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Metalworking/Hydroflow Issue December 2011 http://en-us.eriez.com/Products/Markets/Metalworking/

SOLUTIONS FOR
METALWORKING INDUSTRIES

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Superabrasives Company Removes Swarf Magnetically

Engis Corp. was relying on canister fine filters to remove swarf from coolant. Although this was sufficient, the large quantity of swarf typically generated from single-pass bore finishing was causing too much downtime for replacing clogged filters. Engis needed an additional coolant cleaner before the canister. Engis found a solution in the Model CS5-7 Magnetic Coolant Cleaner from Eriez®. Unlike canister filters that fill up with contaminant, the magnetic coolant cleaner is self-cleaning. As the magnet pulls magnetic material out of the swarf, the material discharges over scraper blades into a swarf pan and the coolant continues through. Engis adds Eriez magnetic separators to filtration systems where there is a large amount of swarf being produced so the canister fine filters can last longer before getting clogged and needing replacement. Engis reports that the Eriez Coolant Cleaner removes about 90 percent of total swarf, and the canister is then able to remove the remaining particles down to 10 micron.

Star Filter®

The Eriez Hydroflow® Star Filter® is a packaged system combining the dirty tank, filter and clean tank in one assembly, eliminating the balance problem of multiple components. This system uses one of the most proven technologies in the machine tool industry and offers significant advantages over every other technology, including vacuum drum filters, pressures pre-coat and flat bed pressure filters.

Automatic Vacuum Filtration Systems

Eriez Hydroflow Automatic Vacuum Filtration Systems work continuously with minimal operator attention and provide consistent solids separation, maximum coolant life and increased productivity for the metalworking industry. This simplified and re-designed system now provides positive filtration levels to 10 microns because of an innovative method that seals the filter media to prevent solids bypass. The system also has the capacity to effectively handle flow rates up to 2,000 gallons per minute (GPM).

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Cartridge Filter Systems

Eriez Hydroflow Cartridge Filter Systems provide positive inline filtration to protect high pressure pumps, polish coolant or provide side loop filtration. To learn more about Cartridge Filter Systems or any other Eriez Hydroflow Fluid Filtration Systems products, click here to download Eriez' free brochure, "Metalworking Fluid Filtration Systems." For a hard copy of the literature, contact Eriez and request brochure FB-100.

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