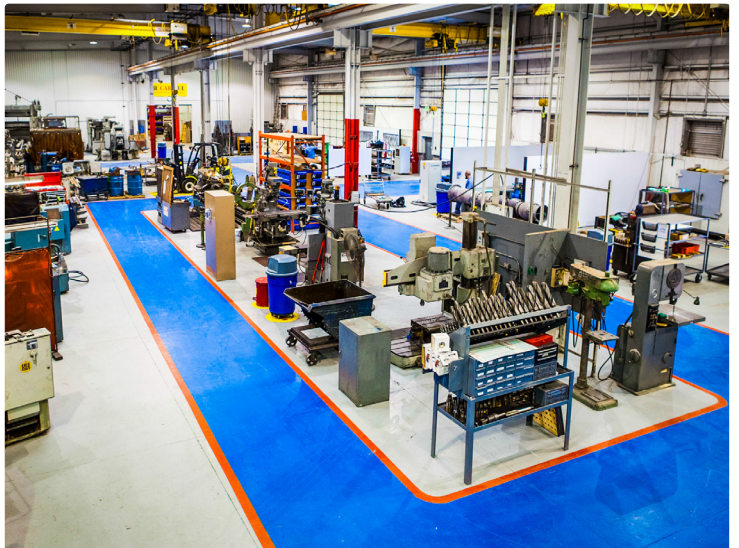
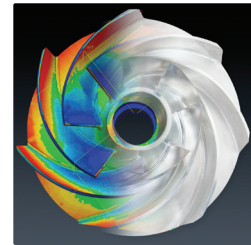
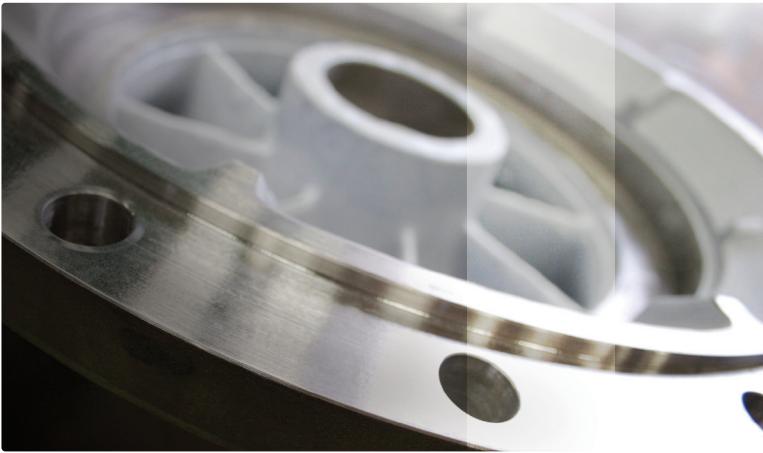
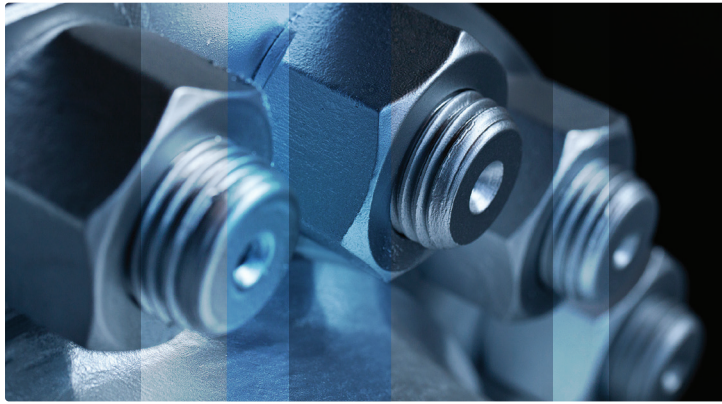


HYDRO ROCKY MOUNTAIN



Engineering Pumps For Better Performance and Longer Life – Since 1969





We Are Pump Experts

Engineering expertise is the foundation of our business. Our engineers and technical staff have extensive experience in the pump industry with a broad range of pumping equipment. Utilizing the latest manufacturing and design technologies, we not only repair pumps - we improve the design and reliability. With our broad knowledge-base and proven successes for more than 50 years, we are trusted by pump users around the world for better pump performance and longer life.

Our mission is to work hand in hand with our valued customers to optimize the performance and reliability of their pumping systems by evaluating and understanding root causes of pump degradation or failure and by providing unbiased engineering analysis, quality workmanship, and responsive field service for improved plant operation.



