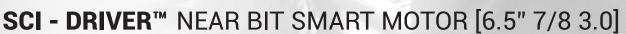
PRODUCT SPEC SHEET



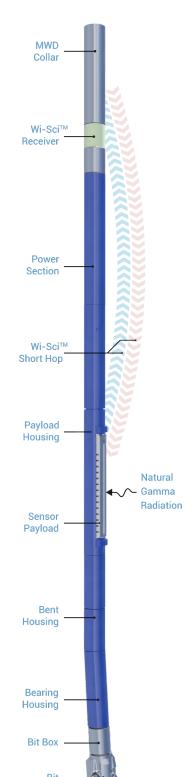
Scientific Drilling's Sci- Driver™ Near Bit Smart Motor is a positive displacement mud motor housing an electronic payload that provides azimuthal gamma ray, inclination, RPM and vibration measurements close to the bit, making it the ultimate geosteering solution.

DELIVERING THE ULTIMATE VALUE

- Standard PDM mud motor with electronic payload
- Innovative electronic payload, delivering high-accuracy azimuthal gamma ray and continuous inclination, RPM and vibration measurements 9 ft (2.74 m) from the bit
- Data transmitted to surface real-time via
 Wi-Sci™ Short Hop and SDI's Falcon MWD

TARGET APPLICATIONS

- Geosteering
- Tight Trajectory Control
- Complex SAGD Applications
- Early Payzone Detection
- Kickoff Point Identification
- Casing and Coring Point Selection
- Early Monitoring of Motor Yield



TECHNICAL SPECIFICATIONS		
GENERAL SPECIFICATIONS		
Length	35.5 ft (10.82 m)	
Max Tool O.D.	7.2 in (182.68 mm)	
Recommended Hole Sizes	7 ⁷ /8 - 8 ³ /4 in (200 - 222 mm)	
Max Bend Angle	2°	

BEARING SECTION		
Bit to Bend Length	62 in (1.57 m)	
Bit Box Connection	4 1/2 in API Reg. Box	
Max WOB	50,000 lbs (22,241 DaN)	
LCM Capability	40 lb nut plug	

POWER SECTION		
Lobe Configuration	7/8	
Stages	3.0	
Max Diff Pressure	680 psi (4,650 kPa)	
Stall Diff Pressure	1,010 psi (6,980 kPa)	
Torque at Max Diff Pressure	6,280 ft-lbs (8,510 Nm)	
Stall Torque	9,420 ft-lbs (12,770 Nm)	
Flow Range	300-600 gal/min (1,140-2,270 L/min)	
Speed Range	86 - 180 RPM	
Speed Ratio	0.29 rev/gal (0.08 rev/L)	
Torque Slope	9.3 ft-lb/psi (1.83 Nm/kPa)	

MEASUREMENT SPECIFICATIONS		
Bit to Sensor Distance	10.17 ft (3.1m)	
Detector Type	Nal Scintillation Crystal	
Gamma Range	0-1,000 AAPI	
Azimuthal Gamma Bins	2	
Inclination Accuracy	±0.15° all angles	
Telemetry Update Rate	8 - 14 seconds	

Specifications are subject to change without notice.

Updated June 2016

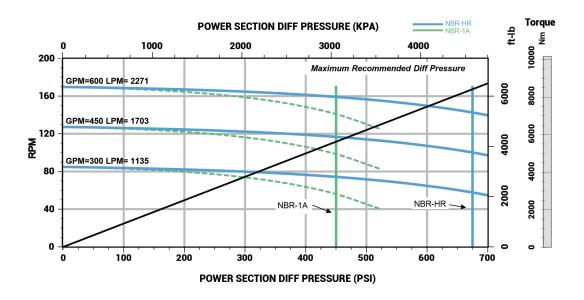
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SCI - DRIVER™ NEAR BIT SMART MOTOR [6.5" 7/8 3.0]

SCI - DRIVER™ 6.5" 7/8 3.0 Power Curve



SCI - DRIVER™ 6.5" Estimated Rotation Limits in 7 7/8" Wellbore

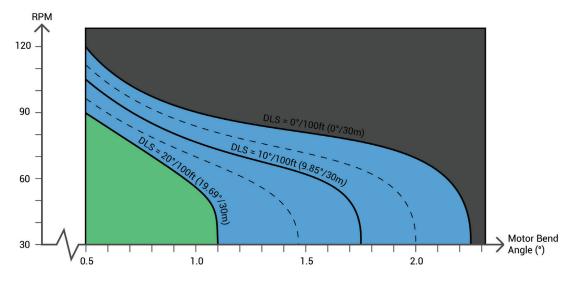


Chart data is based on bending-moment limitations of the bent housing. The primary criteria used to establish these limit lines is the bending moment that results in the onset of shoulder separation at the bend. The Plot is representative of sustainable operation in a specific wellbore curvature (DLS). The chart only applies to slick motors and does not, in any way, attempt to predict build/drop tendencies of the BHA. DLS lines correspond to the wellbore curvature that the motor is currently in. If a particular bend assembly is in a curve that, according to the chart, prevents rotation then slowly rotate (30 RPM) until the motor has effectively drilled itself out of the curve. Prolonged rotation in a curve (>10 minutes) or sustained rotation rates above 30 RPM will accelerate fatigue in the motor and are considered out-of-spec operations. Configurations with stabilizers and special equipment need to be looked at on an individual basis.

Updated July 2015

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