

# Tornar<sup>®</sup> Express

## Compact wellbore cleanup

**Do you want an all-in-one wellbore cleanup tool to scrape, polish and collect debris from your well?**

Tornar<sup>®</sup> Express is a cost efficient solution that quickly removes mud solids, cement sheath, scale and perforation burrs in any wellbore.

### Benefits

- Saves rig time
- Cleans 360 degrees without rotation
- Eliminates casing wear
- Multiple runs are possible
- Withstands drilling and milling operations

### Typical applications

- Cleaning debris from wellbores in wellbore cleanup operations
- Post perforation cleaning
- Cleaning after sidetrack operations
- When cleaning is required in drilling operations

### Features

- One piece mandrel
- Non-rotating stabilizers
- Non-rotating sleeve assembly
- No external nuts or bolts
- Standard drillpipe connections
- Extra large bypass areas for eliminating flow restrictions

Tornar<sup>®</sup> Express is perfect for a quick and efficient clean-up in any wellbore before displacement, side-tracks, drilling or post perforation. It can be rotated and reciprocated without fear of damage to the casing or tool due to its rugged design and the fact that it does not have external bolts that could become loose under extreme conditions.

Tornar<sup>®</sup> Express consists of a magnet, brush and scraper attached to a one-piece body that is supported by non-rotating stabilisers for self-centralisation. Its rough and flexible design provides the force needed remove and clean 360 degrees without rotation.

The one-piece body rotates through the non-rotation stabilizers and compact cleaning components to avoid wear or damage to the casing during a drill string rotation.



**TORNAR<sup>®</sup>**



### Specifications

Casing sizes	9 5/8" and 10 3/4"
Thread	API and Premium
ID	76,2 mm / 3.00"
Maximum rotation speed	150 rpm
Working temperature	150°C / 302°F
Max. trip speed in casing	Limited by rig equipment
Max. pump rate	Limited only by surface equipment
Material (main body)	AISI 4145M 125 KSI

Specifications may be subject to change

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