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VEVOR SBC90

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Model: SBC90

1. PRODUCT OVERVIEW

The VEVOR 25 Gallon Sandblasting Cabinet (Model SBC90) is a portable benchtop unit designed for efficient surface treatment and cleaning tasks. It is suitable for small DIY projects in home workshops or garages, capable of handling up to 33 lbs of blasting media at a working pressure of 40-120 PSI. This heavy-duty steel cabinet is equipped with a blasting gun and ceramic nozzles, making it ideal for polishing, rust and paint removal, and eliminating oxidation layers from various materials.



Figure 1: VEVOR 25 Gallon Sandblasting Cabinet, front-side view.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating the sandblasting cabinet. Failure to follow safety guidelines can result in serious injury or damage to the equipment.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses or a face shield, gloves, and a respirator to protect against airborne particles.
- **Ventilation:** Ensure adequate ventilation in your workspace. Although the cabinet is designed for minimal dust leakage, proper airflow is crucial.
- **Air Pressure:** Do not exceed the maximum recommended working pressure of 120 PSI.
- **Media Compatibility:** Use only compatible blasting media such as glass beads, silicon sand, or aluminum oxide. Incompatible media can damage the equipment or pose safety risks.
- **Electrical Safety:** If the unit includes electrical components (e.g., lighting), ensure it is properly grounded and connected to a suitable power source. Disconnect power before performing maintenance.
- **Stability:** Place the cabinet on a stable, level surface to prevent tipping during operation.

3. ASSEMBLY

The VEVOR Sandblasting Cabinet requires assembly. Follow the instructions carefully to ensure proper and safe operation. The assembly process typically takes a few hours.

Components Included:

- Blasting Gun
- Ceramic Nozzles (4 pieces)
- Cabinet Inner Lens Protectors (4 pieces)
- Pair of Gloves
- Sealant (50g)
- Seal Tape
- Assembly Accessories (screws, nuts, washers)

During assembly, it is crucial to apply the provided sealant to all seams and panel joints to ensure a dust-free operation and prevent media leakage. This step is vital for the cabinet's performance and longevity.

SPACIOUS OPERATIONAL AREA

Strong sealing to prevent leakage



Air Filter
Prevent dust leakage

Built-in Parts Tray
Keep small parts organized

Figure 2: Internal view showing the air filter and built-in parts tray, highlighting the spacious operational area.

4PCS CERAMIC NOZZLES

Meet different sandblasting precision requirements



Figure 3: The blasting gun and the four included ceramic nozzles (4.5mm, 5mm, 6mm, 7mm) for varied applications.

4. SETUP

Proper setup ensures optimal performance and safety.

1. **Placement:** Position the sandblasting cabinet on a sturdy, level workbench or surface.
2. **Air Compressor Connection:** Connect your air compressor to the cabinet's air inlet. The cabinet operates efficiently with air pressure between 40-120 PSI and a minimum airflow of 5 CFM. It is recommended to use an inline air filter/moisture trap to prevent condensation from contaminating the blasting media.
3. **Media Loading:** Load your chosen blasting media (e.g., glass beads, silicon sand, aluminum oxide) into the cabinet. The cabinet has a sand loading capacity of up to 33 lbs.
4. **Dust Collection:** For enhanced cleanliness and safety, connect a shop vacuum or dust collector to the exhaust port of the cabinet. This significantly minimizes dust leakage during operation.
5. **Visibility:** Ensure the acrylic window is clean and free of obstructions. The cabinet features bright LED lighting for excellent visibility of the workpiece. Remember to remove the thin protective film from the plexiglass before first use.

25 GALLON LARGE CAPACITY BLASTING CABINET

Efficient surface treatment and cleaning tasks



40-120 PSI
Working Pressure



33.3 lbs
Sand Loading Capacity



25 Gallon
Cabinet Capacity



Figure 4: Key specifications including 25 Gallon capacity, 40-120 PSI working pressure, and 33.3 lbs sand loading capacity.

5. OPERATING INSTRUCTIONS

Follow these steps for effective and safe sandblasting:

1. **Prepare Workpiece:** Place the item to be blasted inside the cabinet. Ensure it is stable on the internal grate.
2. **Select Nozzle:** Choose the appropriate ceramic nozzle size (4.5mm, 5mm, 6mm, or 7mm) based on the desired precision and media type. Smaller nozzles provide finer detail and higher pressure concentration.
3. **Close Cabinet:** Securely close the cabinet door and engage the window locks to prevent media escape.
4. **Activate Lighting:** Turn on the internal LED lighting for clear visibility of the workpiece.
5. **Begin Blasting:** Insert your hands into the integrated gloves. Hold the blasting gun and direct the nozzle towards the workpiece. Press the trigger to begin blasting. Adjust air pressure as needed for optimal results.
6. **Monitor Progress:** Continuously monitor the blasting process through the acrylic window. The clear vision and bright lighting enhance efficiency.
7. **Finish Blasting:** Release the trigger to stop blasting. Allow any airborne dust to settle before opening the cabinet door.

