



DEMI - Model 3

Site Prep Guide

Automated Support Removal Machine



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Introduction

The purpose of this guide is to provide instructions and requirement information in order to prep a customer's facility for DEMI Support Removal System machine installation and operation.

The DEMI includes the machine, PostProcess consumables, installation, training, and integration.

The end user is responsible for preparing the site prior to the machine being delivered and installed. Please prepare the installation site according to the instructions herein prior to the machine being delivered.

Shipping and Delivery

Responsibilities

PostProcess will coordinate shipping to the customer's facility as quoted. Please provide detailed shipping / receiving instructions to PostProcess prior to shipment. The customer is also required to transport the machine from the loading dock to the prepared installation location.

A PostProcess Field Engineer should be on site during machine unpacking to perform the installation, training, and integration.

Delivery and Unpacking

The DEMI will be delivered in a wooden crate with a pallet as the base. A forklift and/or pallet jack will be required to transport the machine from the loading dock to the installation site. Please ensure the appropriate transport equipment and operators are available at the time of delivery.



CAUTION: Tipping, dropping, or impacting the shipping crate and / or the machine may cause irreparable damage to the machine and other contents. The shipping crate and machine will be carefully inspected for damage or signs of impact during shipping and handling



Shipping and Delivery

Crate Dimensions

Figure 1 shows the length, width, and height of the DEMI shipping crate. The DEMI with the crate weighs approximately 1,000 pounds. A second pallet with PostProcess consumables will also be shipped.

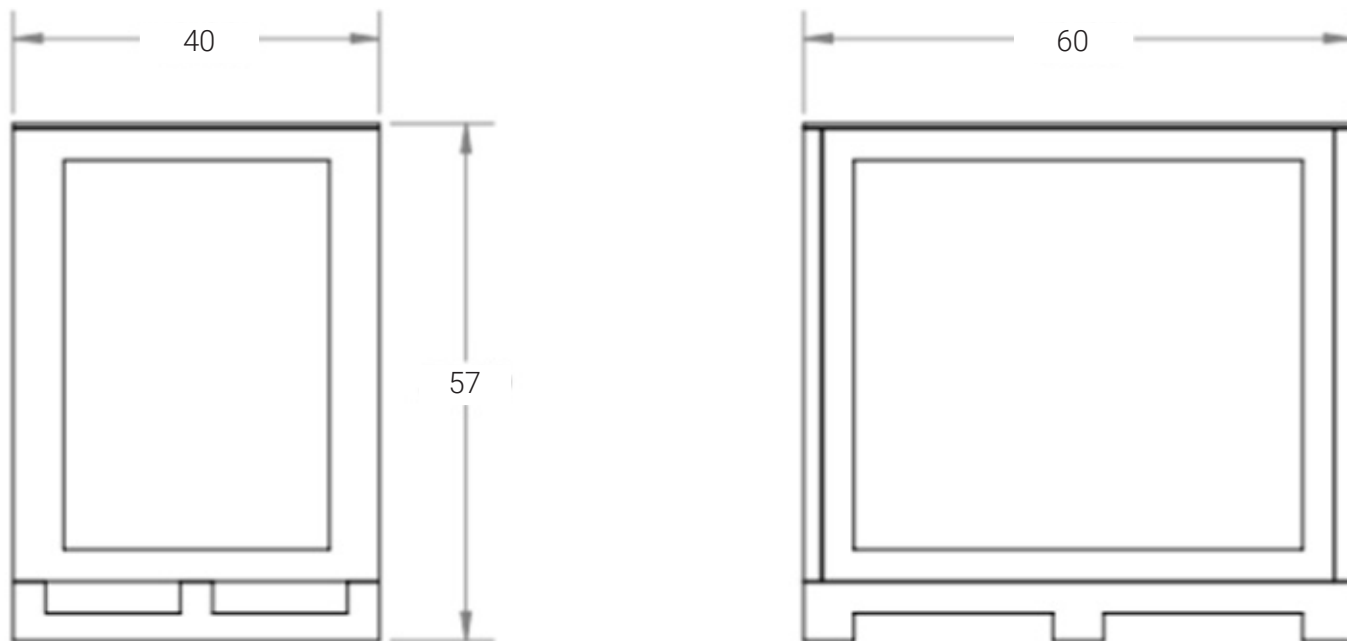


Figure 1: Shipping Crate Dimensions (Inches)

Physical Descriptions

Size and Weight

External Dimensions (Doors Closed):

Length: 34 3/4"

Width: 43 1/2"

Height: 59 3/4"

External Dimensions (Doors Open):

Length: 57"

Width: 71 1/4"

Height: 59 3/4"

Approximate Weights:

Empty: 700 lbs

Full: 1,000 lbs

Envelope and Capacity

Internal Envelope Dimensions:

Length: 18"

Width: 18"

Height: 18"

The maximum tank capacity is approximately 40 gallons of detergent.

