



TorX *Torsional Shock Tool*

The TorX is SabreDHT's torsional shock tool, engineered to mitigate stick-slip and erratic torsional loading, protecting the drill bit and critical BHA components while delivering smoother, more balanced drilling performance. By reducing bit grab and improving weight transfer to the bit, the TorX helps enhance drilling efficiency and overall tool reliability.

Featuring a proprietary loading system, the TorX responds to increases in torsional loading by contracting against an internal spring stack, absorbing and storing energy until the load decreases. The tool then returns to its neutral position, providing continuous dampening and control throughout the drilling process.

With a large flow area to minimize hydraulic restrictions, the TorX promotes increased weight on bit, reduces bit damage, improves rate of penetration (ROP), and supports superior wellbore quality.



FEATURES

- Simple, reliable design with a minimal number of components for enhanced durability and ease of maintenance.
- Sealed construction delivers extended performance over multiple events, with an optional open-bearing design available for high-temperature applications.
- Available stroke lengths and mechanical loading configurations accommodate a wide range of drilling conditions, from light to heavy loading.
- Proprietary bearing technology utilizes high-strength materials and low-friction characteristics to withstand excessive loads, ensure smooth operation, and minimize internal wear.
- Integrated internal catch design provides added operational reliability and tool protection.
- Suitable for all drilling applications and compatible with a variety of BHA configurations.
- Optional tool ID for increased pump open area or MWD retrieveability.

SPECIFICATIONS

Tool Size O.D. in. (mm)	Tool Size I.D. in. (mm)	Overall Length ft (m)	Weight lbs (kg)	Stroke Closed from neutral in. (mm)	Stroke Open from neutral in. (mm)	Rotation of Full Stroke - degrees	Torsional Limit ft-lbs
5.25 (133)	1.37 (34.93) 2.25 (57.15)	15 (4.57)	980 (444.52)	10 (254)	4 (101.60)	360	35,000

