



HP 841 PageWide XL Printhead

# The HP PageWide XL printer portfolio

Past. Present. PageWide.

## ACCELERATE Radically faster delivery

- Print up to 30 D/A1 pages/minute in monochrome and color—the fastest print speed in the market<sup>1</sup>
- Deliver mixed monochrome and color sets in 50% of the time with a consolidated workflow<sup>2</sup>
- Start printing in 50% of the time with an ultra-fast processor, native PDF management, and HP SmartStream software

## GROW Fast color, excellent document quality

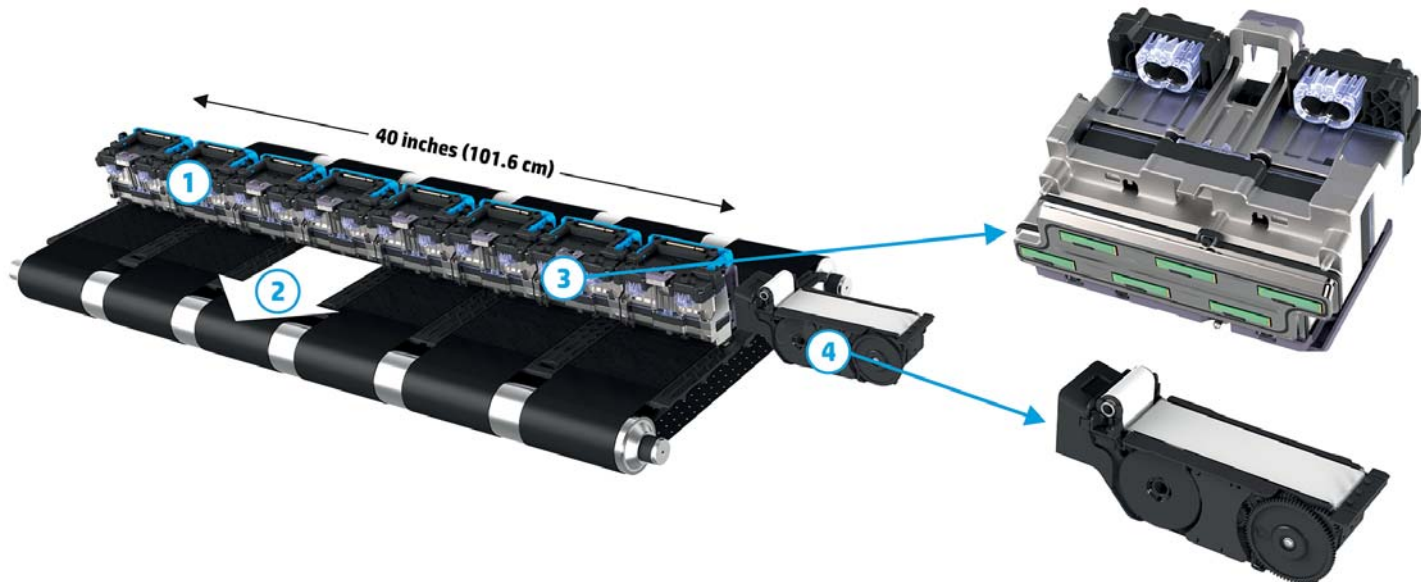
- Generate new business growth—print GIS map and point-of-sale (POS) poster applications at breakthrough speeds
- Set a new technical document quality standard—HP PageWide Technology prints crisp lines, fine detail, and smooth grayscales that beat LED<sup>3</sup>
- Construction-site ready with HP PageWide XL pigment ink for dark blacks, vivid colors—even on uncoated bond—in moisture-, fade-resistant prints<sup>4</sup>
- Print on a wide range of media up to 40 inches/101.6 cm—covering ISO/US technical and offset standards<sup>5</sup>

## SAVE<sup>6</sup> HP PageWide reliability at low cost of operation

- Low cost of operation in both monochrome and color with long-life printheads and high ink efficiency
- Eliminate manual steps and simplify your workflow with a consolidated monochrome and color solution
- Rely on proven HP PageWide Technology for dependable, high-speed printing in today's most demanding printing environments<sup>7</sup>
- Help reduce downtime—innovative cloud-based support provides self-monitoring, proactive alerts, and automatic maintenance

Based on proven HP PageWide Technology—currently powering HP Inkjet Web Presses producing 4 billion impressions annually—HP PageWide XL printers offer breakthrough printing speeds in monochrome and color.

## HP PageWide Technology



HP PageWide XL printers include a stationary 40-inch (101.6-cm) printbar **(1)** that spans the whole printing width. The entire page is printed in one pass **(2)**, enabling very high printing speeds.

The Printbar is built from 8 identical HP 841 PageWide XL Printhead modules **(3)** with the following characteristics:

- 5.08 inches (129 mm) per module
- 4 colors (cyan, magenta, yellow, black)
- 1200 nozzles per inch and per color

HP 841 PageWide XL Printheads provide reliable and long-life operation, with an average life per printhead of 32 liters. Print quality and consistency is provided by a closed-loop system contained in the service station **(4)**.

