



# GLOBAL SOLUTIONS

## NEWS RELEASE

### *For Immediate Release*

**News for the Metalworking, Aerospace,  
Medical, Automotive, Bearings/Gears and  
Power Generation Industries**

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### **Eriez® Hydroflow® Offers Complete Filter Systems for Machining and Grinding, Including Conventional, Creep Feed and CBN**



Erie, Pa. — [Eriez® Hydroflow®](#) now offers complete filter system products for a variety of metalworking applications, including standard machining, conventional grinding, creep feed grinding and CBN

grinding/machining. These products are for metalworking operations that require practical and economical solutions for extending coolant life to help maintain maximum equipment performance.

**Machining:** Eriez Filters with Synthetic Permanent Media, Wedge Wire, Disposable Roll Media or Cellulose Pre-coated Microscreen can filter as low as one micron and are available with low pressure flood coolant or high pressure directed coolant.

These filters are specifically designed for drilling, milling, boring and turning operations that require significant volumes of “flood coolant” to move chips from the work area to the coolant sump. Modern machine tools now operate at higher speeds and increased feed rates, intensifying the need for high pressure “clean coolant” at the tool.

Eriez has experience with scalping conveyors used as a pre-filter for large volume and difficult chips. The company has designed mounted filters fed by in-ground flume and floor mounted systems fed by overhead pipes using its custom Chip Transfer Sumps.

**Conventional Grinding:** Centerless, ID/OD, surface, form and other types of conventional grinding are ideal applications for Eriez filters. For flow rates of 40 GPM to 1200 GPM and filtration to 10 microns, the Permanent Media Vacuum Filtration System offers the most advantages over other types of filters available today. The Star Filter® handles applications requiring finer filtration to one micron and/or higher flow rates to 6000 GPM.

**Creep Feed Grinding:** The Company has been building vacuum filters for creep feed grinding applications since 1986. Eriez Hydroflow supplied the industry's first central system for creep feed grinding in 1990, servicing 20 large Blohm Grinding Cells with a total flow requirement in excess of 2000 GPM.

- More -

**CBN Grinding/Machining:** Perhaps the fastest growing and most difficult filtration application in modern metal working is the CBN Grinding / Superabrasive Machining process. This high-speed process of metal removal requires the use of heavy oils at very high pressure (up to 1000 PSI), resulting in aeration and cavitation problems. Plus, the hard nature of the CBN produces swarf with very little particle size distribution, resulting in blinding and short cycling.

Eriez' Permanent Media Vacuum Filtration System addresses all of these problems with a filter designed and developed in cooperation with the major machine builders. Eriez is the leading supplier of vacuum filters to the OEM market of CBN machine builders.

For more information, visit [www.eriez.com/hydroflow](http://www.eriez.com/hydroflow).

Eriez is recognized as world authority in advanced technology for magnetic, vibratory and inspection applications. The company's magnetic lift and separation, metal detection, x-ray, materials feeding, screening, conveying and controlling equipment have application in the process, metalworking, packaging, recycling, mining, aggregate and textile industries. Eriez manufactures and markets these products through 12 international facilities located on six continents. For more information, call toll-free (888) 300-ERIEZ (3743) within the U.S. and Canada. For online users, visit [www.eriez.com](http://www.eriez.com) or send e-mail to [eriez@eriez.com](mailto:eriez@eriez.com). Eriez World Headquarters is located at 2200 Asbury Road, Erie, PA 16506.

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