

SET UP SHEET FOR THE CrystalBlast Artist Station

The standard nozzle 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.

If the machine is listed for use with the larger 1/8" nozzle, less blasting pressure will be required to maintain the same film detail.

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

The Artist Station is standard with 220 sq.ft. dust collector and 50% machine duty cycle using the 3/32" nozzle, an optional 440 sq.ft. dust collector is available extending the machine daily run cycle for larger nozzle use.



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, if equipped with optional casters you can use the leg casters to move the machine into position.

Make sure you have enough compressed air volume for the blasting pressure you will be using. The 3/32" nozzle inside the Artist Station consumes 7 cfm @ 40 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 at least 14 cfm delivery at 90-100 psi. Never use the displacement cfm listed on the compressor, this number has zero pressure inside the tank and you will quickly see the cfm 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 for the vibrator cleaning cycle and or the on-off abrasive flow control.

1. Install an ambient dryer on the machine air inlet or wall if the machine will be use more than one hour per day. The Artist Station is designed to be a 50% machine duty cycle using the standard 3/32" sandcarving nozzle. Using a larger nozzle will require cleaning the dust collector more often and produce less part detail unless you lower the blasting pressure. The 50% duty cycle relates to about 4 hours of daily sandcarving.
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. This is very important for larger nozzle use.
3. Insure the air is cool, dry and moisture free. If the compressor is marginal in cfm volume or close to the cabinet, the air will transfer to the cabinet hot passing through the air filter/regulator and moisture will be created inside the cabinet, abrasive will then stop flowing. A larger compressor volume equals cooler compressed air and a longer lasting air compressor. 16 to 18 cfm is a good match for the Artist Station with its daily usage.
4. The Artist Station does not include a main air shut-off valve before the air inlet into the machine; Install a main lockout machine shut off valve before the air inlet for machine service.
5. Make sure the line pressure into the Artist Station does not exceed 125 psi. It is possible to damage some controls with excessive line pressure.
6. All blasting cabinets require a negative pressure inside the cabinet. The Artist Station uses a 220 sq.ft. filter cartridge,(optional 440 available) patented separator reclaimer good to 220 mesh and larger 700 cfm Radial Pressure Blower with a running cfm of 500.
7. The compressed air supply line for the Summit should be 3/8" ID hose minimum using hose barb fittings. Never use 1/4" yellow spiral hose or quick disconnect fittings on a machine with pneumatic vibrator cleaning cycle.
8. 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.
9. Keeping the dust collector clean is key to proper operation of the Artist Station. If you are using a larger nozzle size (1/8") it will delivery twice as much abrasive in pounds per minute as the standard 3/32" nozzle. This means you want to clean the dust collector more often, twice as often, to maintain proper airflow. Exceeding the machine daily duty cycle and increasing the daily cleaning cycles can increase the machine daily duty cycle.