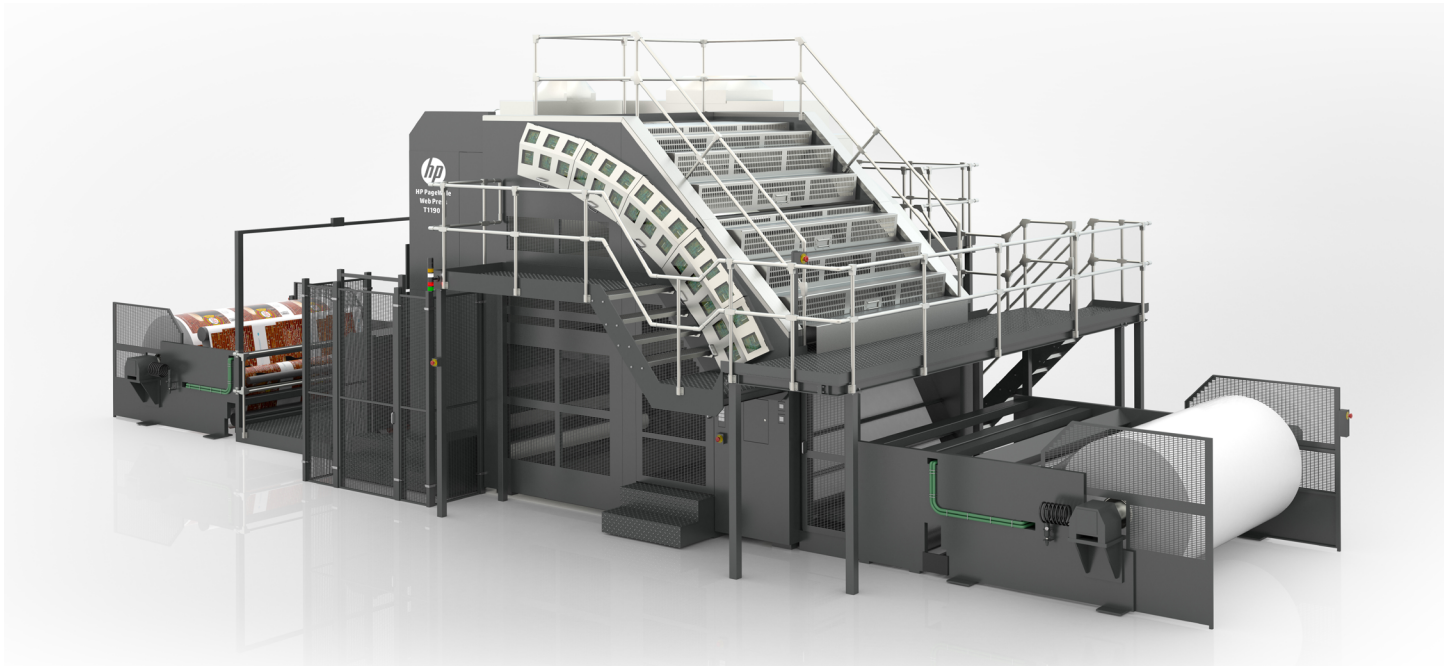


HP PageWide T1170 Press HP PageWide T1190 Press



The world's most productive digital packaging presses.
The standard for quality and performance in digital pre-print.



Six-color, single-pass, high-performance printing with HP Thermal Inkjet (TIJ) technology and water-based inks.

Thrive with digital pre-print: More productivity and more colors!

- Drive high-volume production with print speeds up to:
HP PageWide T1190: **51,206 m² (551 MSF) per hour** or 305 m (1000 ft) per minute.
HP PageWide T1170: **30,600 m² (330 MSF) per hour** or 183 m (600 ft) per minute.
- Utilize the full width of your corrugator with a 2.8 m (110 in) PageWide platform to feed multiple corrugators¹ and add larger board sizes to your portfolio.
- Transform production with HP Multi-lane Print Architecture (MLPA), enabling you to print variable box sizes down and across the web at the same time.¹

Print six-color offset-substitutable quality on a broad range of liners and papers



Coated white top liner



Uncoated white top liner



Brown kraft liner

- See outstanding **six-color print quality** — across coated or uncoated substrate grades and liners with HP A30 pigmented water-based inks.
- Produce digital versatility at **higher speeds** — HP PageWide printheads enable a native resolution of 1,200 nozzles per inch, maintaining print quality and text readability down to four-point type.
- Use HP Bonding and Priming Agents to print on a wide range of standard uncoated and coated corrugated liners, from 80 gsm to 350 gsm, to create the right “look and feel” for your customers. Also, reduce your costs with lower cost liners.
- Use HP’s optional post coater to apply OPV (Over Print Varnish) to enhance protection, gloss, and the surface properties of your liner.
- Benefit from HP’s patented Thermal Inkjet (TIJ) printhead technology with 8X redundancy for added reliability in high-volume production environments.



