Data sheet

HP PageWide T400S Press

High-speed, simplex color inkjet web press for corrugated packaging

Expand your possibilities with high speed digital preprint top liner production

Experience the combined power of digital preprint and high-speed production inkjet. The HP PageWide Web Press Corrugated Packaging Solution, based on the HP PageWide T400S Press and HP Priming Agent Technology, brings cost savings, versatility, productivity and quality to corrugated packaging converters.

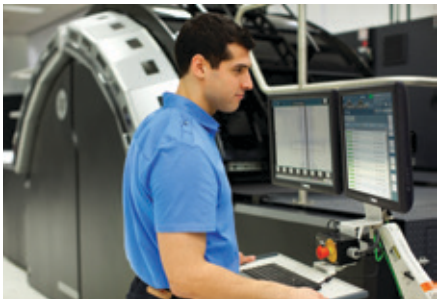
Improve efficiency and reduce costs

Produce cost effective short and medium runs. The HP PageWide Corrugated Packaging Solution is designed to be cost effective for runs to tens of thousands of boxes. Produce short-runs and partial rolls or optionally sheeted stacks, with no make-ready between print jobs. Eliminate plates and avoid ink and spot color mixing.

Drive profitable growth in corrugated packaging. Help new and existing customers achieve faster turn-around times and reduce finished goods inventory management. Take on more high-margin business with a digital printing system built to deliver quick turnaround.

Lower substrate costs. Reduce substrate costs by printing directly onto thinner, reduced grade or recycled liners while maintaining outstanding print quality. HP PageWide Web Press is a non-contact technology with a controlled print surface which enables optimal printhead-to-paper spacing during digital print.

Ramp up digital packaging and achieve economies of scale. Scale to high-volume corrugated packaging production and optimize your cost structures, while achieving high-quality results and improving in-process efficiencies and finished good inventory management.



Experience unprecedented productivity and versatility

Drive high-volume production. Print at speeds up to 183 m (600 ft) per minute or up to 11,640 m^2 (125,000 ft^2 or 125 MSF) per hour with an expected print capacity of up to 4 million m^2 per month.

Do more with greater versatility. The HP PageWide T400S Press offers a web width up to 1066 mm (42 in) and print width up to 1060 mm (41.7 in). Flexible imposition options support multi-up formats. Production of back-to-back jobs on one roll using cut marks and with variable frame lengths up to 2.7m (108 in) or larger with gapless printing.

Streamline operations with automated quality control. In-line print process controls include a vision system that checks printhead quality and maintains reliable performance at full press speeds. The closed-loop tension control system automatically adjusts the press to constant tension to maintain constant print alignment.

Produce offset-substitutable print quality

Experience reliable, high-quality printing with HP Scalable Thermal InkJet Printing Technology. HP printheads are based on proven HP Scalable Thermal Inkjet Printing Technology, featuring a native resolution of 1200 nozzles per inch. The printheads are designed to optimize press uptime as multiple nozzles address each pixel to minimize print defects and reduce waste.

Gain substrate versatility with HP Bonding Agent and HP Priming Agent. The HP PageWide Web Press Corrugated Packaging Solution supports a very broad range of standard uncoated and coated corrugated liners, ranging from 60 gsm to 350 gsm.

- **HP Bonding Agent** – For uncoated substrates. This colorless liquid is applied only at the precise locations where ink is to be printed. This unique technology improves optical density and reduces strikethrough, enabling outstanding print quality on a wide range of standard, uncoated offset media.
- **HP Priming Agent** – For coated and uncoated substrates. HP Priming Agent is applied as an aqueous flood coat prior to digital printing. With either in-line or near-line configurations, HP Priming Agent produces high-quality prints on premium offset media and standard uncoated and coated corrugated liner substrates, including thin and recycled liners.

Tailor efficient paper drying to your needs. Floatation infrared (IR) dryers use a combination of medium wavelength IR lamps and hot air convection to deliver effective drying. This proven technology optimizes web temperatures to enable stable web handling. To maintain print quality, settings can be adjusted according to the drying requirements of the print job.

High-touch, high-tech solutions customized for your printing success

HP Solutions expertise can help shorten your path to success and sharpen your competitive edge. HP's dedicated Solutions Team will work with you to determine your end-to-end requirements, and to recommend a solution customized to meet the specific demands of your business. Additionally, HP offers a full line of services to help you effectively run your digital printing business – from site preparation to training and service programs.

Reinvent your operations and business

PrintOS is an operating system for your business—an open, secure cloud-based platform that helps you get more out of your HP PageWide Web Presses and your print production operations. Leverage PrintOS applications to increase efficiency, make better-informed decisions, innovate, collaborate, drive growth—and increase profitability.

Eco highlight

- Reduce waste with on-demand inkjet printing.
- HP HP A30 Water-Based Inks - No hazard warning labels[1]; no HAPs intentionally added; non-flammable and non-combustible.[2]
- Very low VOC emissions.[3]
- Free and convenient printhead recycling.[4]
- Ink drums are material recyclable.

