amt

postpro SFX

SITE PREPARATION GUIDE

SUBJECT TO CHANGE

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2 // CUSTOMER RESPONSIBILITY

1. To ensure a safe working environment for operators and installation engineers.
2. To ensure the installation site has been prepared in accordance with this document, prior to the installation.
3. To unload the machine and ancillary items from the transport vehicle to the installation site and unload from the transportation packaging.
4. To ensure adequate electrical configuration and supply for the machine and ancillary items.
5. To ensure adequate ventilation and connections are available for the machine and ancillary items.
6. To ensure the room and environmental conditions are in accordance with the specifications in the attached document.

3 // EQUIPMENT DESCRIPTION

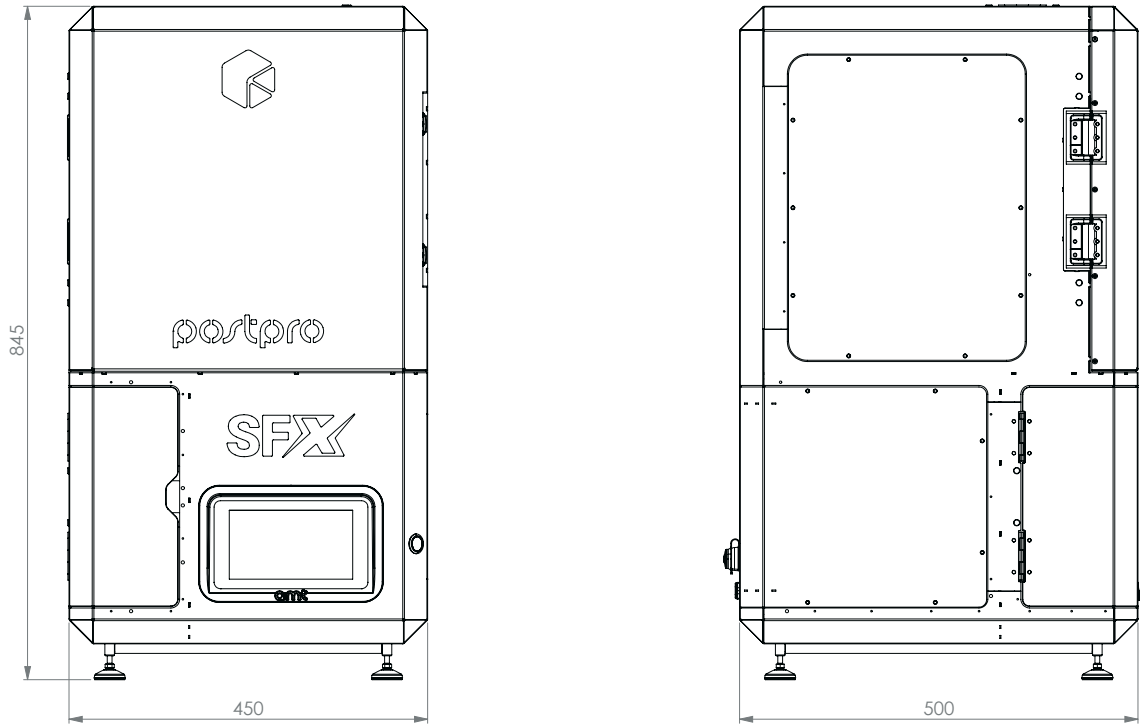
3.1 OVERVIEW

The PostPro SFX offers a controllable surface finish which reduces surface roughness (Ra values) of 3D printed polymer without the loss of detail and definition. In addition, the smoothing process naturally seals the surface of the 3D printed part, which significantly enhances the water-protective properties of the material.

3 // EQUIPMENT DESCRIPTION

3.2 POSTPRO SFX DIMENSIONS

Description	EU	US
External Dimensions (WDH)	450 x 500 x 845 mm	17.7 x 19.7 x 33.3 in
Weight	82 kg	181 lb
Capacity		
Process Chamber Dimensions (WDH)	190 x 320 x 190 mm	7.5 x 12.6 x 7.5 in
Process Chamber Volume	11.5 litres	11.5 litres
Power		
Electrical Configuration	230V / Single Phase / 16A or 13A (UK)	120V / Single Phase / 15A



3.3 POSTPRO SFX MACHINE STAND DIMENSIONS

Description	EU	US
External Dimensions (WDH)	550 x 600 x 850 mm	21.6 x 23.6 x 33.5 in
Weight	30 kg	66 lb

