



**JELENKO®
SAHARA™ SANDBLASTER**

**OPERATING AND
MAINTENANCE
INSTRUCTIONS**

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JELENKO® SAHARA™ SANDBLASTING UNIT

SPECIFICATIONS

Overall Dimensions:	19" wide x 13¼" deep x 15 ¹³ / ₁₆ " high (48.3 cm wide x 33.7 cm deep x 40.2 cm high)
Net Weight (less abrasive):	16.4 lbs (7.4 kg)
Abrasive Capacity:	10 lbs (4.5 kg)
Air Requirements:	30-100 lbs/sq in (2.1-7.0 kg/sq cm) 2 cu ft/min (57 liters/min) @ 50 lbs/sq in (3.5 kg/sq cm)
Electrical:	100V/115V 50/60 Hz - 20 Watts (PN 330700) 230V 50/60 Hz - 20 Watts (PN 330705)
Supplied Accessories:	<ul style="list-style-type: none">● 5 lb (2.3 kg) container of Quartz Abrasive● Pkg 2 - Ceramic Nozzle Tips● Allen Wrench (For nozzle tip replacement)

WARNING

The prolonged inhalation of certain types of abrasive dusts can cause lung damage.

When adding or draining abrasive material, ensure adequate ventilation to control dusting and wear a NIOSH or MSHA approved respirator.

Wash thoroughly after handling.

For further information, consult the MSDS for the abrasive type being used.

