



BIG INDUSTRY: INCREASES PRODUCTION, EXTENDS UPTIME & LOWERS MAINTENANCE COSTS WITH OEI'S INDUSTRIAL FILTRATION SOLUTIONS

Uptime is the key at machining plants all around the world and products that keep the lines moving are worth their weight in – iron.

One Eye Industries (OEI) has been supporting the uptime efforts of the major machining companies all over the world for 10 years and industry uptake is strong with leaders including IPSCO, Propak, Shell and Scami, Italy.

Propak

Propak offers engineering, fabrication and construction to the energy processing industry worldwide. FilterMaster assists in keeping Propak fabrication on schedule with FM 4000 Scrubbers installed on radial arm drills.



“The cutting fluid used to become so contaminated with micron-sized metal shavings that the pump’s impeller would almost totally erode to nothing. The cutting fluid would stop and pumps would burn out.” notes Harris Patterson, maintenance foreman at one of Propak’s Airdrie shops. “There has not been a drill shut down due to cutting fluid problems since we installed your scrubbers.” Propak’s FM 4000’s have been in place and running for over a year now.

above - Propak's radial arm drill with FilterMaster 4000 Scrubbers installed on the cutting fluid intake lines to save pump impellers and slow wear cycles - left

IPSCO

IPSCO operates steel and rolling mills at nine locations in Canada and the US. As a low cost North American steel producer with annual steel making capacity of 3.5 million tons, IPSCO’s production facilities can not afford to be down.

OEI’s ADD-Vantage 9000 Hydraulic Filters and Y-Strainers equipped with Magnetic Filter Rods protect hydraulic pumps on their 8 foot, rolled steel sheers. Magnetic filter rods installed on high and low pressure hydraulic lines keep the sheers operating by significantly reducing pump and seal failures.



Shell Canada – Materials and Corrosion Dept., Calgary

The materials lab at Shell is responsible for grinding precision parts during scheduled maintenance and they were unable to achieve the required finish on various parts. Metal shavings between 1 micron and 25 microns contaminated the polishing fluid causing minute scratches making the refinished surfaces too rough.

An FM 5000 Scrubber and an FM 900 Magnetic Filter Pad were attached to the oil reservoir on their lathe. The magnetic fields produced are strong enough to capture ferrous particles in the reservoir and prevent them from re-circulating in the oil. Adding the scrubbers alone were enough to improve the polishing level to well over the acceptable standards.

Scami, Italy

Scami is an international group manufacturing machines and plants for the ceramics, beverage, packaging, plastics and processing industries – all markets where they are recognized as worldwide leaders.

The photos below are of the FM 5000 Scrubber after 2 days of operation on a 500 gallon cutting fluid sump (water and cutting oil mix). This machine delivers cutting fluid to a mammoth milling machine that works 30-ton cast iron molds that go on the top of the finished ceramic tile presses they produce.

The coolant jets on these milling machines were frequently plugging with metal causing dies to overheat and premature wear of equipment causing work stoppages. Since installing OEI technology, the coolant jets have seen constant operation with no shut downs. In addition, cutting fluids which used to be changed every 2 weeks due to ferrous contamination now last 2 months – or 4 times longer. Testing is currently underway to extend cutting fluid life even further.



left & centre: **FM 5000 Magnetic Scrubber Rod** after 2 days of operation on the 500 gallon cutting fluid (cutting oil & water mix) sump in Scami's Italian factory (pictured right). The "fur" on the rod is ferrous contamination between 1 micron and 50 microns.