Worldwide Service Centers

24/7 Emergency Services

Engineered Pump Repairs

Certified Performance Testing

Wireless Condition Monitoring

Engineering Services

Critical Parts Solutions

Customer Training

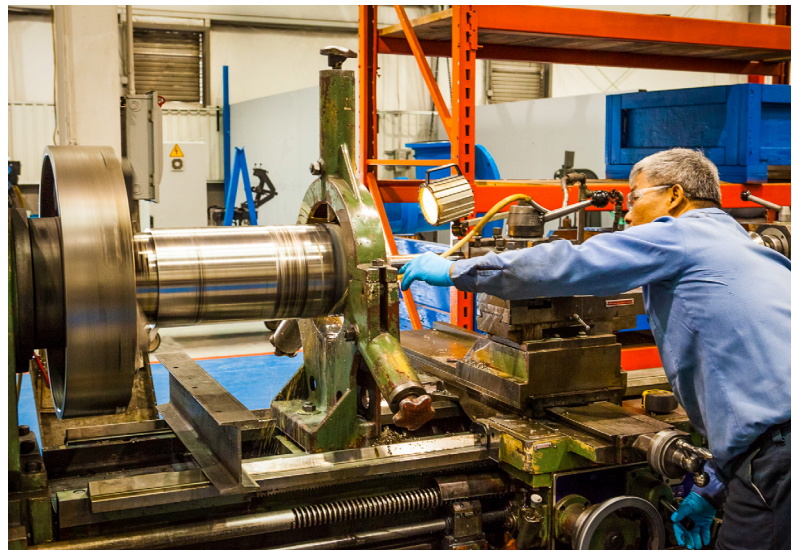
State-of-the-Art Technology

In-depth Knowledge of Major Brands

Field Service Support for Installation & Start-up



Hydro provides engineering expertise and essential support to pump users around the world for better performance and longer life.



Hydro Rocky Mountain – Powerful Capabilities

Hydro's 27,500 Sq. Ft. service center in Denver, Colorado serves the Power Generation, Refining, Oil & Gas Production, Pipeline, Industrial Manufacturing, Municipal, Steel, Mining, Petrochemical markets and other industries with innovative and customized solutions.

We get it right – the first time.



Our State-of-the-Art Equipment Includes:

LATHES

- 7 Manual Horizontal Lathes
- Up to 60" Diameter x 185" Long
- 1 CNC Turning Center
- 2 Vertical Turret Lathes
- Up to 78" swing x 66" Under Rail

MILLING/ DRILLING MACHINES

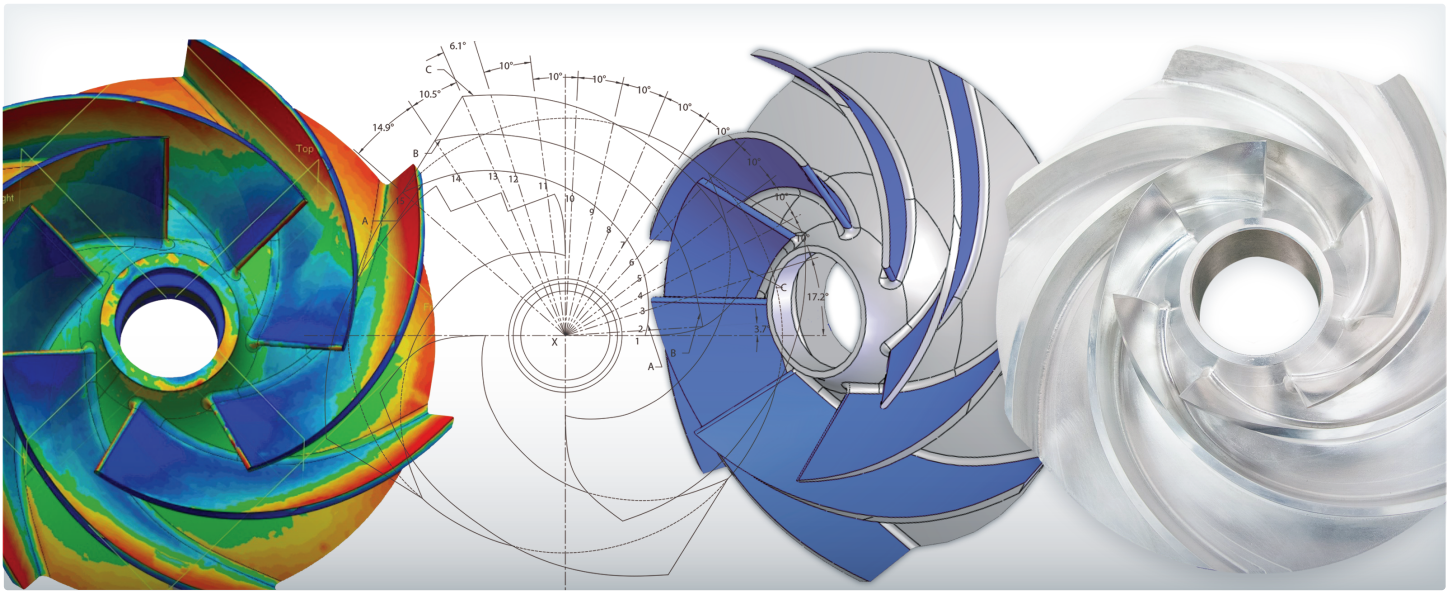
- 1 Manual Mill w/ 12"x58" Table
- 1 CNC Mill
- 1 Radial Arm Drill
- 1 Horizontal Boring Mill w/ 48"x52" Table

