

## Quadraplex “Quatro” 7,500 PSI Drilling Mud Pumps

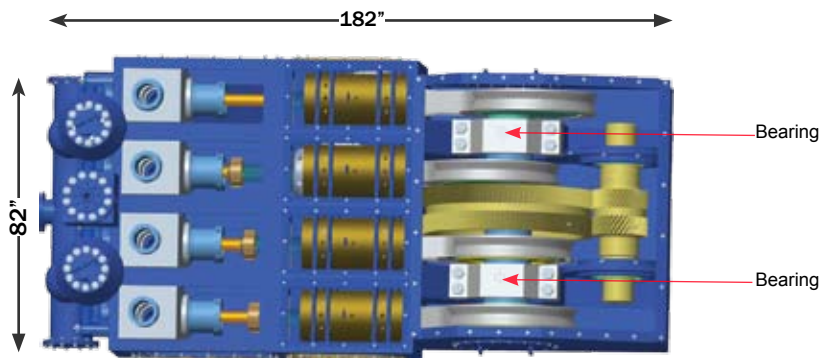
The White Star “Quatro” pump is designed to outlast and outperform any triplex mud pump on the market today. With its innovative design and compact construction along with its quick change fluid modules, superior flow and pressure ratings and low discharge pulse, the “Quatro” is raising the bar on mud pump technology, performance and value.

### ■ “Quatro” overview

- New “QuatroX” with a 1597 GPM flow rate
- Standard 7500 PSI rating
- 40,000 lbs for up to 1600 Hp mud pump models
- Easy fluid module replacement in the field
- Only 82” wide and easily fits on standard width trailer
- “Across the range” interchangeable parts
- Smoothest discharge of any mud pump available today
- Almost zero noise and vibration-free telemetry

### ■ Revolutionary fluid end module

The “Quatro’s” fluid modules sitting inside the frame are in a class of their own. The innovative seal assemblies and revolutionary module mounting system, with only six bolts to remove, reduces module changes from hours to just minutes . . . it’s all about up time!



### ■ Quality construction

The “Quatro” is exceptionally compact and weighs only 40,000 lbs. Power is transmitted to the pump through its innovative rear mounted pinion shaft and integral drive case (poly chain or roller chain) allowing for a unitized width of only 82 inches.

The “Quatro” boasts a quality workmanship that is second to none, with all components manufactured from the highest grade materials. All parts and components have mill cert traceability and go through a rigorous two-step quality assurance and quality control screening.

Available in the following models:  
1000 HP | 1300 HP | 1600 HP | 2200 HP



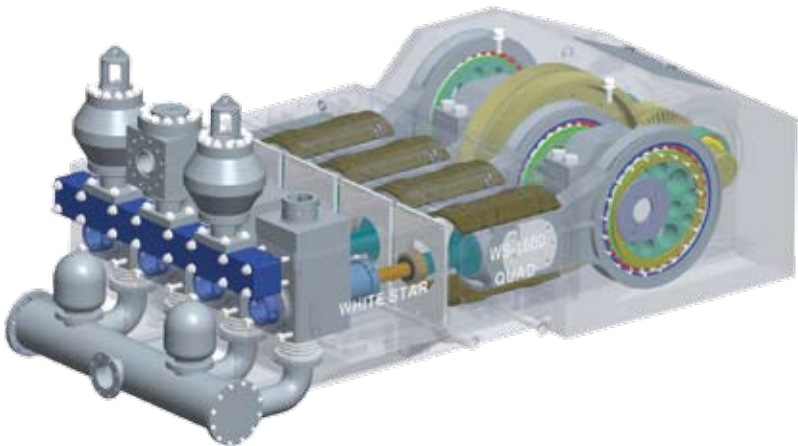
### ■ Innovative design

The transition from a “triplex” to “quadraplex” naturally balances the pump. The fourth cylinder creates improved crankshaft timing, which means a smoother running pump with less vibration. Modern bearing placement between cylinders reduces load on the frame and the crankshaft, improving bearing, crankshaft and gear life.

