



HYDRAULIC CYLINDERS / SYSTEMS / SOLUTIONS

# OIL AND GAS PRODUCTS AND SERVICES

WWW.INNOVATIVEHYD.COM

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CAPABILITIES

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OFFSHORE

LRC NETWORK



With over 35 years' experience in the fluid power industry, I am very excited for the opportunity to be at the helm of Innovative Hydraulics, guiding us down a very successful path. We design and manufacture world class custom hydraulic cylinders to the highest quality standards for safe and dependable service. Our customer service is second to none when it comes to responding to our customer needs. We are very proud of our state of the art manufacturing plant in Wausau, WI. A company is only as good as its employees. At IH, we are fortunate to have highly skilled and experienced employees in all areas of the company. Our mission is to become the best globally recognized custom hydraulic cylinder manufacture known for innovative designs and outstanding performance. We will not let you down!

- **James R. Tobul Sr.**  
President

# UNRIVALED ENGINEERING

Critical applications in the oil field demand high quality and an attention to detail to prevent catastrophic failure. Our engineers have the experience to support your organization's needs with custom analytical calculations, designs for extreme environments, innovations that are focused on maximizing up time, equipment efficiency and safety while maximizing your organization's ROI.

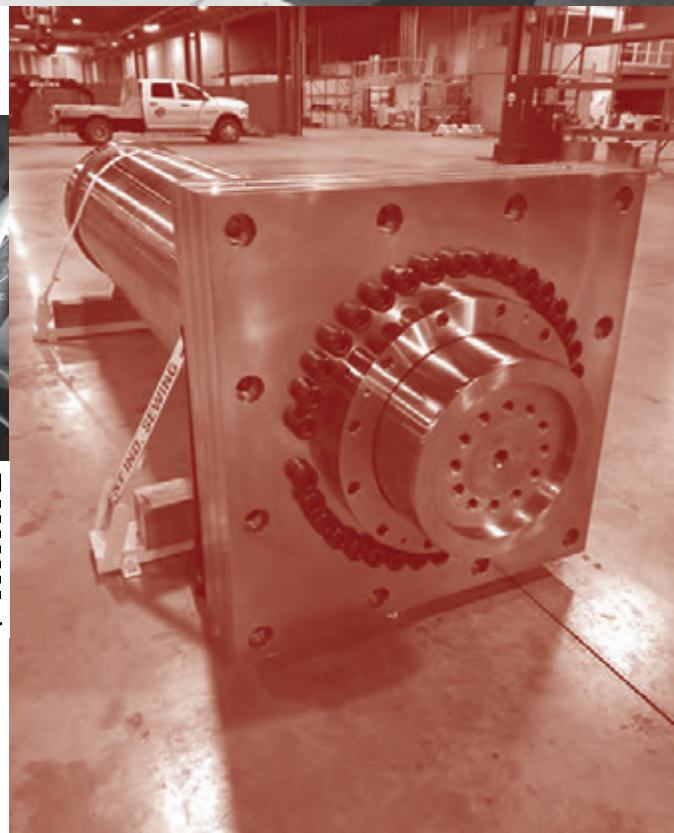
## CAPABILITIES

**UP TO:  
40" BORE  
90' STROKE  
DOUBLE ACTING  
TELESCOPIC  
10,000 PSI**

**PATENT  
PENDING  
DESIGNS**

## PRECISION MANUFACTURING

Our state of the art manufacturing facility boasts the most technologically advanced cylinder fabrication equipment in existence and is operated by the finest tradesmen the industry has to offer.

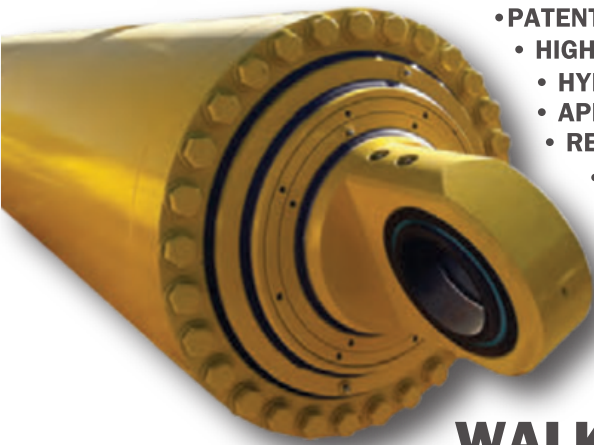


# EXPERIENCE DRIVES INNOVATION

The staff at Innovative Hydraulics pioneered mast, sub raising and steerable walking system hydraulic cylinders. We design and manufacture the highest quality, highest factor of safety, hydraulic cylinders in the oil and gas industry. Utilizing leading edge technologies in the design phase and implementing them through the manufacturing process ensures safe, efficient, dependable operation in the oil field. As land-based rigs become more and more automated, we provide hydraulic solutions not only with custom designed, fit for purpose cylinders, but complete lifting systems including HPU's and control systems. Working with IH, your organization becomes the benefactor of our vast experience in the industry and also our professional network consisting of highly competent, quality driven fluid power professionals across the country. Rely on Innovative Hydraulics to improve your organizations ROI for land-based, hydraulic capital assets.

