

HP Scitex FB950 Printer Site Preparation Guide



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Preparing for your new printer

Electrical power

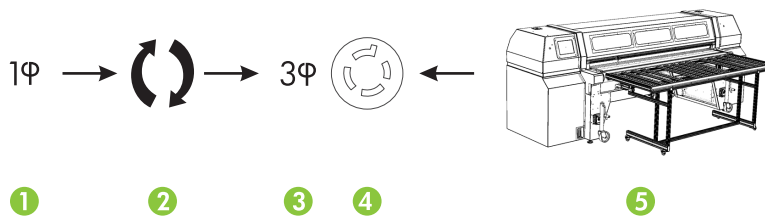
The required electric circuit must be installed by a qualified electrician before the printer can be installed (see [Table 2 Specifications on page 4](#)). The printer is supplied with the required power cord, which must not be lengthened or connected to an extension cord.

The printer requires “three-phase power.” Three-phase power provides a more efficient means of supplying large electrical loads than single-phase power, which is common in offices and homes.

- If **three-phase** power is supplied by your local electric utility to your facility, have a qualified electrician install the receptacle specified in [Table 2 Specifications on page 4](#) to the three-phase circuit that the printer will use.
- If **single-phase** power is supplied to your facility, purchase a phase converter to convert your building’s single-phase power to three-phase power, and have it installed by a qualified electrician prior to the printer’s installation date.

For locations that receive single-phase, 60 Hz electric service (such as the United States), the recommended phase converter for the printer is: “Phase Perfect” Digital Phase Converter, Model DPC-A10, Phase Technologies, LLC, 1141 Rand Rd. Unit A, Rapid City, SD 57702. Web: <http://www.phaseperfect.com>. Phone to buy, or to find your local distributor: 1-866-250-7934 or 1-605-343-7934. By special arrangement with the manufacturer, you are eligible for a discounted price and technical support on this product. To obtain the discount and support, mention that you will be using the converter with a Hewlett-Packard printer.

With this phase converter, when the printer is installed, the printer’s power cord must be modified with a new plug; order part number CH242A (HP,SCITEX,FB900,PHASE_CONVERTER_PLUG, KIT) for delivery prior to the printer installation date.



1. Single-phase 60 Hz input power from electric utility
2. Phase Perfect Digital Phase Converter
3. Three-phase output power
4. NEMA L15-20R receptacle
5. Printer cord modified with Field Modification Kit CH242A

The AC input provided to the printer must be clean and constant at the specified voltage and frequency. If your facility is subject to electric power brownouts, blackouts, or surges, Hewlett-Packard recommends the use of a backup power system, or uninterruptible power supply (UPS), to ensure that the AC input

power to the printer is continuously within specifications. The UPS must be a 3-phase UPS capable of sourcing a minimum of 6000 VA, at a voltage in the range of 200-240 VAC, 50/60 Hz, and a maximum current rating of 16 Amps per phase. The UPS must have the proper plug and receptacle (see the Specifications below for details). Connect the UPS to the facility wall outlet, and connect the printer power cord to the UPS.

Receiving the printer

A fork lift truck with 114 cm (45 in) forks and a receiving dock are required to receive the printer from the shipper. Receiving the printer at ground level is not practical. The shipping crate is designed for fork lift handling: it can be pushed or pulled from the ends, or lifted from the sides as needed. After unpacking, dispose of the wood packaging according to local regulations. After unpacking, use the shipping casters to move the printer, or lift the printer with a fork lift at the marked lift points.

- △ **CAUTION:** Due to its physical dimensions and weight, the printer cannot be moved through building areas that cannot accommodate a fork lift, such as stairways or standard passenger elevators, or through doorways that are less than the width of the printer. Lifting the printer without a forklift could result in serious physical injury or death, and/or cause severe damage to the printer.

Use the following dimensions and weights as you plan to receive and move the printer to its final location.

