ERIEZ



FLUID RECYCLING

EQUIPMENT FOR FLUID RECYCLING APPLICATIONS



About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the globe, we proudly design, manufacture, and support our magnetic separation, flotation, metal detection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries, including mining and minerals processing, food processing and packaging, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

Fluid Recycling Equipment

Extend Coolant Life

Adequately managing coolants in metalworking applications such as machining, gear cutting, die casting, stamping, and Electrical Discharge Machining (EDM), is essential to protect machine performance and maintain high-quality finishes on metal parts.

Machines used in metalworking applications rely on coolant to keep the tool and product cool, reduce friction, and carry away metal particles and shavings. If metalworking machines are used with dirty or contaminated coolants, tool life can be reduced and cause increased maintenance costs.



Reduce Contamination & Replacement Cost

In some cases, contaminated coolants can cause costly production downtime due to particles causing abrasive wear in pumps, valves, and other machine parts.

Stagnant, contaminated coolant can also become a breeding ground for bacteria, molds and fungi, causing foul odours, contaminating air quality for employees, which can cause skin irritations, respiratory problems, and other allergic reactions.

By extending the healthy lifespan of your coolant, the costs of replacement are cut down and downtime is reduced. Increase your productivity, maintain the quality of your equipment, and provide a healthier work environment — all of which saves expenses and boosts productivity in the long run.







Sump Cleaners



Eriez offers the widest selection of Sump Cleaners in the industry. These heavy-duty industrial wet/dry vacuum filtration units clean virtually any machine tool sump, tank, or pit quickly and thoroughly.

The Sump Cleaner removes the coolant, sludge and chips from the sump, filters the sludge and chips from the coolant and returns the filtered coolant to the sump in minutes.

In a typical example, a cylindrical grinder sump with 454 litres (120 U.S. gallons) of coolant and 318 kilograms (700 pounds) of sludge were completely cleaned, the coolant filtered and returned to the sump in ten minutes.

Features

- Single or twin compartment configuration
- Push around, tow around, or truck mounted units available
- Air, 120V single phase, 3-phase electric, or LP gas power sources
- Complete with hoses and cleaning tool

Magnetic Chip & Parts Conveyors



Safely and reliably move ferrous materials such as chips, turnings, small parts and stampings from a sump to a discharge. Most models feature Eriez' unique Tuf-Trac™ track system with no moving external parts to jam or break like hinge belt conveyors. Tuf-Trac's continuous series of powerful magnets pick up and glide material along the stainless steel slider plate, then discharge it over the head end.

Features

- Liquid-tight construction
- Conveyor can be completely submerged in the sump or tank
- Self-cleaning surface
- Excess fluids drain easily
- Maintenance-free

Solids-from-Liquid Centrifuges



Solids-from-Liquid Centrifuges are successful in reducing solids in numerous applications wherever the removal of fines is desired. Solids collect in individual machine tool sumps and in large central systems.

Eriez' Solids-from-Liquids Centrifuges provide continuous media-free filtration of both metallic and non-metallic solids from industrial fluids. All centrifuges are specifically engineered for heavy-duty industrial applications and will offer years of trouble-free operation.

Features

- Available in manually-cleaned basket style (complete with reusable liner) or fully automatic self-cleaning style
- Quick and easy sludge disposal
- Reusable sludge collection liner
- Compact size with low inlet height

Magnetic Coolant Cleaners



Smooth-faced and extended-pole Coolant Cleaners extend the life of cutting tools, grinding wheels, pumps and metalworking fluids. Eriez Coolant Cleaners are designed for use with surface grinders, gear grinders, honing and lapping machines, broaches, milling and drilling machines, face grinders, and oil reclaiming machines.

Features

- Routinely separates particles down to 15 microns from metalworking fluids
- Common efficiency rates in the high 90 percent range
- Easy installation in restricted space
- Maintenance-free

SumpDoc Portable Fluid Recycling

Eriez SumpDoc® Portable Fluid Recycling System allows shop personnel to position the unit alongside the machine tool sump and treat the existing coolant while continuing to operate the machine tool.

The SumpDoc is an all-in-one portable fluid recycling system that will completely filter and rejuvenate metalworking fluids in a machine tool sump without interrupting production.



Features

- Heavy-duty vacuum removes large chips and heavy sludge
- High-speed centrifuge removes emulsified oils from coolants
- Utility hook ups for easy connection to power and air supplies
- Touchscreen controls for fully automated process control
- Hoses, couplings, and floats are stored onboard in tubes or on reels

Coolant Recycling Systems

The Eriez Coolant Recycling System (CRS) ties all aspects of a good coolant management program into a self-contained, fully-integrated system, capable of recycling any water-miscible fluid to its maximum potential. With a wide range of tank capacities, Eriez CRS is a low-maintenance, low labor system designed for years of trouble-free service and an extremely fast return on investment.



