



PUMPING SOLUTIONS

The industry experts in custom-engineered pumping technology.

www.warrenpumps.com

Colfax
Pump Group
Two-Screw Team

Extensive Product Range

Some of the product areas that are serviced by Warren Pumps and Houttuin include:



Petroleum Transport

- pipeline / gathering / tank farm
- loading / unloading
- shipboard cargo and bilge handling
- light to heavy crudes, clean or dirty
- high amounts of gas and/or water
- Orimulsion® / shear-sensitive



Chemical Processing

- transfer / circulation / batching
- reactor feed / processing
- polymers / epoxy / resins / adhesives
- polyolefins + solvent / petrochemicals
- lacquers / viscose / molasses



Hydrocarbon Processing

- transfer / loading / unloading / stripping
- ROSE® deasphalting / distillation
- Light to heavy fuel oils, Bunker C
- Asphalt / pitch / tar / residuals
- Vacuum bottoms / waste oils



Power Generation

- burner feed / turbine feed
- circulation / lubrication
- light to heavy fuel oils
- naphtha / distillates
- lube oils



Commercial Marine

- barge unloading
- cargo handling
- transfer / ballast / trim / bilge / stripping
- lube oils



General Industry

- lubrication / hydraulics
- liquid transfer
- lube oils / hydraulic oils / fuel oils
- animal and vegetable oils
- pulp and paper



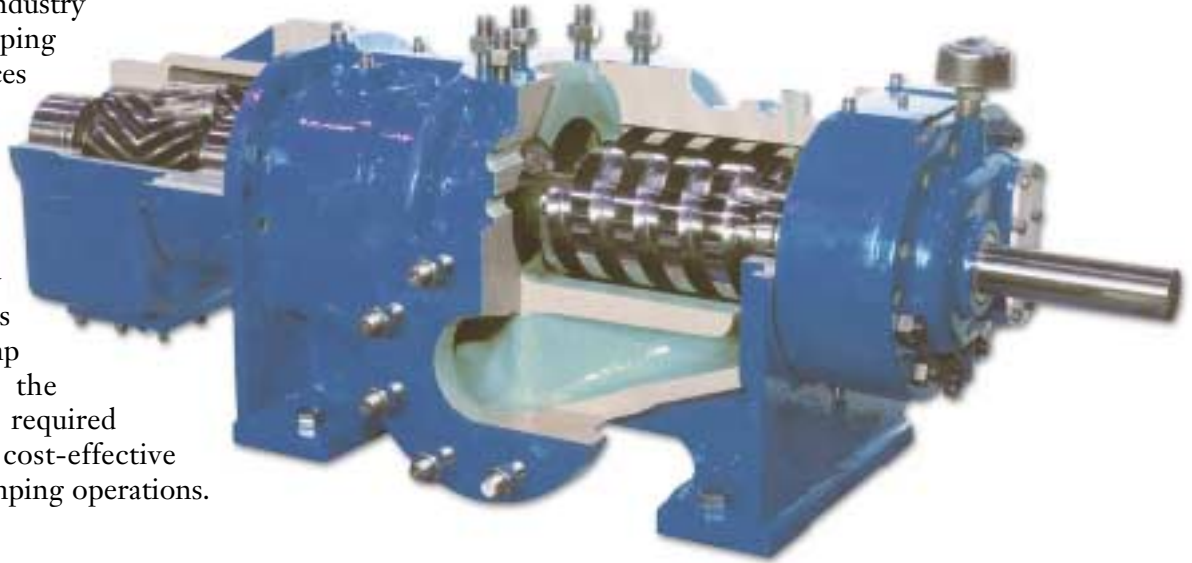
Warren



Our focus is on your needs.

Your application is unique, and therefore requires a unique pump. You require a pump engineered and manufactured with an in-depth knowledge of positive displacement pumping technology.

Warren and Houttuin, the industry leaders in two-screw pumping technology have joined forces to design and manufacture specialized pumping systems for each customer's unique application. With a long history of engineering innovation, stringent quality control, and proven success in a large variety of pump installations; we provide the knowledge and experience required to develop customized, cost-effective solutions for all types of pumping operations.



Providing customized solutions... Solutions that work!

Warren and Houttuin have provided hundreds of innovative, customized solutions for the following applications:

- Variable liquid viscosities
- Pulse free flow requirements
- Limited space availability
- Vertical configurations
- Special Mechanical Seals
- High vacuum
- Low Available NPSH
- API 676 requirements

An experienced team of creative problem-solvers.

