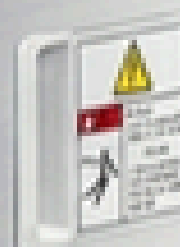


**SME-5200**

# SME-5200 Pallet Cleaning Machine: Installation & Activation Protocol

A step-by-step guide for authorized  
Southern Machinery technicians.

 SOUTHERN  
MACHINERY

# The Mission: From Crate to Full Operational Readiness

The installation protocol is executed in three critical phases. Each phase ensures a safe, efficient, and correct activation of your SME-5200 system.



## Phase 1: Secure the Perimeter

Site preparation, environmental checks, and utility verification.



## Phase 2: Establish Connections

Machine siting, physical connection of power, air, fluids, and ventilation.



## Phase 3: Go-Live Sequence

Pre-start inspections, initial power-on, and system commissioning.



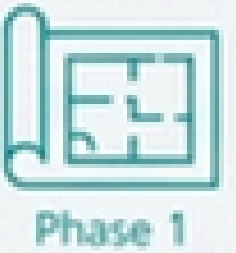
# Phase 1: Secure the Perimeter

Preparing the Operational Environment for a successful installation.

## MISSION CHECKLIST

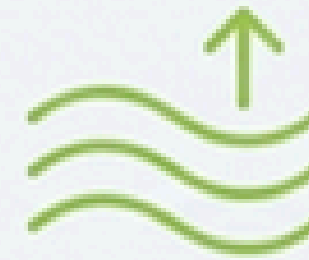
- Site & Environment
- Power & Air Supply
- Space & Ventilation

# Environmental & Site Prerequisites



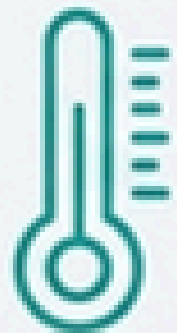
## Ground Condition

Must be solid, flat, and tidy.



## Environment

Good ventilation, dry, clean, and dust-free.



## Temperature

0°C to 30°C.



## Humidity

Less than 85% (no dew).

## Prohibitions



No direct sun exposure



No high vibration



No corrosive/flammable gas



No nearby fire/heat sources

# Verifying Core Utility Specifications



## Power Supply

**AC 380V / 50Hz / 63A**

3-Phase (TN-S System)

### Critical Note

Must have green cable connected to ground.



