



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 applications¹ 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 cut⁴

- 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://hpllatexknowledgecenter.com/>

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

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| Print | |
| Printing modes | 48 m ² /hr - Billboard (2 pass) 16 m ² /hr - Outdoor Plus (6 pass) 12 m ² /hr - Indoor Quality (8 pass) 10 m ² /hr - Indoor High Quality (10 pass) 6 m ² /hr - Backlits, Textiles, and Canvas (16 pass) 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 colours ≤ 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 | 254 to 1371-mm rolls (580 to 1371-mm rolls with full support) |
| Roll weight | 25 kg |
| Roll diameter | 180 mm |
| Thickness | 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; Customisable 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: 2307 x 840 x 1380 mm; Cutter: 1765 x 704 x 1112 mm |
| Shipping | Printer: 2541 x 760 x 1250 mm; Cutter: 2230 x 420 x 710 mm |
| Weight | |
| Printer | Printer: 174 kg; Cutter: 43.5 kg |
| Shipping | Printer: 257.5 kg; Cutter: 71 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, 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: 15 to 30°C; Cutter: 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: 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; EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, and Kazakhstan (EAC) |
| 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 | |
| | One-year limited hardware warranty |

Cutting

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| Cut type | Drag-knife with TurboCut and Tangential emulation modes |
| Cut width | 135 cm |
| Cut speed | Up to 113 cm/sec diagonal |
| Acceleration | Up to 3 G diagonal |
| Accuracy | 0.2% of movement or 0.25 mm, whichever is greater |
| Repeatability | ±0.1 mm |
| Cut force | 1 to 600 grams of downforce, in 5-gram steps |
| Cut thickness | 0.05 to 0.25 mm; 0.6 mm with optional speciality blade |

Ordering information

Product

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| 9TL95A | HP Latex 315 Print and Cut Plus Solution |
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Accessories

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| 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

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| 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 |
| CZ694A | HP 831C 775-ml Black Latex Ink Cartridge |
| CZ695A | HP 831C 775-ml Cyan Latex Ink Cartridge |
| CZ696A | HP 831C 775-ml Magenta Latex Ink Cartridge |
| CZ697A | HP 831C 775-ml Yellow Latex Ink Cartridge |
| CZ698A | HP 831C 775-ml Light Cyan Latex Ink Cartridge |
| CZ699A | HP 831C 775-ml Light Magenta Latex Ink Cartridge |
| CZ706A | HP 831 775-ml Latex Optimizer Ink Cartridge |

Service and Support

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| U9PNOE | HP 2 year NBD with Defective Media Retention |
| U9PNI E | 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

- Water-based ink—no special ventilation, HAPs, reactive monomer chemistry, or ozone¹
- Low-emission UL GREENGUARD Gold², reduced-impact Zero Discharge of Hazardous Chemicals (ZDHC)³
- Free ink cartridge/printhead take back; recyclable, returnable, or non-hazardous disposal prints⁴
- ENERGY STAR⁵ certified for superior energy efficiency

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

¹ No special ventilation equipment means air filtration systems are not required to meet U.S. OSHA requirements. Condensate collection systems are provided on some models. 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. HP Latex Inks were tested for Hazardous Air Pollutants, as defined in the Clean Air Act, per U.S. Environmental Protection Agency Method 311 (testing conducted in 2013) and none were detected. Printing with HP Latex Inks avoids the problematic reactive monomers associated with UV printing. Acrylate monomers present in uncured UV inks and UV-gel inks can damage skin.

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. Unrestricted room size—full decorated room, 33.4 m³ (360 ft³) in an office environment, 94.6 m³ (1,018 ft³) in a classroom environment. For more information, visit <http://www.ul.com/gg> or <http://www.greenguard.org>.

³ Applicable to HP Latex Inks. The ZDHC Roadmap to Zero Level 1 demonstrates that an ink conforms to or meets the standards of the ZDHC Manufacturing Restricted Substances List (ZDHC MRSLS) 1.1, a list of chemical substances banned from intentional use during production. ZDHC is an organization dedicated to eliminating hazardous chemicals and implementing sustainable chemicals in the leather, textile, and synthetics sectors. The Roadmap to Zero Program is a multi-stakeholder organization which includes brands, value chain affiliates, and associates, that work collaboratively to implement responsible chemical management practices. See <http://www.roadmaptozero.com>.

⁴ Visit <http://www.hp.com/go/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, and for other consumables not included in the program, consult your local waste authorities on appropriate disposal. Most HP large format paper-based printing materials can be recycled through commonly available recycling programs, or according to region-specific practices. Some HP media are eligible for return through the free, convenient HP Large Format Media take-back program. Programs may not exist in your area. See <http://www.HPLFMedia.com/ecosolutions> for details.

⁵ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. See <http://www.energystar.gov> for certification status by country.

¹ Reflective measurements on a 943 colour 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.

