

STABILDRILL

ANTI-SHOCK AND VIBRATION **AXE TOOL™**

ABSORBS
AXIAL SHOCKS
INTERNALLY TO
PROTECT
THE BHA

COMPATIBLE
WITH ALL BIT
TYPES

MITIGATES
BIT BOUNCE
TO PROTECT
THE CUTTING
STRUCTURE

DESIGNED TO ABSORB AND ELIMINATE AXIAL SHOCKS.

ANTI-SHOCK AND VIBRATION

AXE TOOL™

Stabil Drill'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.



AXE TOOL TECHNICAL SPECIFICATIONS AND OPERATING PARAMETERS				
SIZE RANGE (IN)	5" AXESIZE (IN)	6.5" AXE	8" AXE	9" AXE
Nominal OD	5" (127mm)	6.5" (165.1 mm)	8" (203.2 mm)	9" (228.6 mm)"
Recommended Hole Sizes	6-1/8 - 6-3/4" (156 - 171 mm)	7-7/8 - 8-3/4" (200 - 222 mm)	9-7/8 - 17-1/2" (251 - 445 mm)	10-5/8 - 32" (270 - 813 mm)
Length	8.2' (2.5 m)	8.6' (2.6 m)	9.7' (2.9 m)	11' (3.4 m)
Inner Diameter	1.75" (44.5 mm)	2" (50.8 mm)	2.5" (63.5 mm)	2.75" (69.85 mm)
Weight	500 lbs (230 kg)	725 lbs (330 kg)	1,175 lbs (530 kg)	1,785 lbs (810 kg)
WOB to Fully Compress	50,000 lbs (22,200 daN)	70,000 lbs (31,200 daN)	100,000 lbs (44,500 daN)	140,000 lbs (62,300 daN)
Overpull to Fully Extend	50,000 lbs (22,200 daN)	70,000 lbs (31,200 daN)	100,000 lbs (44,500 daN)	140,000 lbs (62,300 daN)
Max Stroke Up to Solid	3" (76.2 mm)			
Max Stroke Down to Solid	3" (76.2 mm)			
Max Overpull to Re-Run	90,000 lbs (40,000 daN)	200,000 lbs (89,000 daN)	325,000 lbs (145,000 daN)	400,000 lbs (1,779,290 daN)
Max Temperature	320°F (160°C) Standard 400°F (200°C) Hi-Temp			
Common Rig End Connections	3-1/2 IF XT-39	4-1/2 XH 4-1/2 IF	6-5/8 REG	6 5/8 Reg 7 5/8 Reg

AXE TOOL™ USES SPRINGLESS DAMPENING TECHNOLOGY

- Placement is flexible based on BHA design
- Polyurethane Anti-Shock elements absorb axial shocks and excitation eliminating shocks & vibrations instead of reflecting them
- 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