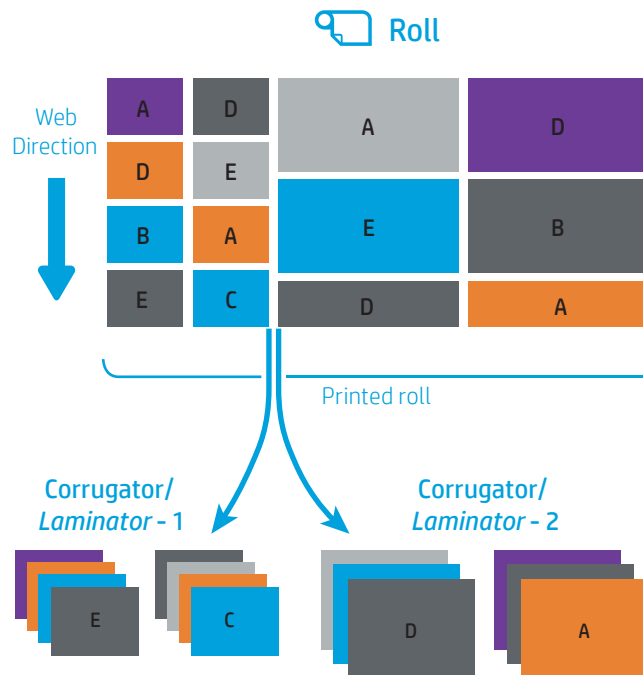
Optimize production with cost-effective short to long runs

- Produce runs of nearly any length—eliminate plate making, ink mixing, and make-ready between jobs.
- Print-on-demand enables lower finished goods inventory while reducing turnaround time.
- Lower substrate costs by printing directly on thinner, reduced grade or recycled liners.
- Enable value-added capabilities like seasonal and geographic versions and campaigns.

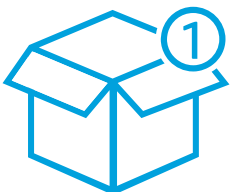
HP Multi-lane Print Architecture for even higher productivity

Analog print technology is limited to printing multiple copies of one box design—all boxes look the same and are the same size. The HP PageWide T1100 Series Presses, with Multi-Lane Print Architecture (MLPA), create an enormous paradigm shift in the production of corrugated board.

HP MLPA splits the web into multiple print lanes, so different jobs with different box sizes and run lengths can be printed in the individual lanes. Multiple ultra-short or short runs can be queued and printed together, with no make-ready between jobs, while a long run is printed in another lane. Print what is needed, when it is needed.



HP PrintOS



HP OnePackage Workflow Suite

Additional options to add value to your digital pre-print operations

HP PrintOS is a print production operating system with web and mobile apps that help you get more out of your HP presses and simplify production. PrintOS is an open, secure cloud-based platform. Leverage HP PrintOS applications to continuously improve your operations, inspire your staff, increase efficiency, make better-informed decisions, and increase profitability.

HP OnePackage Workflow Suite provides holistic corrugated workflow solutions to achieve streamlined production and maximize your digital potential. **HP OnePackage Elite** system software delivers automated smart press management to get the most value out of your HP PageWide Web Presses. Built on the HP PrintOS foundation, HP OnePackage solutions can be configured to integrate digital production with many existing operating environments. Through a family of products and partners, prepare digital jobs with best-in-class tools and expertise. Increase profitability with the help of HP's technology leadership and support.



Environmental highlights

HP A30 Water-Based Pigment Inks:

- Are designed specifically for pre-print corrugated packaging applications.
- Are designed by HP to meet worldwide regulatory requirements and to address a broad range of health and environmental considerations throughout the entire life cycle of a print from production to disposal.
- Have no Hazardous Air Pollutants (HAPs) intentionally added and therefore require no hazard warning labels.^A
- Are non-flammable and non-combustible; Require no special handling, storage, or transportation-related conditions.^B
- Have very low VOC emissions when compared to typical offset lithography emissions.^C
- Allow HP customers to produce odorless prints.
- HP PageWide Presses can reduce paper waste when compared to typical offset lithography processes.
- We encourage customers to utilize HP's recycling program, HP Planet Partners, which allows free, easy recycling of HP ink containers and printheads.^D

To learn more:

hp.com/ecosolutions or hp.com/recycle

^A Hazardous Air Pollutants (HAPs) may be present at extremely low levels (< 0.1%) according to EPA Method 311.

^B Not classified as flammable or combustible liquids under the US DOT or international transportation regulations. These materials have been tested per US Environmental Protection Agency Method 1020 and the flash point is greater than 110°C.

^C Actual results may vary depending on operating conditions. Consult local authorities regarding Volatile Organic Compound (VOC) regulations in your area. Less than 300 grams/liter by EPA method 24.

