

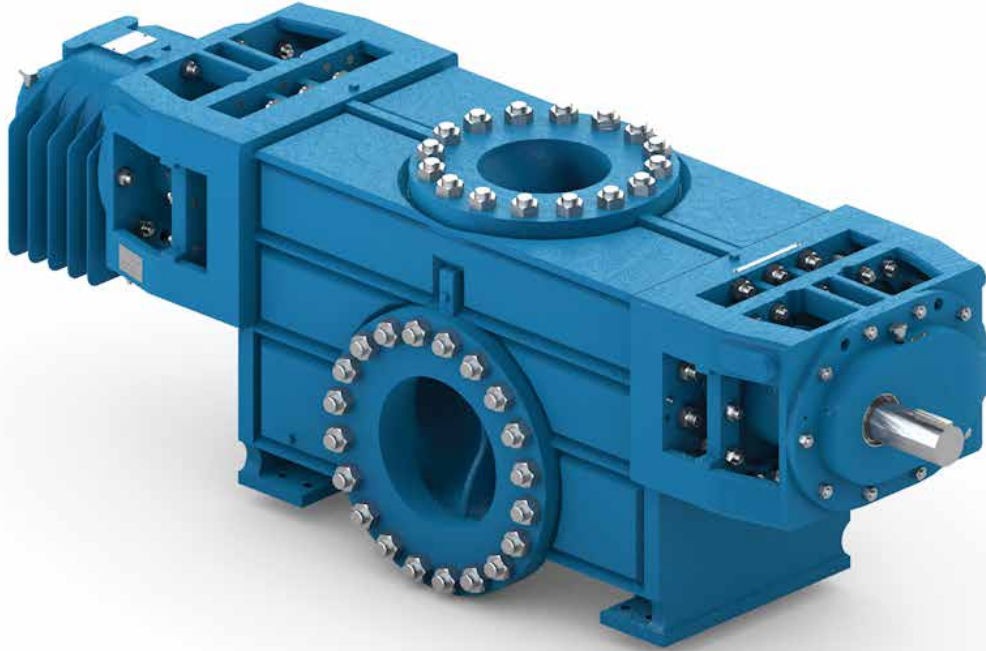


TWO-SCREW PUMPS

HOUTTUIN™ AND WARREN®. A CENTURY OF TRUSTED PERFORMANCE.

COLFAX[®]
Fluid Handling
REDEFINING WHAT'S POSSIBLE

HOUTTUIN™ WARREN®



SETTING THE STANDARD

OUR TWO-SCREW PUMPS ARE BUILT ON A REPUTATION OF DEPENDABILITY, EFFICIENCY AND PERFORMANCE

You may not be able to judge a book by its cover, but you can definitely judge a two-screw pump by the company behind it. And at Colfax Fluid Handling, our Houttuin™ and Warren® brands have been the industry standard when it comes to two-screw technology for over a century.

From the state-of-the-art methods we use to test our pumps, to the exacting standards we hold them to, our reputation is one we continue to build on.

Whether it's our uncompromising quality, our innovative engineering or the unmatched expertise of our support teams, no one's better at delivering reliable, customized solutions to companies just like yours.

AN UNBEATABLE PUMP IN UNBEARABLE APPLICATIONS

OUR TWO-SCREW PUMPS ARE BUILT TO EXCEL IN THE MOST DIFFICULT OF APPLICATIONS AND ENVIRONMENTS

Two-screw pumps are designed to convey fluid without any metal-to-metal contact. It allows the pump to handle a wider variety of fluids and a wider variety of conditions, including multiple phases, intermittent dry operation and extreme temperatures. And no one knows this technology like Colfax Fluid Handling.

Two-screw pumps are used for a variety of applications:

- | | | |
|-----------------------------|---|-----------------------------|
| ■ Bilge/Ballast Pumps | ■ Hydraulic System Pumps | ■ Stripping |
| ■ Bottoms/Waste Removal | ■ Lube Oil System Pumps | ■ Vapor Recovery |
| ■ Charge Pumps | ■ Loading & Unloading
(Tank, Truck, Railcar, Ship, etc.) | ■ Wellhead Pressure Control |
| ■ Crude Oil Gathering | ■ Mixing/Blending | |
| ■ Fuel Forwarding/Injection | ■ Pipeline Transport | |

Typical Fluids:

- | | | | |
|---------------|--------------------------|----------------|--------------------|
| ■ Acids | ■ Condensates | ■ Lube Oil | ■ Polymers |
| ■ Additives | ■ Crude Oil | ■ Margarine | ■ Residuums |
| ■ Adhesives | ■ Distillation Fractions | ■ Naphtha | ■ Soaps |
| ■ Animal Fats | ■ Fuel | ■ Paint | ■ Slops & Slurries |
| ■ Asphaltenes | ■ Fuel Oils | ■ Paper Pulp | ■ Water |
| ■ BS&Ws | ■ Glycerine | ■ Paraffine | ■ Seawater |
| ■ Bitumen | ■ Hydraulic Oil | ■ Polyethylene | |

