

# HP T400 Color Inkjet Web Press family

Create new business opportunities with a whole new class of digital production



Equip your production environment with a digital printing solution that delivers unprecedented versatility and productivity, enabling offset-class capability. Scale your mass production of high-quality, customized campaigns to whole new levels with 100% variable content printing at more than 5,000 full-color pages—and nearly 7,000 mono pages per minute<sup>1</sup>

## Experience unprecedented versatility & productivity

**Do more with increased flexibility, greater versatility.** The HP T400 Color Inkjet Web Press family offers a web width up to 42 inches (1066,8 millimeters) and print width up to 41.75 inches (1060,4 millimeters). Flexible imposition options support common formats including 16-page letter-sized signatures for book publishing. For direct mail and transactional printing:

- Produce 4-up letter-sized pages
- Further streamline workflows by printing two 20-inch jobs in parallel and slit at rewind for finishing on existing 20-inch off-line equipment
- Create new opportunities with the optional HP Magnetic Ink Character Recognition (MICR) solution<sup>2</sup>

**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.

**Drive high-volume production with a robust duty cycle.** The HP T400 Color Inkjet Web Press family builds on the innovations of the HP

T300 Color Inkjet Web Press family with an integrated and robust industrial design. Print up to 400 feet (122 meters) per minute with a capacity of up to 100 million letter-sized, four-color images per month; print up to 600 feet (183 meters) per minute with a capacity of up to 140 million images four-color images per month; print up to 800 feet (244 meters) per minute with a capacity of up to 175 million mono images per month.<sup>1</sup> This high-performance capacity is accompanied by the combination of in-line, real-time print process monitoring that maintains reliable performance and fast print speeds.

## Increase total printing time with optional quick roll changeover.

Convert manual roll splicing to an automatic process with the Zero-Speed Splicer. A fresh paper roll can be queued and the splice set up while the current roll feeds the press. Ideal for in-line finishing, the Zero-Speed Splicer reduces the time to load and splice rolls to the unwind unit.

**Streamline operations with automated quality control.** In-line process controls include a duplex vision system that checks printhead quality, monitors front-to-back side print registration, and enables real-time adjustments. The closed-loop tension control system automatically adjusts the press to constant tension in order to maintain constant print alignment.

To learn more, visit [www.hp.com/go/inkjetwebpress](http://www.hp.com/go/inkjetwebpress)

<sup>1</sup> US letter-sized equivalent images.

<sup>2</sup> Available in the U.S. and other regions. Consult your HP Inkjet High-speed Solutions account manager for availability in your region. MICR print speed is enabled up to 400 feet (122 meters) per minute.

# HP T400 Color Inkjet Web Press family

The 42-inch (1066,8-millimeter) HP T400 Color Inkjet Web Press family offers high-speed productivity, outstanding quality, and compelling economics. A wide range of page layout and imposition options, high-speed print customization, and high volume, long-run efficiencies help you create the potential for new business and profitable growth. The family of web presses includes three versions with productivity options designed to fit your needs—400 feet (122 meters), 600 feet (183 meters) per-minute color print speeds, or 800 feet (244 meters) mono per-minute print speeds.



## Achieve offset-substitutable print quality

**Experience reliable, high-quality printing with HP Scalable Printing Technology.** HP printheads are based on proven HP Scalable Printing Technology (SPT)—including a compact nozzle design with a native resolution of 1200 nozzles per inch—that delivers high quality at every print speed with sharp text, images, graphics, and uniform area fills. SPT is designed to optimize press uptime—multiple nozzles address each pixel to minimize print defects and reduce waste.

**Tailor efficient paper drying capability to your needs.** Float infrared (IR) dryers use a combination of medium wavelength IR lamps and hot air convection to deliver effective drying capability. 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. Designed for scalability, configuration options are available for one, two, or three dryer zones per print engine to match dryer capacity to your printing application requirements.

**Enjoy a wide range of offset media compatibility with HP Bonding Agent.** The HP T400 Color Inkjet Web Press family supports a wide range of standard uncoated offset stock and groundwood. This is achieved with HP Bonding Agent, a colorless liquid 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. Supported media weights range from 40 up to 350 gsm.<sup>13</sup>

**Further improve print quality with high-quality media options.** To maximize system performance, HP enables high-quality media options designed for HP pigment inks and the HP T400 Color Inkjet Web Press family. Achieve the highest print quality with ColorPRO papers—from uncoated to high-speed coated papers—co-developed with industry-leading media partners (see [www.hp.com/go/mediasolutions](http://www.hp.com/go/mediasolutions)).