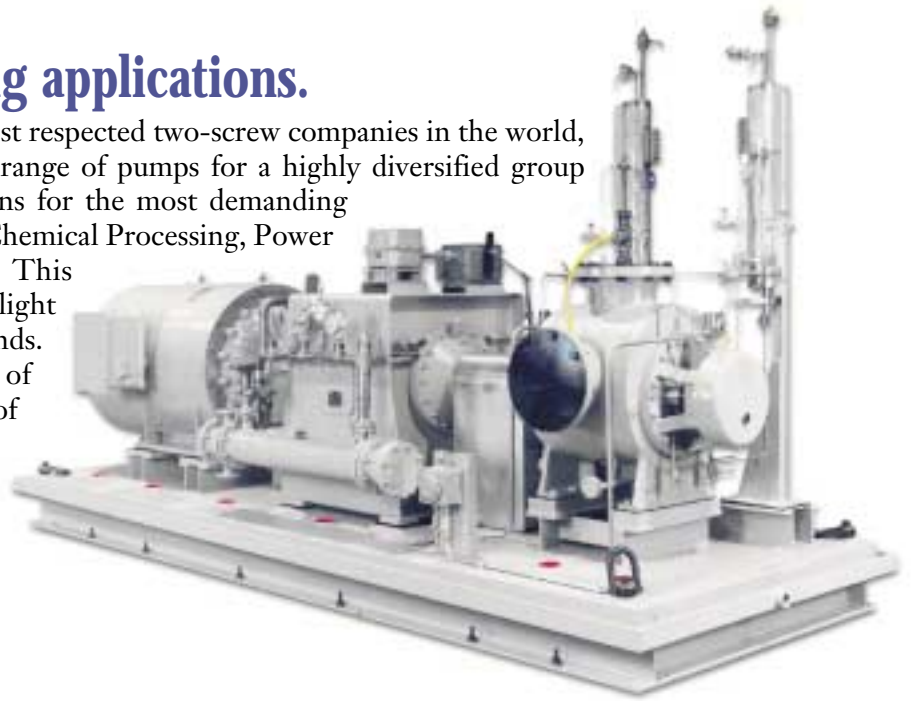


Warren and Houttuin employ a team of professional engineers experienced in the application, design, and service of rotary pumps. Before designing a pump, the engineering team works closely with you, to ensure that all aspects of your pumping system and equipment requirements are thoroughly understood. The pump is then designed to provide the best possible combination of performance, reliability, and the lowest overall life-cycle costs in accordance to customer specifications.

We are consistently developing new pump configurations to meet the changing needs of the industries that we serve. As new liquids, processes, and construction materials are developed, our engineers stay on the leading edge of the pump industry to ensure that each new design is based upon the best available technologies.

One-of-a-kind solutions for a wide range of demanding applications.

Taking the unique capabilities of the oldest and most respected two-screw companies in the world, Warren and Houttuin produce an ever widening range of pumps for a highly diversified group of industries. We have provided pumping solutions for the most demanding applications within the Petroleum, Hydrocarbon/Chemical Processing, Power Generation, Marine, and Industrial markets. This includes pumping everything from naphtha and light fuel oils to viscous polymers and caulking compounds. Pumps are available to handle a broad range of flow-rates, pressures, temperatures, and materials of construction. Our worldwide team of problem solvers has pioneered the application of two-screw pumps, and continues to develop new pump technologies for a widening range of applications.



Every project begins with our commitment to excellence.

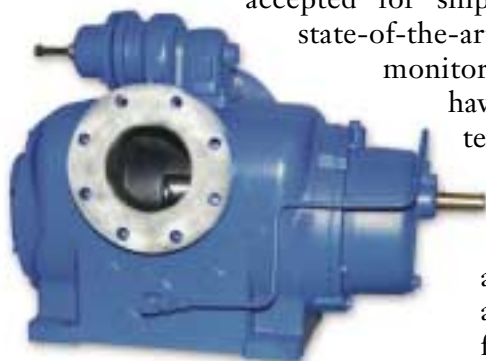


Creating a two-screw pump system is a complex series of processes. It requires a thorough understanding of your requirements, combined with the use of advanced technologies, sophisticated machinery, and talented people. We deliver all of these and more!

Warren and Houttuin have almost 200 years of combined experience in the manufacture of engineered pumps. Equipped with state-of-the-art technology, our manufacturing team works closely with the design team and customer inspectors to assure that each pump is manufactured in full compliance to all applicable specifications. We welcome visits by the customer at any time throughout the manufacturing process! Our commitment to quality engineering and precision manufacturing provides top-notch performance, reliability, and lowers your life-cycle costs.

Only the best...Guaranteed!

Every pump manufactured by Warren and Houttuin is subjected to exhaustive performance testing prior to being accepted for shipment. Together with



state-of-the-art test equipment and monitoring devices, we also

have the ability to conduct tests on a wide variety of test fluids. By simulating the actual operating conditions and variables that will affect the pump in the field, we can assure peak

performance in a wide range of demanding environments. Whenever possible, we encourage customer witnessing of the pump tests.



Service and Repair Expertise

At Warren and Houttuin, our commitment to our customers doesn't end with the delivery and installation of your pump. You can rely on us to help you monitor and maintain the performance of your custom-engineered pump.

We back every pump with our 24/7 emergency call system. If you have a problem that requires immediate attention, our exceptional technical support and emergency team is a simple phone call away. **To discuss how *your* needs can be optimized by our solutions, contact your local field representative, or you may contact the Warren factory directly.**



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WARREN

Warren and Houttuin are members of the Colfax Pump Group.

The Colfax Pump Group is a worldwide organization of pump manufacturers. Together, we are the worldwide leader in the rotary pump market. We are committed to being the first choice in custom-solutions within the pump industry and the markets we serve.

Colfax Pump Group offers the broadest range of positive displacement pumps that include two and three-screw, gear, progressive cavity, as well as standard and specialized centrifugal pumps.

A PROUD MEMBER OF THE

Colfax
Pump Group



Quality Management System



*The industry leaders
in two-screw pumping technology.*