The maximum part weight for the fixture is 50 pounds.



Physical Descriptions

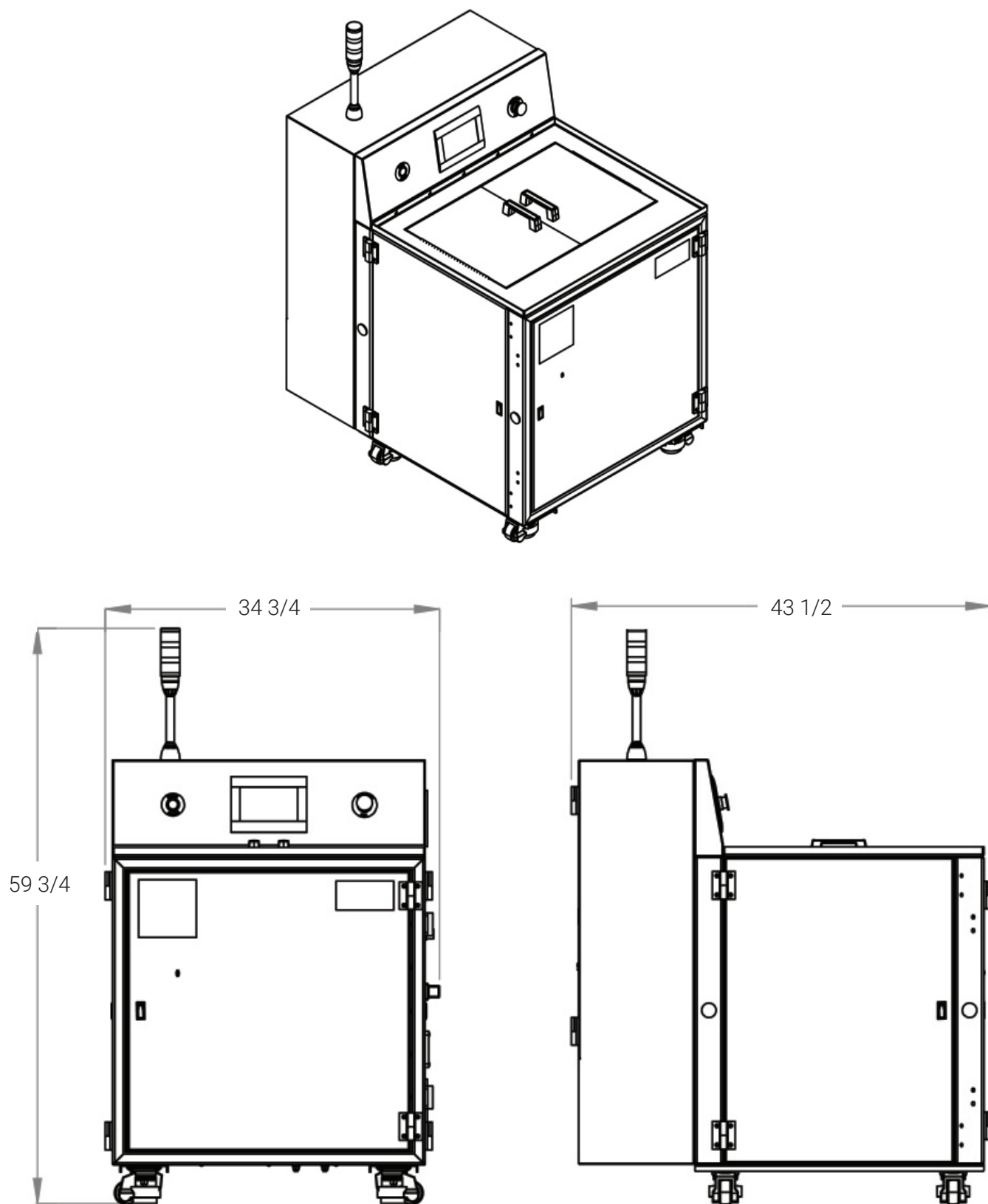


Figure 2: Closed-door dimensions (inches)



Physical Descriptions

Dimension Drawings (Inches)

Open door dimensions represent the minimum work area needed to perform routine maintenance from the user.

