



AbsorbX Shock Tools

The AbsorbX is SabreDHT's shock sub, engineered to meet the rigorous demands of modern drilling operations. Designed to absorb axial shock and vibration, AbsorbX helps stabilize the drill string and protect sensitive downhole components, including MWD systems and drilling motors, while improving weight transfer and enhancing rate of penetration (ROP).

Highly adaptable, AbsorbX integrates seamlessly with both SlidePRO and conventional drilling BHAs. An optional Amp feature increases pump-open area by up to 59%, delivering superior hydraulic efficiency when paired with the SlidePRO friction reduction tool. Built for reliability and performance, AbsorbX helps operators maximize drilling efficiency while extending the life of critical downhole equipment.



FEATURES

- Engineered to meet the demands of modern drilling operations, the SabreDHT Shock Sub is compatible with both SlidePRO Tools and conventional drilling BHAs.
- Helps improve weight transfer and increase rate of penetration (ROP), enhancing tool reliability while reducing repair costs across the drill string.
- Optional AMP configuration is designed to maximize pump-open area, delivering superior hydraulic efficiency when paired with a friction reduction tool.
- Designed to absorb axial shock and vibration during drilling, helping protect sensitive BHA components and improve overall drilling performance.

SPECIFICATIONS

Tool Size O.D. in. (mm)	Tool Size I.D. in. (mm)	Overall Length ft (m)	Axial Load Compression lbs (daN)	Overpull Limit lbs (daN)	Torsional Limit lb-ft (Nm)	Spring Rate lb-in (daN)	Open Travel in. (mm)	Close Travel in. (mm)	Pump Open Area in ²
4.75 (121)	2.25 (57)	8.00 (2.44)	35,000 (15,600)	450,000 (200,000)	28,000 (38,000)	13,000 (5,780)	2.75 (70)	2.75 (70)	9.50
5.25 (133)	2.5 (63.5)	8.92 (2.72)	47,000 (20,906)	575,000 (255,773)	35,000 (47,600)	17,000 (7,562)	2.75 (70)	2.75 (70)	12.56
6.50 (165)	2.25 (57)	12.00 (3.68)	80,000 (35,600)	780,000 (347,000)	45,000 (61,000)	30,000 (13,340)	2.50 (64)	2.50 (64)	19.52
6.75 (171)	2.5 (63.5)	9.61 (2.93)	89,923 (40,000)	840,000 (373,650)	48,880 (66,164)	32,699 (14,545)	2.75 (70)	2.75 (70)	19.52
8.00 (203)	2.75 (69.8)	10.47 (3.19)	134,885 (60,000)	1,400,000 (622,751)	98,022 (132,900)	32,699 (14,545)	2.50 (63.5)	2.50 (63.5)	28.20