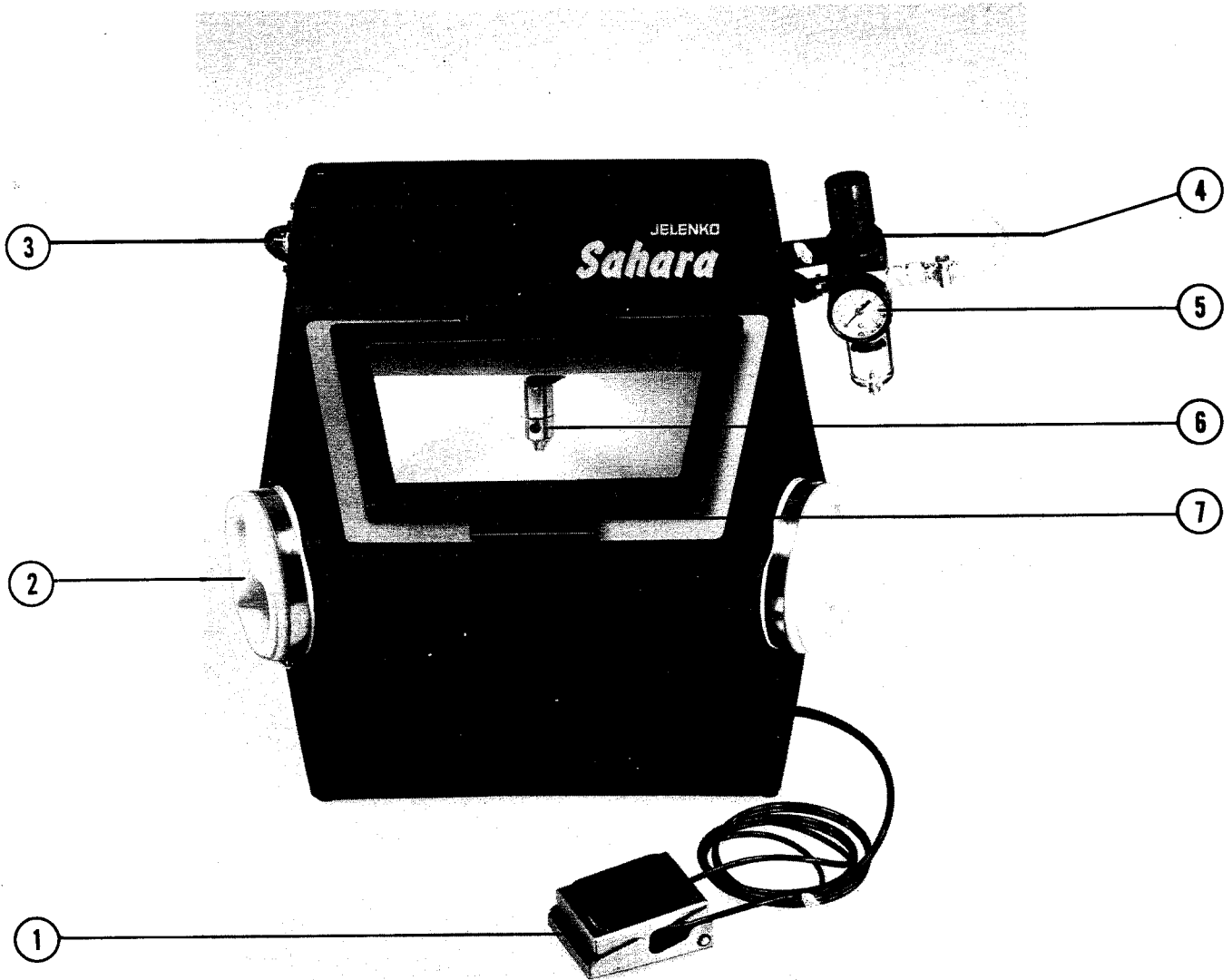
INSTALLATION

1. Remove all packaging material from around the sandblaster and open the Door by lifting upward on the DOOR LATCH. Remove all packaging material from the inside of the sandblaster.
2. Connect the Air Hose to an air source which is capable of providing a pressure between 30 - 100 lbs/sq in (2.1 - 7.0 kg/sq cm). For optimum operation of your Sahara™ unit, the air source should provide compressed air which is free from moisture.
3. Plug the Power Cord into a wall receptacle rated for the voltage of the equipment being used.
4. Position the Footswitch in a position which is comfortable for normal operation.
5. Check to make certain that the Drain Plug at the rear of the sandblaster is securely in place.
6. Open the Door by lifting upward on the DOOR LATCH, and while tilting the sandblaster slightly backward, pour the abrasive into the unit through the door opening. The sandblaster is fully "charged" with approximately 10 lbs (4.5 kg) of abrasive.
7. Make certain that the perforated screen inside the unit is in a level position at the bottom of the sandblaster.
8. The Air Regulator on the right side of the sandblaster may be adjusted to control the sandblasting pressure and rate of abrasive flow. To adjust the Air Regulator, pull upward on the regulator knob and rotate the knob counter-clockwise to decrease the pressure or clockwise to increase the pressure, while depressing the Footswitch.

For best results, the operating pressure, as indicated on the Pressure Gauge, should be set for a gauge reading of between 40 - 60 lbs/sq in (2.8 - 4.2 kg/sq cm). Note that the reading on the Pressure Gauge will normally increase slightly when the Footswitch is released, and that the true reading is obtained when the Footswitch is depressed. Once the desired operating pressure has been obtained, depress the regulator knob to "lock-in" the selected pressure.

