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	5.00 in	6.50 in	8.00 in
	(127.0 mm)	(165.1 mm)	(203.2 mm)
Recommended	6-1/8 - 6-3/4 in	7-7/8 - 8-3/4 in	9-7/8 - 17-1/2 in
Hole Sizes	(156 - 171 mm)	(200 - 222 mm)	(251 - 445 mm)
Length	8.2 ft	8.6 ft	9.7 ft
	(2.5 m)	(2.6 m)	(2.9 m)
Inner Diameter	1.75 in	2.00 in	2.50 in
	(44.5 mm)	(50.8 mm)	(63.5 mm)
Weight	500 lbs	725 lbs	1,175 lbs
	(230 kg)	(330 kg)	(530 kg)
WOB to Fully	50,000 lbs	70,000 lbs	100,000 lbs
Compress	(22,200 daN)	(31,100 daN)	(44,500 daN)
Overpull to Fully Extend	50,000 lbs	70,000 lbs	100,000 lbs
	(22,200 daN)	(31,100 daN)	(44,500 daN)
Max Stroke Up	3.0 in		
to Solid	(76.2 mm)		
Max Stroke Down 3.0 in			
to Solid	(76.2 mm)		
Max Overpull to	90,000 lbs	200,000 lbs	325,000 lbs
Re-Run	(40,000 daN)	(89,000 daN)	(145,000 daN)
Max Temperature	320°F (160°C) Standard		
	400°F (200°C) Hi-Temp		
Rig End	3-1/2 IF	4-1/2 XH	6-5/8 REG
Connections	XT-39	4-1/2 IF	

