



RUTHMAN
Engineering Pump Solutions™




Gusher Pumps

Engineered Industrial and Municipal Pumps.....6 - 7


BSM Pump Corporation

Gear Pumps in Spur, Helical, and Herringbone Designs.....8 - 9


Fulflo

Hydraulic Bypass Relief Valves.....10 - 11


Great Lakes Pump and Supply

Fluid Handling Equipment Distributors for the Midwest US.....12 - 13


Great Southern Pump

Pump Sales, Service and Repair for the Southeast US.....14 - 15


Nagle Pumps

Slurry and Sludge Pumps for Abusive Applications.....16 - 17


Process Systems Inc.

Vertical Turbine Pumps for Industrial Applications.....18 - 19


Deming® Vertical Turbine Pumps

Vertical Turbines for Municipal Applications Manufactured Exclusively by PSI.....20 - 21


RAE Pumps

Standard Pump Configurations for Industrial and OEM Use.....22 - 23


Ruthmann Pumpen, LLC

Pump and Filtration Equipment Manufacturing in Germany.....24 - 25


Ruthmann Pumps and Service

Expert Repair and Service for Pumps and Fluid Handling Systems26 - 27


Wagner Process Equipment

Equipment and Process Solutions Distributor for the Southwest US.....28 - 29


Gusher Pumps Shanghai

Sales and Manufacturing of Gusher Pumps for the Asian Market.....30 - 31



RUTHMAN
Engineering Pump Solutions™

**Our Promise • Our Values
Our People • Our History**



Our Promise: *“Engineering Pump Solutions”*

Building our reputation on solving pumping problems, Ruthman earns trust with customers by manufacturing the highest quality products available. Our ‘always-on’ technical support company culture means we are there when you need us most. Ruthman’s multi-generational family ownership, and among its employees, is at the heart of our culture and commitment to customers and suppliers.

Our Values: *How we treat each other is one of our highest priorities*

- Integrity with customers, suppliers, and employees above all else.
- Continuous improvement in processes and new technology.
- Collaboration and innovation to solve customer problems and create new products.
- Respect and support for individuals in everything we do.



Our People

Alois Ruthman
Co-Founder, Inventor of Gusher,
The First “Coolant Pump”
1913-1975

Edward Ruthman
Co-Founder, Ruthman Machinery
Company
1912

Thomas R. Ruthman
Owner and President
1949-Present

Thomas G. Ruthman
Executive Vice President
1990-Present

Dan Csomos
National Sales Manager
1990 - present

**Thomas R. Ruthman
President**

In 1949, wanting to carry out his father's tradition of quality and reliability, Alois Ruthman's son Thomas R. Ruthman joined the company. His dedication to creating a worldwide presence has brought Ruthman Companies to Europe in the 1980s and Asia in the 1990s. He has expanded the Ruthman product line from the original centrifugal coolant pumps to include valves, positive displacement pumps and other specialized equipment.



**Thomas G. Ruthman
Executive Vice President**

In the early 1990s, Thomas R. Ruthman's son Thomas G. Ruthman joined the company. Continuing the same tradition, Tom is maintaining the reputation of the Ruthman name with innovation, customer service and growth.

Ruthman Companies began in the year 1912 as the "Ruthman Machinery Company." Based in Cincinnati, the company serviced the steamboats that traveled the Ohio River. In April of 1924 Alois Ruthman conceived the first sealless centrifugal pump. "We first considered naming the pump "Geysler," however the same day we decided to call it "Gusher" as this sounded more forceful," stated Alois Ruthman, thus giving birth to the trade name "Gusher Pumps." Also on that day, he coined the term "coolant pump."



Today, Ruthman Companies encompasses nine manufacturing divisions and four sales and service divisions. Each has built a reputation of unmatched industry experience, top quality and service.





Gusher Pumps



Gusher Pumps began in 1924 with Alois Ruthman's design of the first vertical ball-bearing machine tool coolant pump. Gusher now includes over 14,000 products available worldwide. Our engineers help you design customized pumps to match your exact needs for specific applications. Worldwide technical experts are always available to help when you need them most.



