DESIGNJET L25500
PRINTER SERIES

Increase business opportunities with a printer that delivers unrivaled versatility for outdoor and indoor applications.[1] Experience the ease of reliable HP Designjet printing. Attract the attention of environmentally conscious customers.

Unrivaled versatility from one printing system[1]

- Produce outdoor signage with durability comparable to eco-solvent inks.[2]

- Achieve high-quality results—that meet clients' branding requirements—for all your indoor signage applications, from exhibition graphics to interior decorations.

- Print on a wide range of media, including coated media or polyester fabric[3] and low-cost papers without treatments.

- Produce vehicle wraps with HP Latex Inks that outperform eco-solvent inks.

- Expect the most out of each application when you use the broad portfolio of Original HP printing materials.

Easy, automatic, low maintenance printing

- Experience easy, unattended printing with HP Thermal Inkjet printheads and automatic maintenance.

- Experience greater uptime—with user-replaceable printheads you can avoid the delay and expense of a service call.

- Automatically achieve high image quality and consistency with the HP Optical Media Advance Sensor (OMAS) and embedded spectrophotometer.

- Post-print production is easy with prints that come off the printer dry and ready—for lamination, packaging, shipping, and display.

- Minimize interruptions with pro-active alerts and the embedded Web server, which is accessible through your preferred RIP.

Go green, improve your operator's work environment

- Provide your print operators with an improved working environment—without the health and safety considerations of printshops that use eco-solvent-based printers.

- Build a competitive edge with odorless prints[4] that allow placement in areas where odor is a concern.

- No special ventilation equipment[5] or external dryer requirement helps keep energy costs down.

- Distinguish your business and attract new environmentally focused customers by offering a complete solution—including water-based HP Latex Inks and HP recyclable media.[6]

- Take advantage of free, convenient HP programs for recycling Original HP ink cartridges and printheads,[7] and prints produced on HP recyclable media.[6]

1) The HP Designjet L25500 Printer produces an extremely broad range of both outdoor and indoor applications from a single device, which surpasses the number of different applications that traditional eco-solvent printers or water-based printers can produce.

2) HP image permanence and scratch, smudge, and water resistance estimates by HP Image Permanence Lab. Outdoor display permanence tested according to SAE J2527 using HP Latex and eco-solvent ink on a range of media, including HP media; in a vertical display orientation in simulated nominal outdoor display conditions for select high and low climates, including exposure to direct sunlight and water; performance may vary as environmental conditions change. Scratch, smudge, and water resistance tested using HP Latex and eco-solvent inks on a wide range of media, including HP media; water resistance is comparable when printed on water-resistant substrates. Laminated display permanence using GBC clear gloss 1.7 mil hot laminate. Results may vary based on specific media performance and scratch testing methodology. For more information, see www.hp.com/go/supplies/printpermanence.

3) For best results, print on polyester fabric that does not stretch. Performance may vary depending on media. Please consult your media supplier for compatibility details.

4) Printers using HP Latex Inks use internal heaters to dry and cure the latex polymer film. Some substrates may have inherent odor.
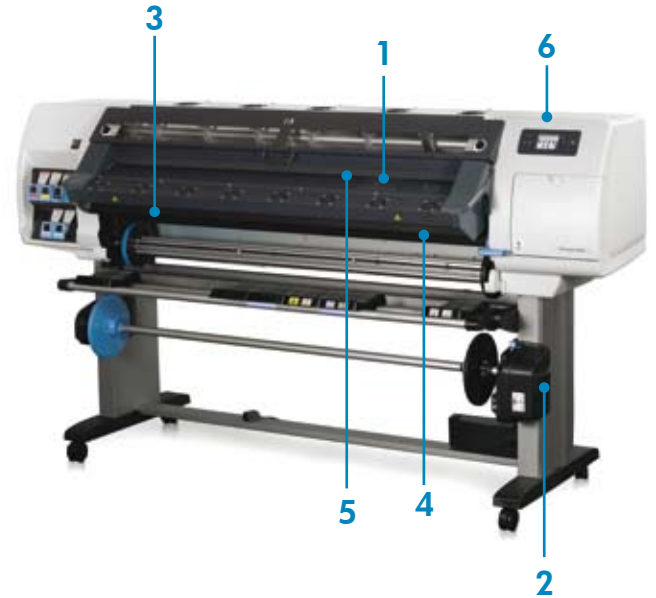
5) Special ventilation is not required to meet US OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Special ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Customers should consult state and local requirements and regulations.

6) HP offers the HP Large-format Media take-back program in the U.S. and Europe, through which most HP recyclable signage media can be returned, availability varies. Some recyclable papers can be recycled through commonly available recycling programs. For details visit www.hp.com/recycle. Aside from this program, recycling opportunities for these products are currently only available in limited areas. Customers should consult local recycling resources for recycling these products.

