Achieving Optimum Balance for Maximum Value

OEM & Process Applications

Tuthill®

Engineered Solutions

A wide range of products.

All driven by one philosophy.

All part of one family.

Our philosophy is embodied in the **Tuthill Business System** – representing an optimum balance between the needs of the customer, shareholders, and employees.

It begins with listening to what our customers want and need, then finding the most efficient and productive way to fulfill that need. By giving our employees the proper tools, training and motivation, the job is always done well. **It's about the way we treat our employees, the way we treat our business, and the way we treat YOU.**

This philosophy has resulted in a lean, flexible manufacturing system that:

- Strives to **eliminate waste** from the manufacturing process, and is driven by YOUR needs and requirements.
- **Cuts lead-time** down drastically, even on customized equipment, and helps us to modify our designs quickly based on YOUR changing needs. This flexibility gives us the freedom to innovate and engineer solutions to your problems.
- Gives you **what you want**, in the right quantity, at the right time.

By maintaining optimum balance, the employees win, the manufacturing system is free of waste, and the result is lower cost, better quality products, improved customer service and faster delivery. All focused on giving you, the customer, the best value for your money.

Contact us with your application and experience the value, flexibility, and quality that are the **Tuthill Pump Group**.

Tuthill

Engineered Solutions

ITA Market

MASTER DISTRIBUIDOR

Industrial Duty

ITA Market
MASTER DISTRIBUIDOR

GlobalGear® Series

Tuthill offers OEM pump units from our GlobalGear family for applications requiring either higher flow or heavy duty service designs. Customized designs are available for OEM's that include close coupled mounting, hydraulic motor drives, belt drives, and seal-less magnetic couplings. High suction pressure, high fluid temperature, and cold starting conditions designs are available for specific application challenges. Pump construction materials include cast iron, cast steel, and stainless steel. Typical applications include lube oil pump-motor assemblies for compressor and rotating equipment skids, pump units for hot oil systems and hot asphalt packages.

GLOBALGEAR® by TUTHILL PUMP GROUP

GG Pumps

- Back pull-out design provides ease of maintenance
- Flow rates to 550 usgpm (124.9 m^3/hr)
- Pressures to 200 psi (13.8 bar)
- Viscosities to 1,000,000 ssu (220,000 cst)

HD Series

Tuthill offers the HD series of product for the most demanding applications. The HD series is capable of handling multiple pumping challenges that may include presence of solids, and large viscosity and temperature ranges in one application. HD pumps can offer system builders and OEM's an attractive alternative to progressing cavity pumps and air-operated diaphragm pumps. HD pumps will tolerate intermittent run dry, are relatively compact, will pump liquids with viscosities that range from thin to very thick, will handle temperatures up 525ºF, and are energy efficient. Standard pump construction is in ductile iron or 316 stainless steel.

OEM applications for HD pumps include wastewater systems builders, fryer oil recovery systems, black liquor soap and paper coating packages, waste fuel handling systems, and starch handling systems.

HD Pumps

- Capable of running dry indefinitely
- Flow rates to 650 usgpm (148 m^3/hr)
- Pressures to 450 psi (31 bar)
- Viscosities to 20,000,000 ssu (4,400,000 cst)

Industrial Process Markets and Applications

- *Chemical Processing*
- *Petroleum Products*
- *Asphalt*
- *Foods*
- *Inks, Paints & Pigments*
- *Pulp & Paper*
- *Bulk Transfer*

MAGNETICALLY COUPLED

ITA Market
MASTER DISTRIBUIDOR

HIGH FLOW INDUSTRIAL

Tuthill's robust M Series magnetic coupled internal gear pumps are designed to withstand the unexpected. They use generously sized high temperature samarium cobalt magnets and are less likely to decouple when exposed to process upsets and cold starts. The M-series magnetically coupled pumps will tolerate some decoupling and run dry.

The M-series materials of construction are cast iron or 316 stainless steel. The robust magnetically coupled design makes these pumps ideal for difficult and hazardous liquids. The M-Series magnetically coupled pumps provide the ultimate protection where no leakage can be tolerated.

M Series

- Flow Rates from 0.5 to 80 GPM (.11 to 18.2 m3/hr)
- Differential Pressure: to 500 psi
- Temperature: 300°F (149°C) standard construction
- Temperature: 500 °F (260°C) high temperature construction
- Viscosity: to 75,000 ssu (16,500 centistokes)

CHEMICAL AND CORROSION RESISTANT

Tuthill's miniature magnetically coupled pumps are designed to provide exceptional reliability. The long life and non-pulsing flow are combined with the magnetically coupled, leak free, seal-less technology. These magnetically coupled pumps are constructed of 316 stainless steel, hastelloy, titanium, or engineered plastics making these pumps tough and reliable.

