

innovation
experience
efficiency
reliability

Engineering Pumps for
Better Performance
and Longer Life

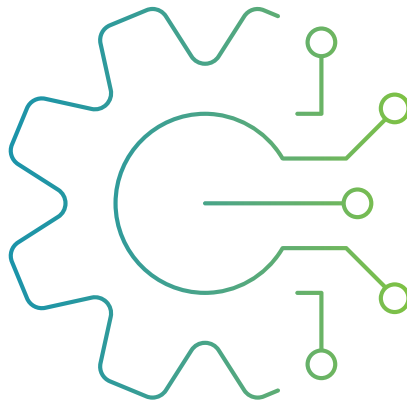




At Hydro, the pursuit of excellence isn't just a goal – **it's the heart of our business.** Through innovation and experience we support and enhance pump systems to make them **safer, more reliable, and more efficient.**

For **over half a century**, we've set the industry standard for **quality and customer service** in remanufactured pumps. Today, Hydro delivers **engineered solutions** that **maximize pump performance and life.** Our comprehensive services are backed by **proven expertise** and designed to support you in every aspect of rotating equipment ownership – with a focus on **minimizing your total life cycle costs.**

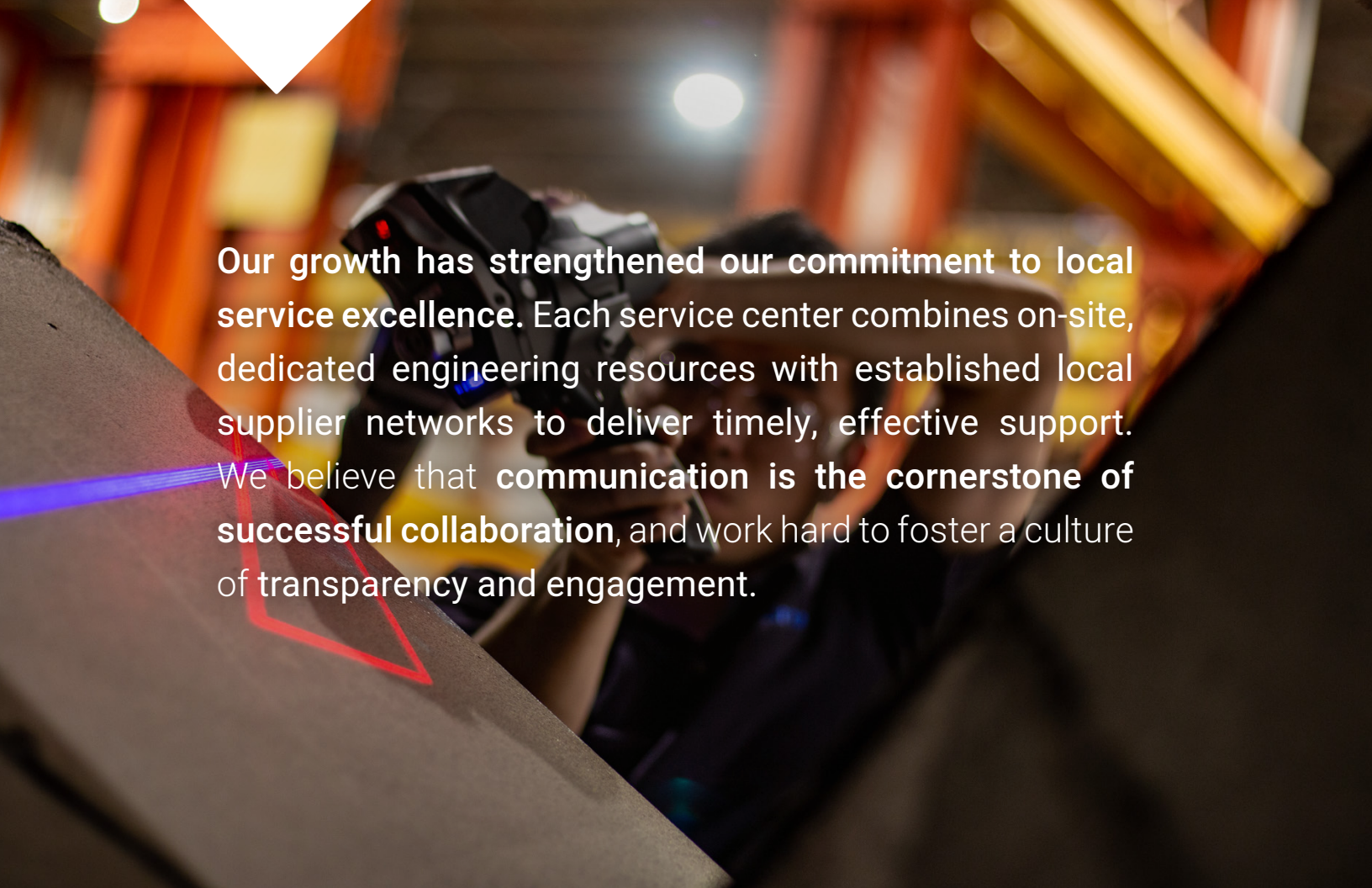
As an independent company, Hydro has, from the outset, developed a knowledge base with experience across a broad spectrum of pump manufacturers and pump designs. **We are loyal to our customers – not to a brand.**



