WATERJET FILTRATION

Abrasive Removal System
The Ebcco® Abrasive Removal System is designed to continuously remove exhausted abrasive that collects in the Waterjet catch tank, thus eliminating downtime for cleanout and maximizing production. The Abrasive Removal System can be adapted to any Abrasive Waterjet Cutting Machine.

The Selection of an Ebcco® Abrasive Removal System is based on the square footage of the Waterjet Catch tank and number of cutting heads. Ebcco® engineers custom design each sweeper package to maintain optimum removal, maximizing your productivity and eliminating any down time for tank catch tank cleaning.

How it Works: A specifically engineered PVC sweeper package is placed inside the waterjet catch tank. The eductor package is designed to keep the abrasive in suspension and pushed toward the pump suction. Larger particles are collected inside a stainless steel strainer basket, that serves as a pump protection. The Heavy-Duty Closed Column Pump pulls the abrasive laden water from the catch tank to a centrifugal separator where solids are spun out and settle inside the Separators Collection chamber, Solids are automatically purged into the Abrasive Bag Hopper with a removable liner and clean fluid then exits the top of the separator and provides the clean flow to the eductor package located inside the table.

Benefits from the Abrasive Removal System

- **Maximizes Productivity** - by eliminating down time for catch tank cleaning
- **Reduces the Possibility of Thermal Distortion** - By removing the abrasive from the table, heat from the machining process is dissipated
- **Reduces Closed Loop Consumable Costs** - by removing the abrasive the filtration system can concentrate of treating the water rather than removing the abrasive
- **Custom Designed Sweeper Package** — designed to keep abrasive from building up in all areas of your catch tank
- **Full One Year or 2000 hour Warranty on Pump**

System Purge

As the Water-Jet deposits abrasive into the catcher tank, the Ebcco® Abrasive Removal System removes it purging it into your choice of receptacles. The spent abrasive is relatively clean and void of parts larger than 1/8” diameter.

Abrasive Disposal

The Spent abrasive bag is lifted from the disposal hopper and disposed of in a manageable 4400 lb bag.

TYPICAL LAYOUT

A custom floor layout is provided, placing the filtration equipment utilizing the minimum floor space.

Sweeper Package Installation

A Sweeper Package is specifically designed to fit the catcher tank and can be installed by a qualified Ebcco® service technician. The sweeper package incorporates multiple eductors with a 4:1 ratio. The eductors enhance water flow and keeps the abrasive in suspension, pushing it toward the system suction port.