## Compressed Air

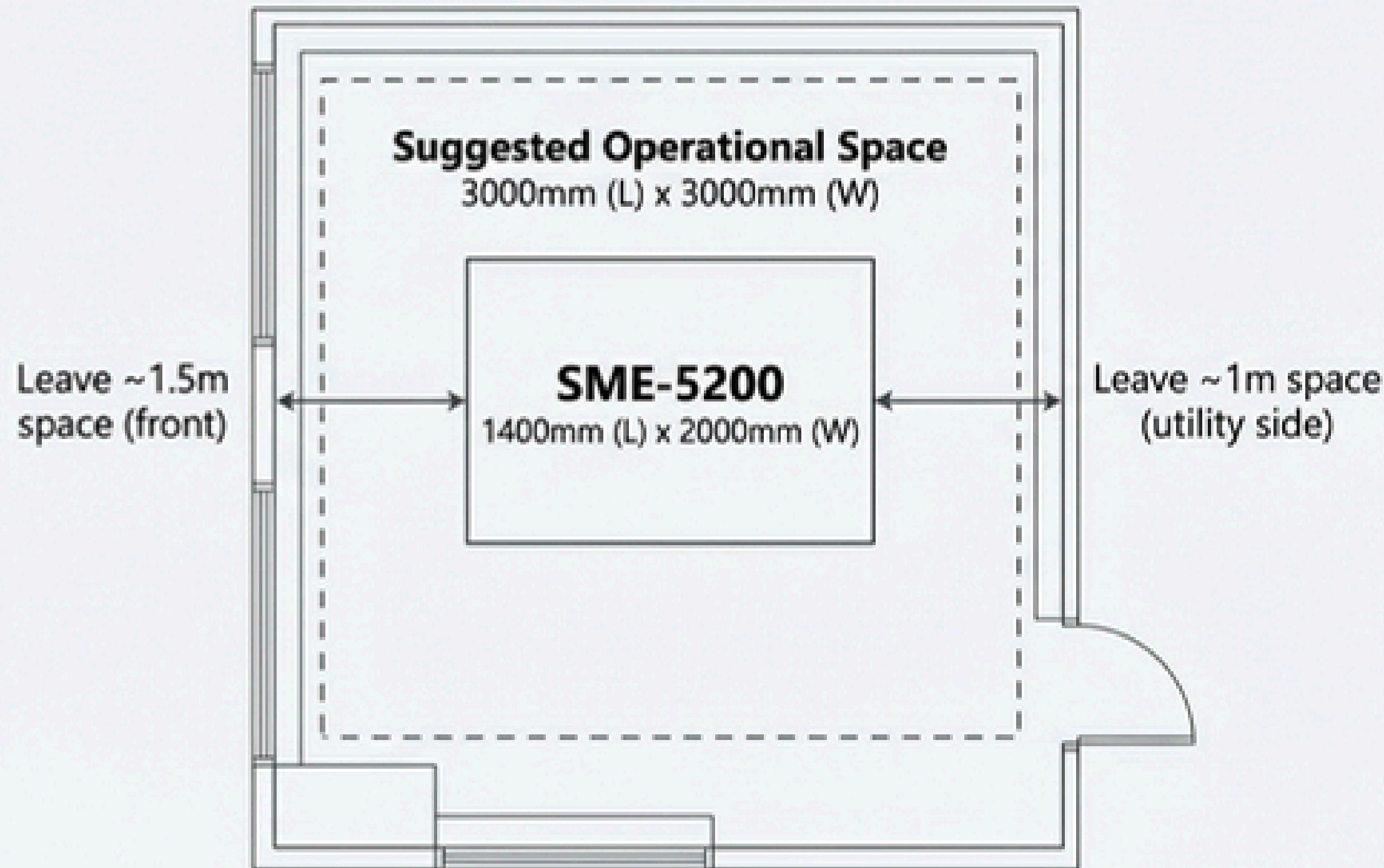
**0.5 ~ 0.7 Mpa**

Flow Rate: 400 ~ 600 L/Min

### Critical Note

Air must be dry, clean, and free of oil.

# Space Allocation and Air Management



**Vent Size:**  $\Phi$ 120mm


**Connection:**  
Use PVC or Tin tube.

**Exhaust Fan:**  
Required if the hose is >6m  
or has >2 elbows.



**Critical Safety Note:**

Never connect to ducts with  
heat or fire sources.



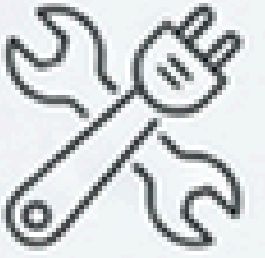
# Phase 2: Establish Connections

Core installation and utility integration.

## Mission Checklist

- Site & Environment
- Power & Air Supply
- Space & Ventilation
- Machine Siting
- Fluid & Vent Lines
- Electrical Hookup

# Unpacking and Siting the Machine



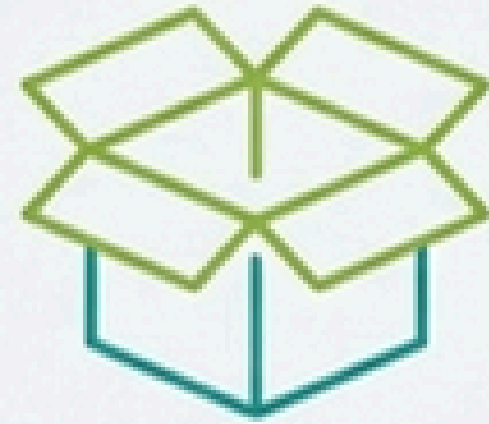
Phase 2



**1.**

## 1. Inspect

Carefully examine the plywood case for any external damage before opening. Photograph and report any issues immediately.