### ■ Fully assembled crankshaft

Fully machined and assembled crankshaft. No castings or welding. Shortest distance between cylinder and bearing of any mud pump. Virtually eliminates crankshaft flex.

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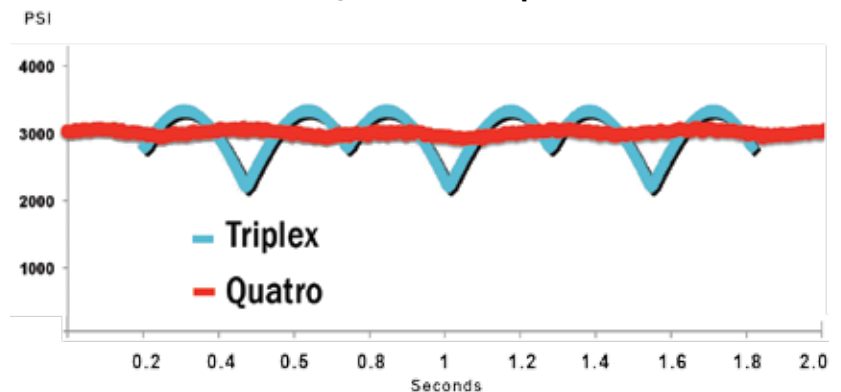
■ **Superior flow rates**

The “Quatro” has an industry leading flow rate of 1,597 GPM, double that of triplex pumps.

■ **Incredibly smooth discharge**

The “Quatro’s” simple but revolutionary design translates into a mechanically efficient, well balanced and incredibly smooth running pump. The “Quatro’s” design symmetry allows for near perfect fluid balance with one suction desurger and pulsation dampener per pair of cylinders. It is this naturally stable power and fluid balance that delivers a near-zero discharge pulse, giving the “Quatro” the smoothest fluid flow of any drilling mud pump in the industry today!

**Pump Pulsation Comparison  
Quatro vs Triplex**



Quadrplex actual real-time data ref test Houston May 30th, 2009

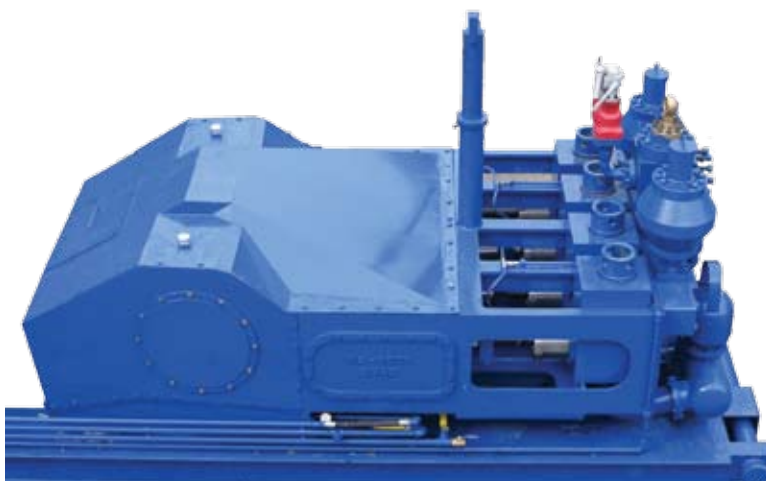
■ **Real time monitoring that reduces downtime and costs**

Designed to detect and warn the operator of problems and maintenance issues in real-time. The WSP data system allows the operator to closely monitor all aspects of the mud pump system to alert the operator of issues before they become critical failures.

■ **Warranty**

- All pumps receive full field commissioning.
- 3 year limited warranty
- Crankshaft carries 10 year limited warranty

View videos, performance charts and much more at [www.whitestarpump.com](http://www.whitestarpump.com)



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