Assembly process of a DIN pump order at the Gusher Williamstown facility

Gusher Pumps

115 Industrial Road, Williamstown, KY 41097 • **Phone:** 859.824.5001

Leader in Design and Manufacture of Centrifugal Pumps



Gusher Product Lines

Gusher engineers and manufactures virtually all types of centrifugal pumps for industrial and municipal applications. Vertical and horizontal pump models include:

- Close-Coupled
- End-Suction
- Immersible
- Self-Priming
- Vortex
- Sludge
- Multi-Stage
- Cantilever
- Screw
- Block DIN and ANSI spec pumps
- Turbine pumps



Gusher Top Pullout Vertical Pump



Gusher ANSI Horizontal Pumps

Typical Gusher Pump Applications

- Machine tool and centralized coolant systems
- E-coat paint systems
- Industrial spray washers
- Filtration systems for water treatment
- Phosphate and bondarizing lines

Email: Sales@Gusher.com • Web: www.Gusher.com



BSM *Pump Corporation*

BSM (Brown and Sharpe) Pump Corp. traces its roots back to 1833 when David Brown and his son, Joseph R. Brown designed and manufactured their first pump, a sliding vane pump, for use in their machine shop that made and repaired clocks, watches, and other precision machines. From this very modest beginning evolved the successful BSM product line. In 1992, BSM became part of Ruthman and today BSM Pumps are used by major industries, providing economical trouble free service for thousands of applications.

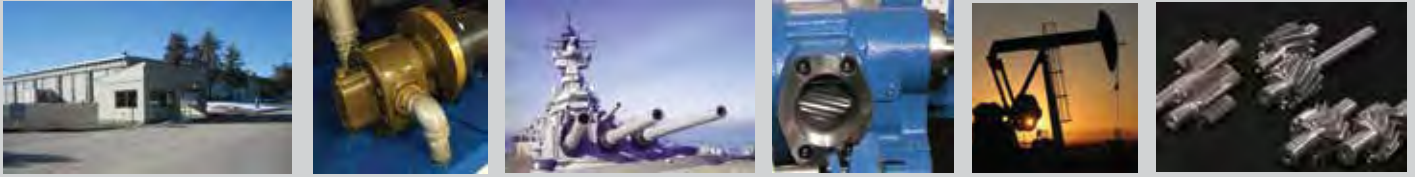


BSM Pumps are manufactured within such high tolerances that no gaskets are required

BSM Pump Corporation

260 Narragansett Park Drive, East Providence, RI 02916 • Phone: 401.471.6350

Rotary Gear Pumps in Spur, Helical and Herringbone Designs



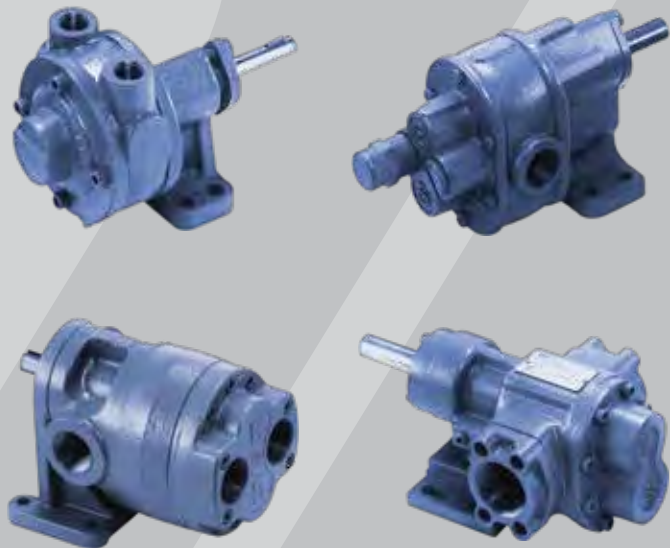
BSM Product Lines

BSM engineers, designs, develops, manufactures and tests its products from its location in East Providence, RI. BSM markets its products through a global network of value added distributors. Support is provided by factory-trained sales representatives. Products include:

- Positive Displacement Rotary Gear Pumps
- Stainless Steel Pumps
- Automatic Reversing Vane Pumps
- Lubrication, Coolant, and Hydraulic Assemblies



BSM Rotary Close Coupled Pump and Motor Assembly has flow rates to 50 GPM



BSM Rotary Gear Pumps are self-priming and handle liquids ranging from Cooking Oil to Molten Lead.