global network, local support

From its first storefront location in Chicago in 1969, Hydro has grown into a global service network that supports pump users **worldwide**.

With thousands of successful upgrades implemented, **we have developed a comprehensive library of proven solutions**. Our knowledge base is complemented by a **centralized global engineering division**, with **experts** in disciplines including hydraulic design, metallurgy, vibration analysis, and troubleshooting.



Our growth has strengthened our commitment to local service excellence. Each service center combines on-site, dedicated engineering resources with established local supplier networks to deliver timely, effective support. We believe that **communication is the cornerstone of successful collaboration**, and work hard to foster a culture of transparency and engagement.

seamless solutions

for pump systems

1

Facility Design & Commissioning

- Specification and design review
- Commissioning and startup support
- IMPEL® Interactive, digital installation and operation manuals
- Field support and end-user training
- Laboratory testing to provide baseline



2

Inventory Optimization

- Reverse engineering, including upgrades to mechanical and hydraulic performance
- Component modeling and virtual inventory development
- Just-in-time critical parts supply



From initial concept through equipment replacement, Hydro is your single source for pump solutions. Our comprehensive capabilities span critical applications across all brands and models to deliver seamless solutions at every stage of asset ownership. Throughout the equipment lifecycle, Hydro provides consulting as a subject matter expert, leveraging our unbiased perspective and comprehensive knowledge base to facilitate effective asset management and improvement.

3 Routine Maintenance

- Quality repair exceeding industry standards
- Technical field supervision and turnkey solutions
- Centaur® 24/7 condition monitoring support and reporting



5 Performance Upgrades & End of Useful Life Solutions

- Upgrades to increase reliability of aged installations
- Reliable sourcing for obsolete parts
- Rerates for changing process and product conditions
- Custom pump design for drop-in replacement

4 Troubleshooting & Critical Analysis

- Health assessment and system analysis
- Root cause evaluation and engineered solutions
- Laboratory and field testing for verification
- Certified performance testing and field testing



building blocks of a quality repair

Improving performance and extending life isn't always about making big changes to design and operation. Small improvements can result in measurable benefits. **Hydro** earned its reputation for quality by paying attention to the details and exceeding the industry standards for pump repair. The in-depth 300-point inspection process we pioneered transformed the pump aftermarket and brought reliability and problem-solving into greater focus.



Our proven approach combines a **thorough inspection with rigorous quality standards**. Each repair includes:



- Comprehensive documentation during disassembly and inspection, capturing critical measurements and identifying potential reliability issues



- Reverse engineering, as required, using robust processes that are continuously updated with new experience and advancing technologies to create parts that are equal to and often better than the original



- Engineering analysis that applies new technology and makes recommendations for performance improvements



- Strict process control procedures that ensure consistent, high quality results



- Stringent acceptance criteria for critical tolerances to minimize wear and maintain design clearances



- Quality verification at every step to ensure that we uphold our commitments to our customers

The Result:

