

Steady Torque™

TORSIONAL STICK SLIP MITIGATION



Steady Torque from Scout Downhole mitigates the effects of stick-slip by converting excess torque into axial movement, reducing weight-on-bit as needed.

The torque conversion is done through a torsional absorber component utilizing a helical spline. As torque increases the helical spline causes the Steady Torque to decrease in length. This temporary shortening of the tool reduces weight-on-bit to decrease bit cutting depth. As torque decreases the Steady Torque extends in length to maintain weight-on-bit. The axial extension and compression are controlled by a stack of high strength disc springs.

As the Steady Torque maintains a constant weight -on-bit it decreases stick-slip thereby increasing the rate of penetration by keeping the bit rotating for a higher percentage of time.

The torsional and axial vibrations absorbed by the Steady Torque is beneficial to the life of the bit and other downhole components.

If jarring is required, an extension load of approximately 40,000 lbs (7-1/4" tool), and 35,000 lbs (5-1/4" tool) can be applied to shoulder the tool for effective jarring action with no damage to the Steady Torque.

The Steady Torque is sprung in both extension and compression – this allows it to function with a minimal amount of torque or axial loading.

Benefits:

- Torsional absorption
- Higher rates of penetration
- Extended bit life
- Reduced damage to downhole components

SPECIFICATIONS		
Tool OD	5.25"	7.25"
Hole Size	6-1/4" - 6-3/4"	8-1/2" - 8-3/4"
Connections	Fit As Required	
Tool ID	1.75"	2.50"
Tool OAL	25 ft	29 ft
Weight	1,670 lbs	2,700 lbs
Maximum Tensile Load	452,400 lbs	1,050,000 lbs
Maximum Axial Travel	12"	14"

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