9. Your Sahara™ Sandblaster is now ready for use.

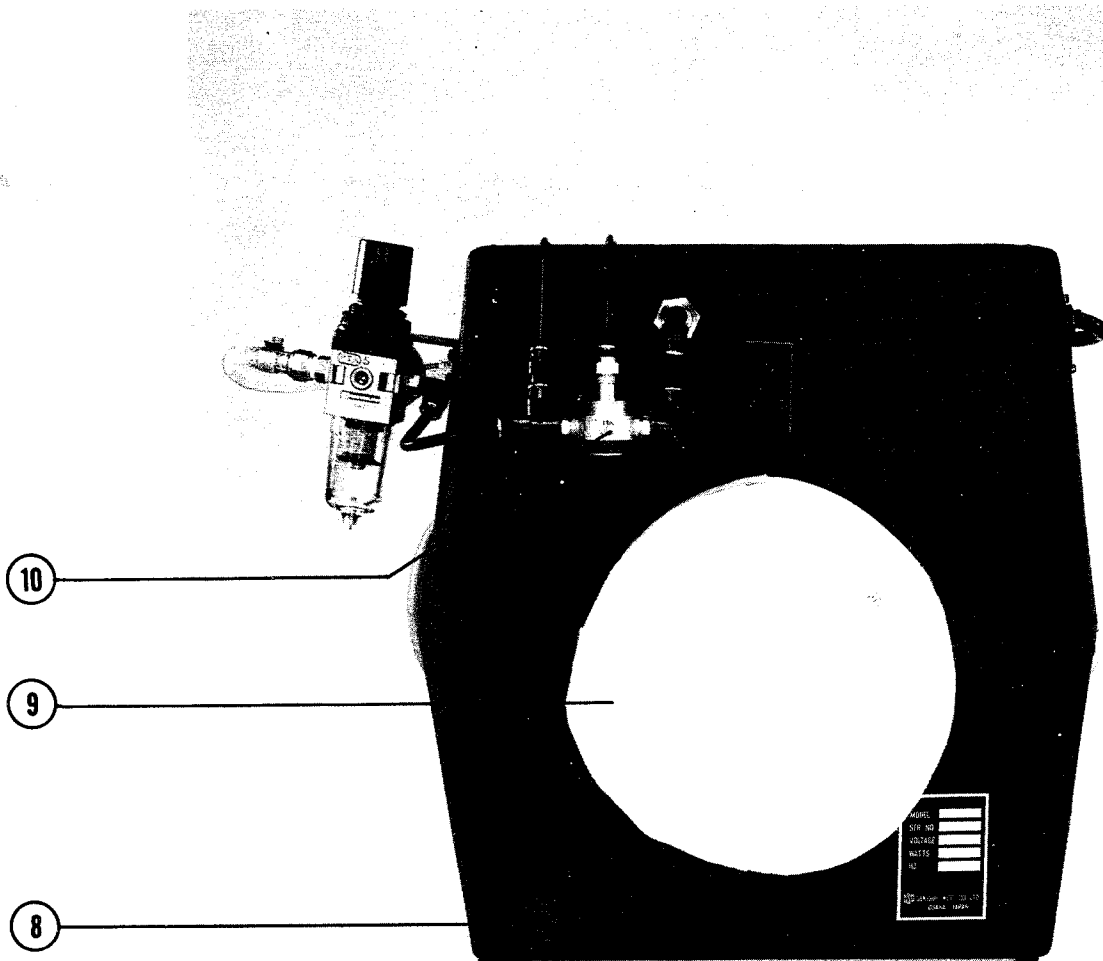
FRONT VIEW



- 1. FOOTSWITCH
- 2. GLOVE (1 of 2)
- 3. VIEWING LAMP SWITCH
- 4. FILTER/REGULATOR ASSEMBLY

- 5. PRESSURE GAUGE
- 6. NOZZLE ASSEMBLY
- 7. DOOR LATCH

REAR VIEW



- 8. DRAIN PLUG
- 9. FILTER BAG
- 10. REMOTE AIR VALVE

OPERATION

1. Turn the internal Viewing Lamp "on" by depressing the VIEWING LAMP SWITCH located on the left side of the sandblaster.
2. Open the Door by lifting upward on the DOOR LATCH.
3. Place the item(s) to be sandblasted inside the sandblaster, on the perforated screen at the bottom of the unit, or insert either hand into the appropriate glove and place the item(s) to be sandblasted in the fingers of the gloved hand.
4. Close the Door and latch it securely by depressing downward on the DOOR LATCH.
5. Using one or both gloved hands, hold the item to be sandblasted approximately $\frac{3}{4}$ " - 1" (1.9 cm - 2.5 cm) below the Nozzle Assembly and depress the Footswitch to start the abrasive flow.

During operation, the Footswitch should be released periodically to allow the abrasive to drain from the Nozzle Assembly. This draining feature helps to minimize nozzle clogging.

CHANGING THE ABRASIVE

The abrasive in the Sahara™ should be changed when the abrasive begins to lose its effectiveness, becomes powdery or contamination is apparent. As a recommendation, the abrasive should be changed once each month.

To change the abrasive, the procedure outlined below should be followed:

1. Hold the sandblaster over a waste receptacle and remove the Drain Plug from the rear of the sandblaster. Allow the abrasive to drain from the unit, gently shaking the unit to make certain that all abrasive has been drained.

When changing from one abrasive type to another, it is **IMPORTANT** that the original abrasive be drained completely before adding the new abrasive material; otherwise cross-contamination may occur.

2. Once drained completely, replace the Drain Plug, making certain that it is installed securely.
3. Position the sandblaster upright and add the new abrasive material by pouring it through the door opening with the Door open while tilting the unit slightly backward.