Features

- Separate dirty and clean tanks
- Automatic proportioner mixer — coolant make up and control
- Liquid-from-Liquid centrifuge — clean coolant to <0.5% emulsified tramp oil and 2-5 microns of particulate matte

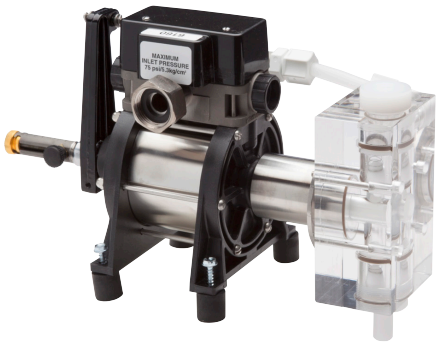
Coolant Proportioner

Eriez' Proportioner is a water-driven, positive displacement proportioner which dispenses coolant on demand at the desired concentration. Ideal when greater accuracy and automatic mixing is required.

Special units are also available for highly alkaline parts washing fluids. Supply fluid overhead to machine tools without booster pump.

Features

- Reduces concentrate waste
- Easy-to-install
- Adjustable
- Non-electrical
- Reliable and consistent

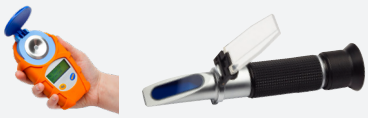


Refractometers

Designed to allow the user to quickly determine the concentration of metalworking coolants and cleaners, heat treating fluids, water-based hydraulic fluids, and even plating baths, this simple, yet rugged device is portable and requires no batteries. Its large, easy-to-read scale is available in two ranges 0 to 10 Brix, and 0 to 32 Brix.

The Eriez automatic temperature compensating Refractometers help you quickly determine the concentration or ratio of a variety of industrial fluids.





Coolant Mixers

Dual Ratio Mixer

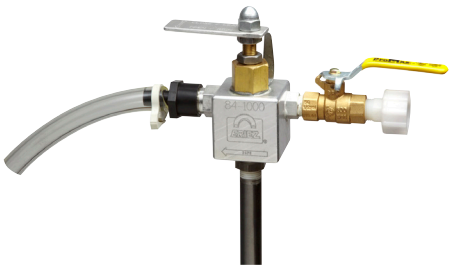


Set up one mixer to supply both fresh charge concentration and a leaner make up concentration, all in an easy-to-use design. Once set up, the operator simply pushes the button for the desired concentration to fill containers with mixed fluid.

Features

- Venturi style coolant mixer that automatically mixes two different metalworking coolants — or one coolant with two different ratios.
- Pressure regulation eliminates concentration variances
- E-Gap Backflow Protection (ASSE 1055B Approved)
- Concentrate suction and discharge hoses

Drum Top Mixer



A compact, easy-to-use venturi mixer for combining water with coolant concentrates — water, jetting through the unit, creates a vacuum that siphons concentrate from the drum. A needle valve allows for infinite adjustments across the mixture range.

Features

- All-metal construction
- 51 mm (2") NPT sliding-bung drum adapter
- Discharge hose assembly
- Inlet shutoff valve with garden hose thread adapter

Surface Oil Belt Skimmers

Featuring an oleophilic (oil-attracting) belt that hangs into the sump where it removes free-floating tramp oils, two models and four belt options provide different rates and levels of oil separation. Models can be equipped with a timer, so the unit runs only when the machine is idle, and tramp oils have risen to the surface.



Features

- 25 mm (1") or 76 mm (3") belt width
- Open, accessible oil collecting tray and drain connector
- Surface or side mounted option
- Capacity to remove up to 4 to 6 L (1.5 gallons) of oil contaminants per hour

Coalescers

Eriez offers coalescers that process machine tool fluids removing tramp oils and fines and returning clean, reusable coolant. These units pump dirty fluid into a tank designed with baffles, weirs and media plate packs (portable coalescers) that separate the tramp oils from the fluid quickly and easily.



Features

- Media packs easily removed for cleaning and never need to be replaced
- Extends coolant life, improves tool life
- Ideal for individual machine tool sumps and part washers

Portable Tramp Oil Centrifuge

This compact and portable unit, completely assembled on wheels, is designed to extract fluid from both small, individual machine sumps as well as larger central systems. It can remove both free and emulsified tramp oils to 0.5% or less and particulate matter to 5 microns nominal in one pass on any stable coolant or cleaner.



Features

- Processes flow rates of 4-16 lpm (1-4 gpm) depending on fluid type and condition
- Aluminium alloy hood, cast iron frame, stainless steel bowl assembly, 1.5 HP belt drive motor, tools and accessories
- Floating skimming device placed in the sump plumbed to a double-diaphragm air pump
- Control panel (NEMA 12 enclosure) with on/off button



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