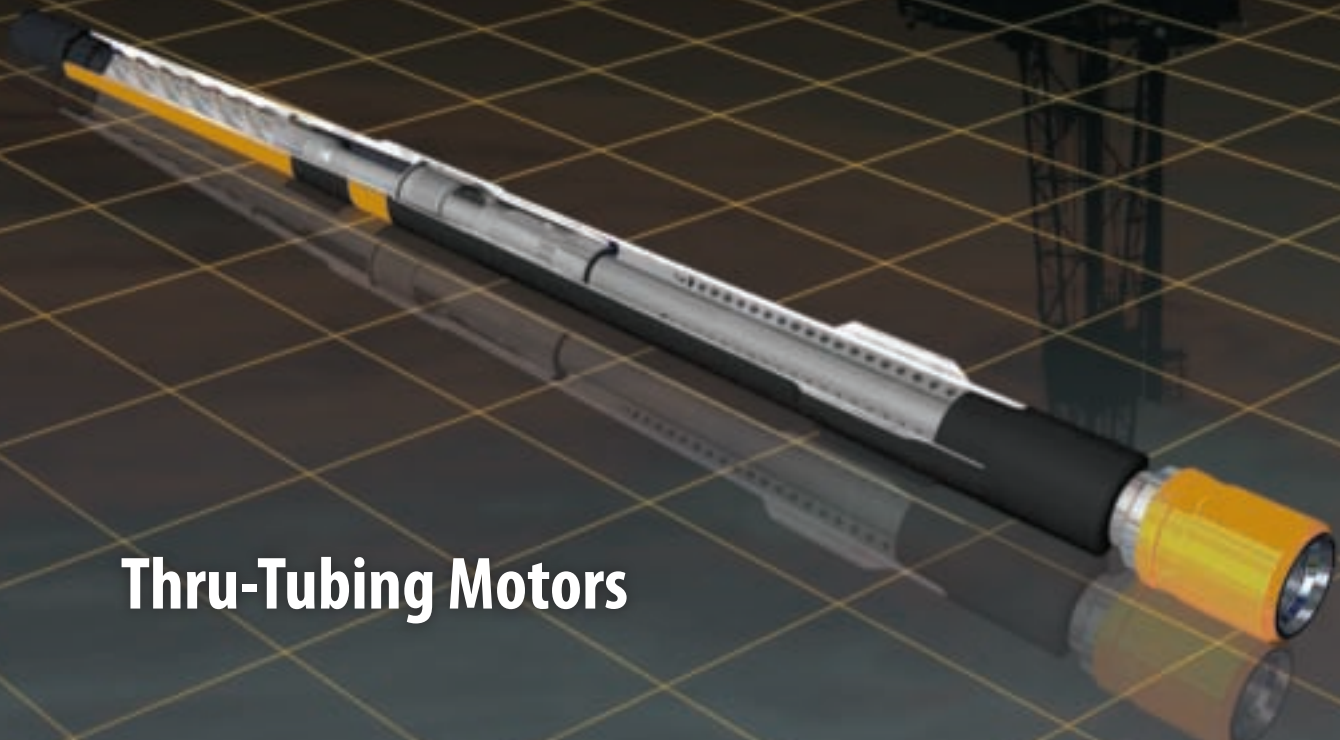




COBRA
DOWNHOLE MOTORS
A GENCO Energy Services Company



Thru-Tubing Motors





Our Company

Cobra Downhole Motors combines new material technology and product features with a customer driven approach. We add value to our customers' drilling programs by giving them "fit for purpose" motor designs and providing robust reliability at a cost-effective price. We work closely with our customers to understand their specific needs. We offer rental, lease to purchase or purchase options with qualified training and 24/7 technical support.

Our new 17,000 square foot manufacturing and service facility allows us to be more responsive to our customers' needs, while maintaining ISO quality standards and sufficient inventories. Our service and maintenance personnel are some of the most well-trained professionals in the industry and we always keep the customer first.

