



HP 841 PageWide XL Printhead

The HP PageWide XL Printer portfolio

The fastest large-format monochrome and color printing with up to 50% savings in total production costs¹

ACCELERATE Radically faster delivery

- Print monochrome and color at speeds up to 23 meters/minute (75 feet/minute)—60% faster than the fastest monochrome LED printer²
- Deliver mixed monochrome and color sets in 50% of the time with a consolidated workflow³
- Start printing in 50% of the time with an ultra-fast processor, native PDF management, and HP SmartStream software⁴
- Rely on proven HP PageWide Technology for dependable, high-speed printing in today's most demanding printing environments⁵

GROW Fast color, excellent document quality

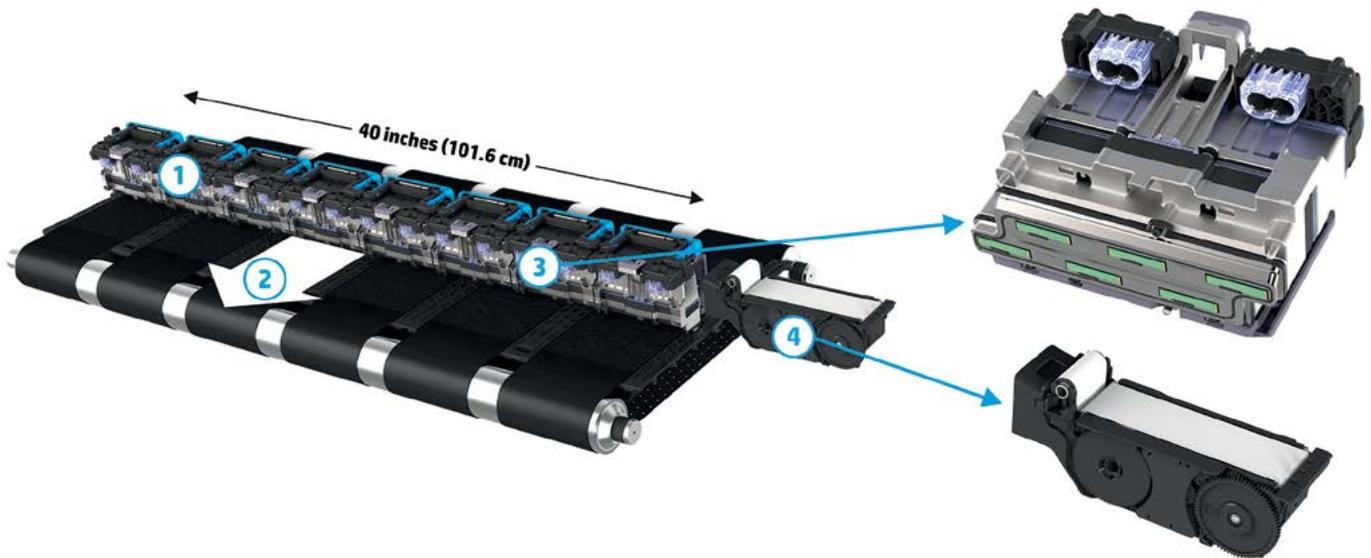
- Generate new business growth—print GIS map and point-of-sale (POS) poster applications at breakthrough speeds
- Set a new technical document quality standard—HP PageWide Technology prints crisp lines, fine detail, and smooth grayscales that beat LED⁶
- Construction-site ready with HP PageWide XL pigment ink for dark blacks, vivid colors—even on uncoated bond—in moisture-, fade-resistant prints⁷
- Print on a wide range of media up to 101.6 cm/40 inches—covering ISO/US technical and offset standards⁸

SAVE Cut total production costs up to 50%¹

- Print monochrome technical documents at the same or lower cost than comparable LED printers⁹
- Print color technical documents at the lowest cost in the market¹⁰
- Cut job preparation and finishing costs up to 50%³
- See up to 10 times lower energy consumption than comparable LED printers¹¹

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

HP PageWide Technology



HP PageWide XL printers include a stationary 101.6-cm (40-inch) 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:

- 129 mm (5.08 inches) 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 of ink. 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 on a range of media including uncoated bond papers
- Moisture- and fade-resistant prints⁷

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.