<sup>13</sup> Basic configuration supports 40 to 200 gsm; optional configuration available for up to 350 gsm.

## The HP T400 Color Inkjet Web Press family

The 42-inch HP T400 Color Inkjet Web Press family provides unprecedented versatility and productivity along with features that automate and streamline your workflow. Tailor the system to your needs—choose from two print speeds and configure drying capacity to match your printing application requirements. For a solution that meets your current needs with room for future growth, look to the HP T400 Color Inkjet Web Press family—your investment is protected with the option to purchase an upgrade and field installation to the full capabilities of the HP T410 Color Inkjet Web Press.

## 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.



	HP T400 Color Inkjet Web Press	HP T410 Color Inkjet Web Press
Speed	400 ft (122m) per minute full color 600 ft (122m) per minute mono	600 ft (122m) per minute full color 800 ft (122m) per minute mono
Duty cycle	100 million lettersized images per month full color 140 million lettersized images per month mono	140 million images per month full color 175 million images per month mono
Scalable web width	Up to 42 inches (1066,8 mm)	Up to 42 inches (1066,8 mm)
Print width	Up to 29.1 inches (739 millimeters)	Up to 29.1 inches (739 millimeters)
Print technology	HP Thermal Inkjet	HP Thermal Inkjet
Native resolution	1200 nozzles per inch	1200 nozzles per inch
Dryer	Float infrared (IR), scalable up to three dryer zones per print engine	
Media range	40 to 350 gsm <sup>15</sup>	40 to 350 gsm <sup>15</sup>

## A sound economic investment

**Drive profitable growth in direct mail.** Help new and existing customers achieve higher response rates with customized direct mail by taking advantage of the HP T400 Color Inkjet Web Press family's robust variable data processing capabilities. Eliminate inventory costs, spoilage, and waste associated with pre-printed shells—along with the cost of additional equipment required for a multi-step printing process. With 100% variable content printing and unprecedented color productivity, you can scale your mass production of high-quality, customized campaigns to new levels.

**Ramp up book production and achieve economies of scale.** Scale to high-volume book production and optimize your cost structures. Achieve high-quality results using standard, low-cost uncoated media, while eliminating collation and work-in-process inventory. Take on more high-margin business with a digital printing system built to deliver quick turnaround.

**Pay only for the ink you use.** No click charges offers the flexibility to add high-impact color—from highlight to full—to improve communication effectiveness while managing costs.

**Maintain low overall operating costs.** The entire printing system is designed to provide cost-effective, low-maintenance performance. Reliable HP pigment inks and printheads are designed together with the press to maximize performance and control maintenance expenses. Each long-life HP Thermal Inkjet printhead can be replaced by the user easily, without a service call.

<sup>14</sup> US lettersized equivalent images.

<sup>15</sup> Basic configuration supports 40 to 200 gsm; optional configuration available for up to 350 gsm.

