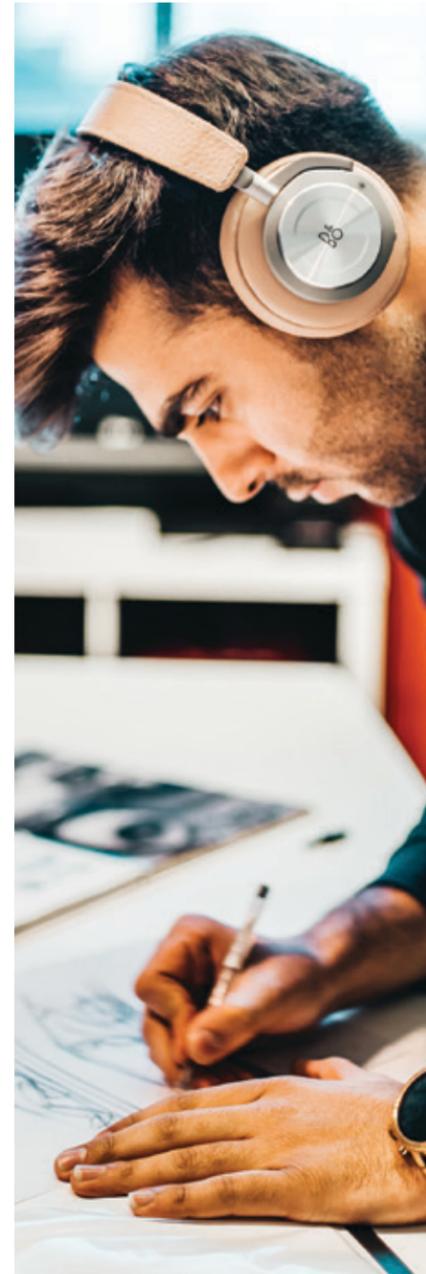
With HP Piazza and connected print service providers:

- Trade and education publishers can reduce their costs, bring inventory down to zero, and eliminate waste by printing only what has already been ordered.
- Education publishers can easily customize the titles they already own, to address highly segmented audiences and limit competition from the secondary market.



HP PRINTOS SITE FLOW FOR PUBLISHING





Productivity enhancements

HP PageWide Web Press drying systems

Expand your print capabilities and flexibility with dryer add-ons
 HP PageWide Web Presses use water-based HP pigment inks and thus the web must be dried before take-up on a rewind roller or processing through in-line finishing equipment. Part of drying the web is the process of evaporating the water from the printed areas to produce output that is dry to the touch, lays flat, and resists smearing and ink-transfer in the press and finishing equipment.

HP offers several optional dryers to increase printing capacity and flexibility, enabling you to run jobs at higher speeds and higher page coverage.

HP PageWide Dryer Expansion Options

HP T300 HD series Dryer Expansion Module	Module that is added above the existing standard dryer to enable faster speeds and heavier coverages.
HP T300 HD series Side Dryer	Maximize your productivity with maximum drying capacity. The HP Side Dryer supports printing speeds up to 800 fpm on high coverage, coated paper. This dryer system fits in the existing press layout, allowing you to add capability without moving the press.
HP T400 HD series 2 Zone to 3 Zone Dryer Option	The 3 Zone Dryer option provides additional drying capacity, enabling higher coverage jobs at faster speeds and increases drying performance on coated media. This dryer system fits in the existing press layout.
HP T400 HD series HL10+ Dryer Expansion	Dryer enhancement introduces an external heat source into a 3 zone PageWide Web Press T400 series providing additional drying capacity, enabling higher coverage jobs at faster speeds and increases drying performance on coated media. This dryer fits on presses with 3 zone dryer configurations and does not require changes to the press and finishing layout.
HP T200 HD series Dryer Expansion	This dryer module provides additional drying capacity, enabling higher coverage jobs at faster speeds and increases drying performance on coated media. This dryer fits on most press configurations and does not require changes to the press and finishing layout.

HP Quality Image Check (QUICK) Vision Press Option

Reduce ink and paper waste while improving quality
 Deliver cost savings while monitoring print quality. This press upgrade allows the vision system to monitor nozzle health and color registration by comparing the RIP's output to the press output as captured by the vision system cameras. The vision system will identify the "absence of ink" within text, graphics and images, providing a cost-effective way to determine print head health and color registration. With no need to use quality bars, you save paper between frames, reducing both media and ink costs. The operator is alerted to changes in nozzle health via a QUICK Vision dashboard in the press user interface. A new light tree alert also notifies operators, even when they're not near the press.