7) In the circa 45 countries and territories in which the HP Planet Partners program operates. Program features and availability varies. Where this program is not available, and for other consumables not included in the program, consult the Material Safety Data Sheet (MSDS) available at www.hp.com/go/ecodata to determine appropriate disposal.

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1) User-replaceable printheads

Less intervention for changing printheads avoids delays and improves your turnaround time. HP printing systems using Original HP printheads and water-based HP Latex Inks do not require daily manual maintenance of printheads as the printer employs fully-automatic printhead testing and maintenance systems. Individual printheads are user replaceable, eliminating the down-time and expense of a service call. Together, HP printheads and HP Latex Inks enable low-maintenance, productive printing.

2) Included take-up reel

Do you have more to print than you can keep up with? Busy professionals can make the most of their time and improve productivity by printing continuous, unattended runs—even overnight—and on long media rolls with the media take-up reel that comes standard on both 42-inch and 60-inch models of this printer.

3) Completely dry right out of the printer

Improve your turnaround time with prints that are dry and ready immediately. HP Latex Inks are completely dried inside the printer to form a durable film on the print medium. Once they're off the printer, they're ready to laminate, use, finish, and prepare for shipping or display.

4) Optical Media Advance Sensor and Optical Drop Detector

Automatically achieve high image quality and consistency with the HP Optical Media Advance Sensor (OMAS) and the Optical Drop Detector (ODD). OMAS controls the media as it advances through the printer, which helps minimize banding at high speeds. The drop ejection performance of every printhead nozzle is periodically and automatically tested with the ODD, providing prints free of defects or errors that can result in ink and media waste.

5) HP Double Swath technology

Pairs of staggered printheads in the carriage double the print swath of the HP Designjet L25500 Printer series resulting in twice the performance of earlier Designjet models. The print swaths overlap each other and the nozzles printing in the same scan line (top and bottom printheads) are used together to eliminate swath-to-swath banding.

6) Embedded Web server

Control print settings and monitor your printer's use of ink and media via the embedded Web server—which is also accessible through your preferred RIP. This information will help you better manage print jobs and prevent unnecessary ink and media waste.
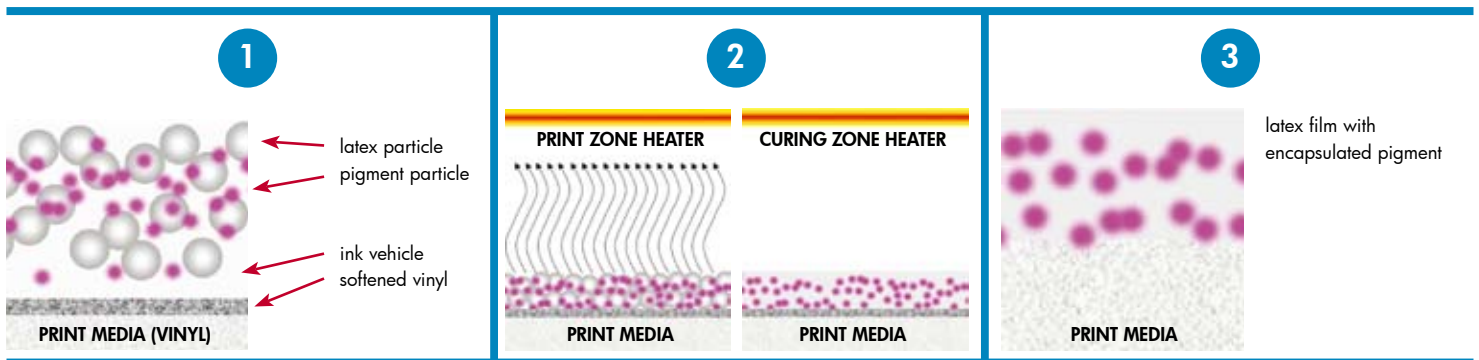
Image Formation Process

Unlike other water-based inks, HP Latex Inks are cured in the printer with heat and forced air. The HP Designjet L25500 Printer includes independent Print Zone and Curing Zone heating systems to cure HP Latex Inks. The temperatures in each zone depend on the print mode and media being used.

Figure **1** shows a schematic drawing (not to scale) of a liquid film of HP Latex Ink in the Print Zone on the surface of nonabsorbent media, such as uncoated vinyl.

In Figure **2**, radiant heaters and forced air in the Print Zone and Curing Zone evaporate the ink vehicle and cure the latex film.

In Figure **3**, a continuous latex film encapsulating the pigments has formed on the vinyl surface as the print leaves the Curing Zone.