^D Visit hp.com/recycle to see how to participate and for HP Planet Partners program availability.

Deliver food safety and environmental compliance

HP A30 Pigment Inks and A50 Bonding Agent are positioned to comply with US and European regulatory and industry guidance for indirect-contact paper-based food packaging. HP has a range of third-party and internal lab migration study data that can be discussed with packaging converters or their customers. Specific compliance criteria and use case definitions should be discussed with HP.

High-tech solutions for your digital printing success

HP solutions expertise can help shorten your path to success and sharpen your competitive edge. HP's team will work with you to determine your end-to-end requirements, and to recommend optional fee-based solutions customized to meet the specific demands of your business. Additionally, HP offers a full line of optional services to help you effectively run your digital printing business—from site preparation to training and service programs.^{*1}

Enhance your productivity with HP Services

HP offers you the broadest portfolio of proven service programs to keep your business running productively. Our professional service teams are committed to meeting your end-to-end needs, driving your business productivity and sustainability for a profitable printing operation. Learn more at hp.com/go/webpressservice.^{*1}

HP's digital leadership—taking your business into the future

Transform your business today. HP's latest PageWide Web Press for the production of corrugated board includes revolutionary HP MLPA technology that radically streamlines production and changes the way you serve your customers. When you partner with HP—a leader in digital printing technology—you gain the support and backing of an industry powerhouse. Together, we create a distinct advantage for your business as you leverage HP's decades-long technology development, and significant R&D investment to drive continued innovation.

Streamline production and optimize operations.

Reduce turnaround time with high-volume production and job versatility.

Benefit from higher speeds and the ability to attract more brands with vivid colors.

HP's vertical integration of the whole system ensures quality and reliability since we design, develop, and thoroughly test all system components, including inks, printheads, software, and servers.

Technical Specifications

Throughput	T1170: Up to 183 m/min (600 ft/min) or 30,600 m ² /hour 330 thousand square feet (MSF/hour) ^{*2} Maximum production volumes: up to 140M m ² /year	T1190: Up to 305 m/min (1000 ft/min) or 51,206 m ² /hour 551 thousand square feet (MSF/hour) ^{*2} Maximum production volumes: up to 200M m ² /year
Substrates	Handling: Tight web continuous roll feed Paper width: 1125 mm to 2794 mm (44 to 110 in) Weight: 80 gsm to 350 gsm (16 lb to 72 lb), 16 pt Substrate types: Wide range of standard uncoated and coated liners with recycled and virgin fiber	
Printing	Print technology: HP Scalable Thermal InkJet Technology Native resolution: 1200 nozzles per inch Ink type: Water-Based HP pigment inks, Bonding Agent, and Priming Agents Ink colors: Cyan, Magenta, Yellow, Black, Orange, and Violet (CMYKOV) Printable width: up to 2774 mm (109.2 in) Printable frame length minimum: 203mm (8 in) Printable frame length maximum: variable up to 2.7m (108 in). Extended frames above 2.7m (108 in) with gapless printing	
Dimensions (W x L x H)	T1170 & T1190: 13 x 34.5 x 6.12 m (42.6 x 113 x 20 ft) ^{*3}	
Operating environment	Press operating temperature range: Optimal 15 to 30°C (59 – 86°F) Digital front-end operating temperature range: Refer to HP ProLiant Server QuickSpecs on hp.com/go/ProLiant or consult your HP Solutions professional Humidity: Optimal 40 to 60% RH; maximum 15 to 80% RH (non-condensing) ^{*4}	
Press operating requirements	Electrical voltage: 400V to 480V, 3 phase	
Consumables	Printheads: HP printheads (separate printheads for CMYKOV colors and Bonding Agent) Ink supply: HP 1000-liter totes and (200 liter for OV inks) pigment ink containers (separate containers for each color and Bonding Agent) Priming Agent: HP 200-liter containers and 1,000 liter totes Servicing: HP 10-pack Web Wipe Cassette	
Optional equipment	Configuration options available to address specific printing requirements <ul style="list-style-type: none"> • Autosplicer and turret rewinder • Semi-automatic winders (to automatically load and unload media) • Priming and coating solutions • Moisturizer • Web cleaner • Color management 	
Warranty	12-month limited warranty	

^{*1} Optional features that may require additional purchase.

^{*2} Press throughput can be influenced by a variety of factors including press speed, dryer and digital front end configuration, print speed, media selection, print application, and environmental factors. For further details, please ask your HP representative.

^{*3} Dimensions for a press installed with Autosplicer, Pre-Coater, Post-Coater, and Turret Rewinder. Length will vary depending on options selected.

^{*4} Optimal operating environment may vary by application.

Learn more at
hp.com/go/pagewidewebpressT1100S

