

Precision Pumping Solutions

MICROPUMP®



A Tradition of Excellence

With over 40 years of expertise in the fluid handling industry, Micropump is the leader in seal-less, low flow pumps, offering standard models, configure-to-order options, and custom OEM configurations. Every product Micropump makes is backed by advanced engineering, state-of-the-art manufacturing, and a dedicated workforce—which means every Micropump product delivers precision performance and rugged reliability.

Micropump does more than manufacture pumps, they provide solutions. Micropump has proven their ingenuity with over 20 active patents, covering technologies ranging from electromagnetic brushless DC drives to award-winning metal injection molded pumps. With headquarters in Vancouver, WA, and subsidiaries, Micropump, Ltd., in England, Ismatec SA in Switzerland, and Ismatec GmbH in Germany, Micropump provides a worldwide network of knowledgeable and experienced distributors offering the solution you need wherever you need it.



Advanced Capabilities for Advanced Pumping Systems

Specializing in OEM and industrial pump applications, Micropump products provide low flow, peak performance, and long life in any application with benefits like:

- Exceptional accuracy
- Leak-free design
- Pulseless delivery
- Chemical compatibility
- Convenient servicing

OEM Solutions

Even with a wide range of existing products, some customers require more. To meet these pumping needs, Micropump offers tailored solutions for unique fluid handling challenges. Micropump's established technology allows for the design and production of innovative, new pumping systems. State-of-the-art engineering tools, equipment, and extensive in-house resources mean Micropump engineers

can manufacture customized gear, centrifugal, vane, and piston pumps quickly and affordably. Let Micropump deliver the tailor-made solution you need.



Micropump Keeps Your Business Flowing

Economical Solutions for any Industry



When searching for a fluid handling system to meet the exact needs of your industry, Micropump is your one-stop resource. Micropump has years of experience designing

and manufacturing pumps for a vast array of markets and niche applications. No matter what your market, Micropump gives you the tools you need to improve the quality of a process and save costs with efficiency and precision.

Chemical Processing



Micropump offers leak-free designs, chemically resistant materials, and highly accurate performance for greater safety in chemical formulation, filtration applications, analysis equipment, and pilot plants.

Medical



High accuracy, reliable performance, contamination-free designs, and versatile operation make Micropump pumps ideal for use in hemodialysis, surgical instrument and laser cooling, x-ray tube cooling, thermal therapy, and other high precision medical applications.

Industrial



With pulseless delivery, rugged construction, and leak-free operation, Micropump pumps perform efficiently in dispensing equipment and water treatment, pulp and paper production, seal flush, and cooling applications.

Paints and Inks



A compact, leak-free design and pulseless liquid delivery make Micropump pumps a perfect fit for continuous ink jet printers, large scale commercial printers, and color mixing.

Laboratory



Micropump pumps offer chemical compatibility, precision metering, and flexible performance, making them ideally suited for laboratory applications such as sample delivery and analysis, water purification, and general experiments.

Pharmaceutical and Cosmetic



Chemical compatibility, precision control, and accuracy make Micropump pumps ideal for filling and dispensing, product formulation, and tablet coating and dissolution.

Energy and Fuels



Micropump pumps offer the accurate performance, reliable operation, long life, and innovative technology needed to facilitate the latest fuel cell technology, pilot plants, and pipeline sampling.

Semiconductor



Photo-resist stripping, chemical etching and rinsing, and chiller coolant recirculation are just a few of the semiconductor applications that benefit from Micropump's reliable, trouble-free operation, leak-free designs, accurate performance, and pulseless liquid delivery.



A History of Innovation

Since its inception in 1960, Micropump has specialized in developing high quality, high precision OEM and industrial pumping systems with low pulseless flows. As the originator of magnetically driven gear pumps, Micropump takes their commitment to innovation and product design seriously. They are recognized as the leader in the development of engineered composite gear materials, electromagnetic drives, and injection molding of metal pump components. With stringent quality control processes in place, as well as ISO 9001 and ISO 14001 certification, Micropump ensures the quality of both new and existing pump designs.

In 1995, IDEX Corporation acquired Micropump, combining Micropump's dedication to innovation and quality with an already existing array of leading proprietary fluid handling and engineered products. The requirements that IDEX places on its companies for innovation, diversity, and excellence ensure that Micropump will continue to lead the market far into the future.

Products to Meet Any Pumping Need

Micropump pumps are magnetically driven, eliminating the need for dynamic seals. Internal magnets are encapsulated to protect the pumpage from magnet exposure and corrosion. Other benefits of Micropump's magnetic drives include:

- Safer environmental/working conditions
- Cost savings (no leakage)
- Overload protection

Pumps are available with magnetic drives or Micropump's exclusive Integral Series electromagnetic drive. Micropump meets your specific needs with a variety of drive configurations including:

- BLDC (brushless)
- AC
- DC
- Industrial adapters (NEMA 56C to 143TC) (IEC 56 to 80)
- Air motors
- Variable speed packaged drives



Other Pump Technologies

- Centrifugal style pumps
- Sliding vane pumps
- Nutating and duplex piston pumps
- Fluid management systems



A Proven History, A Promising Future

High Precision Needs Require High Quality Solutions

Micropump's pumping systems are available in a variety of styles including conventional cavity style, patented suction shoe design, and the exclusive Integral Series®. Using an advanced molding process, Micropump manufactures gears that ensure the reliable performance and the long-life needed for precise metering and low flow applications. Micropump gear pumps provide:

- Virtually no pulsations
- Accuracy of 2% or better
- Fewer wearing parts
- Less auxiliary equipment
- User-friendly operation

Cavity Style Gear Pumps

Conventional cavity style gear pumps feature gears that rotate within a precision machined cavity. Fluid is carried from the inlet to the outlet between the gear teeth, providing:



- Excellent lift capability
- Moderate pressure capability
- High system pressure (specific models)
- Strong chemical resistance
- High dependability



Suction Shoe Design Pumps

With its patented suction shoe pump, Micropump provides a revolutionary way to achieve precision

results for your most advanced pumping

“A commitment to technological growth, a dedication to innovation, and a continuous quest for excellence—that’s what sets Micropump apart.”



needs. The suction shoe (pressure loaded) design allows the pump to self-compensate for wear and maintain high volumetric efficiency. Benefits include:

- Increased pump efficiency at higher pressures
- Strong chemical resistance
- Minimal parts for simplified servicing
- Near zero slip



Integral Series Combination

The Integral Series integrates a traditional rotary gear pump design with a patented,

high-technology drive system comprised of an electronic controller and a brushless electromagnetic stator, providing:

- Smooth, pulseless delivery
- Secure, leak-free operation
- Variable speed control

Ismatec Tubing Pumps

Designed primarily for process and scientific research and development, Ismatec, a subsidiary of Micropump, offers high quality pump drives and tubing pumps, featuring:



- Interchangeable pump heads and tube beds
- Multi-channel pump heads
- Contamination-free design
- Chemical resistance
- High accuracy



Simple Solutions for a Complex World™

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