

SET UP SHEET FOR THE CrystalBlast 4836 MonuBlast

The standard nozzle size for the CrystalBlast 4836 MonuBlast is 1/8" to 3/16" using 12 to 27 cfm @ 50 psi blasting pressure. This will produce the best stone carving depths using larger abrasives used with stone marker carving.

Taller Inside Cabinet Height, Oversized Operator View Window with Protector, Movable Inside Mobile Work Cart, Mobile Work Cart Turntable and Part Holding Fixture will produce the largest operator blast zone in a single cabinet.

The MonuBlast includes a 440 sq.ft. dust collector using an 1100 cfm blower with timed dust collector cleaning cycle for an increased machine daily duty cycle.

A Dual Manually Operated Pot Loading Feature allows instant ON-OFF pot control allowing the operator to depressurize and refill the pot in seconds or switched to automatic this feature will open the pot valve in seconds re-filling the pot each time the blasting pedal is released..



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 move the operator platform in place. Make sure you have enough compressed air volume for the blasting pressure you will be using. The air usage is listed above remembering the unit includes a pneumatic pressure pot blow-down circuit. 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 25 to 60 cfm delivery at 90-100 psi. Unless you maintain 90-100 psi inlet pressure at all times it is possible the machine air controls will not function properly for the Pressure Pot Blow-Down Controls.

1. Always check new installation making sure the filter cartridges in the dust collector are tight. Shipment can require an adjustment to the holding assembly. Open access door and place two open hands on sides of cartridge, if the cartridge slides in any direction with a gentle push it requires tightening.
2. Install an ambient dryer on the machine air inlet or wall if the machine will be use more than one hour per day. The MonuBlast Machine is designed to be a 50% machine duty cycle using the standard 1/8" 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. This can be easily increased by making sure to maintain the dust collector using the automatic timed cleaning cycle.
3. Make sure to check any hard line 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.
4. 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. 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.
5. The 4836 MonuBlast 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.
6. Make sure the line pressure into the MonuBlast does not exceed 125 psi. It is possible to damage some air controls with excessive line pressure.
7. All blasting cabinets require a negative pressure inside the cabinet. The MonuBlast uses a dual 440 sq.ft. filter cartridge feature, patented separator reclaimor good for 150 mesh and LED cabinet lighting.
8. The compressed air supply line for the MonuBlast should be 1/2" ID minimum using hose barb fittings. Never use quick disconnect fittings on a machine with pneumatic vibrator cleaning cycle.
9. This is a High Voltage Single Power Source machine service. It is important when first installing to check the rotation of the dust collector blower comparing the motor rotation to the red arrow on the outside of the blower housing.
10. Keeping the dust collector clean is key to proper operation of the MonuBlast. If you are using a larger nozzle size (3/16") it will delivery twice as much abrasive in pounds per minute as the standard 1/8" 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. Turning OFF the machine will start the timed vibrator cleaning cycle operating for 3 minutes. It is recommended this timed cleaning cycle be activated by turning off the machine after every 2 hours of blasting.
11. Monitor the Magnahelic Gauge for an Increase in dust filter static pressure. This static pressure increase indicates an increase in dust loading on the filters. Always monitor the filters for the first month adjusting the number of cleaning cycles to the condition of the filter cartridge pleats (never pack the pleats) along with the static pressure reading on the Magnahelic Gauge.
12. Open the access door with the blower running and pour 100 pounds of abrasive into the hopper.
13. Locate the manually operated pot blow down control switch; this will close the secondary pot outlet using the air switch to hold closed the blow-down cylinder. This will create constant pressure inside the pressure pot each time you release the blast pedal.. When the pot is empty open the air switch to allow the pot valve to open refilling the pot. Leaving this switch open will automatically open the pot valve each time you release the blast pedal. This can keep the pot filled at all times when used properly. Close this air switch to create a constant pressure producing instant On and Off blast control. Use the machine hopper assist vibrator to help load the pressure pot faster.
14. Push down on the blast pedal to start the blast, release the pedal to stop the blast.
15. Turn the machine off to allow the dust collector to clean the filters.