Table 1 Shipping dimensions and weight

Length	434.3 cm (171.0 in)
Depth	160.0 cm (63.0 in)
Height	181.6 cm (71.5 in)
Weight	1122 kg (2473 lb)

An Authorized Service Provider will install the printer. Depending on the space available at your location, you can either unpack and assemble the printer in your receiving area, then move the printer on its wheels to your production area, or move the shipping container unopened to your production area, and unpack and assemble it there. A technical representative will work with you in advance to plan for receiving, unpacking, and assembling the printer.

The printer must be installed on a flat and stable floor that can safely support the weight of the printer, input and output tables, media, supplies, and operator. During installation, the printer and media tables will be leveled to ensure accurate media feeding.

The printer and table feet can be adjusted to compensate for a maximum floor slope (elevation change) of 5.6 cm (2.2 in) over the printer width of 457 cm (180 in), and 5.1 cm (2.0 in) over the printer depth of 300 cm (118 in).

Space requirements

Allow enough space around all sides of the printer to load and unload ink and media, and operate the control panel.

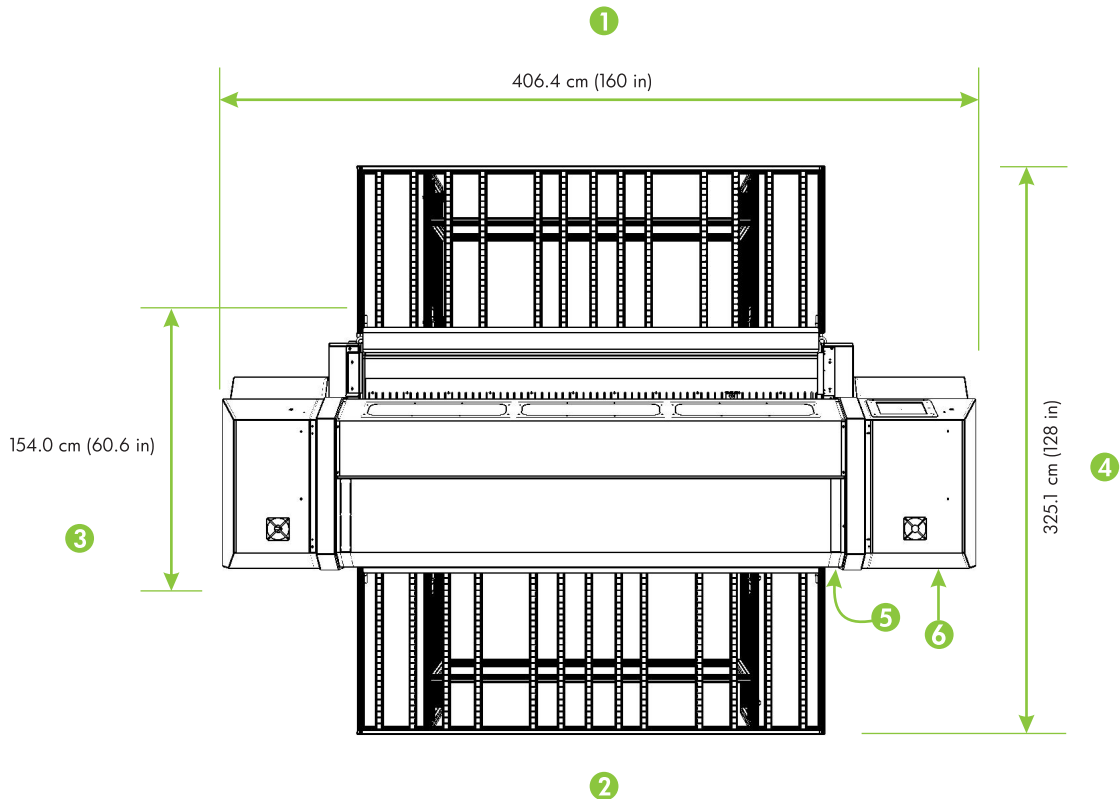
The rigid cut-sheet workflow requires some space planning for operator movement between the blank media stock (pallets or tables), the printer when loading media, operating the printer, and unloading media. Cut sheets are loaded from the input side of the printer.

