

Turborunner™ Reaming System

Reams at high speeds to land completion liners at the target depth

Applications

- Reaming while running completion liners

Features and Benefits

- Provides turbine-powered reaming
- Reduces or eliminates wiper trips
- Lowers circulation pressures while reaming
- Enables stress-free casing connections
- Enhances faster casing of troubled zones
- Reduces well construction risks
- Eliminates the need for string rotation
- Provides a low flowrate on startup

Tool Description

The Turborunner reaming system provides high-speed reaming to land completion liners at target depth. The rugged, reliable system provides reaming while running in the hole without the need to rotate the liner or completion. The system helps to eliminate wiper trips and, as a result, run the completion sooner.

The unique design combines turbine-powered reaming with lower circulation pressures. This combination protects the completion from vibrations, reactive torque, and pressure spikes that could prematurely set the liner hanger or packers.



Turborunner is a trademark of Deep Casing Tools.



Turborunner™ Reaming System

Specifications

| Tool specifications | Tool Size | |
|----------------------------------|--|---|
| | TRS500 | TRS700 |
| Stabilizer | 6.5, 6.25, 6, 5.875, or 5.75 in. (164.30, 158, 152.4, 149.23, or 146.05 mm) | 8.25 in., up to 10.5 in. on request (209.55 mm, up to 266.7 mm on request) |
| Body size outside diameter (OD) | 6.469, 5.844, 5.969, 5.719, or 5.969 in. (148.4 mm or as specified with reamer) | 8.219 in. (208.7 mm) or as specified with reamer |
| Drill-thru diameter | — | |
| Length | 9.410 ft (2.87 m) | 9.030 ft (2.75 m) |
| Weight | 344 lb (156 kg) | 712 lb (323 kg) |
| Burst disc options | 1,200 or 1,800 psi (83 or 125 MPa) | |
| Max. dogleg severity | 32 to 100°/ft (32°/30m) | 39 to 100° /ft (30°/30m) |
| Turbine stages | 50 | 40 |
| Top sub strainer total flow area | 27.29 in. ² (17,067 mm ²) | 31.67 in. ² (20,435 mm ²) |
| Reamer ports total flow area | 2.15 in. ² (1,385 mm ²) | 3.80 in. ² (2,454 mm ²) |
| Burst disc total flow area | 1.49 in. ² (962 mm ²) | |
| Max-operating setdown weight | 62,000 lb (28 metric ton) | 150,000 lb (68 metric ton) |
| Material grade (body) | L80 or equivalent | |

Notes:

- The material grade of the body can be changed on request. Lead times vary.
- Performance charts are given out separately because they are dependent on the fluid weight being used on a casing/completion run.
- Patent Number: GB 2520187

The Turborunner reaming system provides high-speed reaming to land completions at target depth.

