

Overview

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

Work two times faster^[4] with an efficient, end-to-end solution that lets you print AND cut at the same time vs print OR cut integrated devices. Improve each step of the process from versatile printing to fast cutting to application design.^[3]

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.

Easy and reliable workflow

Print/cut in a few steps—add cut lines from the RIP, select cutting presets, and easily send to production.

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.

[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.

[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.

Specifications

Print quality color (best)	Up to 1200 x 1200 dpi
Connectivity, standard	Printer: Gigabit Ethernet (1000Base-T); Cutter: USB and Ethernet (LAN)
Software included	HP FlexiPrint and Cut RIP
Energy star certified	Printer: yes; Cutter: no
Minimum dimensions (W x D x H)	Printer: 2307 x 840 x 1380 mm; Cutter: 1765 x 704 x 1112 mm
Minimum dimensions (W x D x H)	Printer: 91 x 33 x 54 in; Cutter: 69.5 x 27.7 x 43.8 in
Weight	Printer: 174 kg; Cutter: 43.5 kg
Weight	Printer: 384 lb; Cutter: 96 lb
Power consumption	Printer: 2.2 kW (printing), 70 W (ready), <2.5 W (sleep); Cutter: 34 W (working mode) <i>(Printer: Two power cords, single phase / two wires and PE; Cutter: one power cord, single phase / two wires and PE)</i>
Environmental certification	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
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)
Manufacturer Warranty	One-year limited hardware warranty

Additional specifications

Acceleration	Up to 3 G diagonal
Accuracy	0.2% of movement or 0.01 in, whichever is greater
Accuracy	0.2% of movement or 0.25 mm, whichever is greater
Acoustic power emissions (active, printing)	Printer: 7.2 B(A) (operating), 5.5 B(A) (idle), <3.5 B(A) (sleep); Cutter: <7.1 B(A) (operating)
Acoustic pressure emissions	Printer: 54 dB(A) (operating), 38 dB(A) (idle), <15 dB(A) (sleep); Cutter: 55 dB(A) (operating)
Color(s) of printing supplies	Black, cyan, light cyan, light magenta, magenta, yellow, HP Latex Optimizer
Cut force	1 to 600 grams of downforce, in 5-gram steps
Cut speed	Up to 113 cm/sec diagonal
Cut speed	Up to 44 in/sec diagonal
Cut thickness	0.002 to 0.01 in; 0.024 in with optional speciality blade
Cut thickness	0.05 to 0.25 mm; 0.6 mm with optional speciality blade
Cut type	Drag-knife with TurboCut and Tangential emulation modes
Cut width	53.1 in
Cut width	135 cm
Electromagnetic compatibility	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)
Finished output handling	Roll feed, take-up reel (optional), automatic cutter (for vinyl, paper-based media, backlit polyester film)
Ink types	Water-based HP Latex Inks
Maximum print speed	87 m ² /hr
Maximum print speed	930 ft ² /hr
Media sizes standard (metric rolls)	254 to 1371-mm rolls (580 to 1371-mm rolls with full support)
Media sizes standard (sheets, rolls)	10 to 54-in rolls (23 to 54-in rolls with full support)
Media thickness	Up to 19.7 mil
Media thickness	Up to 19.7 mil
Media thickness (metric)	Up to 0.5 mm
Media types	Banners, self-adhesive vinyls, films, papers, wallcoverings, canvas, synthetics, (fabrics, mesh, textiles, and any other porous materials require a liner)
Media width, maximum	1371 mm
Media width, maximum	54 in