Typical BSM Pump Applications

- Lubrication systems
- Petroleum
- Chemical
- Machine tool
- Power generation
- Canning
- Refrigeration
- Gun drillings
- Filtration systems
- Oil field and pipeline
- High pressure hydraulics
- Filtration systems



Fulflo Specialties Company

Fulflo was established in 1912 under its present name Fulflo Specialties Company. Fulflo manufactures hydraulic valves. Fulflo valves are used to protect pumps, systems, components and piping from overpressure. Fulflo valves can be used for pump bypass relief, modulation of pressure, backpressure control and operate "Chatter Free." Fulflo is API 614 approved and CRN certified. Fulflo has been with Ruthman since 1982.



A Fulflo valve going through a quality control function test on this specially constructed test stand.

Fulflo Specialties

459 East Fancy Street, Blanchester, OH 45107 • Phone: 937.783.2411

Sales and Manufacturing of Hydraulic Bypass Relief Valves



Fulflo Product Lines

Fulflo relief valves are engineered, machined, stamped and assembled in the USA at their facility in Blanchester, Ohio. Fulflo valves are made of all metal parts including housings, flanges, internal pistons, bolts, caps, lock nuts, bonnets, stop rings, etc. Valve types include:

- Pressure Safety Valves (PSV)
- Pressure Relief Valves (PRV)
- Safety Relief Valves (SRV)
- Conventional Safety Relief Valves (CSRV)



An engine dyno system equipped with a Fulflo relief valve.



An order of Fulflo V-Series Model VJ-7R valves.

Typical Fulflo Valve Applications

- Combustion equipment
- Machine tool
- Hydraulic manufacturing
- Hydraulic test stands
- Hydraulic power units
- Material handling equipment
- Fluid processing systems
- Material handling equipment
- Industrial air conditioning equipment
- Engines and turbines, lubrication and control system



GREAT LAKES PUMP & SUPPLY CO.



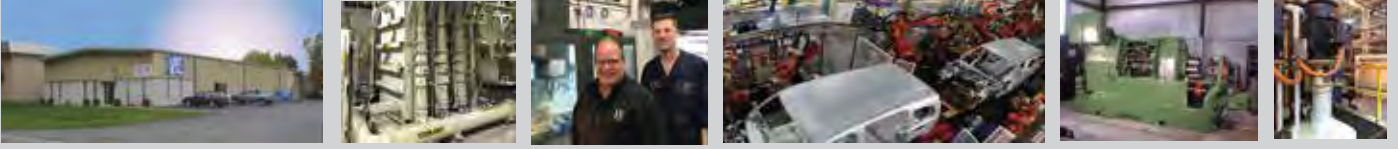
Since 1976 Great Lakes Pump has been a major supplier of process equipment for industry: pumps, heat exchangers, electric motors, valves, seals, filters, and more. Representing the world's premier fluid management manufacturers, Great Lakes has the ability to supply, as well as service virtually every style of centrifugal pump. Great Lakes is considered the leader in auto paint body and central machine coolant pump applications. With an average tenure of 28 years in the pump industry, Great Lakes' sales engineers and repair team have learned the lessons that only experience can bring. Great Lakes has been a Ruthman Company since 1997.



Great Lakes supplies pumps and other equipment for almost all processes requiring the transfer of fluids, including E-coat auto painting systems.