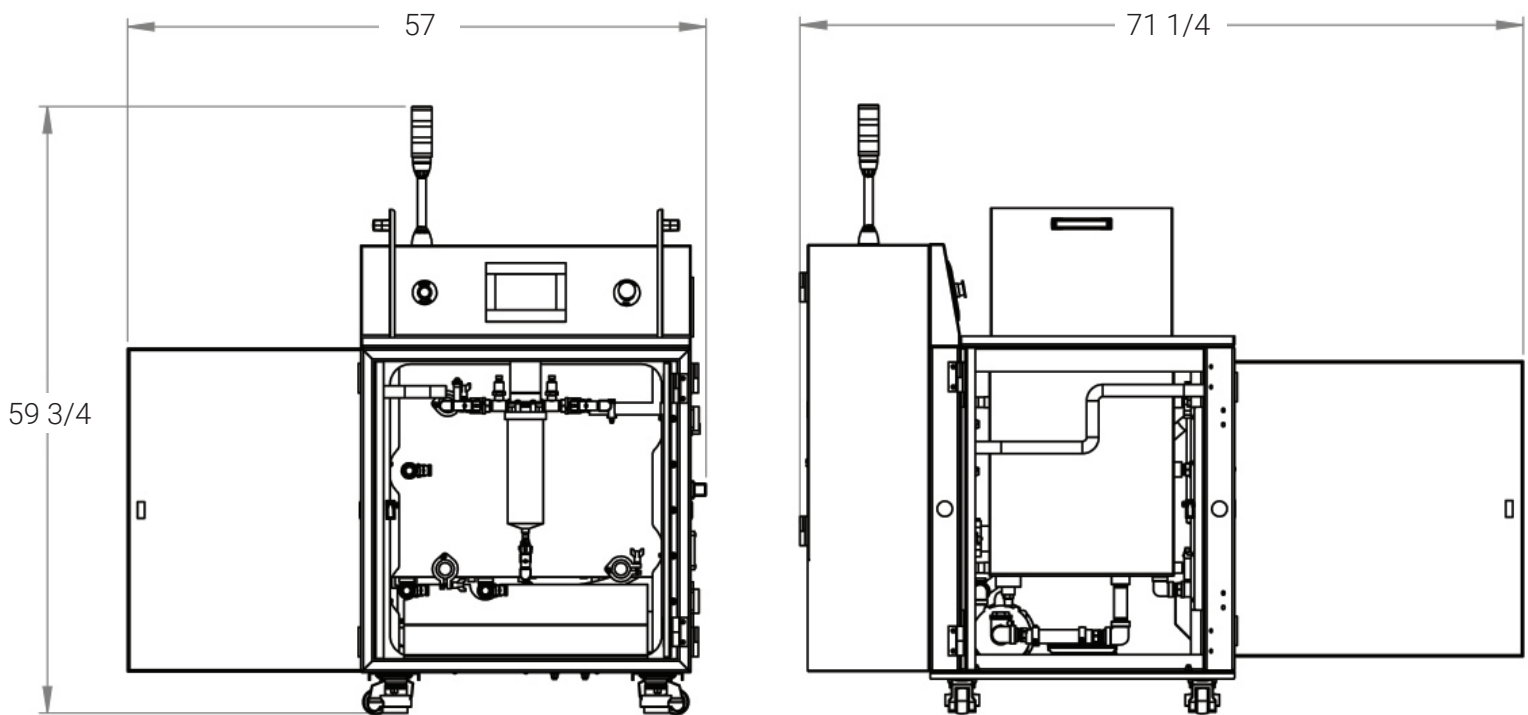
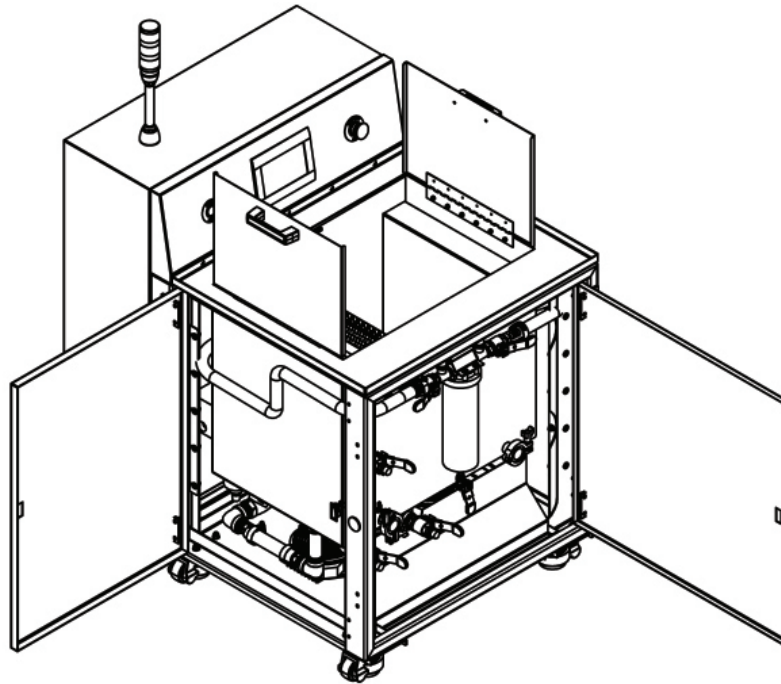