To learn more:
hp.com/ecosolutions
hp.com/recycle

HP A30 Water-Based Inks and HP P36 Water-Based Priming Agent have achieved UL Sustainable Product Certification (under UL 2801, referred to as CCD-040, an EcoLogo® standard, in Canada), which demonstrates that they meet a range of stringent criteria related to human health and environmental considerations. You can learn more about this certification at ul.com/environment

[1] Hazardous Air Pollutants (HAPs) may be present at extremely low levels (< 0.1%) according to EPA Method 311.
[2] Not classified as flammable or combustible liquids under the USDOT 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.
[3] Actual results may vary depending on operating conditions. Consult local authorities regarding Volatile Organic Compound (VOC) regulations in your area.
[4] Visit hp.com/recycle to see how to participate and for HP Planet Partners program availability.

* Refers to HP A30 Water-Based Inks (and HP P36 Water-Based Priming Agent and HP A50 Water-Based Bonding Agent). HP Statement of Composition, 3rd party (Intertek) World-Wide Statement of Regulatory Listing and 3rd party (Swiss Quality Testing Services) General Statement of Migration and Organoleptic Assessment based on Representative Use Cases which include E-Flute packaging printed on external side. US terminology 'packaging materials in direct contact with food' analogous to 'primary packaging'. Contact HP for additional information.

Expand your digital printing capability

Print a broad range of corrugated products. Print a range of products including basic flexo boxes, high-quality flexo replacement, offset laminate/label replacement, merchandising displays, long format jobs, and shelf-ready packaging.

Add high-speed customization capability. The scalable, high-performance digital front end – along with a robust data pipeline, powered by the HP SmartStream Production Elite Print Server – enables full-color, 100% variable printing at full press speeds. Make every package different, or run multiple jobs and versions back-to-back, all on a single roll and feed it directly into a narrow corrugator or high speed laminator for optimal efficiency or optionally sheet from rolls.

Support future variable data needs. Robust variable data processing capabilities facilitate embedded security coding, bar codes, augmented reality features, or other variable data. With 100% variable content printing and unprecedented color productivity, you can scale future mass production of high-quality, customized campaigns to new levels.

Configuration with options tailored for the corrugated packaging market

- HP PageWide T400S Press.
- Unwind and rewind stands handle 1.5 m (60 in) diameter rolls of standard corrugated media with 100 mm (4 in) cores and 300 mm (12 in) core adaptor option.
- Gapless printing enables stitching together of multiple frames to cost effectively print XL format boxes like TV boxes and pallet wraps.
- HP's own 1200 nozzle-per-inch redundant inkjet head technology for reliable performance in demanding high-speed production environments.
- Four-color HP A30 Water-Based CMYK Inks, providing outstanding print quality.
- HP Bonding Agent and Priming Agent solutions which let you print cost effectively on standard coated and uncoated substrates with high color saturation, dark black optical density, and crisp text.
- In-line and near-line coating solutions for HP Priming Agent and aqueous overprint varnishing.
- Roll-to-roll and roll-to-sheet solution configuration options.

Deliver food safety for a wide range of packaging applications on coated or uncoated paper

HP true water-based Inks are 100% free of UV-reactive chemistries. Thus, these inks enable robust and trusted food-safe printing for both primary and secondary corrugated packaging, requiring no additional barriers.*.

Enhance your productivity with HP Services

HP Services offers. HP Services offers you the broadest portfolio of proven service programs to keep your business running productively. Our certified 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

Technical Specifications

Throughput	Up to 183 m/min (600 ft/min) or 11,640 m²/hour (125 thousand square feet or MSF/hour)
Substrates	Handling: Tight web continuous roll feed Paper width: 406 mm to 1066 mm (16 to 42 in) Weight: 60 gsm to 350 gsm (12.5 lb to 71.5 lb), ~16.5pt Substrate types: Wide range of standard uncoated and coated substrates
Printing	Print technology: HP Scalable Thermal InkJet Technology Native resolution: 1200 nozzles per inch Ink type: HP A30 Water-Based Inks, HP P36 Priming Agent and HP A50 Water-Based Bonding agent Ink colors: Cyan, Magenta, Yellow, Black (CMYK) Printable width: up to 1060 mm (41.7 in) Printable frame length minimum: 203 mm (8 in) Printable frame length maximum: variable up to 2.7m (108 in). Extended frames above 2.7m (108 in) with gapless printing Productivity: up to 11,640 m²/hour (125 MSF/hour),at 183 m (600 ft)/min
Dimensions (W x L x H)	4.4 x 17.3 x 3 m (174 x 687 x 117 in)[1]
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)[2]
Press operating requirements	Electrical voltage: 400V to 480V, 3 phase
Consumables	Printheads: HP printheads (separate printheads for CMYK colors and Bonding Agent) Ink supply: HP 200-liter pigment ink containers (separate containers for each color and Bonding Agent) Priming Agent: HP 200-liter containers Servicing: HP 10-pack Web Wipe Cassette
Optional equipment	Configuration options available to address specific printing requirements • Autosplicer and turret rewinder • Color management • Primer and coater solutions • Remote work station accessory • Moisturizer
Warranty	Six-month limited warranty

[1] Dimensions for standard configuration with optional unwinder and rewinder
[2] Optimal operating environment may vary by application.

Additional information can be found on the HP Graphic Arts YouTube channel and on Twitter.

Learn more at
hp.com/go/pagewidewebpressT400S

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hp.com/go/getupdated

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