



# HP Latex R Printer Series

Substrate Edge Holder Kit  
Introductory Information



# HP Latex R Printer Series Substrate Edge Holder Kit

## Introductory Information

### What is it?

The substrate edge holders keep the substrate in place during printing to prevent damage to the substrate, carriage, and printheads.

This document is a supplement to the main HP Latex R Printer Series documentation. It includes legal notices, safety instructions, power specifications, warranty statement, and declaration of conformity.

For more information, see your other HP Latex R Printer Series documentation.

### Where is the user guide?

The user guide for your printer and this accessory can be downloaded from:

- [www.hp.com/go/latexR1000/manuals](http://www.hp.com/go/latexR1000/manuals)
- [www.hp.com/go/latexR2000/manuals](http://www.hp.com/go/latexR2000/manuals)

Further information is available from:

- [www.hp.com/go/latexR1000/support](http://www.hp.com/go/latexR1000/support)
- [www.hp.com/go/latexR2000/support](http://www.hp.com/go/latexR2000/support)

Videos and more information about how to use the printer can be found in:

- <http://www.hp.com/support/videos>
- <http://www.youtube.com/HPSupportAdvanced>
- <http://www.hp.com/go/latexR1000/training>
- <http://www.hp.com/go/latexR2000/training>

## Legal notices

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## Safety precautions

Before using your accessory, read, understand, and follow these safety precautions, and your local Environmental, Health, and Safety regulations. You are expected to have the appropriate technical training and experience necessary to be aware of hazards to which you may be exposed in performing a task, and take appropriate measures to minimize the risks to yourself and to other people.



**IMPORTANT:** Read and follow all safety precautions before installing and/or using any HP Latex R printer accessory.

**IMPORTANT:** Check compatibility and incompatibility between different HP Latex R printer accessories before any installation. This information can be found in the user guide at <http://www.hp.com/go/latexR1000/manuals> and <http://www.hp.com/go/latexR2000/manuals>.

## General safety guidelines



**WARNING!** The information provided by the printer status beacon is for informational purposes only, and is not related to any safety provision or safety states. Warning labels on the printer must be always be considered when operating the printer, regardless of the status indicated by the printer status beacon.



**WARNING!** Two Internal Print Server touchscreens are available on the printer. Never operate the printer at the same time from both touchscreens. Ensure there is nobody engaged in any printer work or maintenance before launching any control command on either of the touchscreens.

Turn off the printer, using the branch circuit breakers located in the building's Power Distribution Unit (PDU), and call your service representative in any of the following cases:

- The power cord is damaged.
- The drying or curing enclosures are damaged.
- The printer has been damaged by an impact.
- Liquid has entered the printer.
- There is smoke or an unusual smell coming from the printer.
- The printer's built-in Residual Current Circuit Breaker (Ground Fault Circuit Interrupter) has been repeatedly tripped.
- Fuses have blown.
- The printer is not operating normally.
- There is any mechanical or enclosure damage.

Also turn off the printer using the branch circuit breakers in either of the following cases:

- During a thunderstorm
- During a power failure

Take special care with zones marked with warning labels.

There are no operator-serviceable parts inside the printer except those covered by HP's Customer Self Repair program (see <http://www.hp.com/go/selfrepair>). Refer servicing of other parts to qualified service personnel.

## Important operating notes



**WARNING!** Never leave the printer without supervision when the power switch is turned on.



**CAUTION:** Automatic white-ink system maintenance cannot occur when the printer is completely powered down. If the printer will be unused for a long period of time (more than 48 hours), leave only the white-ink switch turned on, and follow the instructions in the user guide about power on/off modes.

## Electrical shock hazard



**WARNING!** The internal circuits and the drying and curing modules operate at hazardous voltages capable of causing death or serious personal injury.

Turn off the printer using the branch circuit breakers located in the building's Power Distribution Unit (PDU) before servicing the printer. The printer must be connected to earth at mains outlets only.

To avoid the risk of electric shock:

- Do not attempt to dismantle the drying and curing modules, or the e-cabinet, except during hardware maintenance tasks. In that case, follow the instructions strictly.
- Do not remove or open any other closed system covers or plugs.
- Do not insert objects through slots in the printer.
- Test the functionality of the Residual Current Circuit Breaker (RCCB) every year (see the procedure below).



**NOTE:** A blown fuse may indicate malfunctioning electrical circuits within the system. Call your service representative, and do not attempt to replace the fuse yourself.