3.4 POSTPRO SFX PACKAGED DIMENSIONS

	mm / Kg	In / lbs
Width	800 mm	31.5 in
Depth	600 mm	23.6 in
Height	950 mm	37.4 in
Weight	95 kg	210 lbs

3.5 POSTPRO SFX MACHINE STAND PACKAGED DIMENSIONS

	mm / Kg	In / lbs
Width	600 mm	23.6 in
Depth	650 mm	25.6 in
Height	500 mm	19.7 in
Weight	30 Kg	66 lbs



4 // SHIPMENT AND DELIVERY

4.1 Overview

Additive Manufacturing Technologies can help arrange shipment and customs clearance to the client's facility, please contact sfx-support@amtechnologies.com for more information. The client is responsible for transporting the crates from the point of delivery to the installation site based on the following shipment information.

4.2 Items Supplied

- PostPro SFX
- Machine Stand (sold separately)
- Processing Racks
- Diffuser Plate
- Preparation Stand
- Storage Stand
- Touch Pen
- USB Drive
- Power Cable

Note: PostPro Pure bottles will be supplied separately.

4.3 Shipping Box

The PostPro SFX machine will arrive at the client's facility packed in a box. The box will have the dimensions and weights as per Table 3.4.

Once the PostPro SFX and accessories have been unloaded, the client will need to store the box on-site in the unlikely event that the machine needs to be returned to AMT.

4.4 Unloading the Crate

It is the responsibility of the client to unload the box from the delivery vehicle and position the box in a suitable position for unpacking.

Unloading can occur at, or near the installation site if there is sufficient clearance for the PostPro SFX.

The box should be inspected for damage and the shipping tilt/impact indicators should be reviewed. If any damage has occurred during transit, then this should be noted and logged with the shipping company at the point of receipt.

4.5 Safety Measures for Unloading

Unloading procedures must be performed by trained personnel in accordance with occupational health and safety measures enforced at the install country or state. Prior to unloading ensure the immediate area is:

- Clear of other traffic, pedestrians and people not involved in loading or unloading.
- Clear of overhead electric cables so there is no chance touching them, or of electricity jumping to 'earth' through machinery, loads or people.
- Clear of obstacles and/or debris that could inhibit the movement of the machine.

4.6 Machine Unboxing

It is the responsibility of the customer to unbox the PostPro SFX from the shipping box in which it is supplied. For instructions on how to do this please refer to the PostPro SFX Unboxing Guide.

5 // ELECTRICAL REQUIREMENTS

The client is responsible for connecting all supplied equipment to the building's power supply prior to the installation date.

5.1 PostPro SFX

The PostPro SFX is available in multiple electrical configurations to suit different facility electrical supplies. The electrical configuration must be specified at the point of sale. The table below shows the electrical supply specifications for each configuration.

Always check the machine plate before connection. For additional information please contact AMT Support.

Specifications	Option 1	Option 2	Option 3
Phases	Single Phase	Single Phase	Single Phase
Voltage	1 x 230V	1 x 230V	1 x 120V
Frequency	50/60Hz	50/60Hz	50/60Hz
Mains Fuse Protection	C16A	C13A	C15A
Connection	L + N + PE	L + N + PE	L + N + PE

6 // VENTILATION AND ENVIRONMENTAL REQUIREMENTS

PostPro SFX should not be installed in a potentially explosive atmosphere.

6.1 Temperature Control

Temperature control within the working room is important to ensure consistent and repeatable results. Fluctuations in temperature will impact the performance of the machine.

The installation and operation room must have:

- Heating, Ventilation and Air Conditioning (HVAC) to ensure a constant and stable ambient temperature and humidity.
- Temperature control: 18°C (64°F) - 22°C (68°F).
- Humidity control: 18°C (64°F) - 22°C (68°F) at 30-40 % relative atmospheric humidity.

Working temperatures and humidity outside of these ranges can be accommodated only after discussion with AMT. The best results are achieved when the room temperature is stable. Please contact AMT or an Authorised AMT Reseller for further guidance.

If the room cannot be kept at a stable temperature and humidity, parts to be processed should be stored in a controlled chamber (or similar) to guarantee consistent results.