1

latex particle
pigment particle

ink vehicle
softened vinyl

PRINT MEDIA (VINYL)

2

PRINT ZONE HEATER   CURING ZONE HEATER

PRINT MEDIA   PRINT MEDIA

3

latex film with
encapsulated pigment

PRINT MEDIA

The print is completely dry and ready to use, finish, and prepare for shipment. Since curing takes place in the printer, production workflows are improved because no external drying process is required and prints can be laminated immediately.

Using this image formation process, HP Latex Inks produce prints with quality and durability comparable to eco-solvent inks.[2]

To learn more about innovative HP Latex Ink Technologies, see
WWW.HP.COM/GO/HP_LATEX_PRINTING_TECHNOLOGIES

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TECHNICAL SPECIFICATIONS

Print Speed[8]	
	Up to 22.8 m²/hr (246 ft²/hr)

Media	
Handling	Roll feed, take-up reel, automatic cutter for vinyl, paper-based media, backlit polyester film, and thin banners
Types	Banners, vinyls, films, fabrics, papers, mesh with liner
Size	**42-in models:** 58 to 106.7-cm (23 to 42-in) rolls **60-in models:** 58 to 152.4-cm (23 to 60-in) rolls
Loading	Up to 40 kg (88 lb) rolls, up to 18 cm (7.09 in) outside diameter, up to 24 kg (53 lb) on the take-up reel
Thickness	Up to 0.5 mm (19.7 mil)

Printing modes[8]	
4-pass bidirectional	22.8 m²/h (246 ft²/hr)
4-pass unidirectional	15.4 m²/h (166 ft²/hr)
6-pass bidirectional	16.5 m²/h (178 ft²/hr)
6-pass unidirectional	10.3 m²/h (111 ft²/hr)
8-pass bidirectional	10.6 m²/h (114 ft²/hr)
8-pass unidirectional	7.9 m²/h (85 ft²/hr)
10-pass bidirectional	9.0 m²/h (97 ft²/hr)
10-pass unidirectional	6.3 m²/h (68 ft²/hr)
12-pass bidirectional	7.6 m²/h (81 ft²/hr)
12-pass unidirectional	5.1 m²/h (55 ft²/hr)
16-pass bidirectional	6.3 m²/h (68 ft²/hr)
16-pass unidirectional	3.9 m²/h (41 ft²/hr)
18-pass unidirectional	3.4 m²/h (37 ft²/hr)

Printing	
Print resolution	1200 x 1200 dpi
Margins (top x bottom x left x right)	5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 in)
Technology	HP Latex Printing Technologies
Ink types	HP Latex Inks
Ink colors	Cyan, magenta, yellow, black, light cyan, light magenta
Ink drop	12 pl
Ink cartridge size	775 ml
Printheads	6 (2 x yellow/black, 2 x cyan/light cyan, 2 x light magenta/magenta)
Nozzles	2112 per printhead (2 colors per printhead, 1056 nozzles per color)
Maximum print length	No physical limit (determined by RIP software or media roll length)[9]

Connectivity	
Interfaces (standard)	1 Gigabit Ethernet (1000Base-T) port

Dimensions (w x d x h)	
Printer	**42-in models:** 1985 x 690 x 1370 mm (78 x 27.5 x 54 in) **60-in models:** 2465 x 690 x 1370 mm (97 x 27.5 x 54 in)
Shipping	**42-in models:** 2230 x 810 x 1184 mm (87.8 x 31.9 x 46.6 in) **60-in models:** 2690 x 810 x 1184 mm (105.9 x 31.9 x 46.6 in)

Weight	
Printer	**42-in models:** 161 kg (355 lb) **60-in models:** 181 kg (399 lb)
Shipping	**42-in models:** 250 kg (550 lb) **60-in models:** 310 kg (682 lb)

What's in the box	
	Printer, printheads, cleaning Kit, cleaning container, ink funnel, printer stand, take-up reel, maintenance guide, setup poster, site guide, documentation software, power cords

Environmental ranges	
Operating temperature	15 to 30° C (59 to 86° F)
Recommended operating temperature	18 to 25° C (64 to 77° F)
Storage temperature	-25 to 55° C (-13 to 131° F)
Recommended operating humidity	20 to 80% RH (non-condensing)

Acoustic	
Sound pressure, active	56 dB(A)
Sound pressure, standby	39 dB(A)
Sound power, active	7.5 B(A)
Sound power, standby	5.1 B(A)

