

**BlackMax™**  
*Drilling Motors*



**NQL** Energy  
**NQL** Services™

*Taking Technology Downhole*

For more than a decade, the BlackMax Drilling Motor has proven to be one of the leading positive displacement motors (PDMs) in the industry. Our unique design features a sealed, oil-lubricated bearing assembly that ensures a contaminant-free bearing stack for greater reliability and power transmission. This translates to increased efficiency and longer motor life over conventional mud-lubricated PDMs.

### BlackMax Drilling Motors

NQL Energy Services manufactures all bearing assemblies, driveshafts, and adjustable housings with the highest level of quality assurance. We test and retest all new and rebuilt equipment before it leaves our facility, providing our customers with the most reliable and highest performance drilling motors.



*Our adjustable housing assemblies are designed and manufactured for the highest durability and ultimate in functionality.*

### Advanced Technology

BlackMax Drilling Motors are designed for ultimate performance in high flow, high torque, and high pressure drop across the bit environment. Our state-of-the-art oil lubricated bearing assembly provides superior reliability in a fully balanced sealing system. Advanced fluid flow analysis software has allowed the development of a new motor concept with less pressure drop across the tool, thus maximizing the hydraulic power available and creating less turbulent fluid flow throughout the tool. This also reduces vibration and erosive wear of the internal components and extends the life of the tool.

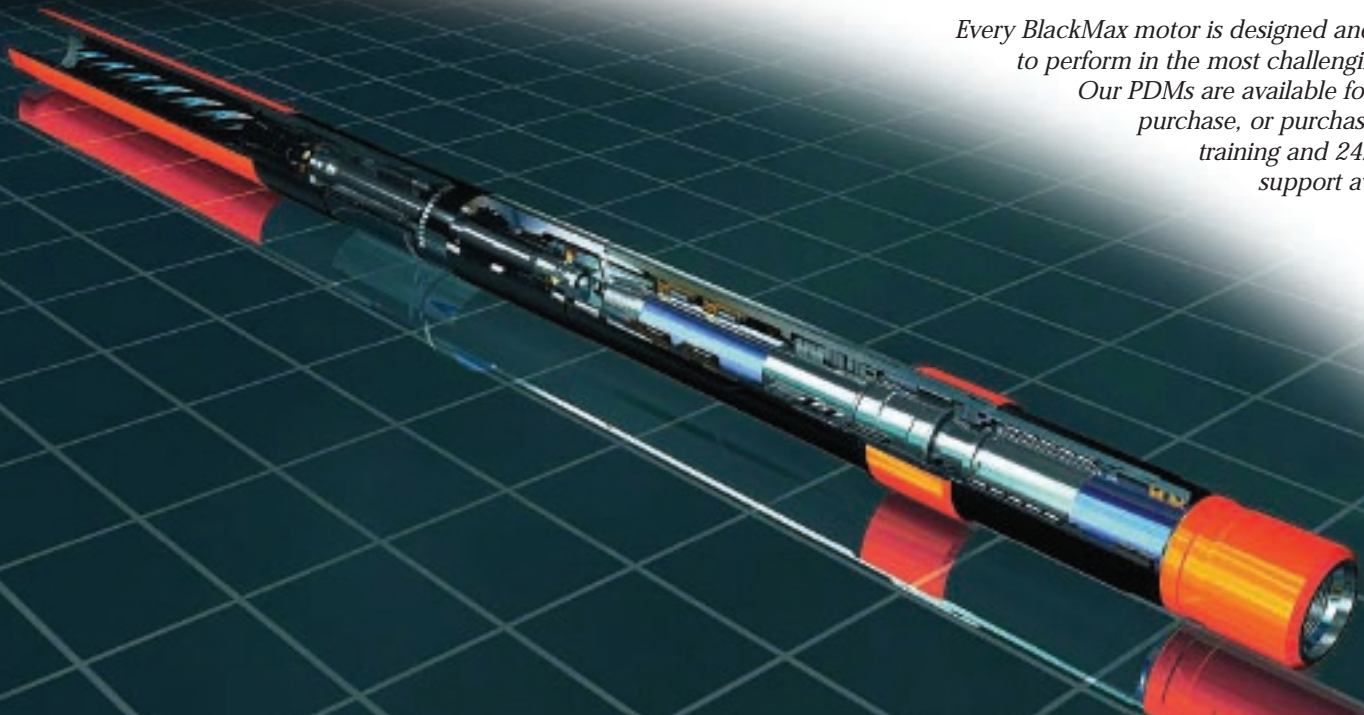
A larger torque handling capacity was obtained as a result of the development of larger internal components and connections. These features give BlackMax motors the ability to accommodate, with a comfortable factor of safety, the newest power sections now available on the market.



*Our testing procedures and facilities provide you with the highest quality and most reliable drilling motors in the industry.*

*Every BlackMax motor is designed and manufactured to perform in the most challenging conditions.*

*Our PDMs are available for rent, lease to purchase, or purchase with qualified training and 24/7 technical support available.*





At NQL Energy Services, our focus is taking technology downhole. We are committed to providing BHA solutions that are rugged and reliable, from design through repair and maintenance. Combined with our responsive customer service and support, this translates to increased BHA performance and reduced drilling costs for our clients.



*BlackMax motors are ideal for directional and horizontal drilling applications.*

#### **BlackMax Applications**

BlackMax offers the widest selection of downhole drilling motors in the industry with more than 80 configurations of PDMs, ranging from 1 11/16 inch O.D. to 11 1/4 inch O.D.

Our versatile range of torque and RPM capabilities make the BlackMax drilling motor ideal for:

- Directional, horizontal, straight hole, and short radius drilling
- Under-balanced, air, nitrogen, and coil tubing drilling
- River crossings, trenchless construction and utility boring
- Methane release drilling and mining, pipeline and environmental applications

#### **Features / Benefits**

BlackMax Drilling Motors set the standard for reliable downhole tools by eliminating risks through our extensive quality control and precision testing – long before our products get to our valued customers. Our highly skilled personnel's commitment to precision analysis, in-depth understanding and documentation of the capabilities of every BlackMax tool ensures unsurpassed field performance.

#### **Manufacturing / Service**

NQL Energy Services operates three manufacturing facilities worldwide producing high quality machined components for internal use and third party customers. Our facility in Nisku, Alberta comprises approximately 60,000 square feet of space and contains over 20 machines capable of producing approximately 90 percent of the components utilized in NQL's downhole tools.



#### **NQL Commitment**

As a worldwide leader in downhole drilling tools, NQL Energy Services is dedicated to serving the oil & gas industry with quality equipment, reliable service, and the most experienced and knowledgeable people in the business.

Our commitment to leading edge technology, precision manufacturing, and rigorous quality assurance allows us to focus on providing the most cost efficient tools available, around the clock and all over the globe.

*BlackMax offers one of the largest inventories and widest selection of PDMs in the business.*

**BlackMax**<sup>™</sup>  
Drilling Motors



*Taking Technology Downhole*

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