Figure 3: Open-door dimensions (inches)



Site Preparation Requirements

Power and Electrical

Phases: 1

Voltage: 110

Amperage: 20

Receptacle: NEMA L5-20 Twist-to-lock

NOTE: The customer is responsible for providing all external power and electrical connections. These items are required to be installed in the facility where the machine will be installed.

Facility and Floor Requirements

- Smooth, level surface. The DEMI rolls relatively easily with casters on smooth, level floor.
- Sufficient space in installation location for DEMI and operator to maneuver around machine during normal operation.
- Installation area should be spacious and well ventilated.
- Personal protective equipment (PPE) should be installed in the same room as the DEMI.

NOTE: The customer is responsible for providing the following facility requirements prior to machine installation.

Personal Protective Equipment

Eye protection

- Safety glasses should be worn at all times when operating the DEMI and consumables.

Hand protection

- Nitrile gloves should be worn at all times when operating the DEMI and consumables.

Eye wash station

- An eye wash station should be installed in the vicinity of the DEMI and be easily accessible at all times.

Protective Clothing

- It is recommended that a lab coat or clothing that covers the arms and legs be worn when working with the DEMI and consumables.

Ventilation

PostProcess Technologies detergents are specifically formulated chemistry for maximized 3D printed support removal efficiency. It is recommended that the equipment be located in a well ventilated room. Specific ventilation requirements can vary widely due to size of the install room, existing ventilation (positive or negative) and differences in individual sensitivities to airborne scents or fragrances. For more information on the safe use of PostProcess detergents refer to the SDS for the specific detergent used.



Consumables



CAUTION: Only PostProcess approved consumables should be used in the DEMI. Using third party consumables may void the warranty on the machine. Safety data sheets will be provided for all purchased consumables. Always wear approved PPE when handling detergents. If detergents come in contact with skin, follow instructions listed in respective safety data sheets.

Detergent

POLYGONE (PG1):

Typically used for removing PolyJet (or similar) support material.

POLYGONE (PG1.1):

Typically used for removal of uncured Stereolithography (SLA) resin.

POLYGONE (PG2):

Typically used for Fused Deposition Modeling (FDM) (or similar) support removal.

Handling and Disposal

The DEMI features a removable stainless steel basket with handles for part handling. Plumbing for the DEMI is internal to the machine and self-contained with the exception of the drain valve. A garden hose fitting allows for a hose attachment for easy draining. Always dispose of used detergent in an approved hazardous material receptacle. Follow local guidelines for disposal.

Contact Info

For Questions and Support for the DEMI, please contact PostProcess Technologies:



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Site Preparation Checklist

Requirement	Specifications	Status
Facility Requirements	• Verify clearances of doorways and passageways between shipping and receiving location and installation area. • Smooth, level surface to allow for machine transportation into installation area. • Sufficient space in installation area for DEMI and operator to maneuver around machine during normal operation. (Refer to Site Prep Guide for dimensions.) • Installation area well should be well ventilated.	
Electrical Requirements	• Single Phase, 110v, 20 AMPS • Receptacle: NEMA L5-20P Twist-to-Lock	
Personal Protective Equipment	• Eye protection (safety glasses) • Hand protection (nitrile gloves) • Eye wash station (readily available)	
Integration Parts	• 3D printed parts available for running integration cycles during initial installation visit.	
Submit Checklist	• Please complete and sign this site preparation checklist and send to support@postprocess.com.	

Company Name: _____

Customer Name: _____

Customer Signature: _____ Date: _____



Revision History

Revision History				
REV	List of Changes	Written By	Approved By	Approval Date
A	Original Release	Field Engineer (NC)	Eng Mgr (MF)	9/11/2017
B	Brand Update, Add Site Prep Checklist, Ventilation Requirements	Marketing (ML)	Eng Mgr (MF) Project Eng (BS)	1/26/2018
C	Machine name change, standardized dimension nomenclature	Marketing (ML)	Eng Mgr (MF) Project Eng (BS)	4/10/2018
D	Machine drawing revision, dimension revision	Marketing (ML)	Eng Mgr (MF) Project Eng (BS)	5/3/2018

