



HP Latex 315 Print and Cut Solution

Grow—with this 54-inch business-ready print and cut solution



The HP solution—best in its class³

- Print more applications, full bleed stickers don't shrink or curl; reach more indoor spaces.
- Enjoy accurate high-speed cutting and cut throughs; LAN connectivity and HP media basket add convenience.
- Optimized workflow management from a single point—includes unique software with barcode integration.
- Design applications in 3 simple steps—no design skills are needed with HP Signage Suite in box.²

True print and cut

- Print and cut at the same time—versus print or cut with solvent—with this reliable, dual-device solution.
- Avoid solvent wait time—prints come out dry, cut/laminate right away with no degas time, and deliver same day.
- Avoid lamination for short-term applications—scratch resistance is comparable to hard-solvent inks.⁴

Easy, reliable workflow

- Print and cut in 5 simple steps—add cut lines from the RIP, predefined cutting presets, easy user interface.
- Efficient job recognition and reliable, error-free cutting—Optical Positioning System (OPOS) and HP Barcode.
- Avoid the complexity of other dual-devices—this complete HP solution is designed to work as one.

For more information, please visit <http://www.hp.com/go/latex315printandcut> Join the community, find tools, and talk to experts. Visit the HP Latex Knowledge Center at <https://hplatexknowledgecenter.com/>

¹ Based on HP internal testing February, 2017 comparing the HP Latex Print and Cut Solution with a solvent-technology-based integrated print and cut solution at a comparable cost.

² Requires an HP Applications Center account, Internet connection, and connected Internet-capable device. For more information, see <http://www.hpapplicationscenter.com>.

³ Based on productivity advantages compared to the leading (per IDC market share numbers, March 2017) and comparably priced solvent-technology-based integrated print and cut solution. HP internal productivity testing performed February 2017.

⁴ You can consider unlaminate use for short-term signage with scratch resistance comparable to hard-solvent inks on self-adhesive vinyl and PVC banner. Scratch-resistance comparison based on testing third-generation HP Latex Inks and representative hard-solvent inks. Estimates by HP Image Permanence Lab on a range of media.

Technical specifications

Print	
Printing modes	517 ft ² /hr (48 m ² /hr)- Billboard (2 pass) 174 ft ² /hr (16 m ² /hr)- Outdoor Plus (6 pass) 129 ft ² /hr (12 m ² /hr)- Indoor Quality (8 pass) 108 ft ² /hr (10 m ² /hr)- Indoor High Quality (10 pass) 65 ft ² /hr (6 m ² /hr)- Backlits, Textiles, and Canvas (16 pass) 54 ft ² /hr (5 m ² /hr)- High Saturation Textiles (20 pass)
Print resolution	Up to 1200 x 1200 dpi
Ink types	Water-based HP Latex Inks
Ink cartridges	7 (black, cyan, light cyan, light magenta, magenta, yellow, HP Latex Optimizer)
Cartridge size	775 ml
Printheads	6 (2 cyan/black, 2 magenta/yellow, 1 light cyan/light magenta, 1 HP Latex Optimizer)
Long-term print-to-print repeatability	Average ≤ 1 dE2000, 95% of colors ≤ 2 dE2000 ¹
Media	
Handling	Roll feed, take-up reel (optional), automatic cutter (for vinyl, paper-based media, backlit polyester film)
Media types	Banners, self-adhesive vinyls, films, papers, wallcoverings, canvas, synthetics, (fabrics, mesh, textiles, and any other porous materials require a liner)
Roll size	10 to 54-in (254 to 1371-mm) rolls; 23 to 54-in (580 to 1371-mm) rolls with full support
Roll weight	55 lb (25 kg)
Roll diameter	7.1 in (180 mm)
Thickness	Up to 19.7 mil (Up to 0.5 mm)
Applications	Banners; Displays; Exhibition and event graphics; Exterior signage; Indoor posters; Interior decoration; Light boxes - film; Light boxes - paper; POP/POS; Posters; Vehicle graphics; Customizable clothing; Floor graphics; Labels and stickers; Wall decals; Window graphics
Connectivity	
Interfaces	Printer: Gigabit Ethernet (1000Base-T); Cutter: USB and Ethernet (LAN)
Dimensions (w x d x h)	
Printer	Printer: 91 x 33 x 54 in (2307 x 840 x 1380 mm); Cutter: 69 x 27 x 45 in (1750 x 680 x 1145 mm)
Shipping	Printer: 100 x 30 x 50 in (2541 x 760 x 1250 mm); Cutter: 74 x 19 x 27 in (1880 x 480 x 670 mm)
Weight	
Printer	Printer: 384 lb (174 kg); Cutter: 106 lb (48 kg)
Shipping	Printer: 568 lb (258 kg); Cutter: 152 lb (69 kg)
What's in the box	Printer: HP Latex 315 Printer, printheads, maintenance cartridge, printer stand, spindle, user maintenance kit, edge holders, quick reference guide, setup poster, power cords; Cutter: HP Latex 54 Cutter, cutter stand, media basket, HP FlexiPrint and Cut RIP, HP Cutter Control software, quick reference guide, setup poster, documentation software, power cords, standard holder (1), standard blades (2), cut-off knife (1), 3-in media flanges (set of 2)
Environmental ranges	
Operating temperature	Printer: 59 to 86°F (15 to 30°C); Cutter: 59 to 95°F (15 to 35°C)
Operating humidity	Printer: 20 to 80% RH (non-condensing); Cutter: 35 to 75% RH (non-condensing)
Acoustics	
Sound pressure	Printer: 54 dB(A) (operating), 38 dB(A) (idle), <15 dB(A) (sleep); Cutter: 56 dB(A) (operating)
Sound power	Printer: 7.2 B(A) (operating), 5.5 B(A) (idle), <3.5 B(A) (sleep); Cutter: 7.0 B(A) (operating)
Power	
Consumption	Printer: 2.2 kW (printing), 70 W (ready), <2.5 W (sleep); Cutter: 31 W (working mode)
Requirements	Printer: Input voltage (auto ranging) 200-240 V two wires and PE; 50/60 Hz; two power cords; 3 A max per printer power cord; 13 A max per curing power cord; Cutter: AC 100-240 V; 50/60 Hz, 85 VA max
Certification	
Safety	Printer: IEC 60950-1+A1+A2 compliant; USA and Canada (CSA listed)
Electromagnetic	Printer: Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES)
Environmental	Printer: ENERGY STAR; WEEE; REACH; EPEAT Bronze; OSHA; CE marking compliant
Warranty	Printer: 1 year limited hardware warranty; Cutter: 1 year provided that the HP Latex End of Installation Registration is completed by an HP authorized reseller