Great Lakes Pump & Supply Co.
1075 Naughton Drive, Troy, MI 48083 • Phone: 248.528.9100

The One Stop Solution for Fluid Handling Process Equipment



Great Lakes Pump Product Lines

Great Lakes sells, distributes, services and repairs the leading manufacturers brands of:

- Centrifugal Pumps
- Vertical Turbines
- A.O.D. Pumps
- Gear Pumps
- Axial Flow Pumps
- Heat Exchangers
- Electric Motors
- Mechanical Seals
- Valves



Expert Service and Repair from the Experienced team at Great Lakes.



The Great Lakes team at the Troy Michigan office.

Typical Great Lakes Product Applications

- Automotive and industrial paint systems
- Industrial parts washers
- Machining coolant
- Metal parts heat treating
- Water and wastewater
- Fluid processing systems



"Service After Sale"...a Great Lakes technician services this turbine installation, setting and calibrating impellers for system start up.





GREAT SOUTHERN PUMP

Great Southern Pump Company is the Deming® Vertical Turbine Pump master distributor for Florida and services the municipal, agricultural, industrial, and commercial pump markets. Great Southern Pump's staff is factory and field trained in Deming Vertical Turbine Pumps by the manufacturer, sister Ruthman division Process Systems Inc. Great Southern Pump has been a Ruthman Company since 2012.



Great Southern technicians closing in on finishing a challenging Deming® Vertical Turbine Pump installation.

Great Southern Pump Company
Phone: 321.607.3730

Serving the Florida Municipal Pump Market



Markets Served

- Municipal Water Treatment
- Irrigation Systems
- Parks Departments
- Fishing and Game Preserves
- Flood Control



Great Southern service techs installing, calibrating and aligning a pump and motor.



Making way for new Deming® Vertical Turbine Pumps, which feature Self-Seal design. This construction eliminates the need for packing and costly mechanical seals.





SPECIALIZING IN ABUSIVE APPLICATIONS

Endurance Engineered for Maximum Service Life

Nagle Pumps has been the standard in hard working pumps for the most demanding industries, for over 70 years. Nagle has proven performance in thousands of installations in Power, Chemical, Petrochemical, Steel, Water Treatment, Foundry, Ceramic, Metalworking, and other process industries. These challenging applications will attest to the Nagle philosophy of “*Endurance Engineering*,” a commitment to the engineering and manufacturing of pumps which provide the longest service life with minimum maintenance.



Getting ready to machine a Nagle thrust bearing housing in a lathe.

Nagle Pumps

1249 Center Avenue, Chicago Heights, IL 60411 • Phone: 708.754.2940

Custom Engineering For Cost Efficient Pumping Solutions



Nagle Product Lines

Nagle Pumps has a wide selection of designs, components, and materials of construction available in all abrasion, corrosion or heat resistant materials. Nagle custom engineers each pump to meet each customer's specific application and requirements.



- Vertical Cantilever Wet Pit Pumps
- Dry Mounted Cantilever Pumps
- Vertical Cantilever Shaft Pumps
- Vertical Submersible Slurry Pumps
- Vertical Submerged Bearing Pumps
- Heavy Duty Horizontal Pumps



Typical Nagle Pump Applications

Power

Ash removal
Ash sluice
Coal handling
Coal pile runoff
Pond return water
Scrubber water

Petroleum

Coke breeze
Separator pumps
Filter feed

Steel

Scale removal
Slag quench
Coal or coke slurry

Sand/Gravel

Dredging
Dewatering
Wash/prep pumps

Chemical

Corrosive pumping
Molten salts
Ammonium nitrate
Waste disposal
Metal process

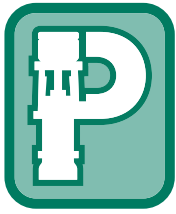
Mining

Heavy media
Crusher wash
Tailings removal
Dredging
Dewatering

High

Temperature
Molten salts
Ammonium nitrate
Molten sulphur
Molten lead





PROCESS SYSTEMS, Inc.

Since 1972, Process Systems, Inc. has been an industry-leading manufacturer of vertical turbine Pumps. PSI is the manufacturer of the Deming® Vertical Turbine Pumps for the municipal market and the Process Systems Industrial Vertical Turbines. The location in Warren, Michigan is home to manufacturing, repair, engineering, and supporting staff. A PSI location in Mellott, Indiana specializes in pump repair. PSI has been a Ruthman Company since 2007.