Optimized performance, extended service life, & reduced costs

one source total support

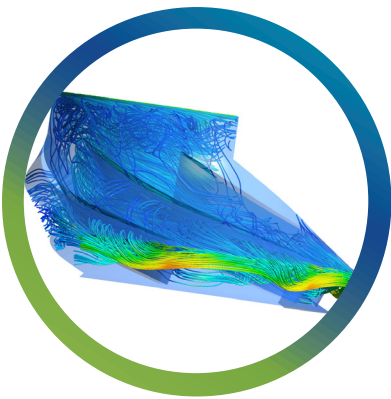
Quality Pump Repair

Comprehensive Inspection | Stringent Tolerances | Design Improvements



Engineering Services

Root Cause Evaluation & Analysis | Engineered Upgrades & Rerates
Performance Optimization



Reverse Engineering

Advanced Laser Scanning | Hydraulic Performance Verification
Field Data Capture | 3-D Modeling



Critical Parts Solutions

Expedited Cast & Machined Parts | Inventory Optimization | Deviation Analysis



System Reliability Services

Advanced Troubleshooting & Vibration Analysis | On-Site Performance Testing
System Optimization | Health & Energy Audits





Field & Emergency Services

Technical Field Supervision | Turnkey Solutions | Field Machining



Certified Performance Testing

Hydraulic Institute Certified | Responsive Lead Times | Custom Test Configurations

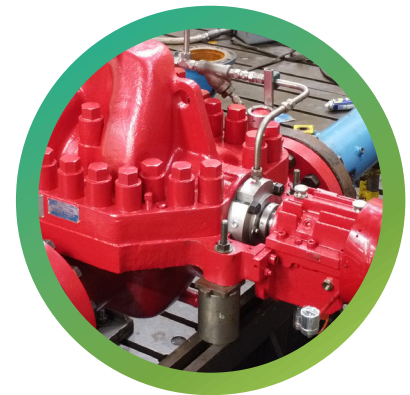


Condition Monitoring

Wireless Solutions | Remote Real-Time Alerts | Dedicated M&D Center
Subject Matter Expert Insights | Analysis, Diagnostics & Solution Development

Custom Pump Design & Manufacturing

Drop-In Replacement | Optimized Hydraulics | Obsolescence Solutions
Hydraulic, Mechanical & Metallurgical Optimization



Education & Training

Skill Development by Industry Experts | Classroom, Hands-on & Online
Interactive Maintenance Procedures for Electronic Learning (IMPEL®)
Corporate Partnerships

sustainability is in our DNA

Hydro has always been guided by our purpose of improving the world through smart and skillful engineering. The impact we've had for over 50 years continues as a commitment to continuous advancement – for our customers, our colleagues, and our communities.

The nature of Hydro's business – remanufacturing that improves on the original design – has always been rooted in sustainability. Our commitment to sustainable action is reflected in our internal practices and in the many ways we support end users to meet their own sustainability goals. Some areas of focus where Hydro can make a material impact include:

- **Reducing waste by supporting a circular economy, reducing inventory waste with just-in-time parts, and reducing the carbon footprint of our operations**
- **Saving Energy through energy audits and whole system energy optimization**
- **Increasing reliability through advanced troubleshooting, IoT solutions, and improved processes & tolerances**
- **Fostering a culture of responsibility – prioritizing safety, diversity, and responsible sourcing**



Through Hydro Energy Edge®, we partner with end users to craft solutions that align with their sustainability goals, operational boundaries, and desired return on investment.

Field data is combined with a comprehensive design and system analysis to develop a custom plan of action for efficiency gains, reliability improvement, energy reduction, and increased profitability.

an enduring culture

At Hydro, we take pride in not just meeting expectations, but in forging lasting partnerships that drive value for our customers. By staying at the forefront of technological innovation while honoring our engineering roots, we deliver the exceptional service and reliable solutions that make us trusted in the industry.



Equally important to us is our commitment to our people. **The culture instilled in Hydro by our founders, George and Rita Harris, recognizes that technical excellence begins with exceptional individuals.** Their vision created an environment where engineers work closely with technicians and industry veterans collaborate with fresh graduates to share knowledge and push boundaries together. **We firmly believe that by continuing to develop and empower our employees, we lay the foundation for sustainable growth and excellence.**

This dedication to both technical excellence and personal growth creates a unique environment where innovation thrives and careers flourish. Whether you're a customer seeking a partner who truly understands your equipment challenges or a professional looking to make your mark in industrial rotating equipment, Hydro offers the perfect blend of established expertise and forward-thinking innovation.

Together, we're not just servicing equipment – we're advancing an industry and building the future, one solution at a time.

