

Lexal Drill Saver

Increased drilling efficiency. High efficiency downhole vibration dampening sub.

The Lexal Drill Saver is a unique downhole tool designed to minimize drilling deficiencies and dysfunctions caused by vibration. Traditional downhole shock subs have linear metal springs with slow response times and placement limitations due to pump open effects. The Drill Saver utilizes multiple nonlinear fluid springs that allow the tool to be setup for specific downhole conditions and placement requirements.

This also allows multiple tools to be run in the drill string to help mitigate both BHA induced vibrations and Drill String vibrations common in Extended Reach operations. The inherently fast response rate of fluid springs works to dampen harmful vibrations, which results in more effective drilling and reduced damage on bit cutting structure and BHA components, saving both time and money for the operator. This tool operates in both directions, providing dampening both during drilling and back reaming operations.

Applications

- Extended Reach Operations
- Difficult Drilling Environments
- Interbedded formations
- Hole opening
- Back Reaming

SPECIFICATIONS:

TOOL OD	ID	Tensile Rating(lbs)	Torsional Rating(ft lbs)	Total Stroke
4.875"	2"	475,000	21,000	4.5"
5.25"	2.375"	590,000	30,000	3.5"
7.0"	2.75"	850,000	80,000	4.5"
8.25"	3"	1,500,000	150,000	3.5"

FEATURES

- Proprietary multi chamber hydraulic dampening
- Not affected by pump open pressure
- Mandrel down to minimize moving mass
- Tunable Spring Rate
- Pure Hydraulic Tool - No metal springs - ensures fast dynamic response rate
- Endures operating temperatures of up to 300 F and 400 F with optional high temperature seals
- Can be effectively and efficiently integrated into BHA's