The service station includes sensors that detect nozzle status and a densitometer used for color calibration and printhead alignment. All necessary corrections and cleanings are performed automatically.

To help maximize productivity, HP 841 PageWide XL Printheads and HP PageWide XL pigment ink are specially designed to enable extended time between service station cycles of up to hundreds of pages.

## HP PageWide XL pigment ink for HP PageWide XL printers

HP PageWide XL pigment ink is specially designed to provide reliable and dependable operation with HP PageWide XL printers and to produce high-quality output:

- Dark blacks and vivid colors, including when using uncoated bond papers
- Moisture- and fade-resistant prints<sup>4</sup>

Boost your productivity. Streamline your workflow. Raise the quality of your technical documents and grow by printing GIS map and point-of-sale (POS) poster applications at breakthrough speeds.

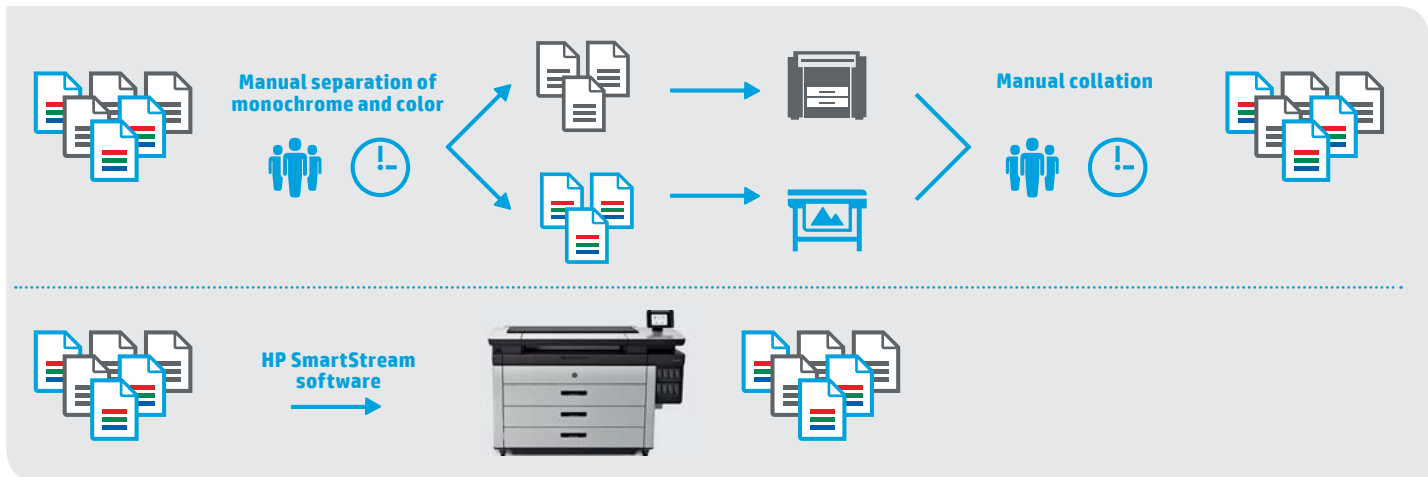
### End-to-end productivity



1. Using HP SmartStream Preflight Manager, jobs can be prepared in 50% of the time<sup>8</sup>
2. With an ultra-fast processor and the embedded Adobe PDF Print Engine 3,<sup>9</sup> HP PageWide XL printers are designed to quickly process even the most complex jobs
3. Printing up to 30 D/A1 pages/minute with outstanding sustained capacity thanks to:
  - Breakthrough print engine speed of up to 23 meters/minute (75 feet/minute)
  - Very short time between pages (up to 0.15 seconds)
  - Extended time between service station cycles (up to hundreds pages)
  - Quick switches between loaded rolls (under 5 seconds)
4. Bidirectional communication between the HP PageWide XL printer and the high-capacity stacker/online folder<sup>10</sup> provides reliable operation

### Save time and reduce complexity by consolidating your monochrome and color workflows

Now you can deliver mixed sets in 50% of the time.<sup>2</sup> Produce combined monochrome and color sets on a single HP PageWide XL printer and reduce manual steps associated with separating files and collating the output.



### Set a new quality standard for technical documents

HP 841 PageWide XL Printheads, working with HP PageWide XL pigment ink, are designed to produce durable and high-quality output with dark blacks and vivid colors.

Accurate and reliable dot placement results in crisp lines, fine detail, and smooth grayscales. HP PageWide XL printers do not apply heat to the paper as part of the printing process, enabling very high levels of length accuracy ( $\pm 0.1\%$ ).