## Checking the functionality of the Residual Current Circuit Breakers

Following standard Residual Current Circuit Breaker (RCCB) recommendations, it is recommended that the RCCBs are tested on a yearly basis. The procedure is as follows:

1. Turn off the built-in computer using the Internal Print Server's **Shutdown** button. Do not turn off the printer from the mains switch or the circuit breakers.



**CAUTION:** The shutdown process takes some time to complete. Wait until the green power-enabled light is off before proceeding.

2. Once the computer is off, test that the RCCB works correctly by pressing the test button.
  - If the RCCB does not trip when the test button is pressed, this indicates that it has failed. The RCCB must be replaced for safety reasons; call your service representative to remove and replace the RCCB.
  - If the RCCB trips, this indicates that it is working correctly; reset the RCCB to its normal on state.

## Fire hazard

The drying and curing subsystems of the printer operate at high temperatures. Call your service representative if the printer's built-in Residual Current Circuit Breaker (Ground Fault Circuit Interrupter) is repeatedly tripped. To avoid the risk of fire, take the following precautions:

- Use the power supply voltage specified on the nameplate.
- Connect the power cords to dedicated lines, each protected by a branch circuit breaker as explained in the site preparation guide.
- Do not insert objects through slots in the printer.
- Take care not to spill liquid on the printer. After cleaning, make sure all components are dry before using the printer again.
- Do not use aerosol products that contain flammable gases inside or around the printer. Do not operate the printer in an explosive atmosphere.
- Do not block or cover the openings of the printer.
- Do not attempt to modify the drying or curing module, or the e-cabinet.
- Ensure that the operating temperature of the substrate recommended by the manufacturer is not exceeded. If this information is not available, ask the manufacturer. Do not load substrates that cannot be used at an operating temperature above 125°C (257°F).
- Do not load substrates with auto-ignition temperatures below 250°C (482°F). See note below. No ignition sources are close to the substrate.



**NOTE:** Test method based on EN ISO 6942:2002: *Evaluation of materials and material assemblies when exposed to a source of radiant heat, method B*. The test conditions, to determine the temperature when the substrate starts ignition (either flame or glow) were: Heat flux density: 30 kW/m<sup>2</sup>, Copper calorimeter, K type thermocouple.

- Proper maintenance and genuine HP consumables are required to ensure that the printer operates safely as designed. The use of non-HP consumables (foams, filters, printhead cleaner roll, and inks) may present a risk of fire.
- The LED array supports, beam, and enclosures can reach high temperatures. To avoid the risk of fire, take the following precautions:
  - Take special care with zones marked with warning labels.
  - Do not place objects covering the LED array supports, beam, or enclosures.
  - Take care not to spill liquid on the accessory. After cleaning, make sure all components are dry before using the printer.
  - Do not attempt to modify the LED array supports, beam, or enclosures.

## Heat hazard

The drying and curing subsystems of the printer operate at high temperatures and can cause burns if touched. LED array (optional) supports, beam, and enclosures can reach high temperatures. To avoid the risk of burns, take the following precautions:

- Do not touch the internal enclosures of the printer's drying and curing modules, nor the vapor removal thermal blankets.
- Take special care when accessing the substrate path.
- Take special care with zones marked with warning labels.
- Do not place objects covering the LED array supports, beam, or enclosures.
- Do not attempt to modify the LED array supports, beam, or enclosures.
- Ensure that the printer has cooled down before mounting or disassembling the substrate edge holders.
- Ensure that the printer has cooled down before performing some maintenance operations.

## Mechanical hazard

The printer has moving parts that could cause injury. To avoid personal injury, take the following precautions when working close to the printer and in-line slitters:

- Keep your clothing and all parts of your body away from the printer's moving parts.
- Avoid wearing necklaces, bracelets, and other hanging objects.
- If your hair is long, try to secure it so that it will not fall into the printer.
- Take care that sleeves or gloves do not get caught in the printer's moving parts.
- Avoid standing close to the fans, which could cause injury and could also affect print quality (by obstructing the air flow).
- Do not touch gears or moving rolls during printing.
- Do not operate the printer with covers bypassed.
- Do not touch alignment or lateral bars during printing.
- Use personal protective equipment to manipulate rigid substrates and the substrate edge holders.

 **WARNING!** Take care when loading or collecting substrate, and never put your hands below the alignment bar, drying beam, or curing modules after giving the command to print. Those parts may move and adjust automatically and can cause you serious injuries.

- Before mounting the alignment bar extenders, ensure that the alignment bar is well positioned at its highest position and is not moving at all. There is a risk of trapping your fingers in the gaps.
- For the roll printing kit accessory: Take care when using the air gun. When used for cleaning purposes, make sure to use it according to local regulations: additional safety provisions may apply.
- Ensure that the tables are properly latched to the printer before using them. Before unlatching the table always clear it, remove and store both drop-in rollers in position before folding the table.