Power consumption	
Maximum	**42-in models:** 3.5 kW (two power cords) **60-in models:** 4.8 kW (two power cords)
Heat dissipation	**42-in models:** 12.3 kBtu/hr **60-in models:** 16.4 kBtu/hr
Powersave	< 17 watts (as per Energy Star rules)
Off	0.4 watts (two power cords)
Power requirements	**42-in models:** Input voltage (auto ranging) 200 to 240 VAC (-10% +6%), 50/60 Hz (+/- 3 Hz), 13 A max per power cord **60-in models:** Input voltage (auto ranging) 220 to 240 VAC (-10% +6%), 50/60 Hz (+/- 3 Hz), 15 A max per power cord

Certification	
Safety	USA and Canada (CSA certified), EU (LVD and EN 60950-1 compliant), Russia (GOST), China (CCC)
Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI), Korea (KCC)
Environmental	WEEE, EU RoHS, China RoHS, REACH, EuP, FEMP
ENERGY STAR® qualified models	see: http://**www.hp.com/go/energystar**

Warranty	
	One-year limited hardware warranty; 8-hour, 5 days a week phone support

ORDERING INFORMATION

Product	
CH955A	HP Designjet L25500 42-in Printer
CH956A	HP Designjet L25500 60-in Printer

Accessories	
CQ154A	HP Designjet L25500 42-in Printer Spindle
CQ155A	HP Designjet L25500 60-in Printer Spindle

Original HP printheads	
CH612A	HP 789 Yellow/Black Designjet Printhead
CH613A	HP 789 Cyan/Light Cyan Designjet Printhead
CH614A	HP 789 Light Magenta/Magenta Designjet Printhead

Original HP ink cartridges	
CH615A	HP 789 775-ml Black Latex Designjet Ink Cartridge
CH616A	HP 789 775-ml Cyan Latex Designjet Ink Cartridge
CH617A	HP 789 775-ml Magenta Latex Designjet Ink Cartridge
CH618A	HP 789 775-ml Yellow Latex Designjet Ink Cartridge
CH619A	HP 789 775-ml Light Cyan Latex Designjet Ink Cartridge
CH620A	HP 789 775-ml Light Magenta Latex Designjet Ink Cartridge

Original HP maintenance supplies	
CH621A	HP 789 Designjet Printhead Cleaning Kit
CH622A	HP 789 Designjet Printhead Cleaning Container

Original HP printing materials	
Banners	
	HP Durable Frontlit Scrim Banner
	HP Outdoor Frontlit Scrim Banner
	HP Backlit Scrim Banner
	HP HDPE Reinforced Banner—recyclable[6]
Self-adhesive materials	
	HP Permanent Gloss Adhesive Vinyl
	HP Permanent Matte Adhesive Vinyl
	HP One-view Perforated Adhesive Window Vinyl—new
	HP Air Release Adhesive Gloss Cast Vinyl—new
	HP PVC-free Gloss Adhesive Film—new
Polyester fabric	
	HP Wrinkle-free Flag with Liner—recyclable[6]
	HP Heavy Textile Banner—recyclable[6]
	HP Light Textile Display Banner—new, recyclable[6]
Papers	
	HP Blue Back Billboard Paper
	HP Photo-realistic Poster Paper—recyclable[6]
	HP White Satin Poster Paper—new, recyclable[6]
	HP PVC-free Wall Paper—new
Mesh	
	HP Mesh Banner with Liner
Specialty	
	HP Satin Canvas
	HP DuPont™ Tyvek® Banner—recyclable[6]

Service and support	
US218E	3 year, Next business day, Onsite, Designjet L25500 60-inch Support
US211E	3 year, 4 hour response 13 by 5 Onsite, Designjet L25500 60-inch Support
US212PE	1 year, Post Warranty, Next business day, Onsite, Designjet L25500 60-inch Support
US206PE	1 year, Post Warranty, 4 hour response 13 by 5 Onsite, Designjet L25500 60-inch Support
US203E	3 year, Next business day, Onsite, Designjet L25500 42-inch Support
US196E	3 year, 4 hour response 13 by 5 Onsite, Designjet L25500 42-inch Support
US197PE	1 year, Post Warranty, Next business day, Onsite, Designjet L25500 42-inch Support
US191PE	1 year, Post Warranty, 4 hour response 13 by 5 Onsite, Designjet L25500 42-inch Support

For more HP large-format printing materials and sizes please visit us online at: **www.hp.com/go/designjet/supplies**

Software: For HP Certified third-party RIP solutions, please visit us online at: **www.hp.com/go/L25500/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/L25500/manuals**

8) Speed based on printing using full width (152.4 cm/60 in). Measured on an HP Designjet L25500 60-in Printer.

9) Recommended up to 30 m (100 ft)

FOR MORE INFORMATION, VISIT OUR WEBSITE AT
WWW.HP.COM/GO/DESIGNJETL25500