D Series

- External Gear design
- Flow rates from 1 ml/min to 121 gph (458 L/hr)
- Differential pressures to 250 psi (17.2 bar)
- Temperatures to 350°F (176°C)
- Viscosity: 0.3 cps to over 10,000 cps
- ATEX approved

P Series

- External Gear design
- Engineered plastic construction
- Flows to 65 gph (227 L/hr)
- Differential pressures to 150 psi (10.3 bar)
- Temperatures to 150°F (65°C)
- Viscosity: 0.3 cps to over 10,000 cps

V Series

- Patented vane pump technology
- Engineered plastic construction
- Flows to 1.5 gpm (5.6 lpm)
- Differential pressures to 60 psi (4 bar)
- Temperatures to 150°F (65°C)
- Viscosities from 0.3 cps to 100 cps

T Series

- External Gear design
- Flow rates from 5 to 650 gph (2460 L/hr)
- Differential pressures to 250 psi (17.2 bar)
- Temperatures to 350°F (176°C)
- Viscosity: 0.3 cps to over 10,000 cps
- ATEX approved

CHEMICAL METERING

Tuthill's W-Series magnetically coupled external gear chemical metering pumps are designed specifically for the harsh environment associated with water and wastewater chemical treatment. The external gear technology resists gas vapor locking caused by out gassing sodium hypochlorite. The W-Series simple and robust long life design is easy to install and maintain. The W-Series construction options are 316 stainless steel, hastelloy, or titanium.

W Series

- External Gear Metering Pumps
- No Vapor Trapping Valveless Design
- Effective for metering Sodium Hypochlorite
- Metering Accuracy better than 1%
- Flow <1 ml/min to 650 GPH (2460 L/Hr)
- Differential pressures up to 250 PSI (17.2 bar)

Magnetically Coupled Markets and Applications

- *Medical Equipment*
- *Laser Cooling*
- *Water Purification*
- *Laboratory Equipment*
- *Chemical Metering*
- *Semiconductor Equipment*
- *Liquid Chromatography*
- *Industrial Inkjet Printers*
- *Food Processing Equipment*
- *Industrial Temperature Control*
- *Polyurethane Foam Systems*
- *Wastewater Treatment*
- *Water Treatment*
- *Chemical Systems*

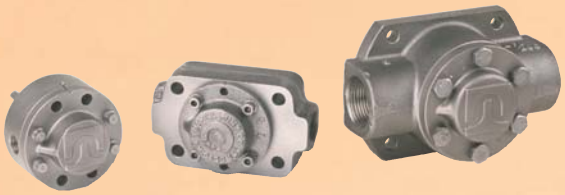
General Purpose

Lubrication & Circulation

Tuthill's L & C series cast iron positive displacement pumps have been the industry standard for Lubrication & Circulation for over 75 years. These internal gear pumps are available with Tuthill's unique reversing features as well as mounting, driving, and sealing options to suit all your applications.

L Series

LE Pumps
- Compact and flexible drive options
- Flow rates to 13.7 usgpm (3 m^3/hr)
- Pressures to 500 psi (34.5 bar)



Cartridge Pumps
- Compact design mounts directly to OEM equipment
- Multiple porting and driving options
- Flow rates to 6 usgpm (1.4 m^3/hr)
- Pressures to 150 psi (10.3 bar)

C Series

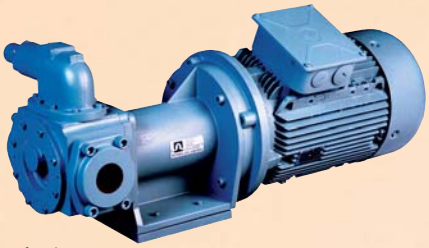
C Pumps
- Flexible mounting, sealing, and driving options
- Flow rates to 84 usgpm (19 m^3/hr)
- Pressures to 250 psi (17.2 bar)

Stripped Pumps
- Partial pump assemblies built directly into OEM equipment
- Flow rates to 200 usgpm (45.4 m^3/hr)
- Pressures to 150 psi (10.3 bar)

G Series

G Pumps
- Gerotor pump design
- Compact pump assemblies built directly into OEM equipment
- Complete gerotor pumps designed to fit custom applications
- Flow rates to 20 usgpm (3 m^3/hr)
- Pressures to 100 psi (6.9 bar)
- Multiple porting options including discharge through the drive shaft
- Reversing feature standard on most models

1000 Series



1000 Pumps
- Internal gear pump design
- Flow rates to 13.7 usgpm (3 m^3/hr)
- Pressures to 300 psi (20.7 bar)
- Multiple porting options with side ports as standard
- Cast iron construction

General Purpose Markets and Applications

- *Compressors*
- *Gearboxes*
- *Fuel Oil*
- *Bulk Transfer*
- *Transmissions*
- *Engines*
- *Filtration*