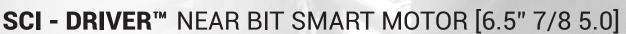
PRODUCT SPEC SHEET



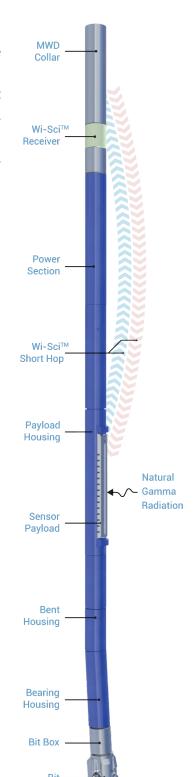
Scientific Drilling's Sci- Driver™ Near Bit Smart Motor is a positive displacement mud motor housing an electronic payload that provides azimuthal gamma ray, inclination, RPM and vibration measurements close to the bit, making it the ultimate geosteering solution.

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



T	ECHNIC	CAL	SPEC	CIFIC	CATIC	DNS	
					-101		

GENERAL SPECIFICATIONS				
Length	41.25 ft (12.5 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°			
Weight of Motor	3,000 lbs			
Rotational Rate	Refer to charts on back			

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	5.0			
Max Diff Pressure	1,130 psi (7,760 kPa)			
Stall Diff Pressure	1,690 psi (11,630 kPa)			
Torque at Max Diff Pressure	10,460 ft-lbs (14,190 Nm)			
Stall Torque	15,690 ft-lbs (21,280 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 L)			
Torque Slope	9.30 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.

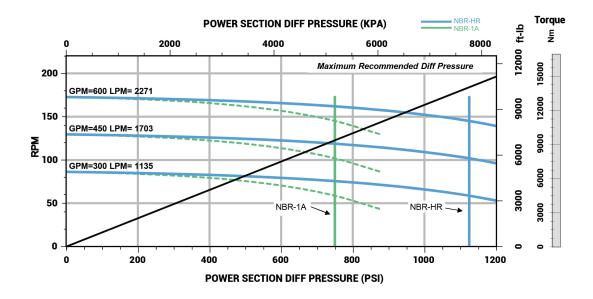
Updated May 2016
Copyright © 2016 Scientific Drilling International





SCI - DRIVER™ NEAR BIT SMART MOTOR [6.5" 7/8 5.0]

SCI - DRIVER™ 6.5" 7/8 5.0 Power Curve



SCI - DRIVER™ 6.5" Estimated Rotation Limits in 8 1/2" Wellbore

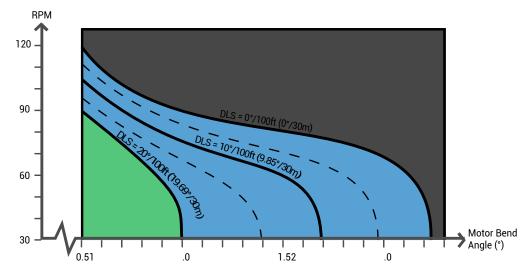


Chart data is based on bending-moment limitations of the bent housing. The primary criteria used to establish these limit lines is the bending moment that results in the onset of shoulder separation at the bend. The Plot is representative of sustainable operation in a specific wellbore curvature (DLS). 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 May 2016
Copyright © 2016 Scientific Drilling International