NOTE: Refer to the warning at the front of this manual regarding the handling of abrasive materials.

REPLACING THE RUBBER GLOVES

1. With the front of the sandblaster facing you, locate the screw on the clamp which secures each Rubber Glove to the glove flange and loosen the screw by turning counter-clockwise. Remove the glove clamp and the Rubber Glove.
2. Pull the glove away from the glove flange.
3. Reverse this procedure to install the replacement Rubber Glove(s).

REPLACING THE VIEW GLASS

1. With the front of the sandblaster facing you, loosen and remove the six screws located around the door frame.
2. Open the Door by lifting upward on the DOOR LATCH and lift the View Glass away from the door frame.
3. Reverse this procedure to install the replacement View Glass, making certain that a gasket is installed on each side of the View Glass and that the Screened Etching Protector has been replaced in the manner in which it was removed.

REPLACING THE CERAMIC NOZZLE TIP

The Sahara™ Nozzle has been constructed of a durable ceramic material. When new, the nozzle opening is nominally 0.09" (2.3 mm) in diameter, and this opening will increase in size with use. Eventually, the nozzle opening will increase in size to a point where abrasive will no longer flow through the Abrasive Feed Tube, indicating that the Ceramic Nozzle Tip requires replacement.

The procedure outlined below should be followed when replacing the Ceramic Nozzle Tip:

1. Loosen the Thumb Screw which secures the Nozzle Head to the Nozzle Assembly and remove the Nozzle Head.
2. Using an Allen wrench (supplied), loosen the small set screw which secures the Ceramic Nozzle Tip to the Nozzle Head.
3. Push the Ceramic Nozzle Tip out the Nozzle Head.
4. Reverse this procedure to install the replacement Ceramic Nozzle Tip, making certain that the flat end of the nozzle tip faces the inside of the sandblasting chamber. Also, when replacing the Nozzle Head, make certain that the rubber gasket is in place between the Nozzle Assembly and the Nozzle Head.

REPLACING THE VIEWING LAMP BULB

1. Unplug the Power Cord from your electrical outlet.
2. While facing the left side of the sandblaster, loosen and remove the four screws which secure the Viewing Lamp Assembly to the sandblaster housing. These screws are located along the outer edge of the Viewing Lamp Assembly mounting plate.
3. Slide the Viewing Lamp Assembly out of the sandblaster housing.
4. Unscrew the lamp enclosure by turning in a counter-clockwise direction.
5. Remove the lamp by depressing the lamp slightly and turn counter-clockwise.
6. Reverse this procedure to install the replacement lamp.

REPLACING THE FILTER BAG

The Sahara™ Filter Bag should be replaced if the bag develops any form of leakage of abrasive, or if an air pressure build-up within the sandblaster occurs and cleaning the Filter Bag will not relieve the pressure build-up.

1. With the rear of the sandblaster facing you, locate the screw on the clamp which secures the Filter Bag to the bag flange and loosen the screw by turning counter-clockwise. Remove the bag clamp and the Filter Bag.
2. Pull the Filter Bag away from the bag flange and discard the old Filter Bag.
3. Reverse this procedure to install the replacement Filter Bag, making certain that the bag is completely secured by the clamp along the entire edge of the flange.

NOTE: Refer to the warning at the front of this manual regarding the handling of abrasive materials.

SAHARA™ SANDBLASTER RENEWAL PARTS LIST

Jelenko Product No.	Part Description
330710	Line Cord - 100/115V
330711	Line Cord - 230V
330712	Viewing Lamp Switch
330713	Viewing Lamp - 100/115V
330714	Viewing Lamp - 230V
330715	Viewing Lamp Enclosure
330716	Ceramic Nozzle Tips - Pkg of 2
330717	Nozzle Head and Ceramic Nozzle Assembly
330718	Inner Steel Nozzle
330719	Rubber Glove Set
330720	Filter Bag
330721	Air Valve Assembly
330722	Footswitch and Air Tubing
330723	Pressure Gauge
330724	Filter/Regulator Assembly
330725	Filter Bag Clamp
330726	Rubber Glove Clamp
330727	Viewing Glass
330728	Viewing Glass Etching Protector
330729	Door Assembly
330730	Rubber Drain Plug
330731	Abrasive Feed Tube and Strainer