DYNAMIC BALANCING

- Schenck CAB-820 5,000lb Balance Machine

ADDITIONAL EQUIPMENT

- Welding - Mig, Tig, SMAW
- Davis Key Seater
- 75 Ton Hydraulic Press
- Hydraulic Torque Wrench
- Automatic Horizontal Saw
- Vertical Band Saw
- Parts Oven
- Media Blast Cabinet



Engineering Makes All the Difference

Engineering expertise is the foundation of our business.

Hydro's engineers and technical staff have extensive experience in the pump industry and with a broad spectrum of pumping equipment. By understanding the unique characteristics of the customer's application and applying their hydraulic, mechanical and materials knowledge, Hydro's engineers can make recommendations for restoring parts to achieve optimal pump performance and longer life.

An engineering review is a key element of our quality manufacturing process. Technical specifications are typically developed for parts via Hydro's proven reverse engineering practices.

Reverse engineering is quite different from "replicating". We are not interested in just replicating the existing component as it is, but also in evaluating the failure modes and defining the critical characteristics required to minimize the possibility of failure in the newly manufactured piece.

While accuracy, thoroughness and technology are important elements of reverse engineering, it is Hydro's pump-specific engineering knowledge, understanding and experience that distinguish and define our process.

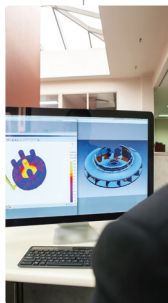
Hydro's process for providing difficult-to-source cast parts, such as impellers, diffusers, discharge head casings, bowls and suction bells, may include:

- Laser scanning and reverse engineering
- Solid modeling
- Hydraulic and metallurgical upgrades
- Solidification simulation
- Patternless casting / Precision sand mold printing
- Casting metals that you specify
- Testing to verify pump performance when required

To achieve the best result for our customers, expert engineering is supported by the latest technology and proven process control procedures.



24/7 FIELD & EMERGENCY SERVICES



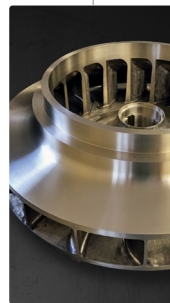
ENGINEERING SERVICES



CERTIFIED PERFORMANCE TESTING



WIRELESS CONDITION MONITORING



CRITICAL PARTS SOLUTIONS



CUSTOMER TRAINING



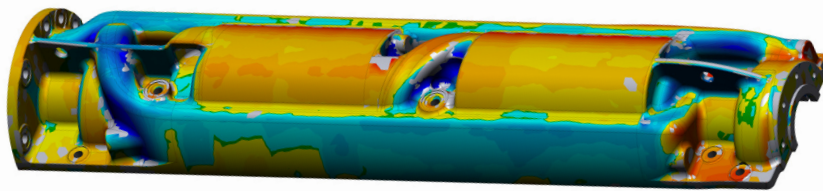
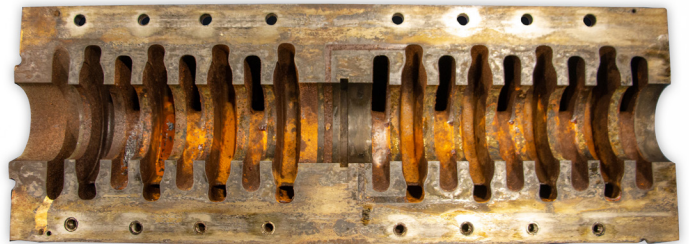
RELIABILITY SERVICES

A Trusted Partner for Lasting Solutions

Material Upgrades Lead to Lower Maintenance Costs.