6.2 Other Considerations – AMT Recommends

- The room should be free of dust and particulate matter.
- No single-sided local heating or cooling of the machine, such as by a radiator or air-conditioner, solar irradiation through a window/loading door or irregular flow of air.
- Minimum of 10 ACH (Air Changes per Hour)

7 // ROOM AND CONNECTION LAYOUT

7.1 Room Layout

To ensure the safe operation of the PostPro SFX, the following clearances are required around the machine:

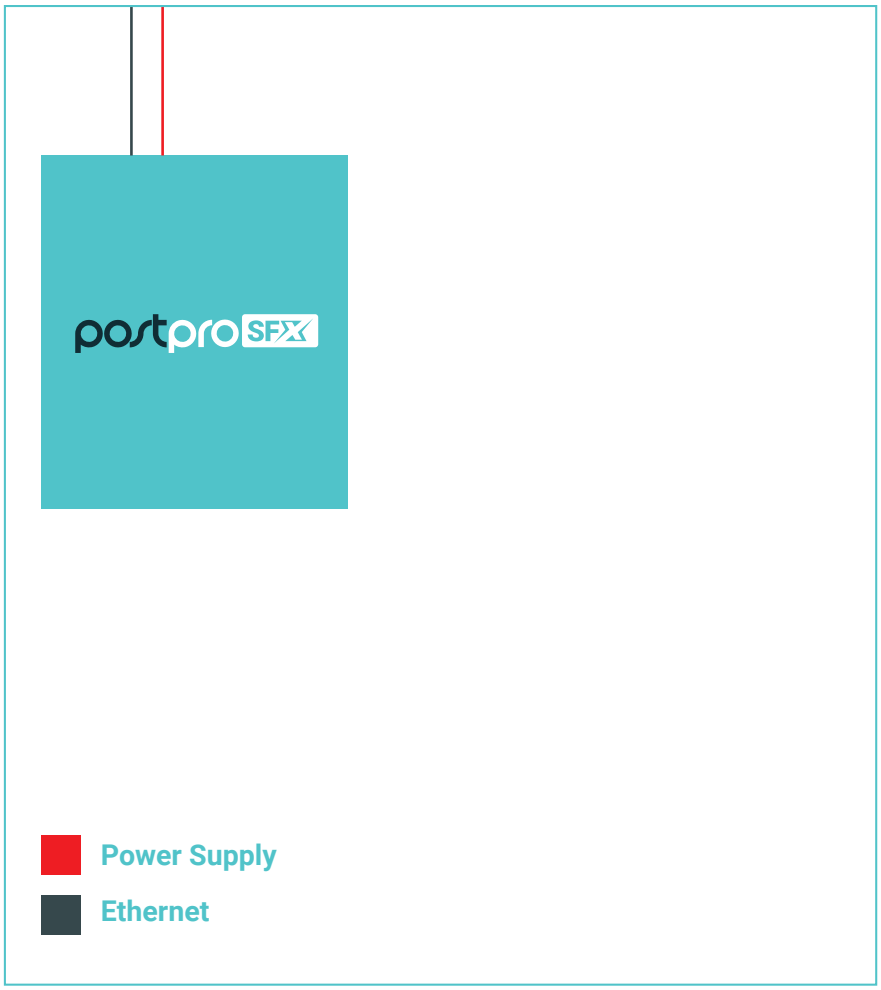
- 0.2m (0.7ft) on the back
- 1.0m (3.3ft) on the front
- 0.5m (1.65ft) on the sides

In addition, the PostPro SFX should be operated in a room, not enclosed in a cupboard, with at least 1.0m (3.3ft) clearance above the machine. Smaller working spaces can be accommodated following a discussion with AMT or your authorised reseller.

The client is responsible for unpacking the box and positioning the equipment in the designated position. Mishandling of the PostPro SFX and its accessories during installation may damage the device, requiring it to be returned to AMT.

Free access must be ensured around the machine for installation and maintenance procedures.

7.2 Connection Layout



7.3 Other Considerations

Additive Manufacturing Technologies requires the client to prepare the PostPro SFX room before installation and ensure that the room conforms to the minimum dimensions outlined in Section 7.2. The PostPro SFX must be positioned in such a way as to ensure access to the power outlet and switches.

The following conditions are required for access to and within the working area:

- Level, hard flooring (no carpet) that can handle a device weight in accordance with Tables 3.2 and 3.3.
- The floor must be hard, flat, and level. The unevenness of the area for the machine should be less than 5 mm/m² (0.0182 inches/Square foot).
- The floor in the PostPro SFX machine room shall be easy to clean and chemically resistant.
- PostPro SFX should be installed in a vibration-free area and should not be located near machinery or equipment that causes high vibration levels.
- When possible, the PostPro SFX should be installed and operated in a closed room.
- Access to the PostPro SFX machine room shall be level and without steps.
- Inform AMT in advance if seismic anchoring is required.

7.4 Workstation area

The client is responsible for supplying a workbench next to the PostPro SFX machine (if purchased without a machine stand) in addition to an area to load/unload of process racks. The client should have enough space for:

- One workbench or table
- Shelves and cabinets near the PostPro SFX to allow convenient and safe storage of tools, accessories, consumables, training manuals, etc.