HP PageWide Web Press Remote Workstation

Add more flexibility, convenience and efficiency to your production operations. The HP Web Press Remote Workstation Accessory allows an operator on a production floor to access the press DFE interface (for job submission), the vision system, and the press GUI for an HP PageWide Web Press from the convenience of an operator station, saving time. The remote workstation can be placed anywhere in the production floor area, near the press, or finishing line, allowing the operator to interact with press operations, and to take many actions without having to be directly in front of the press.



HP T400 Pre-Printed Forms Upgrade

Increase your revenue and your press productivity by combining analog pre-print with digital print. The HP T400 Pre-Printed Forms Upgrade enables you to print jobs on media that already has information printed on it, whether the media has simple marks or complex backgrounds.

With the ability to print on pre-printed forms¹ you can add variable data printing to jobs that you already print on your analog equipment. Smoothly transition into digital printing, while adding more value for customers and earning more on your jobs.

HP T400 Motorized Thread-Up

Improve your productivity and reduce costs with the HP T400 Motorized Thread-Up. Web breaks are unavoidable and with the Motorized Thread-up option, you can recover from a web break faster and easier, saving time, cost and hassle – and simultaneously gain more production time. Using the Motorized Thread-Up, one operator can complete the task in less time than it takes two operators to thread the machine manually.

¹ This option does not support pin-feed forms

Walkover accessories

Save time in your press operations. HP Walkover accessories increase press operation efficiency by allowing operators to walk over the paper path instead of walking around the perimeter of the press to reach the other side.

HP T300 HD and T400 HD series High Walkover Accessory	The high profile walkover accessory comes standard with each winder and unwinder. Additional walkovers may be ordered based on press layout and finishing options.
HP T300 HD and T400 HD series Low Profile Walkover Accessory	The low profile walkover accessory comes standard with a Zero Speed Splicer. Additional high or low profile walkovers may be ordered based on press layout and finishing options.



HP SmartStream Finishing and Bindery Solutions

Validated finishing for wide-ranging applications

Expert technical support throughout the selection, installation and integration process

With expert technical evaluation provided by HP and our partners, you can choose your converting and finishing solutions with confidence. The HP Solutions Services team supports your application with in-line or near-line configurations that fit your production goals. HP oversees the end-to-end finishing integration process to help you achieve the best performance for profitable, flexible, high-volume production.

Wide choice of finishing solutions

Choose from a wide range of digital-ready, production-proven in-line and near-line finishing solutions from leading converting and finishing equipment manufacturers. HP validates partner equipment for performance and compatibility with PageWide Web Presses so that you can select solutions with confidence. Whether you focus on publishing, direct mail, commercial print applications, or a combination, the solutions available through HP SmartStream finishing partners support your varied finishing requirements with quality results. HP's SmartStream finishing partners provide solutions for folding, cutting, stacking, perforating, punching, flexible sheeting, book blocks, binding, moisturizing, coating, roll-to-roll, and more.

HP's SmartStream finishing and bindery partners streamline print production to meet your application requirements. HP and our best-in-class network of finishing and bindery partners work with you to deliver the productivity of offset and the flexibility of digital.





HP PageWide Multi-Roll Print (MRP)

Increase Productivity while Minimizing Waste

HP's T200 HD series multi-roll-print solution enables continuous printing during roll changes, improving press productivity by up to 20%, while adding flexibility and significantly reducing splice-related paper waste.

Prep while Printing
Operator preps the next roll while the press is printing

Automatic Splice
Splicer initiates the splice automatically based upon roll diameter

Detect Splice
Notifies Print Engine Controllers of splice detection

Splice Transits Press at Speed
Print bars "jump" to allow splice to pass through at speed

Printing Continues
Press resumes printing job (no reprints required)

- **Improved productivity** – up to 20% due to automated roll changes and continuous printing
- **Excellent print quality** surrounding the splice with full tension control (no tension spikes)
- **Continuous press operation** with splice on the fly – automated print-bar "jumping" to avoid printhead damage and unplanned downtime
- **No reprints required** during splicing – Suspend-Resume of live jobs using **Customer Defined Frames (CDFs)** allows the splice to move through the press without losing content
- **Minimal paper waste** associated with the splice – no need to stop the press, jog the splice through the press, ramp up to printing



Zero Speed Splicer

Increase production

Maintain high-speed production with a Zero Speed Splicer, designed specifically for HP PageWide Web Presses. The splicer and press work as one integrated system, maintaining web tension and print quality. Continually feed your HP PageWide Web Press at speeds up to 1,000 ft/min (305 m/min) while automatically splicing new rolls to enhance production and reduce materials waste.

