Eriez’ worldwide system of manufacturing, sales and service

Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool productivity and reducing fluid disposal costs.

Eriez HydroFlow® equipment and systems are used in a variety of machining, cutting, grinding, honing, super abrasive finishing and EDM applications requiring water-based coolants to straight oil lubricants. Eriez offers everything from complete turnkey central vacuum filtration systems able to supply 50 machining or precision grinding centers with fresh clean fluid to small tank-side tramp oil skimmers.

Eriez offers a wide range of equipment to remove tramp oils and solids from coolants.

Applications & Services

Eriez HydroFlow® equipment and systems are used in a variety of machining, cutting, grinding, honing, super abrasive finishing and EDM applications requiring water-based coolants to straight oil lubricants.

For low volume coolant recycling and filtration, Eriez offers a variety of equipment to remove surface oil, emulsified oils, and solid particulate.

- Sump Cleaners
- Oil Skimmers
- Centrifuges
- Coalescers
- Magnetic Coolant Cleaner
- Mobile Coolant Recycling

Everything from Machine-side…

Eriez provides complete plant-wide centralized systems for water-based coolants or straight oil lubricants.

- Rolled Media Vacuum Filters
- STAR Element Vacuum Filters
- Complete Central Systems
- Ancillary Equipment

…to Plant-wide Solutions

Eriez’ test laboratory will diagnose exact particulate and oil contaminants in your coolants, fluid and cutting oils and then submit a complete analysis along with a recommended course of action.

Contact your sales representative or the factory for details.

Donny Collyer

“The new SumpDoc provides complete solids removal and fluid recycling at the sump. Twin STAR Vacuum filters deliver “super clean” coolant at a constant temperature to more than 20 machining centers. Rolled media vacuum filter installed in a bearing grinding operation, provides clean coolant plant wide. Since we added the magnetic roll to the HydroFlow vacuum filter, we’ve decreased our paper consumption by 75%. It’s enabled huge cost savings to us and it’s been a worry-free system. We just recently ordered a duplicate HydroFlow Vacuum Filter and plan to order more units.”
Application & Services

Eriez HydroFlow® equipment and systems are used in parts washing, machining, grinding, honing, super abrasive finishing, electron beam applications and many other metal removing and finishing applications. The systems are designed to deliver maximum coolant effectiveness and efficiency while minimizing both maintenance costs and straight-through throughput time. Eriez offers HydroFlow® systems to fit every user’s needs, from smaller shops with lower volume needs to large manufacturing centers and research and development laboratories. Eriez HydroFlow® systems are available in manual, semiautomatic, automatic, and continuous-flow modes. Eriez provides complete plant-wide centralized systems for water-based coolants or straight oil lubricants.

For low volume coolant recycling and filtration, Eriez offers a variety of equipment to remove surface oil, emulsified oils, and solid particulate.

- Sump Cleaners
- Oil Skimmers
- Centrifuges
- Coalescers
- Magnetic Coolant Cleaner
- Mobile Coolant Recycling

Everything from Machine-side…

Eriez provides complete plant-wide centralized systems for water-based coolants or straight oil lubricants.

- Rolled Media Vacuum Filters
- STAR Element Vacuum Filters
- Complete Central Systems
- Ancillary Equipment

…to Plant-wide Solutions

World Authority in Separation Technologies

Headquarters: 2200 Asbury Road, Erie, PA 16506-1402 U.S.A.

Telephone: 814-835-6000 • 800-345-4946
Fax: 814-838-4960 • International Fax: 814-833-3348
Web Site: http://www.eriez.com  e-mail: eriez@eriez.com

Manufacturing Facilities: AUSTRALIA • BRAZIL • CANADA • CHINA • INDIA • JAPAN • MEXICO • SOUTH AFRICA • UNITED KINGDOM • UNITED STATES

Eriez and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co. ©2014 ERIEZ MAGNETICS ALL RIGHTS RESERVED

Since we added the magnetic roll to the HydroFlow vacuum filter, we’ve decreased our paper consumption by 75%. It’s enabled large cost savings to us and it’s been a money-saver. We just recently ordered another HydroFlow Vacuum Filter and plan to order more units.”

“Since we added the magnetic roll to the HydroFlow vacuum filter, we’ve decreased our paper consumption by 75%. It’s enabled large cost savings to us and it’s been a money-saver. We just recently ordered another HydroFlow Vacuum Filter and plan to order more units.”

