

SET UP SHEET FOR THE CrystalBlast PRO

The standard nozzles size for the CrystalBlast Sandcarving line of equipment is 3/32" using 6 cfm @ 35 psi blasting pressure. This will produce the finest film detail using 180 mesh abrasive with the proper film thickness.

The larger the nozzle, a worn out 3/32" is larger, the more abrasive is delivered and the more often you cycle the dust collector cleaning cycle.

The Pro has been designed to operate using the 3/32" nozzle and 180 mesh and larger abrasive.



Please read this sheet before operation of the machine. This single sheet will help you to understand proper setup for the machine and any special items making sure the machine operates properly. Use the machine manual for proper adjustment, operation and service of the machine.

After the machine packaging has been removed and the machine has been placed in its user location, you can use the casters to roll the machine into place, check the following items correcting any conditions that might prevent proper machine operation. Any unpainted shipping brackets for lifting can be removed after the machine is at user location.

Make sure you have enough compressed air volume for the blasting pressure you will be using. The 3/32" nozzle inside the Pro consumes 6 cfm @ 35 psi blasting pressure. Media Blast advises doubling this volume of compressed air to allow for nozzle wear that demands more compressed air volume. Look for a compressor indicating 12 cfm delivery at 90-100 psi. Never use the displacement cfm listed on the compressor as delivered cfm volume. This number does not have pressure inside the tank and you will quickly see the number at 90 to 100 psi is less. Unless you maintain 90-100 psi it is possible the machine air controls will not function properly.

1. Install an ambient dryer on the machine inlet or wall if the machine will be use more than one hour per day. The Pro is designed to be a 25% machine duty cycle using the standard 3/32" sandcarving nozzle. Using a larger nozzle will require cleaning the dust collector more often, double. The 25% duty cycle relates to about 60-120 minutes or about 1 to 2 hours of sandcarving daily.
2. Make sure to check any hard line air compressor supply lines for restrictions in the form of undersized plumbing fitting, Tee fittings or small undersized air controls that might be located on the compressor.
3. Insure the air is dry and moisture free. If the compressor is marginal in cfm volume, less than 12 cfm, the air will transfer to the cabinet hot and moisture will be created inside the cabinet, abrasive will then stop flowing.
4. The Pro includes the main air shut-off valve before the air inlet into the machine; this permits machine maintenance in the future and allows for pressure pot loading.
5. If the machine includes the padded armrest, remove the steel armrest and padded insert from the machine. Install the steel armrest using the supplied button head allen bolts, washers and nuts and push the padded rest into the frame.
6. All blasting cabinets require a negative pressure inside the cabinet. The Pro uses a 45 sq.ft. filter cartridge and Radial Pressure Blower on the clean side of the filtered air. Open the dust collector service access door and check the filter cartridge to make sure it is still tight after shipment. Often long tuck delivers can loosen the filter. With hands open and 180 degrees apart lightly hold the cartridge at the top and see if any movement is possible with a light push from side to side. If loose tighten the center holding nut until no movement is noticeable. Do not tighten enough to crush the filter cartridge pleats.
7. Attach the foot pedal valve to the pinch valve and Tee fitting before the air regulator. Push in on the fitting ring and push the tube into the fitting, pull back to make sure the tube is held in place.
8. The compressed air line of the Pro can be connected using a quick-disconnect air fitting capable of passing a total of 16 cfm of compressed air . Never use 1/4" yellow spiral hose, the friction inside the hose will slow the air flow down and limit compressed air volume.
9. Plug the machine service cord into any 20 amp. 120 volt single phase 60 cycle service outlet. It is important that no other electrical items are running off this service outlet. Radial Class III Blowers require a second to reach proper rpm, if the service line is not isolated and the circuit breaker is old it is possible to have the circuit breaker trip...NEVER USE EXTENSION CORDS.