

SlickRide™

Shock and Vibration Mitigation Tool

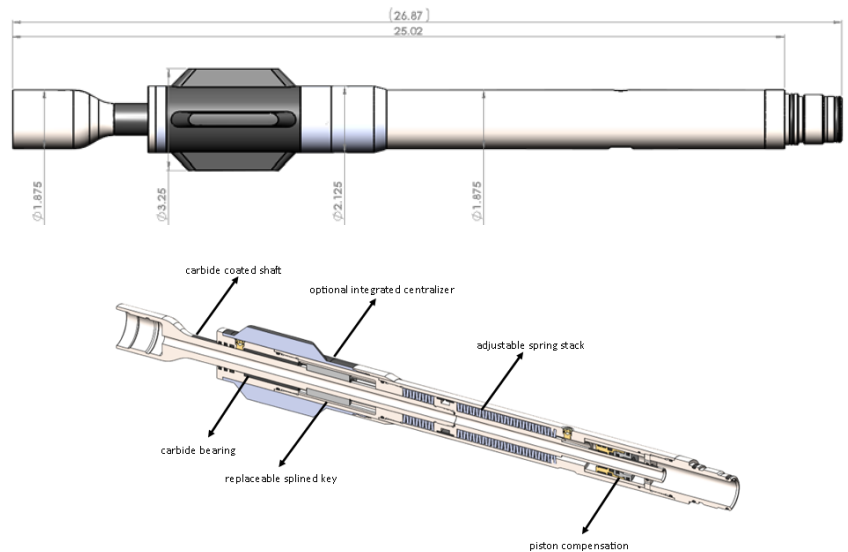
SlickRide is a shock and vibration mitigation tool with no elastomeric parts that works with standard servo pulsers and lower end main valves to protect downhole equipment against damage in harsh drilling conditions. SlickRide is specifically designed to mitigate the damaging effects brought on by agitation devices in the drill string.

Features:

- Dedicated viscous damping system
- Tuned spring-mass assembly
- Adjustable spring stack
- Piston compensation to the oil filled volume

Benefits:

- Resilient in hot hole environments
- Simplicity in routine maintenance - teardown, rebuild and reassembly in less than an hour
- Eliminates issues with bladder damage under high impact loading
- High load capacity
- Adaptable to agitation devices of various operating frequencies



Specifications

Nominal length	25.02" (635.5mm)
Housing o.d.	1.875" (47.6 mm)
Centerlizer upset diameter	2.125" (59.98mm)
Centralizer o.d.	3.25" (82.55mm)
Operating temperature	32° to 347°F (0° to 175°C)
Shock rating	1000g, 0.5ms, ½ sine, 10 times, all three axes
Vibration rating	5–30Hz@1" double amplitude, 30–500Hz 20grms all axes
Pressure rating	20,000 psi (137,895kPa)
Maximum axial load	2500lbf (11,120N)
Maximum axial shaft travel	1.00" (25.4mm)
3dB frequency	~7 Hz to ~20Hz (spring adjustable)
Attenuation	40dB at twice the resonant frequency