— DONNY COLLYER, Engineering Coordinator - Machining, ASAMA Coldwater Manufacturing
### Performance Level

<table>
<thead>
<tr>
<th>Fluid Type</th>
<th>Features</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolants, Coolers, Coolers</td>
<td>• Three oleophilic</td>
<td>• Side loop filter</td>
</tr>
<tr>
<td>Water-miscible coolants</td>
<td>• Low maintenance</td>
<td>• Bag, pleated bag or cartridge</td>
</tr>
</tbody>
</table>

### Fluid Recycling

<table>
<thead>
<tr>
<th>Fluid Recycling</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proportioners</td>
<td>• High pressure clean</td>
</tr>
<tr>
<td>Gravvy Bed Filter</td>
<td>• Temperature control</td>
</tr>
<tr>
<td>Cartridge Filters</td>
<td>• High flow rate</td>
</tr>
</tbody>
</table>

### Fluid Filtration

<table>
<thead>
<tr>
<th>Fluid Filtration</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Centrifuge System</td>
<td>• Magnetic filtrate separation</td>
</tr>
<tr>
<td>Rolling Media</td>
<td>• Reagent addition</td>
</tr>
<tr>
<td>Grinding</td>
<td>• Refrigeration</td>
</tr>
<tr>
<td>Machining</td>
<td>• Temperature control</td>
</tr>
</tbody>
</table>

### Filtration Accessories

- Chillers
- High Pressure Coolant Pumps
- Rolls
- Media Rewinders
- Automated coolant make-up system
- Precoat system
- Automatic control and monitoring
- Precooling systems

### Applications

- Tank-side systems
- Portable systems
- Transient systems
- Chiller systems
- Magnetic roll systems
- Centrifuge systems
- Stationary systems
- Portable systems
- Gravvy bed systems
- Cartridge systems
- Proportioners
- Filters

### Options

- • Side loop filter
- • Bag, pleated bag or cartridge
- • Media rewinders
- • Automatic control and monitoring
- • Precooling systems

### Fluid Types

- Coolants, Coolers, Coolers
- Water-miscible coolants

### Features

- • Three oleophilic
- • Low maintenance
- • Machine tool sumps
- • Increases belt life
- • Improves performance
- • Scraper and roller design

### Options

- • Side loop filter
- • Bag, pleated bag or cartridge
- • Media rewinders
- • Automatic control and monitoring
- • Precooling systems
<table>
<thead>
<tr>
<th>Type</th>
<th>Soil Filters</th>
<th>Tank-Side Dirt &amp; Sediment Likens</th>
<th>Portable, Self-Siphon</th>
<th>TransID Separator (Self-Priming)</th>
<th>CleanTop, Sump Cleaner</th>
<th>Portable, Self-Priming</th>
<th>Magnetic Rolls</th>
<th>Centrifuges, Lake-Shell Flow</th>
<th>Stationary Custom Skimming Systems</th>
<th>Improved® Portable Sump Skimming</th>
<th>Proportioners</th>
<th>Gravty Bed Filters</th>
<th>Cartridge Filters</th>
<th>Rolled Media Vacuum Filters</th>
<th>Star® Permanent Media Vacuum Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Specifications</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belt Skimmers</td>
<td>• Tank skimmers with integral 50 m passes and 15 m passes all in the background</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Machine tool sumps with 3-5 m passes, 5 m passes, and 3-5 m passes all in the background</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Larger electric pumps providing high flow rates up to 5,000 GPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Stainless steel wedge wire, synthetic media filters up to 1 micron</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Applications

- **Belt Skimmers**
  - Tank skimmers with integral 50 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes, 5 m passes, and 3-5 m passes all in the background
- **Tank Side Skimmers**
  - Portable systems with 3-5 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes and 3-5 m passes all in the background

### Features

- **Belt Skimmers**
  - Tank skimmers with integral 50 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes, 5 m passes, and 3-5 m passes all in the background
- **Tank Side Skimmers**
  - Portable systems with 3-5 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes and 3-5 m passes all in the background

### Options

- **Belt Skimmers**
  - Tank skimmers with integral 50 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes, 5 m passes, and 3-5 m passes all in the background
- **Tank Side Skimmers**
  - Portable systems with 3-5 m passes and 15 m passes all in the background
  - Machine tool sumps with 3-5 m passes and 3-5 m passes all in the background
Eriez’ worldwide system of manufacturing, sales and service

Complete Cutting Fluid Recycling and Filtration Systems

Eriez HydroFlow® is leader in comprehensive coolant and fluid management technology serving the manufacturing industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool productivity and reducing fluid disposal costs.