Locate the printer within 1.5 m (5 ft) from the service end, or 3.7 m (12 ft) from the user end, to the facility power outlet or power drop. The main and auxiliary power cords connect to inlets on the electronics box

at the user end of the printer. An extension cord should not be used with the main power cable, but may be used with the auxiliary power cord if necessary. A power drop from the ceiling may be used.

△ **CAUTION:** The socket outlet must be installed near the printer and be easily accessible.

For further details, see the diagram below and the dimensions shown in [Table 2 Specifications on page 4](#)



1. Input side
2. Output side
3. Service end
4. User end
5. Power cord inlet
6. Vacuum system auxiliary power outlet

💡 **TIP:** When moving the printer within a building using the shipping casters (tongue jacks) and hand cranks installed, the maximum depth of the printer is 154 cm (60-5/8 in). If necessary to fit the printer through a doorway or other narrow space, you can remove the hand cranks to reduce the depth to 143.8 cm (56-5/8 in) when the wheels are turned parallel to the printer. After movement, the hand cranks can be reinstalled to lower the printer at its final location.

Ink and media handling

You will need an area near the printer to store media and ink, and to finish and package prints for shipment or distribution. For best results, media and ink should be stored in a temperature- and humidity-controlled environment similar to the printer's environment.

Rigid cut-sheet media should be stored flat and not stored for long periods before use. Any warping of this media will increase the likelihood of the carriage striking it during printing, or media feed problems.

Due to the tendency of synthetic rigid media to build up an electrostatic charge, electrostatic discharge (ESD) abatement measures such as raising the relative humidity in the room or draping copper grounding tinsel over the stored media may be necessary.

UV cure ink is perishable

Unlike other inks used in wide format printing, UV cure ink has a limited shelf life. Plan to rotate your ink stock and use it promptly by the date printed on the ink box.

External RIP

The printer receives print jobs from an external RIP, such as the HP RIP Software or supported third-party RIP. These software products require the purchase of server hardware that meets the requirements of the RIP. The RIP software and server hardware must be available for installation with the printer.

Specifications

Table 2 Specifications

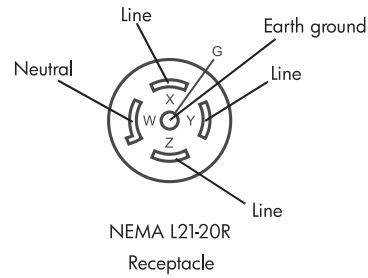
Dimensions (Assembled)	Width: 406.4 cm (160 in)
	Height: 154.9 cm (61 in)
	Depth without tables: 123.2 cm (48.5 in)
	Depth without tables and shipping casters installed: 154.0 cm (60.6 in)
	Depth with tables: 325.1 cm (128 in)
Weight (Assembled)	Printer and tables: 752 kg (1657 lb)
	Printer without tables: 684 kg (1507 lb)
	Tables only: 68 kg (150 lb)
Operating Conditions	Temperature: 20–30° C (68–85° F)
	Relative Humidity: 20–80%, non-condensing
Storage Conditions	Temperature: -34–49° C (-30–120° F)
	Relative Humidity: 10–80%, non-condensing
Agency Compliance	Safety: CE, UL, c-UL
	Emissions: FCC-A, CE
	Immunity: CE
Electrical Power	Power used: 200-240 VAC, three phase (3Φ), 50/60 Hz, 12 Amps maximum.

Table 2 Specifications (continued)

Required Electrical
Circuit (North America/
Japan)

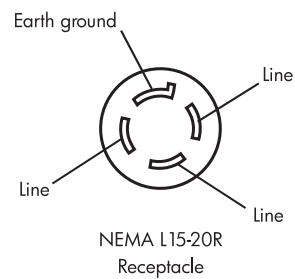
With utility-supplied 3-phase power:

200-240 VAC, 20 Amps, 3 Φ , with NEMA L21-20R locking wall receptacle



With 60 Hz 1-phase power and 3-phase converter:

200-240 VAC, 20 Amps, 3 Φ , 60 Hz, with NEMA L15-20R locking wall receptacle and "Phase Perfect" Digital Phase Converter Model DPC-A10



Required Electrical
Circuit (Europe)

200–346/240–415 VAC, 16 Amps, 3 Φ , 50 Hz, with 5-pin IEC 60309 wall receptacle, receptacle housing is red in color.

