

Our thru-tubing motors deliver performance right where you need it. Downhole.

Cobra Downhole Motors' new generation of small motors are specifically designed for thru-tubing completion and production applications. Cobra offers conventional and even wall power sections options for extreme drilling applications. They're available in sizes from 1-1/16 inch OD to 3-3/4 inch OD. We combine new material technology and innovative product features with a customer driven approach.

Our service and maintenance personnel are supported by a senior staff with over 50 years of experience in downhole motors.

Cobra Downhole Motors manufactures all bearing assemblies and driveshafts to the highest standards of quality. We test and re-test all of our components so that you can be assured of the most durable and highest-performing motors in the industry.

Cobra Downhole Motors assigns and maintains serial numbers for every major component it builds. Traceability is documented and maintained at every step in the manufacturing and service process. Before we deliver a motor, every part is thoroughly inspected to ensure that it meets our precise specifications.

In addition, we can provide rental, lease to purchase or purchase options with qualified training and 24/7 technical support.

Cobra Motors

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.

The Cobra downhole motor is designed with the latest technology, utilizing "clean sheet" engineering. Our customers and their specific applications dictate our motor designs.

Unique features and benefits of Cobra thru-tubing motors include:

- State-of-the-art design and materials technology
- 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 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
- Mandral Catch safety device



COBRA
DOWNHOLE MOTORS
A GENCO Energy Services Company

Delivering Downhole Performance

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THRU-TUBING MOTOR SPECIFICATIONS SUMMARY TABLE

Motor Size	Model	Power Section Lobe & Stages		Flow (gpm)		Motor RPMs		Max HP	Max Torque (ft.-lbs.)	Displacement (revs per gallon)	Bit Size
				Min.	Max.	Min.	Max.				
1 11/16"	DX Hard Rubber	5-6	5.0	25	55	323	580	19	188	12.9	1-7/8" – 2-3/4"
1 11/16"	DX Even Wall	5-6	2.3	20	40	216	433	11	131	10.8	1-7/8" – 2-3/4"
2 1/8"	DX Hard Rubber	5-6	6.0	40	50	250	640	53	320	12.2	2-13/16" – 3-1/4"
2 1/8"	DX Even Wall	5-6	6.0	20	50	270	680	33	256	13.6	2-13/16" – 3-1/4"
2 3/8"	DX Hard Rubber	7-8	4.0	40	100	220	540	69	500	5.4	2-13/16" – 3-1/4"
2 7/8"	DX Hard Rubber	5-6	3.5	60	120	125	400	35	472	3.3	3-1/4" – 4"
2 7/8"	DX Hard Rubber	5-6	4.7	50	125	110	470	24	646	3.7	3-1/4" – 4"
2 7/8"	DX Even Wall	5-6	3.5	60	120	200	400	49	637	3.3	3-1/4" – 4"
3 1/8"	DX Hard Rubber	7-8	3.0	80	140	135	240	41	990	1.7	4" – 5-1/2"
3 1/8"	DX Hard Rubber	5-6	3.5	100	175	230	390	107	1070	2.6	4" – 5-1/2"
3 1/8"	DX Even Wall	7-8	2.5	110	168	253	386	105	1960	2.3	4" – 5-1/2"
3 3/4"	DX Hard Rubber	7-8	2.3	80	160	53	123	37	1670	.77	4-1/2" – 5-7/8"
3 3/4"	DX Hard Rubber	7-8	6.7	80	160	92	260	114	2460	1.6	4-1/2" – 5-7/8"
3 3/4"	DX Even Wall	4-5	4.3	80	160	129	290	109	1978	1.6	4-1/2" – 5-7/8"

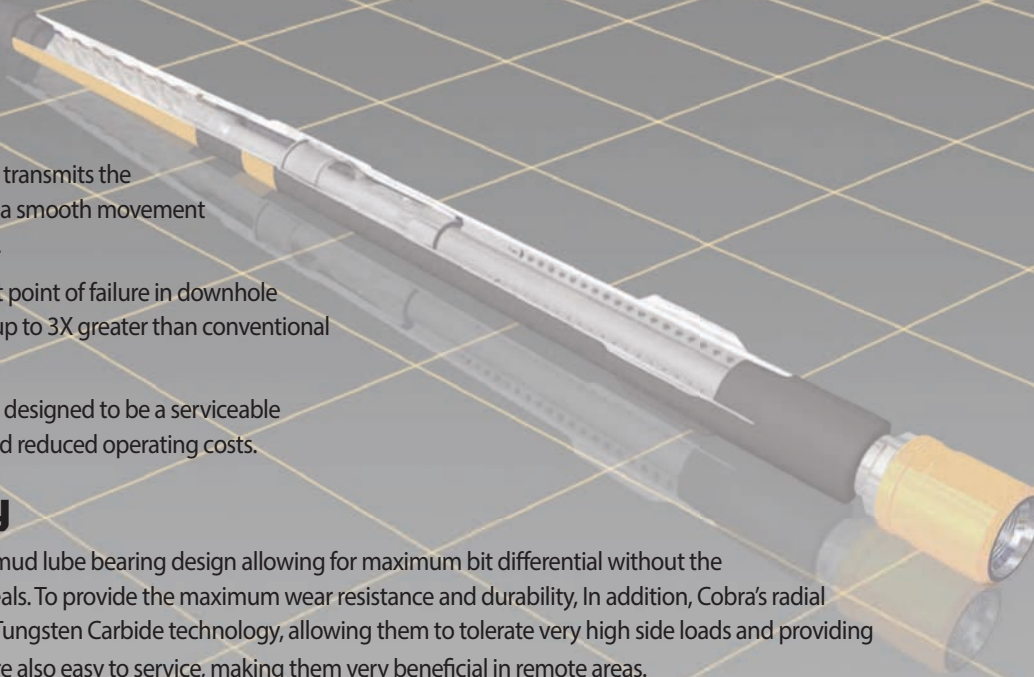
This information provided above is for typical common tool sizes and configurations. Additional tool sizes and variations are available on request.

Power Sections and Flex-Coupling Transmissions

- The Flex-Coupling Transmission transmits the eccentric motion of the rotor to a smooth movement required by the bearing section.
- Since the flex joint is the highest point of failure in downhole motors, Cobra's flex strength is up to 3X greater than conventional transmission motor coupling.
- 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 mud lube bearing design allowing for maximum bit differential without the potential of compromising any seals. To provide the maximum wear resistance and durability, 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.



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