

Happybuy SBC200

Happybuy 60 Gallon Sandblasting Cabinet User Manual

Model: SBC200

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Happybuy 60 Gallon Sandblasting Cabinet, Model SBC200. This heavy-duty steel cabinet is designed for various surface treatment tasks, including paint, stain, and rust removal, utilizing abrasive media with a working pressure of 40-120 PSI.

Key features include a durable cold-rolled steel construction with a powder-coated finish for corrosion resistance, a large observation window with LED lighting for clear visibility, and a pre-installed sealing strip to minimize dust leakage. The cabinet has a 60-gallon capacity, accommodating up to 203.4 lbs of blasting media.



Figure 1: Happybuy 60 Gallon Sandblasting Cabinet, Model SBC200. This image shows the overall view of the sandblasting cabinet, highlighting its robust construction and design for efficient surface treatment.



Figure 2: Heavy-duty cold-rolled steel structure. This image emphasizes the cabinet's durable construction with a powder-coated finish, providing anti-corrosion and rust-resistant properties for long-term use.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating the sandblasting cabinet. Failure to follow these instructions may result in serious injury or damage to the equipment.

- **Read the Manual:** Before assembly or operation, thoroughly read and understand all instructions in this manual.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and a respirator, to protect against abrasive media and dust. The cabinet includes integrated gloves for hand protection during operation.
- **Ventilation:** Ensure adequate ventilation in the work area to prevent accumulation of dust and fumes.
- **Air Compressor:** Use an air compressor that meets the specified working pressure (40-120 PSI) and CFM requirements. Ensure the air supply is clean and dry.
- **Electrical Safety:** If the unit includes electrical components (e.g., LED lighting), ensure proper electrical connections and grounding. Disconnect power before maintenance.
- **Abrasive Media:** Use only recommended abrasive media. Never use silica sand, as it can cause severe respiratory issues.
- **Stability:** Ensure the cabinet is placed on a stable, level surface before operation to prevent tipping.
- **Children and Bystanders:** Keep children and unauthorized personnel away from the work area.
- **Maintenance:** Perform regular maintenance as described in this manual to ensure safe and efficient operation.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking. If any parts are missing or damaged, contact Happybuy customer support.

- 1 x Blasting Gun
- 1 x 50g Sealant
- 1 x Set of Assembly Accessories

- 4 x Ceramic Nozzles (4.5, 5, 6, 7mm)
- 1 x User Manual (this document)
- 1 x Seal Tape
- 1 x Pair of Gloves (integrated into cabinet)
- 4 x Cabinet Inner Lens Protector

4. SETUP AND ASSEMBLY

Follow these steps to assemble and set up your sandblasting cabinet. It is recommended to have assistance during assembly due to the unit's size and weight.

1. **Unpack Components:** Carefully remove all parts from the packaging and lay them out. Refer to the parts list in the assembly accessories set.
2. **Assemble Stand:** Attach the legs and support beams to form the cabinet stand. Ensure all bolts are securely tightened.
3. **Mount Cabinet:** Carefully lift the main cabinet body and place it onto the assembled stand. Secure it using the provided hardware.
4. **Install Hopper:** Attach the abrasive media hopper to the bottom of the cabinet, ensuring a tight seal to prevent leakage. Use the provided sealant and seal tape as necessary.
5. **Connect Air Supply:** Connect your air compressor hose to the cabinet's air inlet. Ensure all connections are secure and leak-free. The working pressure range is 40-120 PSI.
6. **Install Blasting Gun and Nozzles:** Connect the blasting gun to the internal hose. Select the appropriate ceramic nozzle (4.5, 5, 6, or 7mm) for your application and install it onto the blasting gun.
7. **Install Lens Protectors:** Place the inner lens protectors over the observation window to prevent scratching during operation.
8. **Electrical Connection (if applicable):** If your model includes LED lighting, connect the power cord to a suitable grounded electrical outlet.



Figure 3: Assembled Happybuy Sandblasting Cabinet. This image illustrates the fully assembled unit, including its dimensions, which are crucial for planning placement and ensuring proper setup.

5. OPERATING INSTRUCTIONS

Before operating, ensure all safety precautions are understood and followed.

1. **Load Abrasive Media:** Open the top lid of the cabinet and carefully pour the desired abrasive media (e.g., glass beads, aluminum oxide) into the hopper. The cabinet has a capacity of 60 gallons, holding up to 203.4 lbs of media. Close the lid securely.
2. **Connect Air Compressor:** Ensure your air compressor is connected and set to the desired working pressure, between 40-120 PSI.
3. **Insert Workpiece:** Place the item to be blasted inside the cabinet through the side access door. Ensure the door is securely latched before beginning operation.
4. **Wear Gloves:** Insert your hands into the integrated gloves provided on the front of the cabinet.
5. **Activate Lighting:** If equipped, turn on the internal LED lighting for clear visibility of the workpiece.
6. **Begin Blasting:** Aim the blasting gun at the workpiece and press the trigger to begin abrasive flow. Move the gun steadily across the surface to achieve an even finish.
7. **Monitor Progress:** Observe the blasting process through the observation window. Adjust air pressure or nozzle size as needed for optimal results.
8. **Finish Blasting:** Release the trigger to stop the abrasive flow. Allow any airborne dust to settle before opening the cabinet door.
9. **Remove Workpiece:** Open the side access door and carefully remove the treated item.



