



PROGRESSIVE  
PROFITABLE  
PRINTING



# HP DESIGNJET L28500

Printer series

Offer wider output; enjoy fast, easy productivity.

**Wider applications with unrivaled versatility<sup>1</sup>.**

- Satisfy a broader range of customer needs with 104-in addressable width.
- Print on a broad range of materials, including vinyl, fabrics<sup>2</sup>, paper, film, and low-cost uncoated options.
- Seize your share of the growing soft signage market with the ability to print on a broader range of fabrics<sup>2</sup>.
- Create vivid indoor and outdoor applications—outdoor signage offers better durability than eco-solvent inks<sup>3</sup>.

**Productivity made easy.**

- Print up to 70% faster<sup>4</sup> with extremely short time to delivery.
- Produce double-sided prints<sup>4</sup> with automated registration across sides that move immediately to finishing.

- Increase uptime with automatic, reliable, low-maintenance printing and remote management.
- Easily control printer settings and tasks via the intuitive touchscreen.

**Win new business from environment-minded customers.**

- Attract environmentally conscious customers using HP Latex Inks and recyclable HP printing materials<sup>5</sup>.
- Improve the work environment—no special ventilation<sup>6</sup>, no hazard warning label—unlike most eco-solvent inks.
- Return and recycle supplies for free<sup>7</sup> and dramatically improve ink efficiency<sup>8</sup>.
- Choose a printing system that is an industry leader in environmental certifications and awards.



## ecoHIGHLIGHTS

- **Water-based HP Latex Inks—no special ventilation required<sup>1</sup>, no hazard warning labels, no HAPs<sup>2</sup>**
- **Produce odorless prints<sup>3</sup>**
- **Create prints on FSC®-certified HP wall paper that are GREENGUARD Children & Schools Certified<sup>SM</sup> and meet AgBB criteria<sup>4</sup>**
- **Reduce your impact—print using a range of recyclable HP media, recycle all printing supplies<sup>5</sup>**
- **Eco Mark-Certified ink cartridges<sup>6</sup>**

<sup>1</sup> Special ventilation is not required to meet U.S. OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Special ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Customers should consult state and local requirements and regulations.

<sup>2</sup> Contains no detected Hazardous Air Pollutants according to EPA Method 311.

<sup>3</sup> Some substrates may have inherent odor.

<sup>4</sup> HP PVC-free Wall Paper printed with HP Latex Inks is GREENGUARD Children & Schools Certified<sup>SM</sup> and meets AgBB criteria for health-related evaluation of VOC emissions of indoor building products.

<sup>5</sup> Visit [www.hp.com/recycle](http://www.hp.com/recycle) to see how to participate and for HP Planet Partners program features and availability; program may not be available in your area.

<sup>6</sup> HP 792 Latex Designjet Ink Cartridges, certification number 11 142 004 by the Eco Mark Office of Japan Environment Association.



Please recycle large-format printing hardware and printing supplies. Find out how at our website:

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

# HP Designjet L28500 Printer Series

## Vast improvement in double-sided printing.

- The double-sided capability<sup>4</sup> allows you to print double-sided banners with minimal operator intervention. The HP Optical Media Advance Sensor (OMAS) controls registration automatically.
- You can also save time—no need to rewind the roll between sides.



## More textiles and higher quality.

61-in (155-cm) rolls fully supported. Now you have access to many more of the fabric rolls available in the market.



Maximize the variety of media you can handle, including soft materials previously too light to load.



Even higher image quality with the new front tension system and edge holders.



## High productivity

- 1) **BOOST PRODUCTIVITY** with up to 70% faster printing speeds<sup>1</sup> so you can get more done in less time.
- 2) **ACCELERATE TURNAROUNDS** using HP Latex Inks—prints come out dry and ready to finish or use immediately so you can move right on to lamination, finishing, shipping, or display.
- 3) **SAVE TIME WITH USER-REPLACEABLE PRINTHEADS** — the HP Designjet L28500 Printer is designed to save you time and keep you productive. Avoid the delay of a service call with user-replaceable printheads. Automatic

printhead testing and servicing systems reduce manual maintenance and enable reliable unattended printing.