**2.**

## 2. Unpack

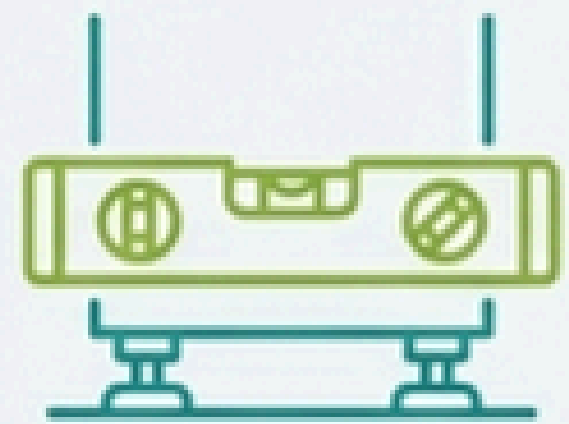
Open the case carefully.



**3.**

## 3. Move

Use an auto forklift to move the machine to the designated installation ground.



**4.**

## 4. Position

Lower the foot cups to level and stabilize the machine on the flat ground.

# Utility Connection Hub

**Compressed Air Port**  
( $\varnothing$ 12 soft air hose)

**Liquid Add (Inlet) Port**  
(1" female coupling)

**Water Add (Inlet) Port**  
(1" female coupling,  
Water pressure  $\leq 0.5\text{Mpa}$ )

**Clean/Rinse Drain  
(Outlet) Port**  
(1" female coupling)

**Power Cable Port**  
(3 Phase, AC380V  
50HZ, 63A)





Phase 2

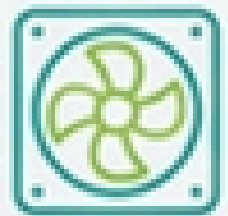
# Securing Fluid and Ventilation Lines



- Liquid & Water Add:** Connect hoses to the respective 1" inlet ports. Ensure water pressure is available for automatic filling.



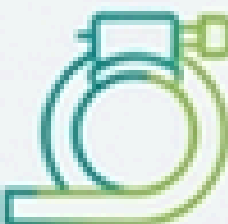
- Drain:** Connect a 1" external discharge pipe to the drain outlet.



- Vent:** Connect the  $\Phi 120\text{mm}$  vent hose to the factory's main ventilation line.



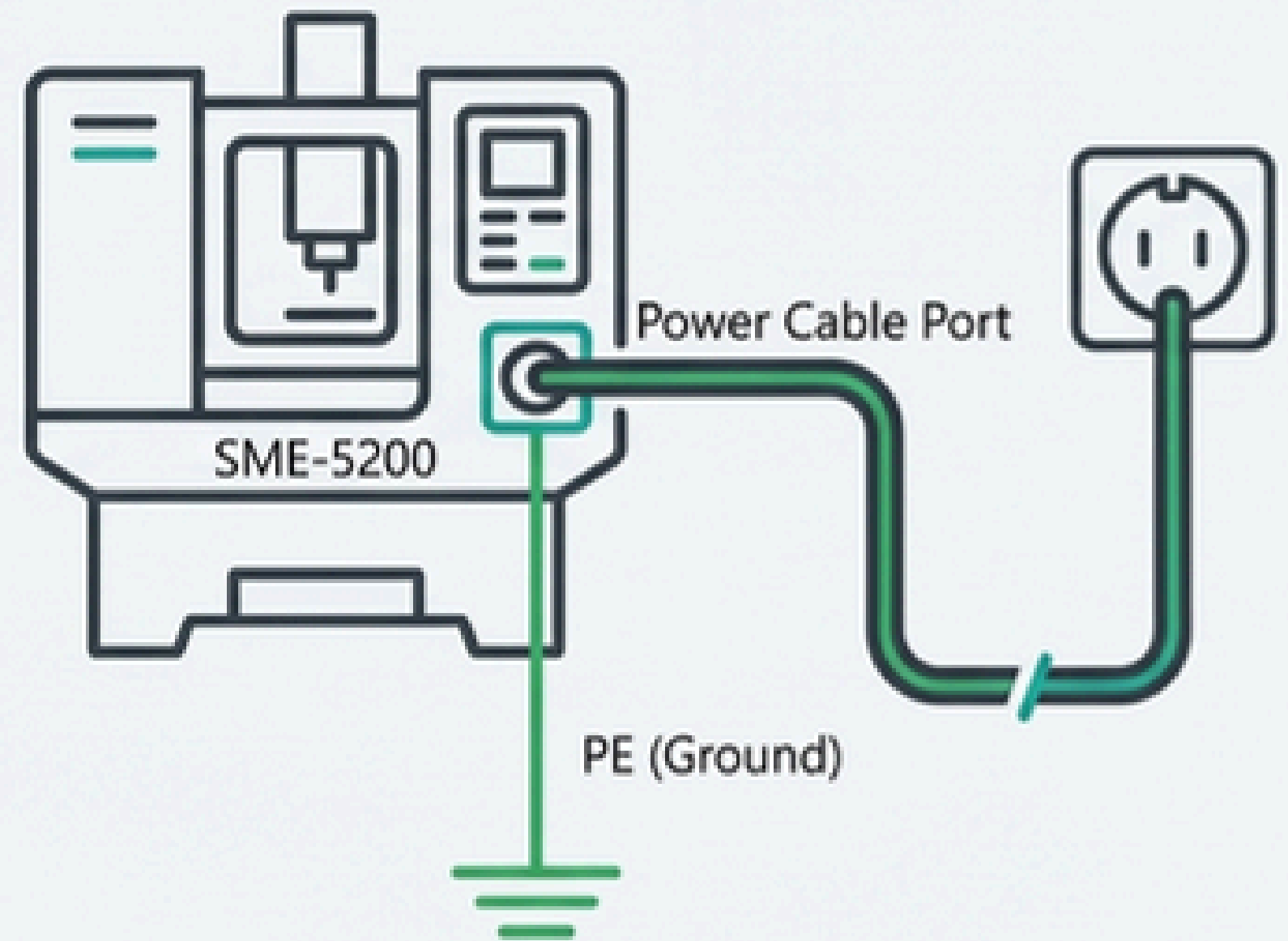
- Seal All Joints:** Use PTFE tape on all threaded joints to ensure a secure, leak-free connection.



