

PRODUCT SPEC SHEET

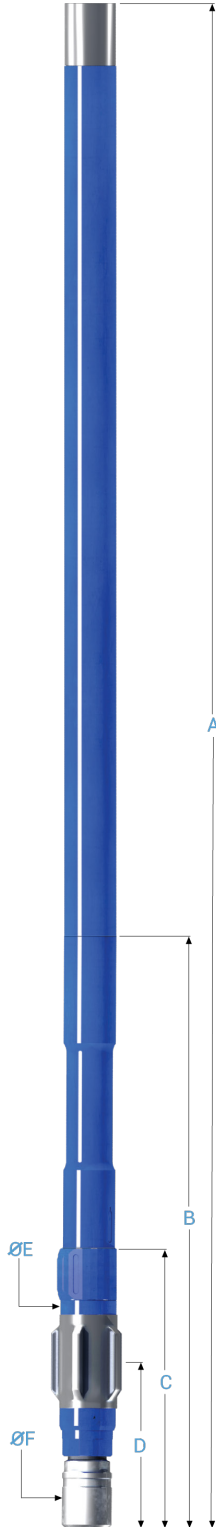
TITAN TD SHORTER BIT-TO-BEND DRILLING MOTOR

Scientific Drilling's Titan TD motor series is a shorter bit to bend solution designed as a one run system to deliver optimal drilling performance from kick-off to TD. The motor is fully rotational in any section of the well and engineered to achieve higher expected build rates with lower bend angles.

The ultra-high torque driveline, "Turbo Drive," provides a rugged solution for a wide range of harsh drilling environments. This feature enables greater Rates of Penetration (ROP), ultimately increasing drilling efficiency.

DELIVERING THE ULTIMATE VALUE

- Extended motor life in harsh drilling environments
- Enhanced WOB capacity for increased ROP
- Rugged driveline designed for ultra-high torque power sections, increasing drilling efficiency
- Full rotational capacity in any section of the well



TARGET APPLICATIONS

- Aggressive Dog Legs
- One Run Operations
- Laminated Formations

| TECHNICAL SPECIFICATIONS | |
|---------------------------------|-------------------------|
| GENERAL SPECIFICATIONS | |
| Tool Size | 6 1/2" |
| Dimension A | 29' 4" |
| Dimension B | 91" |
| Dimension C | 30" |
| Dimension D | 18 1/4" |
| Dimension E | 6 1/2" |
| Dimension F | 6 1/4" |
| Hole Size | 8 1/4" - 9 7/8" |
| Bit Box | 4 1/2 Reg |
| Maximum W.O.B | 85,000 lbs @ 150 R.P.M. |
| Maximum W.O.B | 40,000 lbs @ 320 R.P.M. |
| Maximum Pull While Back Reaming | 58,000 lbs @ 150 R.P.M. |
| Maximum Pull While Back Reaming | 27,000 lbs @ 320 R.P.M. |
| Maximum Overpull to Re-run | 105,000 lbs |
| Absolute Overpull | 210,000 lbs |
| Maximum Torque Mandrel | 33,500 ft-lbs |
| Stabilizer Torque | 10,000 ft-lbs |

** Specifications are subject to change without notice.