## HP Latex Printing Technologies

HP Latex Inks are water-based inks that combine the best characteristics of eco-solvent inks and water-based inks. You can obtain the outdoor durability and versatility on low-cost, uncoated papers that you would traditionally associate with eco-solvent inks, together with the odorless prints<sup>9</sup>, low maintenance, and environmental advantages you get from water-based inks.

HP Latex Inks are completely cured inside the printer to form a durable film on the print medium. Prints come off dry so you can move right on to lamination, finishing, shipping, or display.



## POINT OF PURCHASE POSTERS

### Reduce costs without compromising quality.

- Print on low-cost uncoated papers – with HP Latex Inks, you can print on uncoated papers, and reduce your media costs by up to 30%. Solvent printers require more expensive coated papers to achieve the same results.
- Achieve excellent image quality – produce prints with high resolution up to 1200 dpi, wide gamut, and saturated colors suitable for both long- and short-distance viewing.



## LIGHT BOXES

### Deliver vibrant, saturated colors at high productivity.

- Achieve excellent image quality – produce high-resolution prints up to 1200 dpi, with dense, saturated colors that stand up to close inspection.
- Eliminate drying time – prints are fully dried inside the printer, allowing you to deliver immediately. With water-based, solvent, or Lambda technologies, you need to leave prints to fully dry before packing or mounting.



## SOFT SIGNAGE<sup>12</sup>

### Complement your business without losing versatility.

- Print on lower-cost uncoated fabrics<sup>12</sup> – with HP Latex Inks, you can print on uncoated fabrics with excellent image sharpness, and save up to 30% on substrate costs. Solvent printers require more expensive coated fabrics to achieve the same image quality results.
- Print direct to fabric – with HP Latex Inks, you can print directly onto the fabric in a simple, one-step process. Dye sublimation printing requires additional dye transfer equipment, transfer paper, and a more complex two-step process.



## WALL COVERINGS

### Discover a new market opportunity.

- Create odorless prints<sup>9</sup> – prints produced with HP Latex Inks are odorless, making them ideal for any location where odor is a concern. Great news for wall coverings and wall papers, which cover a large surface, and where any odor would be immediately noticeable.
- Print with HP Latex Inks on HP PVC-free Wall Paper and offer indoor wall decorations that are GREENGUARD Children & Schools Certified<sup>SM 10</sup> and meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products<sup>11</sup>. This HP wall paper is also FSC<sup>®</sup> certified, signifying that this media supports the development of responsible forest management worldwide.



## VEHICLE WRAPS AND GRAPHICS

### Cut turnaround times, access high-value market segments.

- You can laminate right after printing – there is no need to let prints dry after printing, so you can accept urgent-turnaround jobs that can command a premium price.
- Enjoy excellent flexibility and conformability – HP Latex Inks stretch with the vinyl during mounting without cracking.
- Benefit from performance warranties from HP, 3M, and Avery Graphics. Produce vehicle wraps with HP Latex Inks that outperform eco-solvent inks<sup>3</sup>. HP is the only company that offers and warrants the entire printing system for vehicle wraps<sup>12</sup> with the HP Performance Warranty for HP Air Release Adhesive Gloss Cast Vinyl and HP Clear Gloss Cast Overlaminate<sup>13</sup>.



## OUTDOOR AND EVENT BANNERS

### Differentiate your business.

- Produce images worthy of building the best brands – see rich blacks and glossy results on self-adhesive vinyls and banners. Create outdoor signage with overall durability that's even better than prints produced with eco-solvent inks<sup>3</sup>. See outdoor display permanence up to three years un laminated, five years laminated<sup>3</sup>.
- Distinguish your business – print with a combination of HP Latex Inks and PVC alternative substrates and offer a complete solution, designed with the environment in mind, to distinguish your business in a very competitive market. HP Double-sided HDPE Reinforced Banner is a lightweight, recyclable<sup>5</sup> alternative to PVC scrim banner.

