

polaroid

POLAROID EVEREST 10.5

Hybrid Printing Machine

Site preparation





Introduction

The Polaroid Everest 3.2 UV printer is a large-format digital printer suitable for small and medium commercial industries. It uses UV-curable ink, which is environmentally friendly. This printer offers high productivity and can replace traditional screen printing.

Contact

info@equipamientos.mx

www.equipamientos-polaroid.com

Information:

The printer features a conveyor belt for transfer media, allowing adjustment for both roll material and rigid plates.

This type of printer is widely used in industries such as: Advertising, packaging, printing, interior decoration, POP boards, glass work, flexible packaging, woodwork, printed circuit boards, and more. Polaroid Everest 3.2 UV printers use on-demand drop technology and piezoelectric technology. It can print colorful, large images with a maximum resolution of 720x1200 dpi and can produce images of any size using the "mosaic" function in the software. It combines the capabilities of a roll-to-roll printer and a rigid plate printer.



1. Technical Specifications

Technical specifications: Everest 10.5 UV

Printer			
Model	Everest 10.5 UV		
Print Area	126 inches (expandable table)		
Number of Printheads	Minimum 4, up to 9; configurations with up to 12 heads are available		
Working speeds:	Minimum 4	Medium 9	Maximum 12
High-3pass	430 sq ft/h	645sq ft/h	1432sq ft/h
Production-4pass	322sq ft/h	538 sq ft/h	1076 sq ft/h
High quality-6pass	236sq ft/h	301 sq ft/h	807 sq ft/h
Photographic Quality-8pass	161sq ft/h	237 sq ft/h	538sq ft/h
Print Resolution	Above 700x1200 dpi		
Print Technology	Piezoelectric inkjet, Grayscale Technology		
Ink Type	UV		
Ink configuration	Standard CMYK; optional Lc, Lm, White, and Varnish (optional)		
Data Processing Software	PhotoPrint 12; consult sales agent for Onyx or Caldera		
Color Configuration	ICC Color Profiles, curve and density adjustments		
Operation System	Windows 10, 64-bit, USB 2.0/3.0 ports, 500GB minimum hard drive		
Compatible File Formats	Tiff, Jpg, Postscript, EP/PDF, Etc		

Material	
Material Thickness	0 to 2 inches
Suction Table	Divided into 4 different suction areas to accommodate a wider range of material sizes
Suggested material types	Vinyl, PET films, synthetic paper, banner, acrylic, glass, wood, etc.



Ink Supply System

Negative pressure system
Alarm sensor for ink level control

Curing System

UV light LED lamp set

Dimensions

Printer dimensions	Lenght	Width	Height
Without packaging	170.7 inches	59.8 inches	61 inches
With Packaging	179.5 inches	69.3 inches	78.7 inches
Weight			
Without Packaging	5291 lbs	With Packaging	6614 lbs

Operating Conditions

Temperature	68 to 86 °F	
Relative Humidity	30% - 70%	No condensation

Electrical Requirements

Power consumption: 6000W, 28A

Operating Voltage: 220 to 240 V, Biphasic, 50/60 Hz

Warranty: One year; contact your local sales agent for details



2. Workspace Preparation

2.1 Installation Space

Ensure sufficient space around the printer for replacing frequently used parts, for the output of printed media, and for proper ventilation. Additional maintenance space is required for repairs or component replacement.

2.2 Environmental Conditions

The printer should be used within the following temperature and humidity ranges:

- Temperature: 68°F to 86°F (optimal printing quality is achieved at 68°F to 77°F)
- Humidity: 30% to 70%

If the operating temperature is below 68°F or above 104°F, print speed is reduced to two-thirds of the normal printing speed.

2.3 Locations Where the Printer Should Not Be Installed

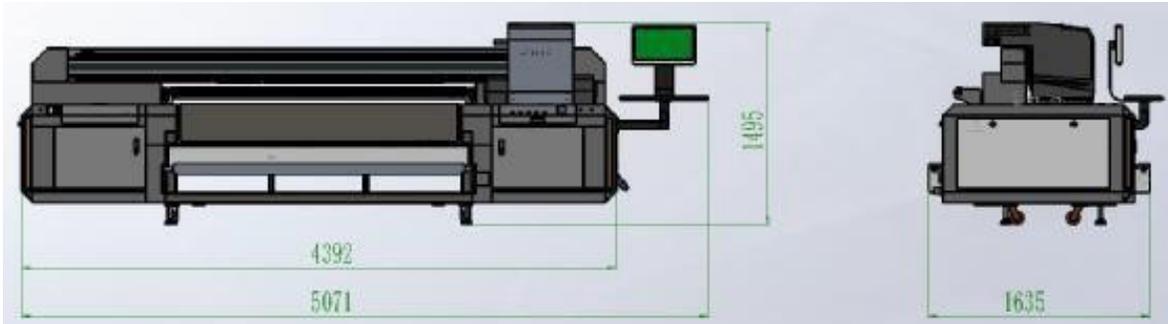
Do not install the printer in the following areas:

