IKONICS IMAGING®

MADE IN USA

SET UP SHEET FOR THE CrystalBlast Summit

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.
If the machine can be used 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 is delivered and the more often you cycle the dust collector cleaning cycle.

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 leg levers to level the machine on uneven surfaces, if the machine has casters simply roll into position. You can remove any unpainted leg braces used for shipment at this time.
Make sure you have enough compressed air volume for the blasting pressure you will be using. The 3/32" nozzle inside the Summit 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 no 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 for the vibrator cleaning cycle.

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 Elite 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. The 50% duty cycle relates to about 4 hours of 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.
3. Insure the air is cool, dry and moisture free. If the compressor is marginal in cfm volume, less than 14 cfm, the air will transfer to the cabinet hot and moisture will be created inside the cabinet, abrasive will then stop flowing. A larger compress volume equals cooler compressed air and a longer lasting air compressor. 16 to 18 cfm is a good match for the Summit machine.
4. The Summit includes the main air shut-off valve before the air inlet into the machine; It is located right side of the dash panel next to the air filter. This permits machine maintenance in the future.
5. Make sure the line pressure into the Summit 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 Summit uses a 220 sq.ft. filter cartridge, patented separator reclaimer good for 220 mesh and larger operation and a 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 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 Summit. 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.