EFFICIENT SURFACE TREATMENT

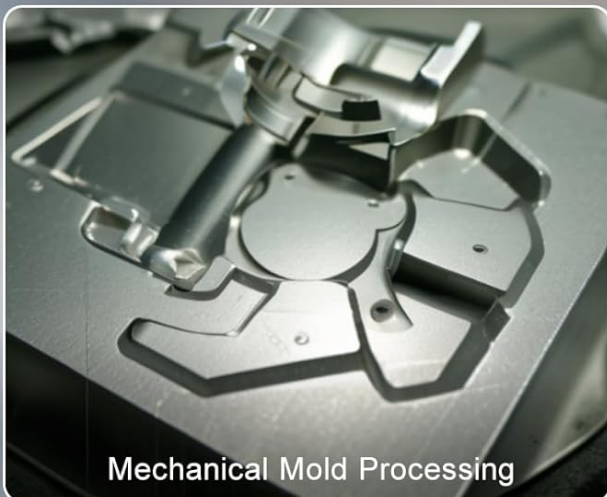
Precision finishing perfected on various materials



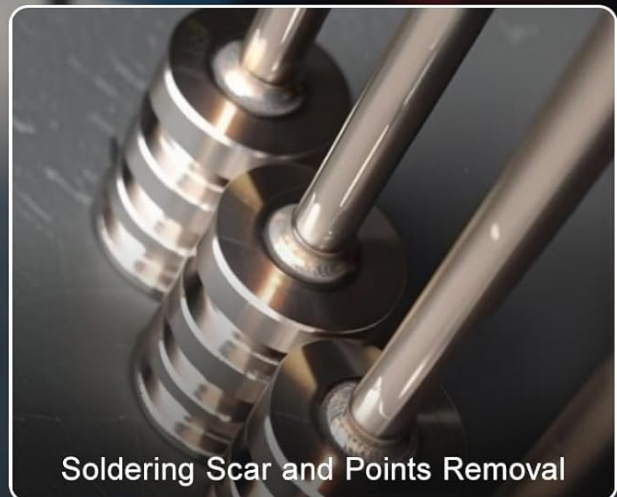
External Paint Surface Removal



Rust and Oxidation Layer Removal



Mechanical Mold Processing



Soldering Scar and Points Removal

Figure 5: Demonstrations of the cabinet's versatility in surface treatment, including external paint removal, rust and oxidation layer removal, mechanical mold processing, and soldering scar and points removal.

6. MAINTENANCE

Regular maintenance ensures the longevity and performance of your sandblasting cabinet.

- **Clean Cabinet:** Periodically clean the interior of the cabinet to remove spent media and debris.
- **Nozzle Inspection:** Inspect ceramic nozzles regularly for wear. Replace worn nozzles to maintain blasting efficiency and prevent damage to the blasting gun.
- **Air Filter Maintenance:** Check and clean or replace the air filter as needed to ensure proper airflow and prevent dust buildup.
- **Seal Integrity:** Regularly inspect all seals and gaskets for wear or damage. Reapply sealant if any leaks are detected to maintain dust-free operation.
- **Window Protection:** Utilize the provided lens protectors to extend the life of the acrylic window. Replace them when visibility is compromised.

HEAVY DUTY COLD-ROLLED STEEL STRUCTURE

Rust and corrosion resistant, built to last



Anti Corrosion



Rust Resistant



Non Deformation



Powder Coated Finish
Enhance surface durability

Figure 6: The cabinet's robust construction from cold-rolled steel with a powder-coated finish, providing anti-corrosion, rust-resistant, and non-deformation properties.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Media leakage from cabinet	Improperly sealed joints or worn gaskets.	Inspect all seams and gaskets. Reapply sealant or replace gaskets as necessary. Ensure all screws are tightened.
Poor blasting performance / Low pressure	Insufficient air supply, clogged nozzle, or moisture in air line.	Check air compressor output and connections. Clean or replace nozzle. Install or check air filter/moisture trap.
Reduced visibility inside cabinet	Dirty window or worn lens protector.	Clean the acrylic window. Replace the inner lens protector.
Blasting gun not working	Clogged gun, air supply issue, or damaged trigger.	Clear any blockages in the gun. Verify air supply. Inspect trigger mechanism.

8. SPECIFICATIONS

Feature	Detail
Item Model Number	SBC90
Cabinet Capacity	25 Gallon
Sand Loading Capacity (60 Grit)	33.3 lbs / 15.12 kg
Working Pressure	40-120 PSI
Main Material	Cold-Rolled Steel
Net Weight	28.7 lbs / 13 kg
Product Dimensions	24.4 x 19.0 x 19.1 inches / 620 x 483 x 485 mm

Main Accessories:

- 4 x Ceramic Nozzle
- 1 x Blasting Gun
- 1 x Set of Assembly Accessories



Specifications

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Net Weight: 28.7 lbs / 13 kg		
Product Dimensions: 24.4 x 19.0 x 19.1 in / 620 x 483 x 485 mm		
Main Accessories		
4 x Cabinet Inner Lens Protector		4 x Nozzles (4.5, 5, 6, 7mm)
1 x Blasting Gun		1 x Pair of Gloves
1 x 50g Sealant	1 x Seal Tape	1 x User Manual

Figure 7: Visual representation of product dimensions and a summary of specifications and main accessories.

9. WARRANTY AND SUPPORT

For any questions regarding product operation, maintenance, or troubleshooting not covered in this manual, please contact VEVOR customer support. Keep your purchase receipt for warranty claims.

Visit the official VEVOR store for more information and support: VEVOR Official Store