# HP DESIGNJET L28500 PRINTER SERIES

## TECHNICAL SPECIFICATIONS

<b>PRINT SPEED<sup>14</sup></b>	
	Up to 70 m <sup>2</sup> /hr (753 ft <sup>2</sup> /hr)
<b>MEDIA</b>	
<b>Handling</b>	Roll feed, take-up reel, automatic cutter (for vinyl, paper-based media, backlit polyester film, and thin banners)
<b>Types</b>	Banners, vinyls, films, fabrics, papers, mesh (liner used with porous media)
<b>Size</b>	58 to 264-cm (23 to 104-in) rolls, with 76-mm (3-in) cores, up to 100 kg (220 lb)
<b>Roll diameter</b>	Up to 25-cm (9.8-in) outside diameter
<b>Thickness</b>	Up to 0.5-mm (19.7 mil)
<b>PRINTING MODES<sup>14</sup></b>	
<b>2-pass bidirectional</b>	70 m <sup>2</sup> /hr (753 ft <sup>2</sup> /hr)
<b>4-pass bidirectional</b>	40 m <sup>2</sup> /hr (430 ft <sup>2</sup> /hr)
<b>6-pass bidirectional</b>	28 m <sup>2</sup> /hr (301 ft <sup>2</sup> /hr)
<b>8-pass bidirectional</b>	18.4 m <sup>2</sup> /hr (198 ft <sup>2</sup> /hr)
<b>10-pass bidirectional</b>	14.7 m <sup>2</sup> /hr (158 ft <sup>2</sup> /hr)
<b>12-pass bidirectional</b>	12.3 m <sup>2</sup> /hr (132 ft <sup>2</sup> /hr)
<b>16-pass bidirectional</b>	9.2 m <sup>2</sup> /hr (99 ft <sup>2</sup> /hr)
<b>PRINTING</b>	
<b>Print resolution</b>	Up to 1200 x 1200 dpi
<b>Margins (top x bottom x left x right)</b>	5 x 5 x 5 x 5-mm (0.2 x 0.2 x 0.2 x 0.2-in)
<b>Technology</b>	HP Thermal Inkjet
<b>Ink types</b>	HP Latex Inks
<b>Ink colors</b>	Cyan, magenta, yellow, black, light cyan, light magenta
<b>Ink drop</b>	12 pl
<b>Ink cartridge size</b>	775-ml
<b>Printheads</b>	6 (2 x yellow/black, 2 x cyan/light cyan, 2 x light magenta/magenta)
<b>Nozzles</b>	2112 per printhead (2 colors per printhead, 1056 nozzles per color)
<b>Maximum print length</b>	No physical limit (determined by RIP software or media roll length)
<b>CONNECTIVITY</b>	
<b>Interfaces (standard)</b>	Gigabit Ethernet (1000Base-T)
<b>DIMENSIONS (W X D X H)</b>	
<b>Printer</b>	3581 x 730 x 1377-mm (141 x 29 x 54-in)
<b>Shipping</b>	3850 x 1100 x 1675-mm (151.6 x 43.3 x 65.9-in)
<b>WEIGHT</b>	
<b>Printer</b>	380 kg (837 lb)
<b>Shipping</b>	629 kg (1387 lb)
<b>WHAT'S IN THE BOX</b>	
	HP Designjet L28500 Printer, printheads, printhead cleaning kit, ink maintenance kit, cleaning container, Original HP sample media, printer stand, take-up reel, 61-in loading accessory, 104-in loading accessory, edge holder, 3-phase voltage kit, waste management diverter, setup tool, user maintenance kit, quick reference guide, documentation software
<b>ENVIRONMENTAL RANGES</b>	
<b>Operating temperature</b>	15 to 30°C (59 to 86°F)
<b>Storage temperature</b>	25 to 55°C (13 to 131°F)
<b>Operating humidity</b>	30 to 80% RH (non-condensing)
<b>ACOUSTIC</b>	
<b>Sound pressure, active</b>	61 dB(A)
<b>Sound pressure, standby</b>	45 dB(A)
<b>Sound power, active</b>	8.0 B(A)
<b>Sound power, standby</b>	6.7 B(A)
<b>POWER CONSUMPTION</b>	
<b>Maximum</b>	8 to 10 kW maximum (only when warming up)
<b>Active</b>	4.2 kW
<b>Powersave</b>	< 64 watts
<b>Off</b>	< 0.1 watts
<b>Power requirements</b>	Input voltage: 3-phase, 200 to 240 VAC (+/- 10%), 40 A or 380 to 415 VAC (10% +6%), 24 A; 50/60 Hz (+/- 3 Hz)
<b>CERTIFICATION</b>	
<b>Safety</b>	USA and Canada (CSA certified), EU (LVD and EN 60950-1 compliant), Russia (GOST)
<b>Electromagnetic</b>	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), Japan (VCCI), Korea (KCC)
<b>Environmental</b>	WEEE, EU RoHS, China RoHS, REACH, FEMP
<b>WARRANTY</b>	
	One-year limited hardware warranty; 8-hour, 5 days a week phone support