- Near a fire source
- Areas exposed to direct sunlight
- Places subject to vibrations
- Areas with excessive dust
- Places with extreme temperature or humidity fluctuations
- Near an air conditioner or heater
- Locations where the printer might get wet
- Near an ammonia gas container
- Poorly ventilated areas
- Unstable locations

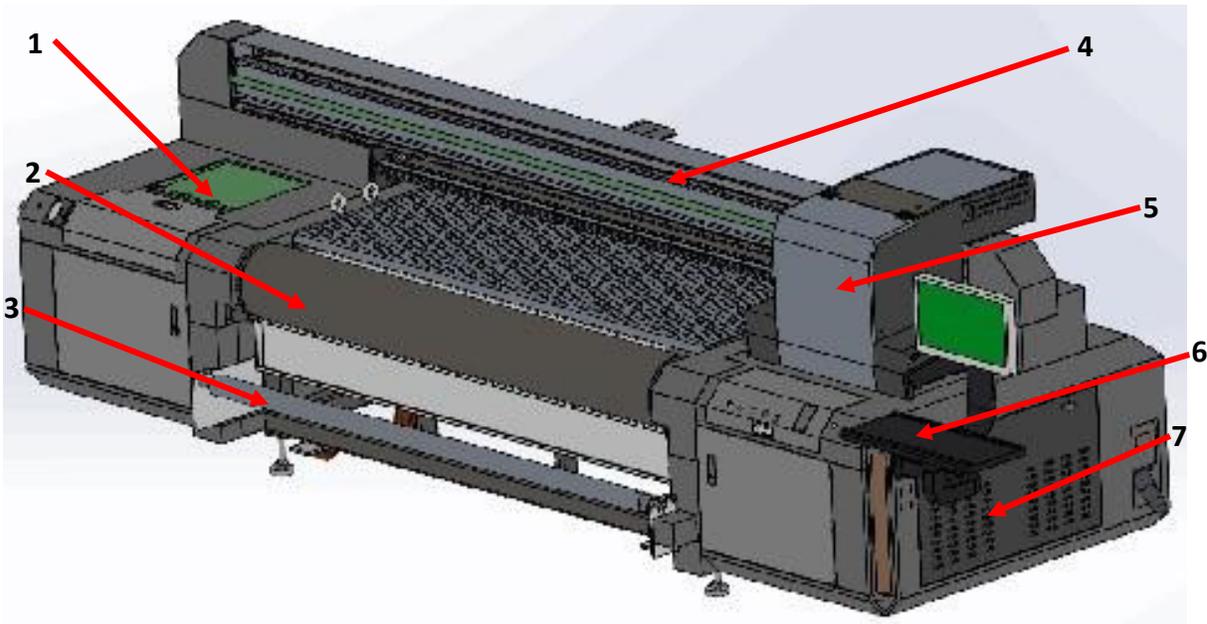
2.4 Installation Space Dimensions

- **Machine Size:** 199.6 inches (L) x 64.4 inches (W) x 58.9 inches (H)
- **Recommended Clearance:** Allow for a 0.04-inch (1 mm) clearance around the machine
- **Suggested Installation Space:** 275.6 inches (L) x 137.8 inches (W) x 118.1 inches (H)





