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> redsun 10 Gallon Abrasive Blaster Portable Sand Blasting Kit Instruction Manual

## redsun SB10-US

# redsun 10 Gallon Abrasive Blaster Portable Sand Blasting Kit Instruction Manual

Model: SB10-US

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation and maintenance of your redsun 10 Gallon Abrasive Blaster. This portable unit is designed for surface preparation tasks such as removing paint, rust, and stains from various materials. Please read this manual thoroughly before assembly or operation to ensure proper usage and to prevent injury or damage.



Figure 1: redsun 10 Gallon Abrasive Blaster, a portable unit for surface treatment.

## 2. SAFETY INFORMATION

Operating abrasive blasting equipment requires strict adherence to safety protocols to prevent injury. Always prioritize safety.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a respirator or blast hood, safety glasses, hearing protection, heavy-duty gloves, and protective clothing (e.g., a TYVEX suit) to shield against abrasive media and dust.
- **Ventilation:** Operate the sandblaster in a well-ventilated area to prevent the accumulation of dust and airborne particles.
- **Abrasive Media:** Use only approved abrasive blasting media. **Do not use beach sand, play sand, or unwashed sand**, as these can contain silica, which is hazardous when inhaled, and can clog the equipment.
- **Air Compressor:** Ensure your air compressor meets the pressure and SCFM requirements for the sandblaster (e.g., 125 psi operating pressure). The compressor must be equipped with a functional air filter and moisture trap.
- **Pressure Release:** Always release air pressure from the tank before refilling abrasive media or performing any maintenance.

- **Electrical Safety:** If using an electric air compressor, ensure it is properly grounded and used in a dry environment.
- **Children and Bystanders:** Keep children and unauthorized personnel away from the operating area.

### 3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- 10 Gallon Abrasive Blaster Tank with Wheels and Handles
- Blast Hose with Nozzle and Shut-off Valve
- Pressure Gauge
- Gas-Water Separator
- Filling Funnel
- Protective Hood (basic)
- Assorted Nozzles



Figure 2: Main unit with key components indicated.



Figure 3: Included accessories such as the funnel, protective hood, and hose.

#### 4. ASSEMBLY AND SETUP

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Follow these steps to assemble your abrasive blaster.

1. **Attach Wheels:** Securely attach the two 6-inch rubber wheels to the axle at the base of the tank. Ensure the wheels are firmly in place for easy movement.



*Figure 4: Detail of the rubber wheel and axle attachment.*

2. **Install Handles:** Mount the ergonomic handles to the top of the tank frame. These handles are designed for comfortable maneuvering of the unit.
3. **Connect Blast Hose:** Attach the blast hose to the outlet valve on the tank. Ensure all connections are tight to prevent air leaks.



*Figure 5: The 98-inch long blast hose with nozzle and shut-off valve.*

4. **Connect Air Compressor:** Connect your air compressor to the inlet port of the gas-water separator on the sandblaster. The gas-water separator is crucial for ensuring dry compressed air, which prevents clogging of abrasive media.
5. **Load Abrasive Media:** Open the top fill cap and use the provided funnel to load your chosen abrasive media into the tank. Do not overfill. Close the cap securely.

## 5. OPERATION

Before operating, ensure all safety precautions are followed and PPE is worn.

1. **Check Air Pressure:** Connect the air compressor and gradually increase pressure. Monitor the pressure gauge on the unit.

The operating pressure can be achieved up to 125 psi.



*Figure 6: Pressure gauge indicating operating pressure.*

2. **Adjust Media Flow:** The sandblaster features a pressurized design, offering 30% more blasting power than siphon units. Adjust the media flow valve at the bottom of the tank to control the abrasive output.
3. **Begin Blasting:** Aim the nozzle at the surface to be treated, maintaining a consistent distance and angle for even removal. Move the nozzle steadily across the surface.
4. **Monitor Progress:** Regularly inspect the workpiece to assess the progress of paint, rust, or stain removal.



Figure 7: Example of rust removal using the abrasive blaster.

5. **Shut Down:** When finished, close the media flow valve, then turn off the air supply from the compressor. Depress the nozzle trigger to release any remaining air pressure in the hose and tank.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your sandblaster.

- **Clean After Use:** After each use, empty any remaining abrasive media from the tank. Clean the tank interior and exterior to prevent corrosion and buildup.
- **Inspect Hoses and Nozzles:** Regularly check the blast hose for wear, cracks, or damage. Inspect nozzles for erosion and replace them as needed to maintain efficient blasting.
- **Gas-Water Separator:** Periodically drain any accumulated moisture from the gas-water separator to ensure the compressed air remains dry. This prevents media clogging.
- **Storage:** Store the sandblaster in a dry, clean environment, away from extreme temperatures and moisture.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No abrasive flow or clogging	<ul style="list-style-type: none"> <li>Wet abrasive media</li> <li>Incorrect media type</li> <li>Blocked nozzle</li> <li>Insufficient air pressure</li> </ul>	<ul style="list-style-type: none"> <li>Drain gas-water separator; use dry media.</li> <li>Use approved, dry blasting media.</li> <li>Clear nozzle obstruction.</li> <li>Ensure compressor provides adequate pressure (up to 125 psi).</li> </ul>
Low blasting power	<ul style="list-style-type: none"> <li>Low air pressure</li> <li>Air leaks</li> <li>Worn nozzle</li> </ul>	<ul style="list-style-type: none"> <li>Increase air compressor output.</li> <li>Check all connections for leaks and tighten.</li> <li>Replace worn nozzle.</li> </ul>
Pressure drops quickly	<ul style="list-style-type: none"> <li>Air leaks in tank or hose</li> <li>Compressor unable to keep up</li> </ul>	<ul style="list-style-type: none"> <li>Inspect all connections and seals for leaks.</li> <li>Ensure compressor is adequately sized for continuous operation.</li> </ul>

## 8. SPECIFICATIONS

Feature	Detail
Model Number	SB10-US
Tank Capacity	10 Gallons
Operating Pressure	Up to 125 psi
Hose Length	98.4 Inches (approx. 2.5 meters)
Material	Welded Steel
Item Weight	38 pounds (approx. 17.2 kg)
Color	Blue
Manufacturer	HS Co.,Ltd

## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your redsun 10 Gallon Abrasive Blaster, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: HS Co.,Ltd

Brand: redsun