For more information, please visit:  
[www.hp.com/go/DesignjetL28500](http://www.hp.com/go/DesignjetL28500)

For more HP large-format printing materials and sizes please visit us online at:  
[www.hp.com/go/LFPrintingMaterials](http://www.hp.com/go/LFPrintingMaterials)

Software: For HP Certified third-party RIP solutions, please visit us online at:  
[www.hp.com/go/L28500/solutions](http://www.hp.com/go/L28500/solutions)

See Site Preparation Guide requirements to ensure complete compliance with all installation and operation requirements, safety procedures, warnings, cautions, and local regulations. Download this and other manuals from: [www.hp.com/go/L28500/manuals](http://www.hp.com/go/L28500/manuals)

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## ORDERING INFORMATION

<b>PRODUCT</b>	
<b>CQ871A</b>	HP Designjet L28500 104-in Printer
<b>ACCESSORIES</b>	
<b>CZ277A</b>	HP Designjet L28500 (104-in Printer) 3-in Spindle
<b>CZ278A</b>	HP Designjet 104-in Media Loading Accessory
<b>CR765A</b>	HP Designjet 61-in Media Loading Accessory
<b>CQ201A</b>	HP Designjet L2x500 User Maintenance Kit
<b>ORIGINAL HP PRINTHEADS</b>	
<b>CN702A</b>	HP 792 Yellow/Black Designjet Printhead
<b>CN703A</b>	HP 792 Cyan/Light Cyan Designjet Printhead
<b>CN704A</b>	HP 792 Light Magenta/Magenta Designjet Printhead
<b>ORIGINAL HP INK CARTRIDGES</b>	
<b>CN705A</b>	HP 792 775-ml Black Latex Designjet Ink Cartridge
<b>CN706A</b>	HP 792 775-ml Cyan Latex Designjet Ink Cartridge
<b>CN707A</b>	HP 792 775-ml Magenta Latex Designjet Ink Cartridge
<b>CN708A</b>	HP 792 775-ml Yellow Latex Designjet Ink Cartridge
<b>CN709A</b>	HP 792 775-ml Light Cyan Latex Designjet Ink Cartridge
<b>CN710A</b>	HP 792 775-ml Light Magenta Latex Designjet Ink Cartridge
<b>ORIGINAL HP MAINTENANCE SUPPLIES</b>	
<b>CR278A</b>	HP 792 Designjet Printhead Cleaning Kit
<b>CR279A</b>	HP 792 Designjet Ink Maintenance Kit
<b>CH622A</b>	HP 789/792 Designjet Printhead Cleaning Container
<b>ORIGINAL HP PRINTING MATERIALS</b>	
<b>Banners</b>	
	HP HDPE Reinforced Banner—new 
	HP Double-sided HDPE Reinforced Banner—new 
	HP Durable Frontlit Scrim Banner
<b>Self-adhesive Materials</b>	
	HP Air Release Adhesive Gloss Cast Vinyl
	HP One-view Perforated Adhesive Window Vinyl
	HP Permanent Gloss Adhesive Vinyl
	HP Permanent Matte Adhesive Vinyl
<b>Films</b>	
	HP Backlit Polyester Film— 
<b>Polyester fabrics</b>	
	HP Heavy Textile Banner— 
	HP Light Textile Display Banner— 
<b>Papers/photographic papers</b>	
	HP PVC-free Wall Paper—new, FSC® certified, GREENGUARD Certified <sup>SM</sup> <sup>10</sup>
	HP White Satin Poster Paper— 
	HP Photo-realistic Poster Paper— 
	HP Blue Back Billboard Paper
<b>Specialty materials</b>	
	HP DuPont™ Tyvek® Banner— 
	HP Satin Canvas
<b>SERVICE AND SUPPORT</b>	
<b>UOL97E</b>	HP 3 year Next business day Designjet L28500 104-in Hardware Support
<b>UOL98E</b>	HP 3 year 4 hour 13x5 Designjet L28500 104-in Hardware Support
<b>UOM13PE</b>	HP 1 year Post warranty Next business day Designjet L28500 104-in Hardware Support
<b>UOM14PE</b>	HP 1 year Post warranty 4 hour 13x5 Designjet L28500 104-in Hardware Support