2.5 External Views and Part Names

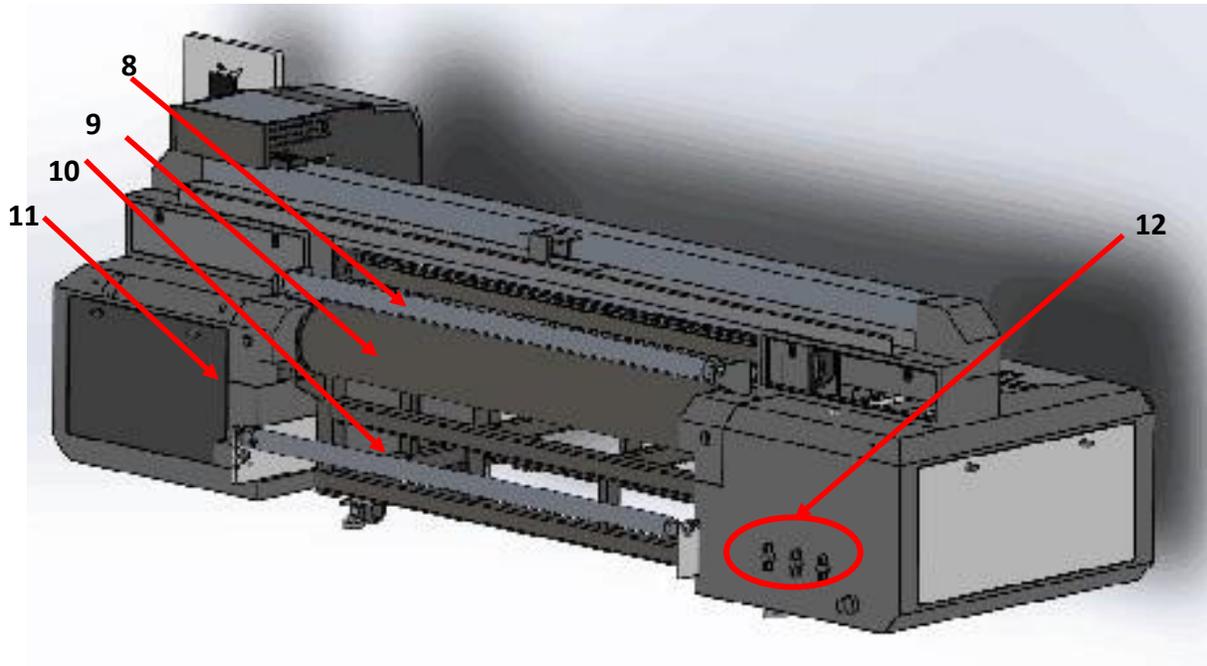


Front View

Parts List

1. Maintenance Area for Printheads
2. Advance Roller
3. Loading Bar
4. Carriage Rail
5. Printhead Carriage
6. Monitor Base
7. Loading Center





Rear View

Parts List

- 8. Material Pressure Bar
- 9. Advance Roller
- 10. Material Loading Bar with Air Pressure Clamps
- 11. Suction Control Valves for the Table
- 12. Vacuum Regulation Valves for the Bed

3. Electrical Configuration

NOTE: A certified electrician or professional in the field is required for the installation and configuration of the electrical system to power the printer, as well as for the printer installation.

The printer requires the client to supply and install the following electrical components according to the Electrical Code requirements of the local installation jurisdiction:

- 1. Power Distribution Unit (PDU) or voltage conditioner or voltage regulator

NOTE: The printer does not come with any power cables included.



3.1 Power Specifications

Configuration: 200–240 V line-to-line setup with biphasic control

Specifications	
	Biphasic Switch
Number of Power Wires	4 (L/L/N/G)
Input Voltage (Line to Line)	100-240 V ($\pm 10\%$)
Input Frequency	50/60 Hz
Maximum Current Load (per phase))	15 A

AC Power Cable Specifications	
Thermomagnetic Switch	2 poles, 15/16/20 A
AC Power Cable Specifications	
	Power Line
Configuration	4 wires, L/L/N/G
Cable Material	opper or Cu alloy, minimum 2.5 mm ² or 16 AWG
External Diameter	0.2 - 0.43 Inch

3.1 Grounding

The printer must be connected to a high-quality physical ground line to prevent electrical risks. The following grounding requirements must be met for site preparation:

- Grounding cables must be insulated and at least the same size as the phase conductors.
- Ground impedance must be less than 0.5 Ω .
- Installation is recommended with saline preparations.



3.2 Air Conditioning

In addition to fresh air ventilation, consider maintaining workplace environmental levels by ensuring the specified operating climate conditions to avoid operator discomfort and equipment malfunction. The air conditioning in the workspace should account for the heat generated by the equipment. Typically, the printer's energy dissipation is as follows:

- **Polaroid Everest:** 9 kW (30.7 kBTU/h)

NOTE: Air conditioning units should not blow air directly onto the equipment.

3.3 Floor Surface

La superficie del piso debe tener las siguientes características:

The floor surface must have the following characteristics:

- Horizontal surface
- Solid, smooth, and level
- Free of holes or indentations
- Static-free surface (no carpet)
- Easy to clean
- Durable
- Free of strong vibrations
- Concrete

3.4 Powering On

Whenever your printer is in operation, the printing production area should be well-lit to provide the operator with optimal conditions to check color and alignment during print production. If there is insufficient natural light, artificial lighting will be required.

4. Computer Requirements

- Operating System: 64-bit systems for high-volume workflows
- RAM: Minimum 8 GB (4 GB per core recommended)
- Hard Drive: 500 GB (7200 rpm) (250 GB + free space)
NOTE: Firewall and antivirus should be disabled or configured to allow applications and printers
- Monitor: 1280 × 1024 pixels, 16-bit color
- USB Port: USB 3.0
- DVD-ROM Drive
- Operating System: Microsoft Windows 10 Professional (SP1 or higher)
- Processor: Intel Core i7 or equivalent



System Requirements Note

The faster your CPU, the quicker the software will process your images. Therefore, it's recommended to purchase the fastest computer you can afford. While additional RAM will help accelerate processing, it is CPU speed that directly impacts the execution speed of SoftRIP. If processing large files over 100 MB, upgrading your hardware to include significantly more memory than the minimum specified is also advisable.

SoftRIP can process more than one image at a time and utilizes multiple CPUs for this purpose. For each additional processor in your computer, it is recommended to double the RAM amount, up to a maximum of 512 MB per processor. It is also important to use terabyte solid-state drives in computers intended for high-resolution printing, especially if you plan to keep RIP files available in the Print Queue.

Operating Systems

SoftRIP is compatible with Windows 7, Windows 8, and Windows 10 operating systems.

File Format Compatibility

Supports PostScript Level 3, PDF, EPS, TIFF, JPG, GIF, PNG, PSD, BMP, PCX, PPM, TGA, and DCS2 formats.



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**Calle 10 No. 206, Col. Granjas San Antonio
Del. Iztapalapa, C.P. 09070
CDMX, México**

**info@equipamientos.mx
www.equipamientos-polaroid.com**

