

DIRECTIONAL DRILLING SERVICES

Easy Torque Rotating Sleeves (ETRS)

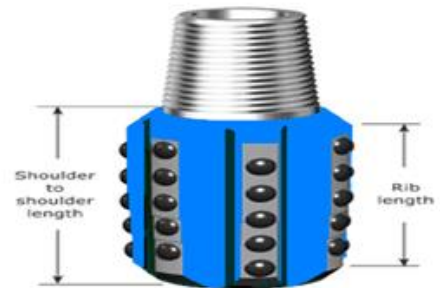
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TLOS Drilling Easy Torque Rotating Sleeve (TL-ETRS)

The drilling Easy Torque rotating sleeve has been specifically designed to deliver at-the-bit reaming performance. Its short body design and durable cutting structure enable placement between the bit and motor in directional applications. The cutting structure utilizes synthetic diamond enhanced inserts designed specifically for continuous reaming. Each insert is brazed into the body, eliminating the moving parts found in conventional reamers.

Features and Benefits

- Synthetic diamond enhanced inserts to provide a durable cutting structure capable of maintaining hole in soft to medium-hard formations.
- No moving parts to wear or fail.
- Short body design to facilitate reaming directly at the bit and placement between bit and mud motor in directional applications.



Applications

Directional projects where maintaining hole gauge is expected to be a problem, the ETRS will maintain hole size once the drill bit begins to lose its gauge, thus reducing or eliminating the need to ream back to bottom with a directional assembly.

Directional wells (Motors Assemblies) where doglegs necessitate a reaming run through the build section. The ETRS may provide the adequate reaming and contact behind the bit (below motor) wiping out the ledges as drilling progresses. A smoother build section can reduce hole drag and facilitate drilling operations.

Near-bit reaming in a packed hole assembly when placed directly above the drill bit. Shortening the distance from the bit to the first point of stabilization improves BHA and drilling performance.

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Specifications

Hole Size (in)	Connection	Bore Dia. (in)	Shoulder to Shoulder Length (in)	Rib Length (in)	Wt. (lbs.)
4 ¾	2 7/8 REG.	1 ¼	6 ½	5 7/8	39
6	3 ½ REG.	1 ¼	7 3/8	6 3/8	54
6 ½	3 ½ REG.	1 ¼	7 7/8	6 5/8	66
8 ½	4 ½ REG.	2 ¼	8 3/8	7	111
12 ¼	6 5/8 REG.	3	11 3/8	9	206
14 ¾	7 5/8 REG.	3 3/8	21 7/8	9 ¾	563
16	7 5/8 REG.	3 3/8	22 5/8	10 1/8	578
17 ½	7 5/8 REG.	3	24 1/8	10 5/8	918
22	7 5/8 REG.	3	28 7/8	20 1/4	878