Figure 4: Interior view of the sandblasting cabinet. This image highlights the spacious operational area and built-in parts tray, designed for efficient and organized blasting tasks.



Figure 5: Included ceramic nozzles. This image displays the four ceramic nozzles (4.5mm, 5mm, 6mm, 7mm) and the blasting gun, illustrating the versatility for different precision requirements.



Figure 6: Examples of surface treatment. This image demonstrates the cabinet's effectiveness in removing paint, rust, oxidation layers, and processing mechanical molds, showcasing its versatile applications.

6. MAINTENANCE

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

- **Empty Used Media:** After each use or when the media becomes contaminated, empty the used abrasive media from the hopper. Dispose of media according to local regulations.
- **Clean Cabinet Interior:** Periodically clean the interior of the cabinet to remove dust and debris. Use a shop vacuum for best results.
- **Inspect Nozzles:** Regularly inspect the ceramic nozzles for wear. Replace worn nozzles to maintain blasting efficiency.
- **Check Seals and Hoses:** Examine all seals, gaskets, and air hoses for signs of wear, cracks, or leaks. Replace any damaged components to prevent dust leakage and maintain air pressure.
- **Replace Lens Protectors:** Replace the inner lens protectors when they become scratched or opaque to maintain clear visibility.
- **Air Filter Maintenance:** If your air compressor has an air filter, ensure it is regularly cleaned or replaced to provide clean, dry air to the cabinet.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No abrasive flow or weak blasting.	<ul style="list-style-type: none">• Low air pressure from compressor.• Clogged nozzle or blasting gun.• Abrasive media is damp or clumped.• Hopper is empty.	<ul style="list-style-type: none">• Check compressor pressure and CFM.• Clear any blockages in the nozzle or gun.• Ensure media is dry; replace if necessary.• Refill hopper with abrasive media.

Problem	Possible Cause	Solution
Excessive dust leakage from cabinet.	<ul style="list-style-type: none">• Loose seals or gaskets.• Cabinet door not properly latched.• Worn gloves.	<ul style="list-style-type: none">• Inspect and tighten all seals; apply sealant if needed.• Ensure all doors and access points are securely closed.• Replace damaged gloves.
Poor visibility inside cabinet.	<ul style="list-style-type: none">• Scratched or dirty lens protector.• LED light not working.	<ul style="list-style-type: none">• Replace lens protector. Clean observation window.• Check LED power connection; replace bulb if faulty.

8. SPECIFICATIONS

Feature	Detail
Item Model Number	SBC200
Product Dimensions (L x W x H)	942 x 582 x 1384 mm / 37.1 x 22.9 x 54.5 inches
Cabinet Capacity	227 liters / 60 Gallon
Sand Loading Capacity (60 Grit)	92.24 kg / 203.4 lbs
Net Weight	35.7 kg / 78.7 lbs
Working Pressure	276-827 kPa / 40-120 PSI
Main Material	Cold-Rolled Steel
Included Nozzle Sizes	4.5mm, 5mm, 6mm, 7mm

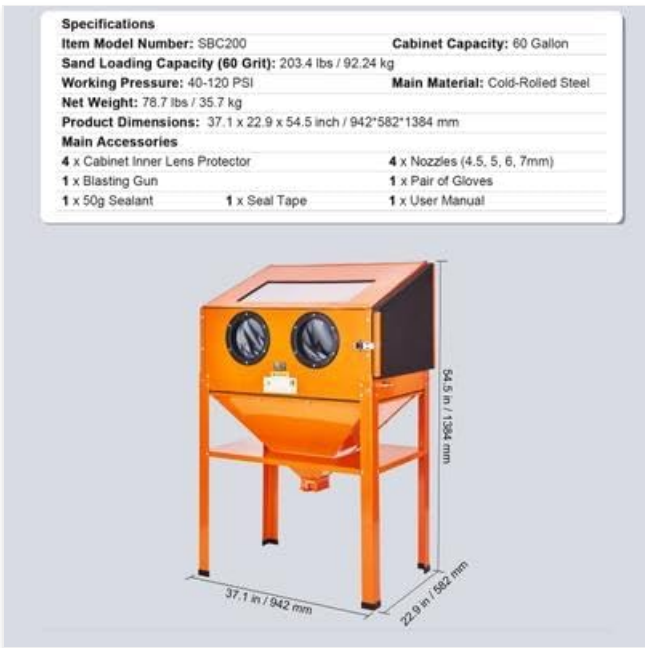


Figure 7: Detailed specifications and dimensions. This image provides a visual summary of the key product specifications and overall dimensions of the sandblasting cabinet.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact Happybuy customer service. Keep your purchase receipt and model number (SBC200) handy for faster service.

Visit the official Happybuy website for the most up-to-date contact information and support resources.