Assembly of a Deming® Vertical Turbine Pump.

Process Systems Inc.
23633 Pinewood Street, Warren, MI 48091 • **Phone:** 586.757.5711

Industrial and Municipal Vertical Turbine Pumps



Process Systems Product Lines

Process Systems, Inc. manufactures the Deming® Vertical Turbine Pump for municipal and the Process Systems Vertical Turbines for industrial applications. Both lines offer the proven “self-seal” design, and feature enclosed impellers, enclosed line shafts, grease/oil lubrication and other custom design options.

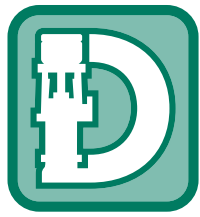
- Deming® Vertical Turbine Pumps
for Municipal Applications
- Process Systems Vertical Turbine Pumps
for Industrial Applications
- VP-Magnum® Vertical Process Cantilever Pumps
- Process Systems High Pressure Packages
- Protect-A Pump Screen Systems



Typical Process Systems Pump Applications

- Central coolant systems
- Cooling towers
- E-coat/Elpo paint
- Phosphate systems
- Industrial washers
- Spray booths
- High pressure washers
- Sludge systems
- Welder water
- Quench systems
- Scale pits
- Quarry
- Waste treatment
- Gun drilling
- Municipal water
- Drinking water treatment
- Agricultural
- Well water
- Parks and recreation





DEMING[®]

VERTICAL TURBINE PUMPS

The Deming Company history goes back to an 1866 Salem, Ohio tool manufacturing company. Evolving from blacksmith's tools to essential items used for other industries, Deming became a full-fledged pump manufacturer in 1890. In 1905 Deming built one of the largest pumps in U.S. history, a vertical irrigation pump with a capacity of 5 million gallons a day.

The Deming[®] Vertical Turbine Pump line was acquired by Ruthman in 2007 and is manufactured by Process Systems Inc. Deming[®] Vertical Turbine Pumps are the most highly sought after turbines in municipal markets across the United States.



Milling a Deming head at the Gusher Dry Ridge location. Resources within Ruthman Companies are often shared to help complete projects.

Deming[®] Vertical Turbine Sales and Service

C/O Process Systems, 23633 Pinewood, Warren, MI 48091 • Phone: 586.757.5711

The Universal Vertical Turbine Pump Manufactured by PSI



The Deming Vertical Turbine Pump Line

One of the most complete and diversified lines of vertical turbines in the world, Deming® Vertical Turbines are renowned for outstanding durability, efficiency and low maintenance. Time tested in the field with over 100 years of engineering and manufacturing experience, they can be found wherever fluids must be reliably transferred, from municipal to general industry and agricultural applications.



This installation includes five Deming® Vertical Turbine Pumps operating at 1250 GPM @ 278' TDH. These pumps are pumping reclaimed water.



Multiple pump configurations are available including the “self-seal” option which displaces any leakage without use of mechanical seals.



Deming® Vertical Turbine Pumps feature an NSF 61 certified rating for the municipal market.



Typical Deming® Vertical Turbine Pump Applications

- Water treatment
- Industrial
- Deep well
- Amusement parks
- Municipal water
- Aquariums and nature parks
- Fire water for industrial plants
- High pressure hydraulics
- Filtration systems





RAE Pumps was launched in 2020 to meet the needs of the modern pump marketplace. While most Ruthman Companies divisions focus on custom-engineered pumps, RAE offers standard pump configurations suitable for industrial and OEM use. Instead of manufactured to order pumps, RAE stocks a wide range of basic pump models available for immediate shipping.

The mission of RAE Pumps is to provide reliable, competitively-priced pumps that are easy to order and delivered quickly. RAE's products are available for direct order from its online store, and through the company's comprehensive distributor network.



RAE Pumps offers hundreds of standard pump configurations suitable for industrial and OEM use.