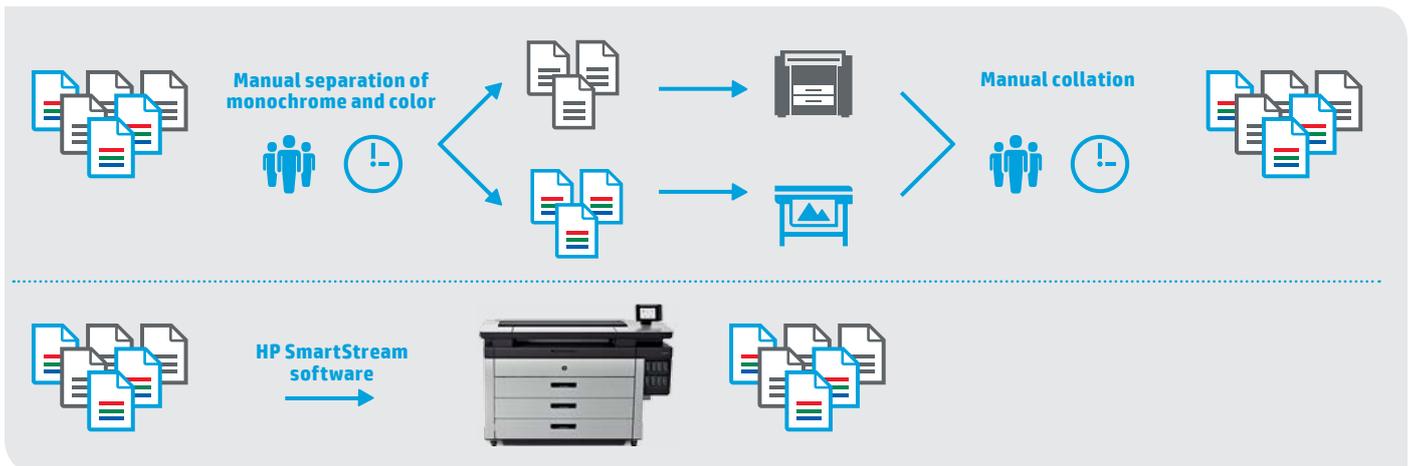
End-to-end productivity



1. Using HP SmartStream Preflight Manager, jobs can be prepared in 50% of the time¹²
2. With an ultra-fast processor and the embedded Adobe PDF Print Engine 3,¹³ HP PageWide XL printers are designed to quickly process even the most complex jobs
3. Printing up to 30 A1/D 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 folder¹⁴ 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.³ 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
The fastest large-format monochrome and color printer ever, with up to 50% savings in total production costs¹



HP PageWide XL 5000 Printer series
Powerful, efficient monochrome and color production with up to 30% savings in total production costs¹⁵



HP PageWide XL 4500/4000 Printer series
Do the work of two printers with one—faster and lower cost than LED¹⁶

	HP PageWide XL 8000 Printer	HP PageWide XL 5000 Multifunction Printer	HP PageWide XL 5000 Printer	HP PageWide XL 4500 Multifunction Printer	HP PageWide XL 4500 Printer	HP PageWide XL 4000 Multifunction Printer	HP PageWide XL 4000 Printer
Product number	CZ309A	CZ311A	CZ310A	CZ312A	CZ313A	MOV02A	MOV01A
Print speed (D/A1 pages/min)	Up to 30	Up to 14		Up to 12		Up to 8	
Ink cartridges	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			
Maximum number of rolls	Up to 6	Up to 4		Up to 4			
Integrated 1200 dpi scanner	-	✓	-	✓	-	✓	-
Paper output (standard)	-	-		Top stacker			
Paper output (optional)	Folder, high-capacity stacker, and top stacker	Folder, high-capacity stacker, and top stacker		-			

Easily integrate HP SmartStream software, HP HD Pro 42-in, and HP SD Pro 44-in 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.

For more information, please visit hp.com/go/pagewidexlservice

¹ Fastest based on internal HP testing and methodology compared to alternatives for large-format printing of technical documents, GIS maps, and point-of-sale (POS) posters under \$200,000 USD as of March, 2015. Production costs savings based on comparison to a setup consisting of one monochrome LED printer and one color production printer, both under \$150,000 USD, as of April, 2015. Production costs consist of supplies and service costs, printer energy costs, and operator costs. For testing criteria, see hp.com/go/pagewidexlclaims.

² With a maximum linear speed of 23 meters/minute (75 feet/minute), the HP PageWide XL 8000 Printer is 60% faster than the KIP 9900 printer which, at 14 meters/minute (47 feet/minute), is the fastest rated LED printer as of March, 2015.

³ Based on internal HP testing on the HP PageWide XL 8000 Printer compared to using two different printers (one monochrome LED printer, one color printer). For testing criteria, see hp.com/go/pagewidexlclaims.

⁴ Using HP SmartStream software compared with using equivalent software programs. For testing criteria, see hp.com/go/pagewidexlclaims.

⁵ Proven HP PageWide Technology powers HP Inkjet Web Presses—currently producing 4 billion impressions monthly—and HP X series business printers.

⁶ 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. For testing criteria, see hp.com/go/pagewidexlclaims.

⁷ Compared to prints produced with HP 970/971/980 inks that are fade and moisture resistant per ISO 11798 Permanence and Durability Methods certification. For testing criteria, see hp.com/go/pagewidexlclaims.

⁸ 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.

⁹ Based on supplies and service costs for comparable LED printers under \$150,000 USD for large-format printing of technical documents as of April, 2015 which represent more than 80% of the share of high-volume LED printers in the US and Europe in 2014 according to IDC. For testing criteria, see hp.com/go/pagewidexlclaims.

¹⁰ Based on supplies and service costs for comparable color printers capable of printing 4 D/A1 pages per minute or more and under \$150,000 USD for large-format printing of technical documents as of April, 2015 and representing more than 80% of the market in the US and Europe in 2014 according to IDC. For testing criteria, see hp.com/go/pagewidexlclaims.

¹¹ Conclusions based on internal HP testing for a specific use scenario. Comparable printers using LED technology based on LED printers capable of printing 18 to 22 D/A1 pages per minute and which represent more than 80% of the share of high-volume LED printers in the US and Europe according to IDC as of April, 2015. For testing criteria, see hp.com/go/pagewidexlclaims.

¹² 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.

¹³ 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 platesetters. 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/pdfprintengine.

¹⁴ The online folder is an optional accessory.

¹⁵ Production costs savings based on an HP PageWide XL 5000 Printer compared with a combination of a mid-volume monochrome LED printer and a mid-volume color production printer (both under \$40,000 USD) as of April, 2015. Production costs consist of supplies and service costs, printer energy costs, and operator costs. For testing criteria, see hp.com/go/pagewidexlclaims.

¹⁶ Fastest based on alternative low-volume LED printers and MFPs (under 7D/A1 pages/minute) as of April, 2015. Operational costs based on low-volume LED technology under \$20,000 USD in the market as of April, 2015. Operational costs consist of supplies and service costs. For testing criteria, see hp.com/go/pagewidexlclaims.

For more information, please visit
hp.com/go/pagewidexl



reddot award 2016
 best of the best



GOLD AWARD
 2016

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