## Technical Specifications

<b>Throughput</b>	Three versions available: up to 400 ft/min (122 m/min); up to 600 ft/min (183 m/min); or mono up to 800 ft/min (244 m/min)
<b>Media</b>	<p>Handling: Tight web continuous roll feed</p> <p>Paper width: 16 to 42 inches (406 to 1,067 mm)</p> <p>Weight: 40 to 350 gsm,<sup>6</sup> 27-lb text to 130-lb cover</p> <p>Media types: Wide range of standard uncoated offset media and inkjet-optimized coated media</p> <p>ColorPRO media: For information on papers with ColorPRO Technology, see <a href="http://www.hp.com/go/mediasolutions">www.hp.com/go/mediasolutions</a></p>
<b>Printing</b>	<p>Print technology: HP Thermal Inkjet</p> <p>Native resolution: 1200 nozzles per inch</p> <p>Ink type: Water-based HP pigment inks and Bonding Agent</p> <p>Ink colors: CMYK</p> <p>Printable width: 16 to 41.75 inches (406 to 1,060 mm)</p> <p>Printable frame length: from 11 to 72 inches (27,94 to 182,88 cm)</p> <p>Duty cycle: 100 million letter-sized four-color images per month at 400 feet (122 meters) per minute; 140 million mono letter-sized four-color images per month at 600 feet (183 meters) per minute; 175 million letter-sized four-color images per month at 800 feet (244 meters) per-minute<sup>7</sup></p>
<b>Input file formats</b>	PDF 1.7, PDF/X-1a, PDF/X-3, PDF/X-4, PDF/X-4p, PDF/X-5g, PDF/X-5pg, PDF/VT-1, PDF/VT-2, PDF/VT-2s; AFP/IPDS <sup>8</sup>
<b>Digital front-end</b>	<p>HP SmartStream Production Elite Print Server for the HP T400 Color Inkjet Web Press</p> <p>Operating systems: Microsoft Windows 2003 Server R2 64 Bit</p> <p>Hardware: HP ProLiant DL360/380, BL 460 Servers; Up to 60 terabytes of storage per RIP system<sup>9</sup></p> <p>RIP: Global Graphics Harlequin 8.2</p> <p>JDF version: 1.3 compliant</p> <p>Color &amp; quality: ICC version 4.0, device link profiles, CMYK, advanced half-toning</p> <p>Speed: Scalable to run at press rated speeds</p>
<b>Dimensions (W x L x H)</b>	174 x 822 x 117 in (4,4 x 20,9 x 3 m) <sup>10</sup>
<b>Operating environment</b>	<p>Press operating temperature range: Optimal 59 to 86° F (15 to 30° C)</p> <p>Digital frontend operating temperature range: Refer to HP ProLiant Server QuickSpecs on <a href="http://www.hp.com/go/proliant">www.hp.com/go/proliant</a> or consult your HP Solutions professional</p> <p>Humidity: Optimal 40 to 60% RH; maximum 15 to 80% RH (non-condensing)<sup>11</sup></p>
<b>Press operating requirements</b>	Electrical voltage: 400V to 480V, 3 phase
<b>Consumables</b>	<p>Printheads: HP printheads (separate printheads for CMYK colors and Bonding Agent)</p> <p>Ink supply: HP 200-liter pigment ink containers (separate containers for each color and Bonding Agent)</p> <p>Servicing: HP 10-pack Web Wipe Cassette</p>
<b>Optional equipment/configurationsw</b>	<p>Configuration options available to address specific printing requirements</p> <p>MICR option:<sup>12</sup> HP MICR printhead; HP 3-liter MICR ink</p> <p>Dryer capacity</p> <p>Unwind and rewind units</p> <p>Zero-Speed Splicer</p> <p>Paper handling options</p>
<b>Warranty</b>	Six-month limited warranty

<sup>6</sup> Basic configuration supports 40 to 200 gsm; optional configuration available for up to 350 gsm.

<sup>7</sup> US letter-sized equivalent images.

<sup>8</sup> AFP supported via partner solution offerings.

<sup>9</sup> Configurations vary based on specific customer solution requirements.

<sup>10</sup> Dimensions above are for configuration with expanded dryer; without optional rewinder attached. The following are dimensions with optional rewinder and optional additional access walkover: 124 x 859 x 119 in (3,15 x 21,82 x 3 m). Dimensions vary by configuration and options selected.

<sup>11</sup> Optimal operating environment may vary by application.

<sup>12</sup> Available in the U.S. and other regions. Consult your HP Inkjet High-speed Solutions account manager for availability in your region. MICR print speed is enabled up to 400 feet (122 meters) per minute.



### ECO HIGHLIGHT

HP T400 Color  
Inkjet Web Press

- Reduce waste with digital on-demand printing
- Water-based HP inks—no hazard warning labels; no HAPs intentionally added;<sup>1</sup> non-flammable and non-combustible<sup>2</sup>
- Very low VOC emissions<sup>3</sup>
- Free and convenient printhead recycling;<sup>4</sup> ink drums are material recyclable

<sup>1</sup> Hazardous Air Pollutants (HAPs) may be present at extremely low levels (< 0.1%) according to EPA Method 311.

<sup>2</sup> 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.

<sup>3</sup> Actual results may vary depending on operating conditions. Consult local authorities regarding Volatile Organic Compound (VOC) regulations in your area.

<sup>4</sup> Visit [www.hp.com/recycle](http://www.hp.com/recycle) to see how to participate and for HP Planet Partners program availability.

[www.hp.com/ecosolutions](http://www.hp.com/ecosolutions)

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