RAE Pumps

1212 Streng Street, Cincinnati, OH 45223 • Phone: 513.779.3034

By the People Who Know Pumps



RAE Product Lines

RAE's extensive line of stock industrial pumps includes a number of multistage vertical and horizontal pump series, close-coupled pump designs, and sealless vertical immersion pumps. Within each product series, a number of models and configurations are available to meet a wide range of performance and installation parameters.

- Multistage Vertical Immersion Pumps
- Multistage Vertical External Mount Pumps
- Multistage Horizontal External Mount Pumps
- Sealless Vertical Immersion Pumps
- Close-Coupled Vertical Pumps
- Close-Coupled Horizontal Pumps



Typical RAE Pump Applications

- Agriculture
- Aquaculture
- Commercial Laundry
- Energy, Power & Water
- Industrial
- Pool & Water Parks

Email: Sales@RAEPumps.com • Web: www.RAEPumps.com





Ruthmann Pumpen LLC

A Ruthman Company since 1998, Ruthmann Pumpen is located in Baesweiler Germany. Ruthmann Pumpen is responsible for the manufacture and sales of Ruthman's Gusher and Nagle pump lines for the Central European market. The PFE division of Ruthmann Pumpen manufactures state-of-the-art line of pressure belt filtration systems.



Setting the shaft on a pump at the Ruthmann Pumpen facility in Baesweiler Germany.

Ruthmann Pumpen LLC

Thomas-Edison-Str. 11, Baesweiler Germany • **Phone:** +49 (0) 2401 80489-0

Serving the Central European Market



Ruthmann Pumpen Product Lines

Ruthmann Pumpen manufactures and distributes Ruthman's Gusher centrifugal pumps and is also authorized to sell the Nagle line of heavy duty pumps. A few of the pump models available are:

- Close-Coupled
- End-Suction
- Immersible
- Self-Priming
- Vortex
- Sludge
- Multi-Stage
- Cantilever
- Screw Pumps
- Block DIN and ANSI Pumps
- EV Vertical Pumps

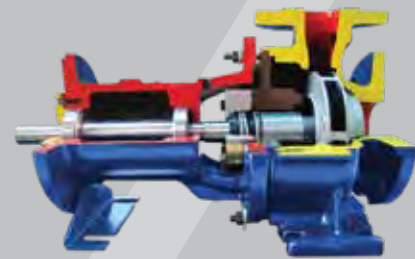
Ruthmann Pumpen also engineers, manufactures and sells PFE brand filtration systems.



PFE Filter System



Rugged EV Vertical Pumps



Trimmed enclosed impellers and replaceable carbon wear rings on horizontal DIN pumps

Typical Ruthmann Pumpen Pump Applications

- Machine tool and centralized coolant systems
- E-coat paint systems
- Industrial spray washers
- Pharmaceutical
- Filtration systems for water treatment
- Phosphate and bondarizing lines
- Breweries
- Chemical

PFE Filter Applications:

- Industrial paint
- Beverage industry
- Chemical
- Foundaries
- Food industry
- Galvanizing
- Power plants





RUTHMAN

Pumps & Service

Ruthman Pumps and Service provides complete pump and other fluid handling equipment rebuild and repair service. Also offered are problem solving consulting services for the Midwest's manufacturing community. Diagnostic services, system design guidance, equipment repair and replacement are available on-site or in-house at our facilities. The RPS goal is to solve fluid handling system problems and prevent trouble before it occurs.



RPS service technicians have the know how to completely evaluate customer fluid handling systems and will repair, replace, install or upgrade to the latest, most efficient equipment available.