Model size	54 in
Model size	1371 mm
Non-Operating Humidity Range	Printer: 20 to 90% RH (non-condensing)
Number of print cartridges	7 (black, cyan, light cyan, light magenta, magenta, yellow, HP Latex Optimizer)
Operating humidity range	Printer: 20 to 80% RH (non-condensing); Cutter: 35 to 75% RH (non-condensing)
Operating temperature range	Printer: 59 to 86°F; Cutter: 59 to 95°F
Operating temperature range	Printer: 15 to 30°C; Cutter: 15 to 35°C
Package dimensions (W x D x H)	Printer: 2541 x 760 x 1250 mm; Cutter: 2230 x 420 x 710 mm
Package dimensions (W x D x H)	Printer: 100 x 30 x 49.3 in; Cutter: 87.8 x 16.5 x 28 in
Package weight	Printer: 568 lb; Cutter: 156.5 lb
Package weight	Printer: 257.5 kg; Cutter: 71 kg
Power	Printer: input voltage (auto ranging) 200-240 V ($\pm 10\%$) 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
Print Technology	Ink
Print cartridge volume delivered	775 ml
Print heads	6 (2 cyan/black, 2 magenta/yellow, 1 light cyan/light magenta, 1 HP Latex Optimizer)
Print repeatability	Average ≤ 1 dE2000, 95% of colors ≤ 2 dE2000[1]
Print repeatability note	The color variation inside a printed job has been measured at 10 pass mode on vinyl media within this limit: maximum color difference (95% of colors) ≤ 2 dE2000. 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. 5% of colors may experience variations above 2 dE2000. Backlit substrates measured in transmission mode may yield different results.
Print speed	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 speed	517 ft ² /hr - Billboard (2 pass); 174 ft ² /hr - Outdoor Plus (6 pass); 129 ft ² /hr - Indoor Quality (8 pass); 108 ft ² /hr - Indoor High Quality (10 pass); 65 ft ² /hr - Backlits, Textiles, and Canvas (16 pass); 54 ft ² /hr - High Saturation Textiles (20 pass)
Print technology	HP Latex Printing Technologies
Product logos	CE marking; ENERGY STAR; EPEAT Bronze; GREENGUARD Gold; HP water-based technology; ZDHC black
Repeatability	± 0.004 in
Repeatability	± 0.1 mm
Roll external diameter	7.1 in
Roll external diameter	180 mm

Roll maximum input	1
Roll maximum weight	55 lb
Roll maximum weight	25 kg
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)
Sub-brand name	Latex
Supported Primary 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
UNSPSC code	23153405
UPC number	(ABG) 195122173166; (B19) 195122173173; (B1K) 195122173180; (BCD) 195122173197
Web address for additional information	http://www.hp.com/go/latex315printandcut

Ink Supplies

★ : Recommended

HP Graphic Arts Inks/Printheads

HP 831 775-ml Latex Optimizer Ink Cartridge	CZ706A
HP 831 775-ml Latex Optimizer Ink Cartridge	CZ706AB
HP 831 Cyan/Black Latex Printhead	CZ677A
HP 831 Latex Maintenance Cartridge	CZ681A
HP 831 Latex Optimizer Printhead	CZ680A
HP 831 Light Magenta/Light Cyan Latex Printhead	CZ679A
HP 831 Yellow/Magenta Latex Printhead	CZ678A
HP 831A 775-ml Black Latex Ink Cartridge	CZ682A
HP 831A 775-ml Black Latex Ink Cartridge	CZ682AB
HP 831A 775-ml Cyan Latex Ink Cartridge	CZ683A
HP 831A 775-ml Cyan Latex Ink Cartridge	CZ683AB
HP 831A 775-ml Light Cyan Latex Ink Cartridge	CZ686A
HP 831A 775-ml Light Cyan Latex Ink Cartridge	CZ686AB
HP 831A 775-ml Light Magenta Latex Ink Cartridge	CZ687A
HP 831A 775-ml Light Magenta Latex Ink Cartridge	CZ687AB
HP 831A 775-ml Magenta Latex Ink Cartridge	CZ684A
HP 831A 775-ml Magenta Latex Ink Cartridge	CZ684AB
HP 831A 775-ml Yellow Latex Ink Cartridge	CZ685A
HP 831A 775-ml Yellow Latex Ink Cartridge	CZ685AB
HP 831B 775-ml Black Latex Ink Cartridge	CZ688A
HP 831B 775-ml Cyan Latex Ink Cartridge	CZ689A
HP 831B 775-ml Light Cyan Latex Ink Cartridge	CZ692A
HP 831B 775-ml Light Magenta Latex Ink Cartridge	CZ693A
HP 831B 775-ml Magenta Latex Ink Cartridge	CZ690A
HP 831B 775-ml Yellow Latex Ink Cartridge	CZ691A
HP 831C 775-ml Black Latex Ink Cartridge	CZ694A
HP 831C 775-ml Cyan Latex Ink Cartridge	CZ695A
HP 831C 775-ml Light Cyan Latex Ink Cartridge	CZ698A
HP 831C 775-ml Light Magenta Latex Ink Cartridge	CZ699A
HP 831C 775-ml Magenta Latex Ink Cartridge	CZ696A

Accessories

Paper Handling

★ : Recommended

Spindles

HP Latex 54-in Printer 2-in Spindle

F0M55A

Take-up Reels

HP Latex 54-in Take-up Reel

W5A60A

Paper Finishing Accessories

HP Latex Specialty Blade Kit

1UX45A

HP Latex Standard Blade Kit

1UX44A

Media Loading Accessories

HP Series 300/500 Edge Holder Kit

F0M64A

Maintenance and Cleaning Kits

Maintenance Kits

HP Latex User Maintenance Kit

F0M59A

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