NOT JUST OFFERING BETTER SOLUTIONS, OFFERING MORE OF THEM

OUR EXTENSIVE PORTFOLIO ALLOWS US
TO CUSTOMIZE A SOLUTION TO YOUR SPECIFIC NEEDS

Whether you're looking to unlock a stubborn oil field, want a pump that can stand up to a harsh environment or just need a more reliable self-priming seawater pump, our two-screw pumps are a time-tested solution sure to get results. Of course, when it comes to pumps and pump systems, no two situations are alike.

THE BEST TEAM IN THE BUSINESS

At Colfax Fluid Handling, our experienced teams offer unparalleled product and industry knowledge, and we've streamlined our system to ensure we're able to get you solutions and answers quicker than ever. So you can be sure you're getting the right system or pump for your specific needs.



FEATURED PRODUCTS

OUR PUMPS ARE ALL TESTED WITH STATE-OF-THE-ART METHODS AND ARE DESIGNED AND MANUFACTURED TO INDUSTRY LEADING STANDARDS



Houttuin 136 Series

This single-entry, two-screw pump is self-priming and horizontally rotating. Built to handle contaminated or slightly abrasive, lubricating and non-lubricating liquids at either low or high viscosity, the Houttuin 136 Series is ideal for food and beverage, soap and fat, paint and lacquer or polluted water.

- Offers continuous, nearly pulsation-free pumping
- Highly efficient
- Casing available in cast iron, cast steel, cast stainless steel
- Optional spring loaded relief valve protects against overload
- Non-contacting, timed rotor set can pass solid and gas content

Houttuin 211/231 Series

This series of double entry, vertically rotating, self-priming two-screw pumps can handle contaminated, slightly abrasive, lubricating and non-lubricating liquids at a wide range of viscosities. Its optional corrosion-proof materials make it perfect for industries that transport chemicals, petro-chemicals, soaps and grease, paints and lacquers or food and beverages.

- High pumping efficiency
- Able to handle a range of viscosity from 0.6 to 5,000 cSt
- Provides constant axial flow and incredible suction power

Houttuin 216 Series

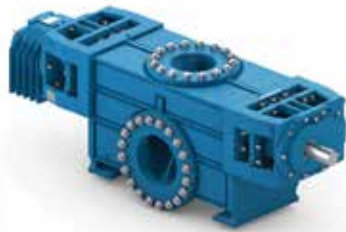
Designed for low pressure applications and for both clean and abrasive fluids, the 216 Series offers both unmatched reliability and features that make maintenance easier. The 216 is suited for a host of duties within process and transport applications for the food and beverage, oil and gas, petrochemical, power, shipbuilding and other general industries.

- Features non-contacting rotors for abrasives handling
- Field replacement liner and 'pop-out' access for easier maintenance
- Available in a variety of materials, including cast and stainless steel
- Comes in a variety of arrangements to meet your installation needs

Houttuin 236 Series

These time-tested self-priming two-screw pumps are suitable for a wide range of process and transport applications in chemical, food and beverage, oil and gas, petrochemical, shipbuilding and other general industries.

- Rugged design stands up to the harshest environments
- 'Pop out' rotor access reduces inspection and maintenance time
- Optional customizable alignments match your design needs
- Available in a variety of materials



Houttuin MR Series

Capable of handling a wide range of liquids, gas, pressures and temperatures, the MR Series Multiphase Pump, an API 676 3rd edition pump, excels in wellpad, platform or central production facility systems. Its ability to reduce wellhead pressure, increase production and boost a full well stream mixture of oil, water and gas make it a huge asset to oil and gas operations.

- Suitable for handling 0-100% gas
- Handles wide range of pressures and temperatures
- Manufactured under rigorous standards
- Available in less common materials like Super Duplex
- Can meet NACE requirements

Warren Jaguar Series

Flexible, durable and efficient, the Warren Jaguar Series is a heavy-duty two-screw pump built to perform and handle differential pressures up to 800 psi. Its adaptability makes it a perfect fit for a wide range of applications including chemical processing, petroleum, power, food or barges.

- Hopper style suction available for extremely low NPSHr
- Accommodates most seal designs
- Capable of handling shear sensitive fluids
- Available in a number of materials
- Body designed for weld-on steam jacket

Warren FSXA Series

Highly efficient and built to last, these heavy-duty, high pressure two-screw pumps deliver efficient performance year after year and are perfectly suited for a wide range of applications in the oil and gas industry.