## ONSHORE FEATURED APPLICATIONS

### MAST & SUBSTRUCTURE CYLINDERS



- PATENT PENDING, LEADING EDGE TECHNOLOGIES THAT MAXIMIZE ROI.
- HIGHEST DESIGN FACTOR OF SAFETY IN THE OIL AND GAS INDUSTRY.
- HYBRID COMBINATION BOLTED AND THREADED GLANDS FOR SERVICEABILITY.
- API 4F COMPLIANT DIRECT OEM REPLACEMENT CYLINDERS.
- RECESSED VALVES AND PORTS TO MINIMIZE DAMAGE IN THE FIELD.
- PREMIUM COMPONENTS MANUFACTURED IN THE USA.
- MANIFOLDS THAT INTEGRATE VALVES AND ELECTRICAL TRANSDUCERS.
- ADVANCED CIRCUIT DESIGN FOR HARSH ENVIRONMENTS.
- DATA BOOKS WITH TEST REPORTS AND MATERIAL CERTIFICATIONS.
- LAND-BASED RIG DEDICATED DOMESTIC SUPPORT NETWORK .
- COMPLETE HYDRAULIC CYLINDER LIFT SYSTEMS CAN BE PROVIDED.

### WALKING SYSTEM CYLINDERS

Innovative Hydraulics leads the fluid power industry in cylinder design technologies for walking system applications. Our patent pending designs have the highest factor of safety rating and provide unprecedented feedback. We design our walking system cylinders with our customers' mobilization goals in mind and can adapt them to any rig application. Together with our professional network, entire systems can be supplied, providing a turn key resource.



# OUR PROCESS ENSURES QUALITY

Each application is discussed and analyzed with the customer prior to the design process, to ensure the requirements are known and fully communicated between the two parties. We will also discuss future servicing and maintenance considerations, in order to make operation dependable and maintenance effortless. All products must pass a rigorous design review process, including product manufacturability. A full array of calculations is performed for each design.

As our name implies, we innovate each cylinder with the latest technologies to meet the application needs. Oftentimes we can suggest cylinder design improvements that will be laid by simplifying the hydraulic circuit, implementing value-added features, and decreasing product lead times and maintenance requirements.

## OFFSHORE FEATURED APPLICATION

### COMPENSATED COILED TUBING LIFT FRAME (CCTLF)

Innovative Hydraulics has the experience and resources to support the highest specification levels inherent to major offshore projects. We design in accordance to specifications outlined by the American Petroleum Institute and have met certification requirements required by the American Bureau of Shipping as well as Det Norske Veritas. Our team of engineers provide innovative solutions for major capital projects, such as CCTLFs.

Offshore applications require designs for extreme resistance against corrosion and wear from the elements. Innovative Hydraulics can meet any design requirement necessary that will stand the test of time in the harshest environments on earth.

### ADDITIONAL APPLICATIONS

- HEAVE COMPENSATION (ACTIVE & PASSIVE)
- TENSIONING SYSTEMS
- JACKING SYSTEMS
- MARINE CRANES
- SKIDDING SYSTEMS
- BLOW OUT PREVENTERS
- PIPE HANDLING
- SNUBBING UNITS

