

## Abrasive Recycling System - Advanced Controls

The Abrasive Recycling System with Advanced Controls enables businesses to cut operating costs and increase profit margins by reusing abrasive.

The system is designed to remove the sludge from an abrasive waterjet cutting tank or integrate into an existing abrasive removal system. The recycled abrasive can be placed in the hopper for use again with the optional abrasive transport system. The abrasive is removed from the tank using patented nozzles that have no moving parts. The nozzles work best when buried under approximately 12" (30 cm) of sludge. The sludge is sent to the top of a series of vibrating screens where usable abrasive larger than 100 mesh is separated. This is then dried and made ready to use again.

A very small amount of clean water is used to do the final wash of abrasive, approximately 0.8 gallons (3.0 liters) per minute. The bulk of the washing is done with water from the abrasive tank and is then returned to the tank again. This has the effect of cleaning the water in the tank to some degree. All excess water from the recycling process overflows into the abrasive waterjet tank. The control box has several built-in safety features, as well as override and cut-off defaults. As soon as the abrasive removal nozzle is activated, the recycling process will begin.



### Specifications

- Controls PLC/programmable controller
- Dimensions 60X60; forklift ready/wheels optional
- Abrasive Removal Four nozzles with hosing standard
- Power Requirements 480 volts, 3 PH, 60 amp breaker
- Air Requirements 6 cfm for removal system
- Fresh Water Requirements 0.8 gallons per minute
- Air Supply 12 cfm at 50 psi
- Drying Capacity per Hour Up to 180 lbs. per hour
- Dryer Type Fluid bed dryer
- Washing/Screening System 30" diameter vibrating screen
- Secondary Screen 30 mesh to remove all oversize
- Able to make several grades simultaneously with optional splitter screen
- Recycled Abrasive Storage Hopper transport system delivers over 60 feet
- Warranty Twelve months on labor and materials used for construction of recycling unit. All items that come into direct contact with the abrasive are considered consumables. These are not under any warranty as the wear will vary at each location.