- Secure Hoses:** Use clamps or nylon cable ties to fix hoses firmly.

# Final Electrical System Integration

- Connect the main power cable to the **Power Cable Port**.
- Verify the power source matches the machine nameplate: **3-phase 380VAC 50Hz**.
- Ensure the air breaker and cable size meet the **63A** requirement.
- **CRITICAL:** The machine must be connected to the earth through the designated ground line (PE).



# Phase 3: Go-Live Sequence

Segoe UI Regular

System commissioning and first-run verification.

## Mission Checklist

- Site & Environment
- Power & Air Supply
- Space & Ventilation
- Machine Siting
- Fluid & Vent Lines
- Electrical Hookup
- Pre-Start Inspection
- System Flush & Fluid Fill
- Post-Start Systems Check



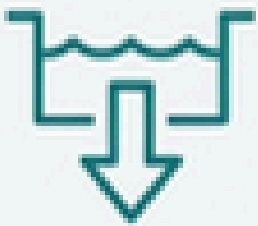



# Pre-Start Inspection Protocol

Confirm the following before applying power:

- Input power specifications match the machine.
- All fluid and drain pipes are correctly installed and sealed.
- All water control valves are in the correct position.
- All filters (nets, barrels) are clean and correctly installed.
- All machine covers, lids, and glass are secured.
- No foreign objects are on or in the mechanism transmission devices.
- The ventilation system is operational.

# Power-On and Initial System Flush

- 1.**  **1. Power On:** Turn the main breaker in the electrical cabinet to ON, then turn on the Power Switch on the operational panel.
- 2.**  **2. Initial Flush:** Add **clean tap water** to the liquid tank. Run a cleaning cycle for 10 minutes to flush the system. Repeat 3-5 times.
- 3.**  **3. Drain System:** Drain all tap water from the machine.
- 4.**  **4. Fill for Operation:** Add the specified **water-base cleaning liquid** to the liquid tank and tap water to the rinse tank to the normal working level (H level).



# Mission Complete: SME-5200 Activated

Conduct final systems checks to confirm operational readiness.

- ✔ Operation software is stable.
- ✔ Cleaning basket turns smoothly.
- ✔ Clean and rinse pumps are running correctly.
- ✔ Heaters (Liquid, Water, Air) are functioning.
- ✔ No fluid leakage from any pipes or joints.
- ✔ Ventilation is effective.