HP Latex 315 Print and Cut Plus Solution

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

Complete HP solution—outstanding print and cut

- The HP Latex printer enables a wide range of odorless applications[1] and full bleed stickers that don't curl.
- The HP Latex cutter provides fast, accurate cutting and downforce up to 600 grams.
- The HP FlexiPRINT and CUT RIP includes True Shape Nesting—automatically save up to 50% more media.[2]
- HP Applications Center design tools are included, for easy creation of new applications in just 3 steps.[3]

Up to 50% time savings with true print AND cut[4]

- Print AND cut at the same time—versus print OR cut integrated devices—with our 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 enables outdoor durability up to 3 years.[5]

Easy and reliable workflow

- Print/cut in a few steps—add cut lines from the RIP, select cutting presets, and easily send to production.
- Accurate job recognition and error-free cutting with HP Barcode and Optical Position System configurations.
- Easy-to-use cutter with a simple touchscreen interface and media basket.

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://lkc.hp.com/

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[1] 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] Compared to printing without nesting. Based on performance demonstration by HP, September 2020.
[3] Requires an HP Applications Center account, Internet connection, and connected Internet-capable device. For more information, see http://www.hpapplicationscenter.com.
[4] Based on internal HP testing, September 2020, comparing the HP Latex Print and Cut Plus Solution with integrated print and cut solutions at a comparable cost. An integrated printer/cutter device is a large-format printer that has a contour cutter embedded in the same printer that prints the media, then moves the media backwards to cut the printed output.
[5] Scratch-resistance comparison based on testing third-generation HP Latex Inks and representative hard-solvent inks on self-adhesive vinyl and PVC banner. HP image permanence estimates by HP Image Permanence Lab. Outdoor display permanence tested according to SAE J2527 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.

Technical specifications

Print

Printing modes	517 ft²/hr – Billboard (2 pass) 174 ft²/hr – Outdoor Plus (6 pass) 129 ft²/hr – Indoor Quality (8 pass) 108 ft²/hr – Indoor High Quality (10 pass) 65 ft²/hr – Backlits, Textiles, and Canvas (16 pass) 54 ft²/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 rolls (23 to 54-in rolls with full support)
Maximum roll weight	55 lb
Maximum roll diameter	7.1 in
Thickness	Up to 19.7 mil
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; Cutter: 69.5 x 27.7 x 43.8 in
Shipping	Printer: 100 x 30 x 49.3 in; Cutter: 87.8 x 16.5 x 28 in

Weight

Printer	Printer: 384 lb; Cutter: 96 lb
Shipping	Printer: 568 lb; Cutter: 156.5 lb

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, quick reference guide, setup poster, 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 86ºF; Cutter: 59 to 95ºF
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: 55 dB(A) (operating)
Sound power	Printer: 7.2 B(A) (operating), 5.5 B(A) (idle), <3.5 B(A) (sleep); Cutter: <7.1 B(A) (operating)

Power

Consumption	Printer: 2.2 kW (printing), 70 W (ready), <2.5 W (sleep); Cutter: 34 W (working mode)
Requirements	Printer: input voltage (auto ranging) 200-240 V (±10%) two wires and PE; 50/60 Hz (±3 Hz); two power cords; 3 A max for printer cord and 13 A max for curing cord; Cutter: AC 100-240 V; 50/60 Hz; 2 A

Certification

Safety	IEC 60950-1+A1+A2 compliant; IEC 62368-1 compliant; USA and Canada (CSA listed); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, and Kazakhstan (EAC); China (CCC)
Electromagnetic	Printer: Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), Japan (VCCI), Korea (KCC), Russia, Belarus, and Kazakhstan (EAC), China (CCC); Cutter: Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), Japan (VCCI), Korea (KCC)
Environmental	Printer: ENERGY STAR; WEEE; RoHS (EU, China, Korea, India, Ukraine, Turkey); REACH; EPEAT Bronze; OSHA; CE marking compliant; Cutter: WEEE, RoHS (EU); CE marking compliant; REACH

Warranty

Warranty	One-year limited hardware warranty

Cutting

Cut type	Drag-knife with TurboCut and Tangential emulation modes
Cut width	53.1 in
Cut speed	Up to 44 in/sec diagonal
Acceleration	Up to 3 G diagonal
Accuracy	0.2% of movement or 0.01 in, whichever is greater
Repeatability	±0.004 in
Cut force	1 to 600 grams of downforce, in 5-gram steps
Cut thickness	0.002 to 0.01 in; 0.024 in with optional speciality blade

Ordering information

Product

9TL95A	HP Latex 315 Print and Cut Plus Solution

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 831 Cyan/Black Latex Printhead
CZ678A	HP 831 Yellow/Magenta Latex Printhead
CZ679A	HP 831 Light Magenta/Light Cyan Latex Printhead
CZ680A	HP 831 Latex Optimizer Printhead
CZ681A	HP 831 Latex Maintenance Cartridge
CZ682A	HP 831A 775-ml Black Latex Ink Cartridge
CZ683A	HP 831A 775-ml Cyan Latex Ink Cartridge
CZ684A	HP 831A 775-ml Magenta Latex Ink Cartridge
CZ685A	HP 831A 775-ml Yellow Latex Ink Cartridge
CZ686A	HP 831A 775-ml Light Cyan Latex Ink Cartridge
CZ687A	HP 831A 775-ml Light Magenta Latex Ink Cartridge
CZ706A	HP 831 775-ml Latex Optimizer Ink Cartridge

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

[1] 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.