Ruthman Pumps and Service
1212 Streng Street, Cincinnati, OH 45223 • Phone: 513.559.3546

The Midwest's Pump and Equipment Repair Solutions



RPS services include:

- Pump system analysis, evaluation and installation
- Diagnostic and problem solving
- Pump failure analysis
- Laser alignment
- Vertical rebowl
- Agitator repair
- Vibration monitoring
- Equipment rotation
- Aftermarket services
- Training
- Balancing
- Gearbox retrofits
- Service contracts
- Equipment storage
- Pump replacement
- AWS certified welding
- Failure/evaluation reports
- Rotating assembly service



RPS has expertise with most aftermarket equipment types:

- API Pumps
- Split Case Pumps
- ANSI Pumps
- DIN Pumps
- Multistage Pumps
- Vertical Turbine Pumps
- Gear Pumps
- Metering Pumps
- Gearboxes
- Liquid Ring Vacuums
- Blowers
- Heat Exchangers
- Air Diaphragm Pumps
- Self Priming Pumps
- Mechanical Seals
- Motors

RPS can service and repair these brands and more:

- Gusher
- Nagle
- Process Systems
- Brown & Sharpe
- Goulds VIT
- Goulds G & L
- Goulds
- ANSIMAG
- Crown
- Barnes
- Flowserve
- Yamada
- Wilden A.O.
- Allis Chalmers
- American
- Aurora
- Byron Jackson
- Cascade
- Crane-Deming
- Fairbanks
- Morse
- Gorman-Rupp
- Hazleton
- Ingersoll Rand

Email: Info@RuthmanService.com • Web: www.RuthmanService.com





Located in Stockton, California, Wagner Process Equipment was established in 1970. Wagner is the leading distributor and manufacturer's representative of pumps, heat exchangers, process equipment, controls and filtration systems serving Northern California and Nevada. In 2003 Wagner joined the Ruthman family of companies.



Wagner products are used in the refining and processing of the Central Valley's wine and other agricultural industries.

Wagner Process Equipment

3727 Metro Drive, Suite B, Stockton, CA 95215 • Phone: 209.931.0100

Pumps and Process Equipment



Wagner Product Lines

Wagner Process Equipment offers a wide range of industrial process products and technologies, including:

Filtration & Strainer Components

- Bag and cartridge filtration vessels and media
- Y-strainers, simplex basket strainers, duplex basket strainers and check valves

Motors and Controls

- Motors, gear motors, c-face reducers and VFDs

Pulsation Dampeners



Heat Exchangers

- Direct steam injection water/liquid heaters, sanitary cookers, specialty heaters, packaged systems and desuperheaters

Pumps

- Centrifugal Pumps: ANSI and Close-Coupled, Metering Pumps and Controls, Air Operated Diaphragm Pumps, Gear Pumps, Positive Displacement Pumps, Sealless and Mag Drive Pumps



Typical Wagner Product Applications

- Water/Wastewater
- Beverage/Wine
- Chemical/Petro chemical
- Power/Utility
- Biotech
- HVAC
- Pulp/Paper
- Pharmaceutical
- Food process
- Semiconductor
- Electronics
- Food process





Gusher Shanghai

Gusher Shanghai is Ruthman's sales and distribution center in China, serving Asia's automotive, machine tool, manufacturing, municipal water treatment and paint industries. Gusher Shanghai supplies this vast market with the products, services and resources of Gusher Pumps, Nagle Pumps and other Ruthman manufacturers.



A large order of Gusher Shanghai manufactured Block DIN pumps ready for motor installation.

Gusher Shanghai

655 Caosheng Rd, Jiading District, Shanghai, China 201808 • Phone: 86.021.55151993

Supplying Pumps for the Asia market



Gusher Shanghai Product Lines

Gusher Shanghai manufactures and distributes Gusher model pumps in China as well as other Ruthman Company products, including Nagle Pumps.

- Close-Coupled
- End-Suction
- Immersible
- Self-Priming
- Vortex
- Sludge
- Multi-Stage
- Cantilever
- Screw
- Block DIN and ANSI Pumps



Gusher Shanghai team at a distribution facility.



A Gusher Shanghai stocking facility.



A Gusher DIN Pump operating in a Chinese VW plant.

Typical Gusher Shanghai Pump Applications

- Machine tool and centralized coolant systems
- E-coat paint systems
- Industrial spray washers
- Filtration systems for water treatment
- Phosphate and bondarizing lines
- Mining and steel industries





RUTHMAN
Engineering Pump Solutions™