Problem: A steel mill had shut down production due to the pandemic. While production was halted, the plant took the opportunity to send its 20-stage vertical pump to Hydro Rocky Mountain for some much-needed inspection, maintenance, and quality repair. The application for this pump requires repeated cycling, on and off, which can be hard on the design, and over its life cycle, Hydro Rocky Mountain had performed numerous repairs on this unit as well as its sister pumps. This line of pumps was originally built in the 1950s, with four-part cases forged out of cast-iron. Because of the metallurgic properties of cast-iron, any build-ups or welding to the case required the addition of brass inlays, in addition to excessive machining.

As the price of brass increased, so did the cost of repairs, and upon the pump's most recent return to Hydro Rocky Mountain, the price of brass coupled with the amount of brass required to complete the job meant that the cost of the repair would be almost as much as casting a whole new case. In this instance, Hydro Rocky Mountain recommended the latter, to ensure a long-term solution for the customer.



Solutions: Hydro Rocky Mountain's Denver facility is part of the Hydro, Inc. worldwide network of service centers, and because of that, the facility was able to work with Hydro Parts Solutions in Houston to develop a comprehensive casting scope. This plan would not only provide the customer with a newly

machined case with tolerances brought back up to original specs, but it would also provide a case cast out of carbon steel. The customer opted to proceed with Hydro Rocky Mountain's plan to replace the case with upgraded materials. Hydro Rocky Mountain sent the case to Hydro Parts Solutions to be reverse engineered and cast with a quick turnaround.



After the case was cast and machined, it was returned to Hydro Rocky Mountain to be mated with its rotor, which was simultaneously being repaired and re-machined in the shop. Once the pump was reassembled and inspected, it was returned to the customer ready to return to service as soon as production resumed.

In this case, carbon steel served as an optimal metallurgical upgrade for both long-term maintenance and repair. and will prevent potentially expensive repairs in the future. Following this order, the steel mill opted to send a batch of sister pumps to Hydro Rocky Mountain for additional castings and repair.



Pump Performance Testing – Smart and Fast

The highest standard of testing in a fraction of the time.

A faulty pump can cause entire plant failures and cost thousands in maintenance and down-time. That's why Hydro designed and built a state-of-the-art test lab, dedicated to the needs and requirements of the pump aftermarket. And because Hydro is independent, we offer unbiased recommendations in every test situation.

Our testing capabilities enable us to work with our customers to develop and implement engineering modifications for improving the performance of critical pumps and then to verify that performance in the lab. And because our test lab is dedicated to the aftermarket, we have the flexibility to schedule tests to meet our customers' needs. We test day and night so you get the highest standard of testing in a fraction of the time.

Test Lab Key Features

Designed in compliance with API 610 and Hydraulic Institute Standards

Capable of testing horizontal, vertical and submersible pumps

Maximum of 5,000 HP

Variable Frequency Drive; 2,300 - 4,160 volts

Flows of up to 35,000 GPM on the horizontal loop and 42,000 GPM on the vertical loop

State-of-the-art data collection system

Emergency testing in 7 days



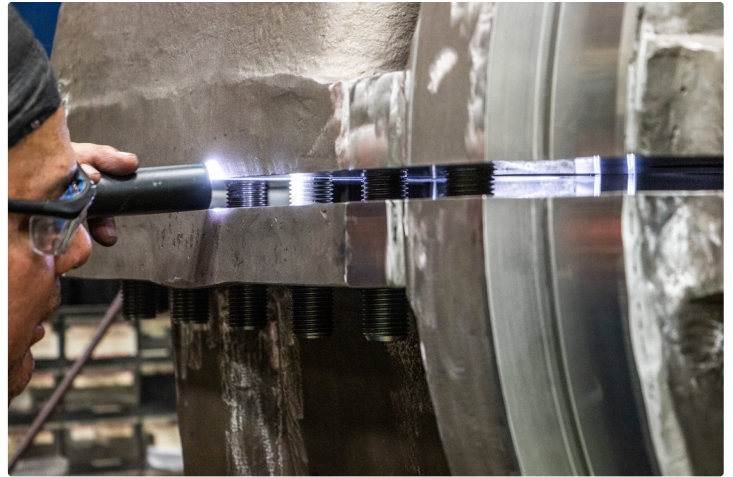
**Certified by
the Hydraulic Institute**