Cutting

Cut type	Drag-knife with TurboCut and Tangential emulsion modes
Cut width	53.1 in (135 cm)
Cut speed	Up to 44 in/sec (113 cm/sec) diagonal
Acceleration	Up to 3 G diagonal
Accuracy	0.2% of movement or 0.01 in (0.25 mm), whichever is greater
Repeatability	±0.004 in (0.1 mm)
Cut force	0 to 400 grams of downforce, in 5-gram steps
Cut thickness	0.002 to 0.01 in (0.05 to 0.25 mm); 0.03 in (0.8 mm) with optional sandblast blade

Ordering information

Product

1LH38A	HP Latex 315 Print and Cut Solution
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Accessories

1UX44A	HP Latex Standard Blade Kit
1UX45A	HP Latex Specialty Blade Kit
F0M55A	HP Latex 54-in Printer 2-in Spindle
F0M59A	HP Latex User Maintenance Kit
F0M64A	HP Series 300/500 Edge Holder Kit
W5A60A	HP Latex 54-in Take-up Reel

Original HP printing supplies

CZ677A	HP B31 Cyan/Black Latex Printhead
CZ678A	HP B31 Yellow/Magenta Latex Printhead
CZ679A	HP B31 Light Magenta/Light Cyan Latex Printhead
CZ680A	HP B31 Latex Optimizer Printhead
CZ681A	HP B31 Latex Maintenance Cartridge
CZ682A	HP B31A 775-ml Black Latex Ink Cartridge
CZ683A	HP B31A 775-ml Cyan Latex Ink Cartridge
CZ684A	HP B31A 775-ml Magenta Latex Ink Cartridge
CZ685A	HP B31A 775-ml Yellow Latex Ink Cartridge
CZ686A	HP B31A 775-ml Light Cyan Latex Ink Cartridge
CZ687A	HP B31A 775-ml Light Magenta Latex Ink Cartridge
CZ706A	HP B31 775-ml Latex Optimizer Ink Cartridge

Original HP large format printing materials

HP Permanent Gloss Adhesive Vinyl (REACH certified)²
 HP Backlit Polyester Film³
 HP PVC-free Durable Smooth Wall Paper (REACH², FSC^{®4}, UL GREENGUARD GOLD certified⁵)
 HP Premium Poster Paper³ (FSC[®] certified⁴)

For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

Service and Support

U9PN0E HP 2 year NBD with Defective Media Retention
 U9PN1E HP 3 year NBD with Defective Media Retention
 U9PN4PE HP 1 year Post Warranty NBD with Defective Media Retention
 U9PN5PE HP 2 year Post Warranty NBD with Defective Media Retention

ECO highlights

- Better for printing companies/operators—no special ventilation or HAPs¹
- Better for the end-customer, more differentiation—odorless prints reach more indoor spaces¹
- Better for the environment—HP designs end-to-end sustainability into large-format printing
- HP Latex Inks are UL GREENGUARD GOLD Certified² for wallpaper applications

Please recycle printing hardware and eligible printing supplies. Find out how at our website: <http://www.hp.com/ecosolutions>

¹ Special ventilation equipment (air filtration) is not required to meet U.S. OSHA requirements. Special ventilation equipment installation is at the discretion of the customer—see the Site Preparation Guide for details. Customers should consult state and local requirements and regulations. Contains no Hazardous Air Pollutants according to EPA Method 311. Odorless prints: there is a broad set of media with very different odor profiles. Some of the media can affect the odor performance of the final print.

² UL GREENGUARD GOLD Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit <http://www.ul.com/gg> or <http://www.greenguard.org>.

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⁴ Reflective measurements on a 943 color target under CIE standard illuminant D50, and according to the standard CIEDE2000 as per CIE Draft Standard DS 014-6/E:2012. Backlit substrates measured in transmission mode may yield different results.

⁵ This product does not contain substances listed as SVHC (155) per Annex XIV of the EU REACH directive published as of June 16, 2014 in concentrations exceeding 0.1%. To determine the status of SVHC in HP products, see the HP REACH Declaration published at HP Printing Products and Consumable Supplies.

⁶ 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 <http://www.HPLFMedia.com/hp/ecosolutions> for details.

⁷ BMG trademark license code FSC[®]-C115319, see <http://www.fsc.org>. HP trademark license code FSC[®]-C017543, see <http://www.fsc.org>. Not all FSC[®]-certified products are available in all regions.

⁸ UL GREENGUARD GOLD Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit <http://www.ul.com/gg> or <http://www.greenguard.org>.