Give productivity a boost

You're ultimately more productive with a digital printing system that reduces downtime and manual effort. With the Zero Speed Splicer, a new roll can be loaded and prepared while the press is in production, saving downtime versus standard unwinders. When using the Zero Speed Splicer with an HP PageWide Web Press enabled for multi-roll printing with splice detection, the splice can transit the press at speed, saving additional time per roll.

Cut down on your operating costs

With productivity gains enabled by the Zero Speed Splicer, you also achieve a lower overall cost per page. Presses enabled for splice detection will incur less paper waste because there is no reason to slow or stop the press for a roll change.

Automated Rewinder

Increase production

Increase your productivity and reduce manual intervention with Automated Rewinding. Continuous roll-to-roll automatic splicing rewind technology lets your HP PageWide Web Press operate without stopping to offload rolls, improving throughput while keeping pace with the fastest of the HP T-Series presses.

Boost productivity while maintaining flexibility

Automated Rewinding offers added flexibility to process print jobs with varying finishing needs through roll-to-roll printing. It automatically rewinds and prepares the roll for offloading—helping keep production moving and freeing up valuable operator time.

Reduce your operating costs

With the reduced interventions, and productivity gains enabled by the Automated Rewinder, you also achieve a lower overall cost per page. Presses enabled for splice detection will incur less paper waste because there is no reason to slow or stop the press to remove a rewind roll.





HP SmartStream Finishing Solutions Partners



Adphos provides solutions that reduce the time and space required for thermal processes, to dramatically improve efficiency and productivity for customers.



CMC offers a full line of paper wrapping and inserting equipment, all designed for high-volume, high-speed jobs.



Contiweb is a global leader in the development, production, sales and support of state-of-the-art web offset printing presses and web-fed auxiliaries for a wide range of commercial, packaging and label printing applications.



Eltex designs and manufactures high performance paper remoistening solutions to improve quality and production efficiency of digital print products.



EMT International offers versatile inline or near-line finishing solutions—including perforation, punching, sheeting and stacking—for a broad range of applications.



Epic Products International manufactures the WebCoat line of coating systems for production of high quality coated output inline with the press, utilizing either UV or aqueous coatings.



Harris & Bruno Harris & Bruno offers high speed duplex web coaters for AQ and UV with automated wash up, chamber/anolox technology, and quick-change sleeve system for both applicator and anilox.



HP SmartStream Finishing Solutions Partners



Horizon is a leading global provider of high-quality print finishing solutions, including perfect binders, booklet makers, and more, for traditional graphic arts and print-on-demand markets.



Hunkeler delivers advanced pre- and post-print solutions for high-performance digital printing systems for transactional/transpromo, print-on-demand, direct mailing, and publishing.



IBIS Bindery Systems supplies customized, digital book finishing systems that support personalized, variable page-count wire-stitched, cold glued, or perfect bound books and booklets.



KOLBUS offers high speed web converting machines for digital print production, including high-quality book blocks, flexible sheeting and mail solutions



Magnum Digital Solutions offers innovative inline or nearline finishing equipment for cost-effective print production, including high-quality book blocks, flexible sheeting and mail solutions.



Manroland web systems provides innovative, integrated solutions for digital and web offset printing, leveraging extensive offset finishing and workflow experience.



MBO Digital provides a broad range of finishing products to prepare output for mailings or book bindery, including stacking, folding, finishing, and stitching solutions.



Meccanotecnica designs and supplies bookbinding solutions for the production of high quality lay-flat sewn books either softcover or hardcover.



Muller Martini offers a full line of highly automated, industrial grade bindery solutions, including finishing equipment for book blocks, soft cover and hardcover books, and saddle stitching.



TecnaU designs and manufactures automated paper handling, processing and quality control systems for efficient digital print production, including cut, stack, perforation, and punching systems.



VITS International offers a full line of web finishing equipment for the book, direct mail and commercial markets, including folding, perforating, die cutting, cutting, sheeting, stacking and collating.



WEKO offers paper conditioning designed to optimize substrates for precise media performance and production efficiency.



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