### Light radiation hazard

UV radiation can be emitted from the LED array in compliance with the requirements of the exempt group of IEC 62471:2006: *Photobiological safety of lamps and lamp systems*. Optical barriers are used to determine the presence. However, you are recommended not to look directly for a long time at the output LEDs while they are on.

### Sound pressure level

The sound pressure level could exceed 70 dBA in some print modes. Hearing protection may be required.

### Chemical hazard

Safety data sheets identify ink ingredient and ventilation requirements to ensure any airborne exposure is adequately controlled.

Current printer ink systems material safety data sheets are available at: <http://www.hp.com/go/msds>.

Air conditioning and ventilation should meet local environmental and health and safety (EHS) guidelines and regulations. For more detailed information, see the "Ventilation and air conditioning" section included in the site preparation guide, available at: <http://www.hp.com/go/latexR1000/manuals> and <http://www.hp.com/go/latexR2000/manuals>.

### Heavy substrate hazard

Special care must be taken to avoid personal injury when handling heavy substrates.

- Handling heavy substrate rolls always requires two people. Care must be taken to avoid back strain and/or injury.
- Always use a forklift, pallet truck, or other handling equipment to lift substrates. The printer has been designed to be compatible with many of these devices.
- Always wear personal protective equipment including boots and gloves.

### Ink handling and condensates

HP recommends that you wear gloves when handling ink system components and condensates.

### Ventilation and air conditioning

As with all equipment installations, to maintain ambient comfort levels, air conditioning and ventilation in the work area should take into account that the printer produces heat.

Air conditioning and ventilation should meet local environmental, health, and safety (EHS) guidelines and regulations.

For a more prescriptive approach to adequate ventilation, refer to the ANSI/ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 62.1-2013: *Ventilation for Acceptable Indoor Air Quality*. An example minimum exhaust rate of 2.5 L/s.m<sup>2</sup> (0.5 cfm/ft<sup>2</sup>) of fresh air for "copy, printing rooms" is specified.



**NOTE:** The ventilation and air conditioning units should not blow air directly onto the printer.



**NOTE:** Maintaining positive air pressure in the print production room will help to prevent dust from entering the room.

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## Warranty statement

HP warrants to you, the end-user customer, that HP large-format printing accessories are free from defects in materials and workmanship. If HP receives notice of such defects during the warranty period (up to 90 days from date of purchase\*), HP will, at its option, either replace products that prove to be defective with the same or comparable product at HP's option, or HP may elect to refund your purchase price. This warranty will be voided by misuse, improper physical environment, accident, or improper maintenance. If you need warranty support during the warranty support period, you can locate your nearest HP support location here: <http://www.hp.com/support>.

To the extent allowed by local law, the above warranty is exclusive; no other warranty or condition, whether written or oral, is expressed or implied, and HP specifically disclaims any implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. To the extent allowed by local law, in no event will HP or its suppliers be liable for direct, special, incidental, consequential (including lost profit or data), or other damage, whether based on contract, tort, or otherwise. The warranty terms contained in this statement, except to the extent lawfully permitted, do not exclude, restrict, or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

\* Proof of purchase required. Customers should retain a copy of the purchase order (PO). When submitting a claim, attach a copy of the PO including the name of the company from which the accessory was purchased, the purchase date, and the PO number.