Everything from Medium to Large Scale Systems

Eriez offers everything from complete turnkey vacuum filtration systems able to supply 50 machining or precision grinding centers with fresh clean fluid to small sump-side tramp oil skimmers.

Laboratory Services

Eriez’ test laboratory will diagnose exact particulate and oil contaminants in your cools, fluid and cutting oils and then submit a complete analysis along with a recommended course of action.

Contact your sales representative or the factory for details.

Separation Products

Eriez’ separation products include separation systems and systems that are designed to remove specific contaminants.

Material Handling Products

Eriez’ material handling products include vibratory, mechanical and magnetic conveyors, screeners and feeders. Material quantities range from a few spoonfuls to tons per hour.

Laboratory Services

Eriez’ test laboratory will diagnose exact particulate and oil contaminants in your cools, fluid and cutting oils and then submit a complete analysis along with a recommended course of action.

Contact your sales representative or the factory for details.

Applications & Services

Basic HydroFlow® equipment and systems are used in parts washing, machining, grinding, honing, super abrasive finishing, EDM applications requiring water-based coolants to straight oil lubricants.

Eriez’ separation systems are designed to remove specific contaminants from water-based coolants and straight oil lubricants.

Laboratory Services

Eriez’ test laboratory will diagnose exact particulate and oil contaminants in your coolants, fluid and cutting oils and then submit a complete analysis along with a recommended course of action.

Contact your sales representative or the factory for details.

Home to the broadest range of metal detectors in the industry. Whether it’s small ferrous or nonferrous metal pieces, tramp metal or digger teeth, Eriez has a metal detector to solve practically every metal contamination problem.

Separation includes magnetic plates, grates, and traps, rolls and tubes, drum separators, ferrous traps, magnetic pulleys, nonferrous eddy current separators, and electromagnetic separators designed to remove fine and large tramp iron from various materials while protecting machinery.

Solutions include vibratory, mechanical and magnetic conveyors, screeners and feeders. Material quantities range from a few spoonfuls to tons per hour. Screeners include high capacity gyratory units for high viscosity liquid/solid separation and wet or dry classification.

“Since we added the magnetic roll to the HydroFlow vacuum filter, we’ve decreased our paper consumption by 75%. It’s helped us conserve money on an end it’s been a money-saver system. We just recently ordered another thin film vacuum filter and plan to order more units.”

DONNY COLLIER, Engineering Coordinator - Machining

ASAMA Coldwater Manufacturing

“Since we added the magnetic roll to the HydroFlow vacuum filter, we’ve decreased our paper consumption by 75%. It’s helped us conserve money on an end it’s been a money-saver system. We just recently ordered another thin film vacuum filter and plan to order more units.”

DONNY COLLIER, Engineering Coordinator - Machining

ASAMA Coldwater Manufacturing

DONNY COLLIER
Eriez’ worldwide system of manufacturing, sales and service

Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool performance and reducing fluid disposal costs.

**Complete Cutting Fluid Recycling and Filtration Systems**

**Applications & Services**

- Eriez HydroFlow® equipment and systems are used in parts washing, machining, grinding, honing, superabrasive finishing, and electronic machining operations.

**Laboratory Services**

- Eriez’ test laboratory will diagnose exact particulate and oil contaminants in your coolants, fluid and cutting oils and then submit a complete analysis along with a recommended course of action.

**Applications & Services**

- Eriez’ worldwide system of manufacturing, sales and service

- Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool performance and reducing fluid disposal costs.

**World Authority in Separation Technologies**

- Eriez provides comprehensive, high performance magnetic and eddy current separation systems for a wide range of applications.

**Applications & Services**

- Eriez’ worldwide system of manufacturing, sales and service

- Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool performance and reducing fluid disposal costs.

**World Authority in Separation Technologies**

- Eriez provides comprehensive, high performance magnetic and eddy current separation systems for a wide range of applications.

**Applications & Services**

- Eriez’ worldwide system of manufacturing, sales and service

- Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool performance and reducing fluid disposal costs.

**World Authority in Separation Technologies**

- Eriez provides comprehensive, high performance magnetic and eddy current separation systems for a wide range of applications.

**Applications & Services**

- Eriez’ worldwide system of manufacturing, sales and service

- Eriez HydroFlow® is a leader in comprehensive coolant and fluid management technology serving the metalworking industry. These industrial filtration and fluid recycling systems maximize coolant effectiveness and longevity, improving machine tool performance and reducing fluid disposal costs.

**World Authority in Separation Technologies**

- Eriez provides comprehensive, high performance magnetic and eddy current separation systems for a wide range of applications.