

## AXE TOOL

Rival's AXEial Anti-Shock & Vibration tool (the AXE TOOL™) absorbs axial shocks, vibrations, and excitation whereas traditional spring based shocks and thrusters redirect vibrations and excitation without removing them from the BHA.

- Placement is flexible based on BHA design
- Anti-Shock elements eliminate shocks & vibrations instead of reflect

Payoffs:

- Eliminate unplanned trips due to MWD & RSS failures
- Protect drill bits and sustain ROP for faster intervals
- Reduce cumulative shocks on equipment to reduce repair costs and extend component life

Size	5" AXE	6.5" AXE	8" AXE
Nominal OD (inches)	5.00	6.50	8.00
Recommended Hole Sizes (inches)	6-1/8 to 6-3/4	7-7/8 to 8-3/4	9-7/8 to 17-1/2
Length (feet)	8.25	8.67	9.75
Inner Diameter (inches)	1.75	2.00	2.50
Weight (lbs)	500	725	1175
WOB to Fully Compress (lbs)	50,000	70,000	100,000
Overpull to Fully Extend (lbs)	50,000	70,000	100,000
Max Stroke Up to Solid (inches)	3.0		
Max Stroke Down to Solid (inches)	3.0		
Maximum Overpull to Re-Run (lbs)	90,000	200,000	325,000
Max Temperature (°F)	320 (400 with Hi-Temp Seal Kit)		
Rig End Connections	3-1/2 IF	4-1/2 XH	6-5/8 Reg