A Dedication to Quality and Commitment to Excellence

Systems and processes – High standards for every step

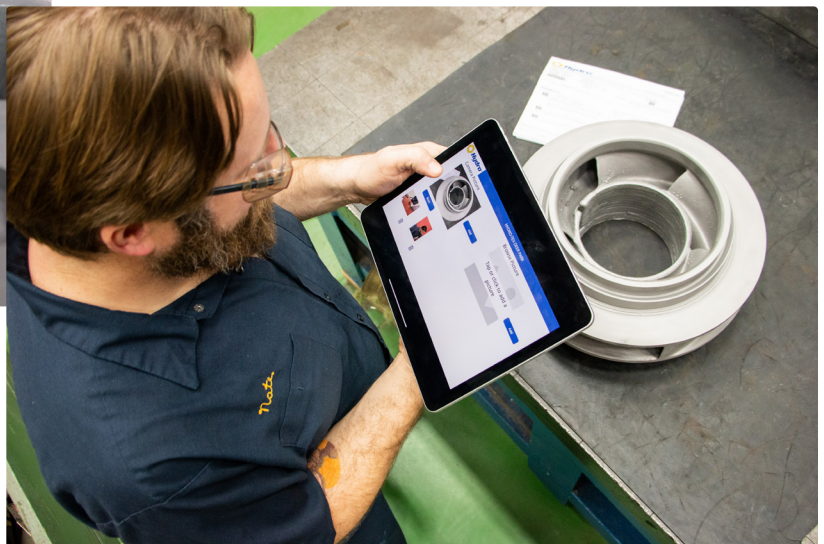
For over half a century Hydro has worked closely with our valued customers to provide industry leading quality standards, customer focused responsiveness, and unparalleled turn-around time to pump users around the world, across all industries.

Our global aftermarket service network is dedicated to providing its customers with high quality, engineered solutions to complex pump problems and implementing creative solutions within an expedited time frame. Our three-hundred-and-sixty degree total support framework has been made achievable through decades of accumulated expertise and commitment to a rigorously developed and carefully implemented Enterprise Resource Planning System.



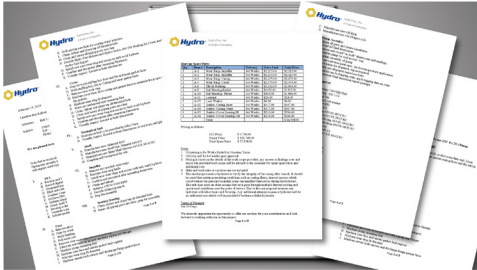
Hydro's ERP System was specifically configured for the pump building aftermarket process and provides an integrated and continuously updated view of core business processes using network-wide databases. These databases allow us to share vital engineering data across our entire network of service centers, and generate consistent, uniform parts lists for every pump that comes into one of our shops, ensuring consistent quality and faster turn-around time.

At the root of a quality job is a quality process. Our ERP system allows us to digitize each and every step of our workflow. From initial inspection to final billing, every aspect of every project is turned into a datapoint, and is available to the customer.

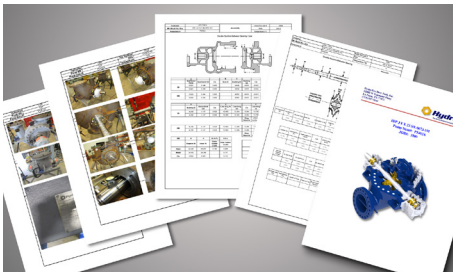




As-Found Inspection Documentation – Providing high-quality information and assets in regard to the unit's problem areas, breakage, signs of degradation, and other issues examined upon receiving.



Customer Data Management and Processes – All aspects of the work scope are processed through Hydro's ERP systems. This enhances transparency, quality assurance, accountability, traceability, consistency, and 2-way communication during the repair process.



As-Built Documentation – When a unit leaves the shop, customers are provided with a full spectrum of documentation post-repair, highlighting all aspects of the servicing, engineering support, and forensics, as well as documentation on further improvements, optimized operation suggestions, and support services.

Our ERP system continues to evolve; Increasing in efficiency, guaranteeing optimal turn-around times, and streamlining in scalability, to leverage the resources and wealth of knowledge across the global network of Hydro Facilities.

At Hydro, it's about more than quality, it's about our commitment to **consistent quality and ensuring that our customers are provided with a superior product, and optimized mean time between repair for years to come.**



ATLANTA | BEAUMONT | CHICAGO | DEER PARK | DENVER | HOUSTON | LOS ANGELES | PHILADELPHIA
AUSTRALIA | CANADA | CURAÇAO | ENGLAND | FRANCE | INDIA | KOREA | OMAN | UNITED ARAB EMIRATES | VIETNAM



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