

PureSteel™ Demag Station

Table of Contents

1. Product Use Overview
 - a. Product Description
 - b. Intended Use
 - c. Key Features / Benefits
2. Safety Requirements
 - a. General Safety Warnings
 - b. Symbols & Definitions
 - c. Facility requirements
3. Parts & Components
 - a. Component List (with descriptions)
 - b. Optional Accessories / Add-ons
4. Specifications
 - a. Dimensions
 - b. Weight
 - c. Power / Utility Requirements (if applicable)
 - d. Operating Conditions (temperature, humidity, etc.)
 - e. Performance Capabilities
5. Installation & Set-up
 - a. Required Tools / Materials
 - b. Assembly Steps
 - c. Utility Connections (water, electrical, air, etc.)
 - d. Functional Verification
6. Operating Instructions
7. Cleaning & Maintenance
 - a. Daily Maintenance
8. Troubleshooting
9. Service & Support
 - a. Warranty

I. Product Use Overview

a. Product Description

The PureSteel™ Demag Station is a standalone, mobile demagnetization station designed for use in surgical and sterile processing environments. The station integrates a built-in demagnetizer with MagVision Film, and integrated film that allows users to detect magnetic fields, and a stainless steel work surface, providing a centralized, all-in-one solution for the demagnetization of surgical instruments. The unit is mounted on casters for easy transport and can be repositioned to any point of use within a facility.

b. Intended Use

The PureSteel™ Demag Station is a standalone, mobile demagnetization workstation designed for use in surgical and sterile processing environments. The station integrates a built-in demagnetizer with integrated MagVision Film, and a stainless steel work surface, providing a centralized, all-in-one solution for the demagnetization of surgical instruments. The unit is mounted on casters for easy transport and can be repositioned to any point of use within a facility.

c. Key Features / Benefits

- **Integrated Demagnetizer:** The demagnetizer is built directly into the station, eliminating the need for a separate handheld or tabletop device and reducing the risk of damage from dropping or misplacement.
- **MagVision Film:** Provides clear, visual confirmation that an instrument has been successfully demagnetized, replacing unreliable methods such as paper clip contact testing and ensuring a documentable, repeatable verification step.
- **Dedicated staging surface:** The station's work surface allows staff to stage an instrument tray during the demagnetization process, keeping workflow organized and reducing handling errors.
- **Full mobility:** Mounted on casters, the station can be transported directly to any workstation or point of use, enabling sharing between tables and reducing unnecessary staff foot traffic across the department.

II. Safety Requirements

a. General Safety Warnings

The demagnetizer will get hot after repeated uses. Please allow 10 minutes between uses to let the demagnetizer cool.

b. Symbols & Definitions



: Hot Surface



: Strong Magnetic Field

c. Facility Requirements

The facility must have an available 5-15 (120 VAC) outlet to power the demagnetizer.

III. Parts & Components

a. Component List

Demag Station (PS-DEMAG-STATION): The mobile, caster-mounted workstation that houses the demagnetizer and provides the stainless steel staging surface.

b. Optional Accessories / Add-ons / Service SKU's

Demagnetizer Replacement (PS-MAG-ELE-KIT): Includes replacement demagnetizer, wiring and all electrical components for replacement.

Replacement MagVision Kit (PS-MAG-FILM-KIT): Includes frame and polarity tester film.

IV. Specifications

- a. Dimensions: 24" W x 24" D x 35" H
- b. Weight: 60 lbs
- c. Power / Utility Requirements: 5-15 120 VAC
- d. Operating Conditions
 - Temperature: 5°C –40°C (41°F –104 °F)
 - Humidity: ≤80% relative humidity at ≤31°C decreasing linearly to 50% relative humidity at 40°C (non-condensing)
 - Altitude: up to 2,000 m (6,562 ft)
 - Indoor use only; place on a level, dry surface away from standing water and flammable agents

e. Performance Capabilities

- Demagnetization cycle: single-button activation with a fixed 60-second run time and automatic shut-off
- Duty cycle: one cycle per use, with a 10-minute cooldown between uses
- Effective demagnetizing zone: instruments passed within 2–3 in. of the surface
- Residual magnetism: reduces residual field on surgical instruments to a negligible level (below 50 gauss).
- Verification: pass/fail visual confirmation via the Magnetic Detection Unit film

V. Installation & Setup

The Demag Station ships fully assembled. No assembly is required.

a. Required Tools / Materials

None required.

b. Assembly Steps

1. Remove the Demag Station from the shipping pallet.
2. Move the station into the department and position it at the desired point of use.

c. Utility Connections

Plug the station into an available 5-15 (120 VAC) outlet.

d. Functional Verification

After positioning and connecting the station, power on the demagnetizer to confirm it is operating properly before placing the unit into service. Refer to the Operating Instructions for power-on steps. If the demagnetizer does not power on or does not remove magnetism as expected, see the Troubleshooting section.

VI. Operating Instructions

Demagnetizer

1. Plug the Demag Station into a power source.
2. Place the instrument(s) at the rear of the station. Inspect each instrument with the MagVision Film to determine if it needs to be demagnetized.
3. To demagnetize an instrument, press the button located to the left of the demagnetizer. The button will illuminate to indicate the demagnetizer is powered.
4. Slowly move the instrument across the demagnetizer, about 2"–3" above the surface. Press the button a second time to turn off the demagnetizer, or it will automatically power off after 60 seconds.

5. Use the MagVision Film to verify that the instrument has been properly demagnetized.
6. Repeat steps 3–4 for each instrument requiring demagnetization.

MagVision Film

1. Hold MagVision Film with green side facing the operator. Place instrument on the rear (black side) of the detector.
2. Slide the instrument across the detection film to identify magnetization.
 - a. If magnetized, there will be a shift in color.
 - b. If item is not magnetized, the film will maintain a green color.
3. If instrument is magnetized, first follow the demagnetizer steps, then repeat steps 1-2.

VII. Cleaning & Maintenance

Daily Maintenance

It's recommended to disinfect the surface of the station between instrument sets, or at a minimum once a day to eliminate dust, lint build-up or the potential contaminants that can accumulate. Spec Clean™ Ready-to-Use Disinfectant, or disinfectant of similar use and composition, are appropriate options.

The station can be polished with stainless steel polish or cleaner to keep the system in good condition. Use lint-free cloths during cleaning and polishing.

MagVision Film

To keep the MagVision Film in good condition, it's recommended not to stage or drop heavy trays or instrumentation on top. The glass can be cleaned and wiped with surface disinfectants for daily maintenance.

VIII. Troubleshooting

Demagnetizer Not Powering On

1. Underneath the tabletop, locate the plastic electrical housing behind the bracket holding the demagnetizer. Ensure the power plug is fully seated in the outlet on the side of this housing.
2. Unplug the power cable going into the electrical housing and plug it directly into the wall. If the demagnetizer powers on, the electrical housing must be replaced. If it does not power on, the demagnetizer must be replaced.

MagVision Film Not Detecting Magnetic Fields

1. Inspect the film for any visible damage. If damaged, replace with new film.
2. If the film has been in use for longer than 3 months, replace with new film.

IX. Service & Support

Pure Processing is committed to supporting your PureSteel Demag Station throughout its serviceable life. For technical support, service requests, warranty claims, or to order replacement parts and accessories, contact Pure Processing:

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[CALL OUT WARRANTY TERMS]