- The HP Designjet L28500 Printer produces an extremely broad range of both outdoor and indoor applications at speeds up to 70% faster than the HP Designjet L26500 and L25500 from a single device, which surpasses the number of different applications that traditional eco-solvent printers or water-based printers can produce.
- For best results, print on media that does not let the ink trespass onto the printer. Performance may vary depending on media. Please consult your media supplier for compatibility details.
- Durability comparison based on testing of representative eco-solvent inks including eco-sol Max inks on Avery SA vinyl for display permanence and scratch, rub/abrasion, and chemical resistance. HP image permanence and scratch, smudge, and water resistance estimates by HP Image Permanence Lab on a range of media including HP printing materials. See [www.hp.com/go/supplies/printpermanence](http://www.hp.com/go/supplies/printpermanence)
- For best results use media options intended for double-sided printing.
- HP Large-format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See [www.hp.com/recycle](http://www.hp.com/recycle) for details.
- Special ventilation is not required to meet U.S. OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Special ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Customers should consult state and local requirements and regulations.
- Visit [www.hp.com/recycle](http://www.hp.com/recycle) to see how to participate and for HP Planet Partners program availability; program may not be available in your area. Where this program is not available, consult the Material Safety Data Sheet (MSDS) available at [www.hp.com/go/ecodata](http://www.hp.com/go/ecodata) to determine appropriate disposal.
- Per internal HP testing based on the amount of ink used during the recommended ink maintenance routines comparing the HP Latex Ink printing system to certain eco-solvent ink systems.
- Some substrates may have inherent odor.
- HP PVC-free Wall Paper printed with HP Latex Inks is GREENGUARD Children & Schools Certified.<sup>SM</sup> See [www.greenguard.org](http://www.greenguard.org)
- HP PVC-free Wall Paper printed with HP Latex Inks meets AgBB criteria for health-related evaluation of VOC emissions of indoor building products. See [www.umweltbundesamt.de/produkte-e/bauprodukte/agbb.htm](http://www.umweltbundesamt.de/produkte-e/bauprodukte/agbb.htm)
- The HP printer is subject to the HP hardware warranty.
- Some warranty limitations apply, see the HP Performance Warranty for HP Air Release Adhesive Gloss Cast Vinyl at [www.hp.com/go/HPMediaWarranties](http://www.hp.com/go/HPMediaWarranties)
- Speed based on printing using full width 264 cm/104 in.

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