

slickride is a shock and vibration mitigation tool 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 the use of agitation devices in the drill string.

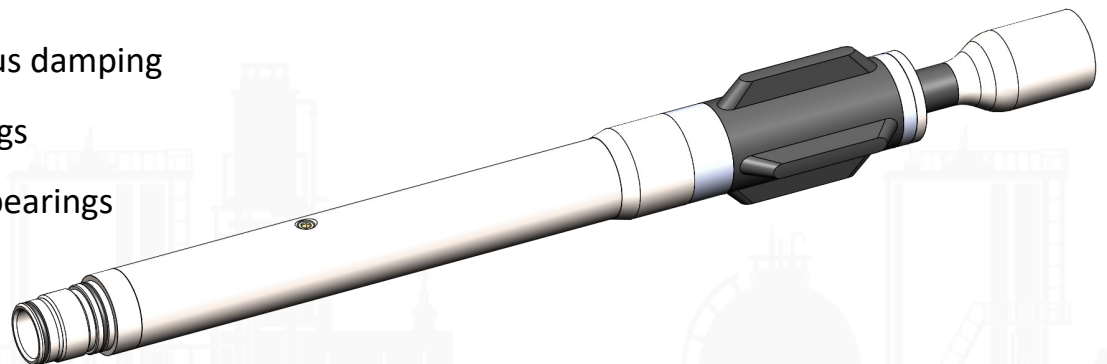
slickride uses no elastomeric parts in its shock isolation system and as such is capable of being run in hot hole environments. In addition, **slickride** implements a dedicated viscous damping system in addition to a tuned spring-mass assembly to provide true second order frequency attenuation with little or no gain at resonance.

slickride provides piston compensation to the oil filled volume and eliminates any potential issues with bladder damage under high impact loading and also utilizes Belleville disc springs for extremely high load capacity. In addition, the resonant frequency of the **slickride** tool can be adjusted by modifying the spring stack-up during the assembly process to adapt to agitation devices of various operating frequencies.

slickride has been designed with a firm focus on effectiveness, longevity and affordability. Routine maintenance of the **slickride** shock and vibration mitigation tool is simple to perform. A standard rebuild including teardown, rebuild and reassembly can be completed in less than an hour.

In a market where cost is just as important as reliability and durability, **slickride** helps MWD operators keep their repair and maintenance costs low and increases the survivability of their downhole equipment in high shock and vibration environments

- effective shock and vibration mitigation
- fully retrievable and reinsertable
- 175°C, 20,000 psi rated
- optimized hydraulic viscous damping
- high load adjustable springs
- exceptionally rigid radial bearings
- integrated centralizer



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

