

# TurboRunner™

**TURBINE-POWERED COMPLETION RUNNING SYSTEM.**

**A rugged and reliable tool, the TurboRunner™ makes sure that completions access all planned reserves, whilst significantly reducing flat time and the risk of off-depth completions.**

The TurboRunner™ provides high-speed reaming to land completions and liners at target depth, without the need for surface rotation.

With its unique design combining turbine powered reaming with low circulating pressures, the TurboRunner™ is particularly useful for making sure that final strings, casings, liners or completions get to target depth in more problematic wells.

Our pioneering design protects the completion from vibration, reactive torque and pressure spikes. As a result, there is no chance of other equipment in the string being adversely affected and prematurely set.

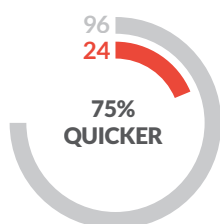
## THE BENEFITS

- Reduce well construction costs
- Ream completions to target depth without surface rotation
- Minimise the risk of damage to 'delicate' strings with low vibration and torque
- Reduce wiper trips
- Create reliable connections
- Protect intelligent completions
- Minimise loss of reservoir section
- Maximise ROI

## IN NUMBERS

■ Conventional Technology

■ TurboRunner™



### 72 HOURS SAVED

One quarter of the time required to prepare the hole compared to conventional technology.



### \$550,000 SAVED

3 days saved on a typical offshore well results in around \$550,000 saved.



### FEWER WIPER TRIPS

Because the TurboRunner™ can ream through obstructions that other types of technology cannot.

## Imperial Data Figures

Tool Specifications	TRS500	TRS700
Reamer Size (in)	6.500 / 6.250 / 6.000 / 5.875 / 5.750	8.250 (Up to 10.500 on request)
Stabiliser Size (in)	6.470 / 6.220 / 6.970 / 5.845 / 5.720	8.220 (Or as specified with reamer)
Body Size O.D. (in)	4.820	7.085
Drill-Thru Diameter	N/A	N/A
Length (ft)	9.410	9.360
Weight (lbs)	344	732
Burst Disc Options (psi)	1200 / 1800	1200 / 1800
Max DLS (°/100ft)	32	39
Turbine Stages	50	40
Top Sub Strainer TFA (in <sup>2</sup> )	27.30	31.65
Reamer Ports TFA (in <sup>2</sup> )	2.15	3.80
Burst Disc TFA (in <sup>2</sup> )	1.50	1.50
Max-Operating Set-Down Weight (lbs)	62,000	150,000
Material Grade (Body), ksi	L80 or Equivalent, 80	L80 or Equivalent, 80

## Metric Data Figures

Tool Specifications	TRS500	TRS700
Reamer Size (mm)	165.10 / 158.75 / 152.40 / 149.25 / 146.05	209.55 (Up to 266.70 on request)
Stabiliser Size (mm)	164.30 / 159.70 / 157.95 / 148.45 / 145.25	208.80 (Or as specified with reamer)
Body Size O.D. (mm)	125.00	180.00
Drill-Thru Diameter (mm)	N/A	N/A
Length (m)	2.85	2.85
Weight (kg)	156	332
Burst Disc Options (bar)	83 / 125	83 / 125
Max DLS (°/30m)	32	39
Turbine Stages	50	40
Top Sub Strainer TFA (mm <sup>2</sup> )	17,605	20,435
Reamer Ports TFA (mm <sup>2</sup> )	1,385	2,455
Burst Disc TFA (mm <sup>2</sup> )	962	962
Max-Operating Set-Down Weight (MT)	28	68
Material Grade (Body), MPa	L80 or Equivalent, 551	L80 or Equivalent, 551

- Material grade of the body can be changed on requests, lead times may vary.
- Performance charts are given out separately as they are dependent on the fluid weight being used on casing/completion run.
- Patent number: GB 2520187

### Deep Casing Tools

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