Our Motors

Cobra offers a complete line of downhole mud motors which are designed to provide maximum performance, resulting in reduced drilling time which leads to cost savings for any application. Engineered for durability and longevity, Cobra drilling motors are designed and manufactured to the most stringent, specific tolerances and are made of the highest quality materials.

Our field-proven power section designs provide the optimal combination of speed and torque delivered directly to the bit, which produces

unsurpassed performance. Cobra has the right power section to meet the most demanding environments. Speed and torque delivered from the power section is transferred via a high strength flex-coupling transmission for maximum torque output and reliability. This is the highest rated transmission on the market.

The Cobra downhole motor is designed with the latest technology, utilizing "clean sheet" engineering. No legacy product lines or antiquated technology is used. Our customers and their specific applications dictate our motor designs.



Some of our unique features and benefits include:

- State-of-the-art design and materials technology
- Both Premium PDC diamond and angular contact bi-directional Thrust Bearing assemblies
- Bearing Assembly that is radially supported over its entire length
- Special Tungsten Carbide Flow Restrictors - Highly resistant to wear, and inherently stronger than competitive products
- Increased reliability - No Belleville Springs: our motors will have preload on the diamond bearings and angular contact to avoid rotation as seen in other bearing assemblies
- Bearing packs that can operate in high-temperature applications, unlike oil sealed assemblies
- Rotor Catch safety device incorporated as standard

Cobra Downhole Motors Thru-Tubing Motors Technical Specifications

Motor Type Dia (in)	Model	Tool Length Fixed (Ft.)	Power Section Lobes/Stages	Torque Ft. Lbs.	Speed RPM	Rev's Per Gallon	Flow Rate GPM
2-3/8"	Cobra DX STD (Hard Rubber)	8.0	5/6 - 4.0	320	287-550	2.3	40-80
2-7/8"	Cobra DX (Even -Wall)	10.5	5/6 - 3.5	644	200-400	3.3	60-120
2-7/8"	Cobra DX STD (Hard Rubber)	11.0	5/6 - 3.5	422	186-390	3.1	60-120
2-7/8"	Cobra DX STD (Hard Rubber)	13.0	5/6 - 4.7	646	188-470	3.76	50-125
3-1/8"	Cobra DX STD (Hard Rubber)	12.0	5/6 - 3.5	721	225-395	2.25	100-175
3-3/4"	Cobra DX Even Wall	12.0	4/5 - 2.2	1000	131-295	1.63	131-295

The information provided above is for typical common tool sizes and configurations. Additional tool sizes and variations are available on request.



Technology - Proprietary Flex Coupling

- All downhole motors employ a flexible joint to transmit the eccentric motion of the progressing cavity motor to the bit.
- Since the flex joint is the highest point of failure in downhole motors, Cobra's flex-joint strength is up to 3X greater than conventional transmission motor technology.
- The proprietary Flex Coupling is designed to be a serviceable component for extended life and reduced operating costs.

Bearing Assembly

The Cobra bearing assembly is a flow-through bearing design allowing for maximum bit differential without the potential of compromising any seals. To provide the maximum wear resistance and durability, Cobra offers options, including a premium PDC diamond thrust bearing for challenging applications and an angular contact bi-directional thrust bearing stack for more conventional applications. Both designs incorporate proprietary technology for the

most robust motor bearing assemblies in the thru-tubing industry. In addition, Cobra's radial bearings are manufactured with Tungsten Carbide technology, allowing them to tolerate very high side loads and providing optimum wear resistance. They are also easy to service, making them very beneficial in remote areas.

The bearing stack is designed to operate in the most adverse conditions to withstand:

- Extreme drilling conditions
- High bottom-hole temperatures
- High operating torques
- High weight-on-bit loads
- Higher operating temperatures
- Higher radial load capacity

For more information on Cobra Downhole Motors' revolutionary "fit for purpose" motor designs, please call us at 281 587-0005 or visit our web site at www.cobradownhole.com. We look forward to providing you with the most reliable and cost-effective motors in the industry.



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