## The HP PageWide XL printer portfolio



**HP PageWide XL 8000 Printer series**  
The fastest large-format printer ever, monochrome and color<sup>1</sup>



**HP PageWide XL 5000 Printer series**  
Powerful, efficient monochrome and color production



**HP PageWide XL 4500/4000 Printer series**  
Do the work of two printers with one—faster<sup>11</sup>

	HP PageWide XL 8000 Printer	HP PageWide XL 5000 MFP	HP PageWide XL 5000 Printer	HP PageWide XL 4500 MFP	HP PageWide XL 4500 Printer	HP PageWide XL 4000 MFP	HP PageWide XL 4000 Printer
<b>Product number</b>	CZ309A	CZ311A	CZ310A	CZ312A	CZ313A	M0V02A	M0V01A
<b>Print speed (D/A1 pages/min)</b>	Up to 30	Up to 14		Up to 12		Up to 8	
<b>Ink cartridges</b>	775 ml Cyan, magenta, yellow, black Dual HP ink supplies with auto-switch	400 ml Cyan, magenta, yellow, black Dual HP ink supplies with auto-switch		400 ml Cyan, magenta, yellow, black			
<b>Maximum number of rolls</b>	Up to 6	Up to 4		Up to 4			
<b>Integrated scanner</b>	-	✓	-	✓	-	✓	-
<b>Paper output (standard)</b>	-	-		Top-delivery stacker			
<b>Paper output (optional)<sup>10</sup></b>	Folder or high-capacity stacker	Folder or high-capacity stacker, top-delivery stacker		-			

Easily integrate HP SmartStream software, HP Designjet HD Pro and HP Designjet SD Pro Scanners into your production workflow.

Enjoy best-in-class support services, as well as best-in-class printing reliability and performance. Work with peace of mind, knowing HP works with HP PageWide XL Channel Partners to enable them to be trained, certified, and equipped to meet your needs. HP also monitors customer satisfaction to help ensure support quality. Benefit from innovative support features such as printer self-monitoring, predefined resolution paths as technical issues occur, and intuitive maintenance schedules and wizards that can help you avoid unexpected downtime.

<sup>1</sup> Printing at up to 30 D/A1 pages/minute, the HP PageWide XL 8000 Printer is faster than alternatives for large-format printing of technical documents, GIS maps, and point-of-sale (POS) posters under \$200,000 USD as of March, 2015 including 36-inch wide LED printers (printing up to 22 D/A1 pages/minute) and wide-format printers based on Memjet technology (printing up to 800 D/A1 pages/hour). Based on internal HP testing of the HP PageWide XL 8000 Printer in line drawing print mode on uncoated bond paper printing in D/A1 landscape.

<sup>2</sup> Using HP SmartStream software, job preparation and processing can be completed in 50% of the time. Conclusion based on an HP internal test measuring the time required to extract pages from a 50-page document and print them using several printers compared with using equivalent software programs. Also, using a single printer for monochrome and color printing can enable manual collation of mixed sets in 50% of the time as validated by an internal HP test measuring the total time needed to prepare, print, and manually collate a 100-page document with 10 color pages.

<sup>3</sup> Based on HP internal testing with internal users and external customers, evaluating overall print quality and specific print attributes (gray neutrality, fill area uniformity, line quality, and text quality) for output produced with HP PageWide XL printers and LED printers from different manufacturers and that represent greater than 50% of the annual shipments of LED printers in North America as of 2014 according to IDC.

<sup>4</sup> Based on HP internal testing. Evaluation of prints produced with HP PageWide XL printers and HP PageWide XL pigment ink shows equivalent or better results compared to prints produced with HP 970/971/980 inks that are fade and moisture resistant per ISO 11798 Permanence and Durability Methods certification.

<sup>5</sup> ISO/US technical and offset standards include American ANSI and Architectural page size standards, ISO A technical document standard, and ISO B offset page size standard.

<sup>6</sup> Operational costs for the HP PageWide XL 8000 Printer are comparable to or lower than operational costs for printers based on LED technology under \$100,000 USD for large-format printing of technical documents as of March, 2015 including 36-inch wide LED printers (printing up to 22 D/A1 pages/minute). Low operational costs in both monochrome and color driven by long-life printheads and high ink efficiency, as well as low maintenance requirements. For all HP PageWide XL printers, a single monochrome and color device enables workflow simplification that saves time compared to separate monochrome LED and color devices.

<sup>7</sup> Proven HP PageWide Technology powers HP Inkjet Web Presses—currently producing 4 billion impressions annually—and HP X series business printers.

<sup>8</sup> Using HP SmartStream software, job preparation and processing can be completed in 50% of the time. Conclusion based on an HP internal test measuring the time required to extract pages from a 50-page document and print them using several printers compared with using equivalent software programs.

<sup>9</sup> Adobe PDF Print Engine 3 is the next-generation rendering platform, optimized for end-to-end PDF workflows. Adobe PDF Print Engine 3 combines performance optimizations with a new scalability framework to power high-speed digital presses, large-format printers, and CTP platemakers. Adobe PDF Print Engine 3 is the fastest rendering platform for reliable reproduction of complex, graphically rich content. To learn more, visit [adobe.com/products/pdf/printengine](http://adobe.com/products/pdf/printengine).

<sup>10</sup> The production stacker and online folder are optional accessories.

<sup>11</sup> Printing up to 8-12 D/A1 pages/minute, HP PageWide 4000/4500 series printers are faster than alternative low-volume LED printers and MFPs (under 7D/A1 pages/minute) as of March, 2015. Based on internal HP testing of the HP PageWide XL 4000/4500 Printers in lines print mode using uncoated bond paper and printing D-sized landscape pages.

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