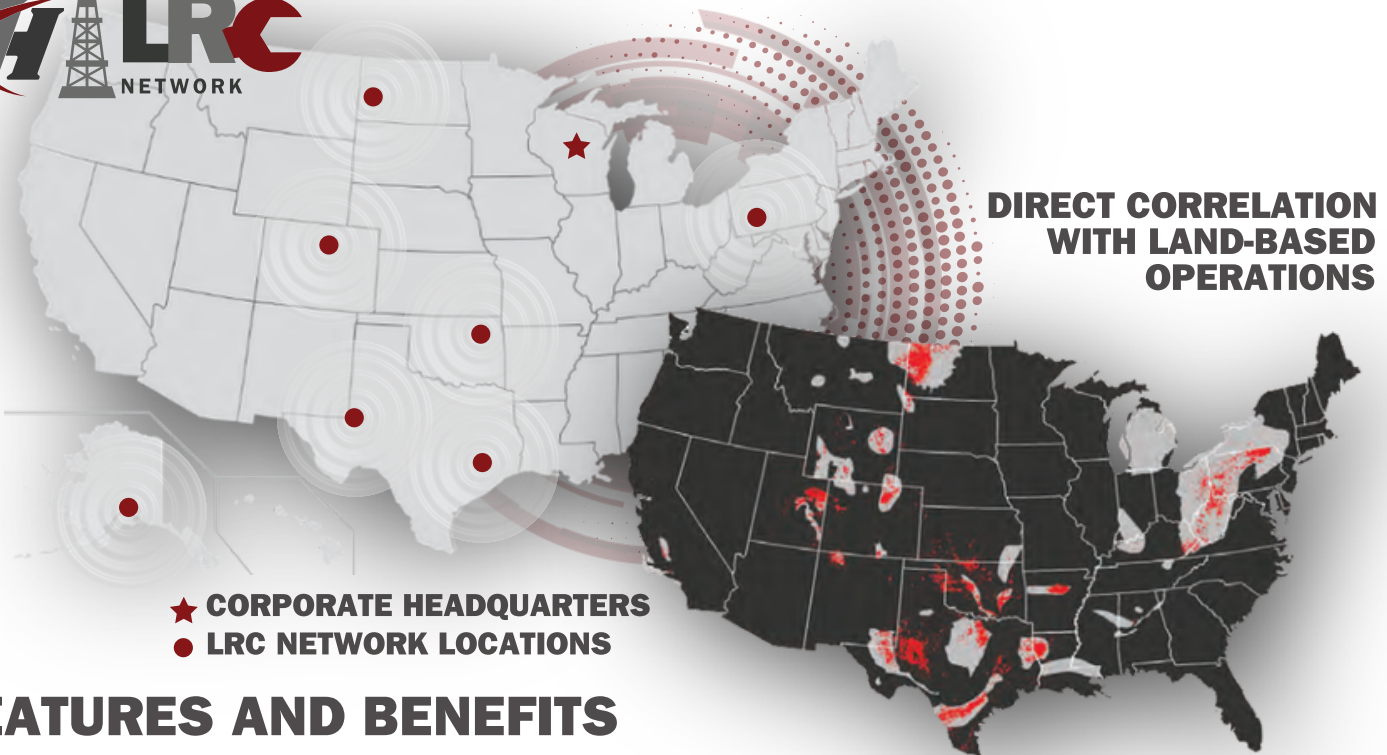


# REDUCE COSTS

MINIMIZE RIG DOWNTIME.

## BACKGROUND

At Innovative Hydraulics we strive to exceed our customers' expectations in the development of new products as well as the service and support of existing ones. This is the mentality that led us to develop a dedicated cylinder service and re-manufacturing network for oil and gas land rigs. In 2017 we traveled the country meeting with, qualifying, developing and standardizing the process for care of land rig hydraulic cylinders. United with the highest integrity, customer service driven, hydraulic service companies in the country, the Land Rig Cylinder or LRC Network was born, giving Innovative Hydraulics the power to be exactly where our customers need us to be, at the exact moment they need us to be there.



- ★ CORPORATE HEADQUARTERS
- LRC NETWORK LOCATIONS

## FEATURES AND BENEFITS

- FACILITIES IN KEY DOMESTIC OIL AND GAS LOCATIONS.
- QUICK RESPONSE, ON-SITE, ON-DEMAND SUPPORT.
- NO CONTRACTS.
- OEM SUPPORT FOR CLOVER, ORDERED MOTION & IH CYLINDERS.
- STANDARDIZED PROCESSES ACROSS THE NETWORK.
- STANDARDIZED PRICING ACROSS THE NETWORK.
- CENTRALIZED, DEDICATED P.O.C. ACROSS THE NETWORK.
- FULL ANALYSIS, REPORTED BEFORE WORK BEGINS.
- FLUID POWER ENGINEERS AT EVERY NETWORK LOCATION.
- LONG HAUL SHIPPING COSTS ELIMINATED.
- UNNECESSARY DOWNTIME ELIMINATED.
- CYLINDER INVENTORY MANAGEMENT AVAILABLE ACROSS THE NETWORK.
- MAXIMUM ROI FOR CAPITAL ASSET HYDRAULIC CYLINDERS.
- SAFETY AND DESIGN UPGRADES AVAILABLE.

# UNPARALLELED CUSTOMER SUPPORT

The Land Rig Cylinder or LRC network was built to serve the hydraulic cylinder service needs of land-based drillers in the United States and Canada. With LRC Network facilities in areas of high oil and gas land-based operational activity, the LRC network shatters traditional QCD models and maximizes ROI for land rig hydraulic cylinders. By serving our customers through a standardized network, we greatly reduce logistics costs and downtime without sacrificing quality of service or product. **Contact us today and start realizing the extensive features and benefits of this program.**



# MAXIMIZE ROI



# 715-803-2597

The Power of the LRC Network begins with its providers. Working together, we enhance each other's capabilities, by leveraging the collective talents and experiences of one another. The result is unparalleled support and confidence knowing that whatever problems our customers face, we can provide solutions at the most affordable costs in the industry. **For a complete list of authorized providers and locations, contact us today.**

# CONTACT US

SOLUTIONS ARE A CALL OR CLICK AWAY.



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