

P-Quip[®] Fluid End Mud Pump System

Go Longer

Operators and drilling contractors want to know that they are using the most advanced drilling technology to help them be in the hole longer, extend drilling performance, and increase the life of their equipment.

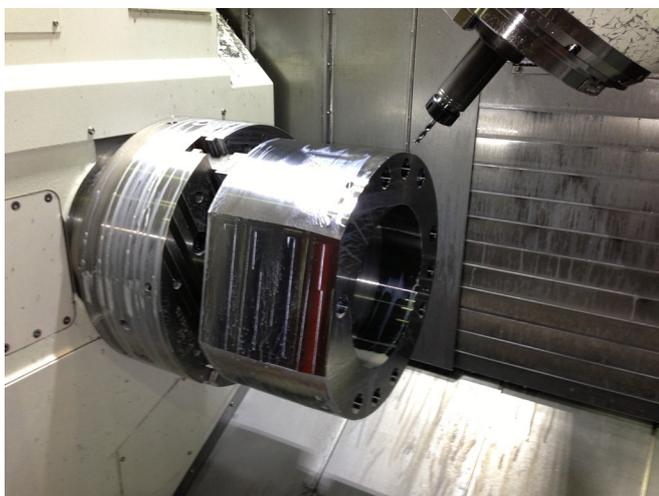
Drilling consumables, such as mud pump systems and their individual components, are not always a top priority but can drastically reduce downtime, overall cost of ownership and HSE risks.

By combining all of Forum Energy Technologies' high-quality components into the P-Quip® mud pump system, customers can realize the benefits of having a single-source provider who stands behind its advanced technology, helping achieve short- and long-term goals and drilling objectives.

The P-Quip fluid end mud pump system includes reliable and robust:

- Fluid end modules
- Discharge and suction manifolds
- Pulsation dampeners
- Fluid end expendables
- High-performance liner retention, valve cover, suction strainers and rod systems

All components within the system are built using Forum's robust manufacturing and QA/QC process, which helps deliver increased equipment longevity and optimal performance in all types of drilling environments and pressures.



Reduced Downtime and Improved Mud Pump Efficiency

Operators can drill longer between maintenance cycles, thanks to the P-Quip system's patented retention solution which utilizes proven spring technology with superior designed components. The life of fluid end parts is extended because liner and valve plug movement, along with rod system wear, is virtually eliminated. The easy-to-install system reduces HSE risks, maintenance downtime costs by up to 75%, change-out times and operating expenses. It has been used on more than 1,000 rigs worldwide and by nearly every major drilling contractor.

The pony rod seal system utilizes patented seals that can last up to four times longer than competitors. Proprietary polymer, with four sealing surfaces, provides a dependable seal, minimizing fluid contamination into the power end that can lead to costly power end repairs if leakage occurs. Non-reversible shoulders on seals help ensure mistake-proof installation.

Lowest Cost of Ownership

Over the past 20 years, Forum has collected information from rigs in even the most severe environments where system components have been run. This data shows that the P-Quip system offers the lowest cost of ownership in the industry. The investment payback time for retention systems is less than six months and customers have realized an annual cash flow increase of over \$44,000 per rig.

Extended module life is achieved through Forum's use of specialized machining and heat treat processes, resulting in improved grain flow and deeper case hardening in critical areas and less opportunity for cracking.

Reduced HSE Risks

One of Forum Energy Technologies' core values is **no one gets hurt**, and that extends to our customers. The P-Quip system reduces, if not eliminates, the use of manual force during maintenance and is inherently safe. The simplicity and ease of use, along with the reduction in time to replace high-use components, reduces HSE risks.

Typical injuries that can happen utilizing conventional retention and rod systems include overexertion. The average direct and indirect costs for an overexertion claim is \$115,000 plus potential loss of contract and future contracts.



Forum's dedicated resources and empowered employees will help ensure that the right P-Quip fluid end mud pump system is safely designed, manufactured and delivered to help you go longer, while minimizing downtime and risks. Visit us at www.f-e-t.com/pquip or your local representative for more information.

Our goal is to become the leading provider of mission critical oilfield products and related services in terms of customer satisfaction, safety and financial performance.

Our experienced management team and employees are dedicated to solving our customers' problems. We invest in long term relationships and cooperate on product development with our clients, we consider them our partners.

OUR CORE VALUES

No one gets hurt: The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

Integrity: In everything we do, in every interaction, both internally and externally, we strive to operate with the upmost integrity and mutual respect.

Customer focused: Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good place to work: We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.



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