7.5 Chemical Storage

AMT recommends that the client stores the chemicals safely and to a standard that is in accordance with regulations, fire department and insurance requirements, and Section 7 of the relevant chemical MSDS.

7.6 Safety Eye Wash and Shower

Before starting to use the PostPro SFX, AMT recommends that the client establish at least one working eye-wash station near the machine and have a safety shower available.

7.7 Chemical Spills

AMT recommend that before installing the PostPro SFX, the client establishes a procedure on how to handle chemical spills. PostPro SFX is designed to prevent spills or leakages as the chemicals used are within sealed units. However, a spill may occur if the equipment is damaged or mistreated in some way. All spills should be reported to the client's safety officer and AMT.

Please consult the MSDS of the chemicals used for further information.

7.8 Precautions in the Event of Fire

AMT recommend that before installing PostPro SFX the client should establish a procedure on how to handle fires in or near the PostPro machine room, just as the client will have done with any other machinery that has been installed. These procedures should focus on fighting fires where high voltages are being used and the potential by-products produced from combusted polymers and processing chemicals from toxic gases and fluids.

8 // HEALTH & SAFETY

⚠ **It is the responsibility of the customer to ensure the PPE being worn is compliant with the company, local and national safety regulations.**

Additive Manufacturing Technologies recommends the following minimum Personal Protective Equipment (PPE) be worn when operating the PostPro SFX:

- Disposable nitrile gloves
- Heat-resistant gloves, suitable for temperatures up to 170 degrees Celsius.
- Closed-toe safety shoes
- Laboratory spill resistant coat
- Close-fitting chemical eye protection
- Half face mask with A2 Organic Vapour Filter Cartridges, suitable for protecting against organic vapours with a boiling point above 65 degrees Celsius.

AMT recommends the Client should also ensure the following safety equipment and information is available in the room of operation:

- MSDS safety sheets displayed in a prominent position
- Safety shower
- Eye wash station
- Spill clean-up kit

9 // NETWORK CONNECTIVITY

The PostPro SFX machine is a networked device. It communicates with AMT Servers securely via an Ethernet connection or Wi-Fi and must be connected to the internet to operate.

Please contact AMT or your Authorised AMT Reseller for further information if connection restrictions are in place at your facility.

The ethernet connection must not be powered.

The network must offer un-interrupted access to the Internet. “Guest networks” that require regular renewal of credentials are not sufficient in this regard.

To be able to access the internet, the following firewall ports must be open:

DOMAIN NAME	IP	PORT
sfxvpn.ppesds.com	94.21.0.245	TCP 11335
sfxdashboard.ppesds.com	20.238.18.123	TCP 443

10 // CONSUMABLES

The PostPro SFX must only be re-supplied with consumables by an individual who has been trained on how to operate the machine.

Do not use any consumables other than those supplied by AMT or and Authorised AMT Reseller. Failure to comply with this will void the manufacturer warranty of the machine.

11 // WASTE DISPOSAL

The client is responsible for having liquid and solid waste management in place and is responsible for disposing of all liquid and solid waste according to the local laws and regulations.

The client must follow its facility’s procedures and all federal, state, and local regulations describing the disposal of hazardous waste.

The waste consumable collected by the machine must be disposed of by the client in accordance to local legislation. This includes the disposal of the carbon filter once it is fully saturated.

Any other solid non-hazardous waste should be disposed of in a general lab waste container in accordance to local regulations.

12 // DE-COMMISSIONING

12.1 WEEE Compliance

AMT is a registered member of WEEE compliance schemes throughout Europe. As such AMT will be responsible for the decommissioning and disposal of the equipment and packaging once it has reached the end of life. For further information please contact AMT Support.

Note: Upon request, AMT or your Authorised AMT Reseller can decommission the PostPro SFX.

13 // PRE-INSTALLATION CHECKLIST

Prior to the delivery and installation of your machine we require you to review this document and complete the pre-installation checklist to confirm you comply with the requirements.

The pre-installation checklist can be accessed via the link below:

PRE–INSTALLATION CHECKLIST

If you have questions or problems in providing anything described in the checklist, please contact AMT or your Authorised AMT Reseller for assistance.

Please be aware that any installations carried out prior to receiving an accepted site preparation checklist, will not be approved by AMT.

For further information please visit our SFX Portal at **amtechnologies.com/sfx-support**

14 // CONTACT INFORMATION

For more information contact AMT.

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