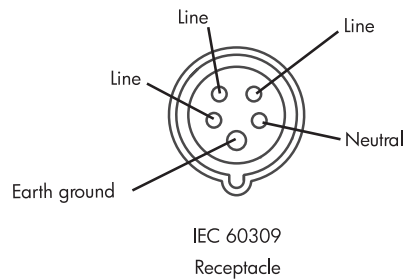


Table 2 Specifications (continued)

Required Power Cord	<ul style="list-style-type: none">● Part No. 0506213 North America (UL/CSA approved), length 4 m (13 ft), requires Field Modification Kit part number CH242A if using phase converter (see Electrical power on page 1); OR● Part No. CH109–50001 Europe (Harmonized), length 6 m (20 ft)
Optional Auxiliary Power for Vacuum System	<p>When configured as shipped, if the power cord to the printer is removed, power to the vacuum system is removed. If the printer standby power switch is switched off, but the power cord is not removed, power to the vacuum system is preserved.</p> <p>You can preserve power to the vacuum/pressure assembly during power outages by connecting the supplied power cord from the auxiliary power connection (below the ink box racks) to one of the following:</p> <ul style="list-style-type: none">● Wall outlet — 100-240 VAC, 50/60 Hz, provides temporary power to the vacuum system when it is necessary to remove power from the printer for service.● UPS — customer-supplied uninterruptable power supply, output 100-240 VAC, 50/60 Hz, minimum of 15 watts of power, provides battery backup to the vacuum system in the event of a power failure. UPS is connected to the electric wall outlet. <p>Adapter cord length: 137 cm (4.5 ft)</p>

Safety information

- UV light — the ultraviolet (UV) curing lamps emit high power UV light. The printer must be operated with all safety shielding installed to protect the operator from eye and skin damage. When operated according to manufacturer’s instructions, safety glasses or other protective clothing are not necessary.
- Mechanical hazards — Keep fingers away from carriage and media path. Use a fork lift truck to lift the printer. Do not exceed the maximum weight load of the input or output tables, as printed on the label.
- Ink — read and practice safety guidelines as outlined in the Material Safety Data Sheet (MSDS) for the ink, and post the document in the work area as required by prevailing law. Avoid any contact with skin and eyes. Provide adequate general and local exhaust ventilation. Avoid breathing vapors. Respirator protection may be required under exceptional circumstances when excessive air contamination exists. None of the component substances have established exposure standards per OSHA, NIOSH or ACGIH. Collect waste ink in container provided. Dispose of ink according to MSDS and local regulations. Keep the waste-ink spigot closed during printing.
- Electrical — WITH THE POWER SWITCH IN THE OFF POSITION, POWER MAY STILL BE SUPPLIED TO THE PRINTER COMPONENTS. To completely cut power from the printer, you must unplug the power cord from the power outlet.
- Ozone — the high power UV light emitted by the curing lamps reacts with oxygen and produces ozone. This formation tends to be greatest during lamp start-up. The printer should be operated in a well-ventilated area to avoid minor effects such as headaches, fatigue, and dryness of the upper respiratory tract. Normal air movement will mix the ozone with fresh air, causing it to revert back to oxygen.
- Hazardous waste — THE PRINTER ELECTRONICS ASSEMBLY CONTAINS A LITHIUM BATTERY DEVICE. THERE IS A DANGER OF EXPLOSION IF THE BATTERY IS INCORRECTLY REPLACED. The battery must be replaced only by authorized service providers, and must be replaced only with the same or equivalent type. Dispose of this lithium battery device in accordance with local, state (or province), and Federal (or country) solid waste requirements.