- Available in a variety of materials, including cast iron and stainless steel
- Integral rotors eliminate assembly failure points
- Keyless timing gears and easy 'pop out' rotor access means easier maintenance
- Rugged design stands up to harshest environments
- Double helical timing gears reduce noise and vibration

Warren FSXB Series

The next generation of the FSXA series, the FSXB series two-screw pumps are built for high pressure applications and high compliance with API 676 3rd edition. Like the FSXA, the FSXB series excels in a wide variety of applications in the oil and gas industry.

- Field replacement liner
- Keyless timing gears and coupling with tapered shaft for easier maintenance
- In-line suction and discharge flanges for easy installation
- Increased suction handling capabilities

OUR SUCCESS STORIES CONTINUE TO GROW

OUR CUSTOMIZED TWO-SCREW PUMP SOLUTIONS ARE DELIVERING REAL RESULTS ALL OVER THE WORLD

UNLOADING INEFFICIENCIES BY 35%

Houttuin's two-screw pumps helped a large refiner in North America meet delivery deadlines by reducing the production time of unloading cargo by 35%.

TOUGH ENVIRONMENTS ARE A JAGUAR'S NATURAL HABITAT

When a major Middle Eastern oil company needed to maintain the smooth operation of its propane deasphalting (PDA) unit, they turned to Warren's Jaguar Pumps. Despite extremely difficult operating conditions, our engineered solution has been performing flawlessly for 15 years and counting.

BREATHING NEW LIFE INTO MATURE WELLS

By reducing wellhead pressure, Houttuin's Multiphase Pump System was able to jumpstart oil production in a mature field in the Caspian Sea by 70% while cutting the amount of gas lift required in half.

KEEPING SAND-LADEN CRUDE OIL FROM CREATING A DOWNTIME-LADEN PIPELINE

When heavy sand-laden oil was causing a Venezuelan oil producer to lose capacity in its transfer pumps, they turned to Colfax's expertise for a solution. By replacing the company's current two-screw pumps with easy-to-maintain Warren two-screw pumps, they cut downtime dramatically.

WE ENGINEER RELIABILITY INTO EVERYTHING WE DO

At Colfax Fluid Handling, we know what downtime can mean to an operation and how important efficiency is to your bottom line. It's why we never stop improving our products or looking for new and better solutions.

No company offers the combination of expertise, innovation and dependability you'll find at Colfax Fluid Handling. Our extensive product line along with our knowledgeable team allow us to help you create a system that will both meet your specifications and exceed your expectations.

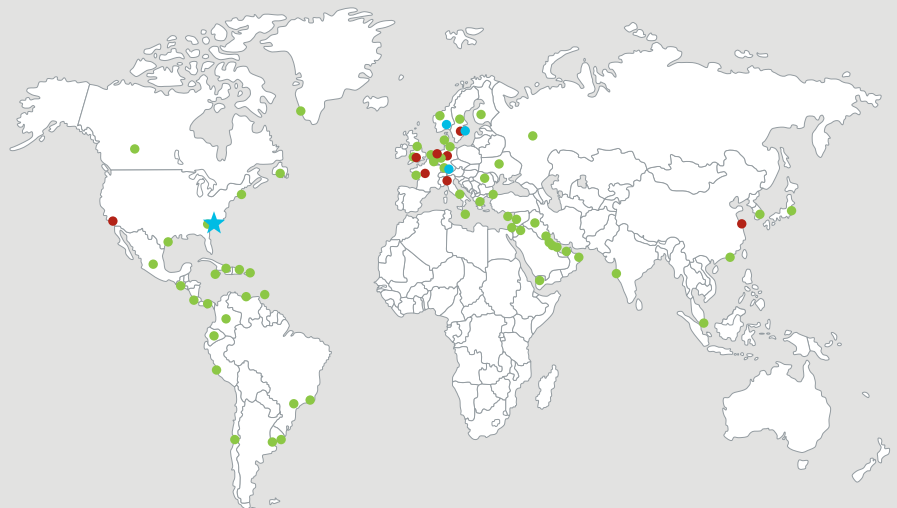
LET'S GET STARTED

If you'd like to learn more, schedule an appointment or talk to a representative, go to colfaxfluidhandling.com/two-screw-pump or call us at our Customer Care Hotline +1 877-853-7867 (USA and Canada) or +1 704-291-2040 (International).

REDEFINING GLOBAL SOLUTIONS

Colfax Fluid Handling maintains regional engineering and manufacturing facilities, along with a global network of distributors, to support you around the world and around the clock.

-  Global Headquarters
-  Commercial Marine Main Offices
-  Regional Manufacturing and Engineering Support Facilities
-  Global Distributor Network



TWO-SCREW PUMPS > JUST ONE MORE WAY WE'RE REDEFINING WHAT'S POSSIBLE

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www.colfaxfluidhandling.com/two-screw-pump

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