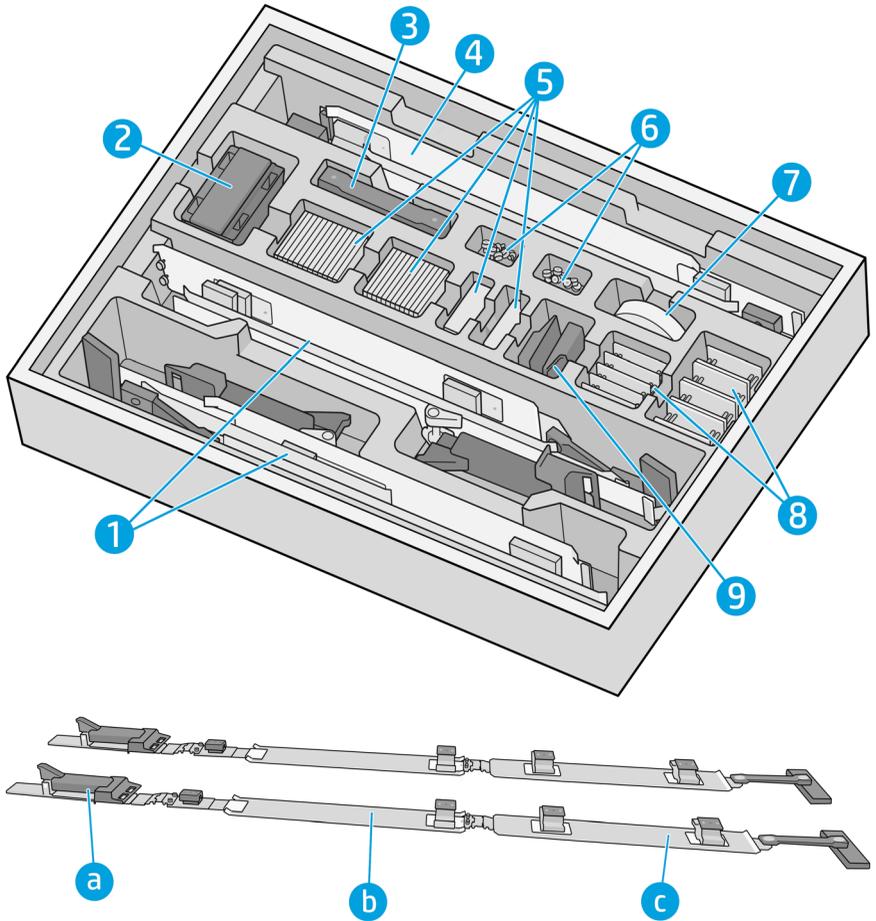
## Substrate edge holders setup

The purpose of the substrate edge holders is to prevent the substrate edges from lifting up and jamming while printing. If you experience this kind of problem while printing, you can try using the edge holders to overcome it.

See a video of edge holders setup and usage at [http://www.hp.com/go/latexRseries/use\\_edge\\_holders](http://www.hp.com/go/latexRseries/use_edge_holders).



## Contents of the kit



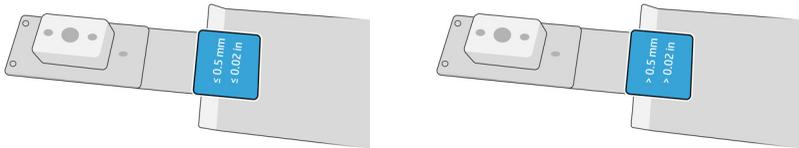
1. Substrate edge holders:
  - a. Input module
  - b. Print-zone module labelled  $\leq 0.5 \text{ mm}$  (0.02 in)
  - c. Output module
2. Alignment-bar extenders
3. Extra straps
4. Print-zone modules labelled  $> 0.5 \text{ mm}$  (0.02 in)
5. Shims
6. Screws and nuts

7. Extra-low-friction protective film
8. Bases for shims
9. Back ends (2)

## Setup procedure

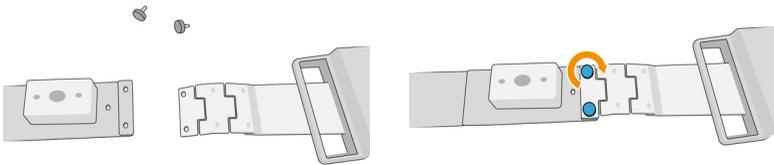
The edge holders must be assembled before use.

The parts shown in the illustrations are provided in the substrate edge holder kit. The print-zone module should be chosen according to the thickness of the substrate that you intend to use. Look at the label on each print-zone module to identify the one you need.

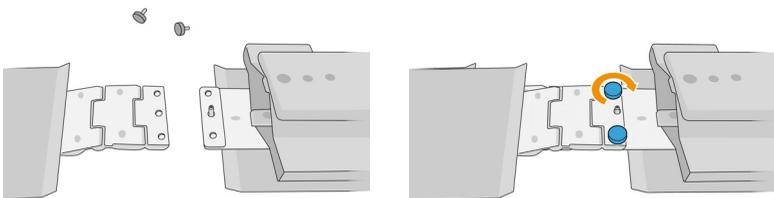


To assemble the edge holders, look for a flat surface on which to place the parts.

1. Pick up the print-zone module that you have decided to use, and unfold the hinge.
2. Overlap an input module with the print-zone module and attach the two parts with the screws provided.



3. Repeat the operation at the other end of the print-zone module, to attach it to the output module.



4. Repeat both operations to assemble the second edge holder.

Once the edge holders are assembled, they can be kept in the box provided.



**IMPORTANT:** If you are working with substrates thicker than 0.5 mm (0.02 in), there are shims to be installed on the edge holders that help you to handle thicker substrates. See the printer's user guide for more information about this installation process.



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