

# TurboCaser™

**RAPID DRILL-THRU CASING RUNNING SYSTEM.**

**The TurboCaser™ is a pass through turbine powered reaming system that enables casings and intermediate liners to be landed at Target Depth.**

The TurboCaser™ provides high speed rotation of a reamer shoe, independent of casing string rotation.

The casing is cemented in the normal manner. The TurboCaser™ is designed for very rapid drill out. Drill out time of the TurboCaser™ is under 15 minutes and a dedicated drill out trip is not required.

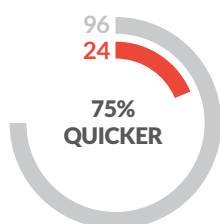
## THE BENEFITS

- Turbine powered reaming
- Land casing and liners on depth
- Reduce or eliminate wiper trips
- Full bore pass thru and drill ahead
- No string rotation required
- Low flow rate on start up
- Stress free casing connections
- Case trouble zones quickly
- Reduce well construction risks
- Maximise ROI
- Minimise HSE exposure

## IN NUMBERS

■ Conventional Technology

■ TurboCaser™



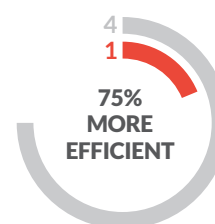
### 72 HOURS SAVED

Ensures casings reach TD, negates the risk of landing casings high, pulling and re-running.



### \$500,000 SAVED

3 days saved on a typical offshore well, resulting in around \$500,000 saved.



### EFFICIENCY

Increase efficiency by 75% by landing casings as planned with no time lost.

| Imperial Data Figures                   | Tool Size          |                    |                    |
|---|--------------------|--------------------|--------------------|
|   | TCE700             | TCE758             | TCE958             |
| Tool Specifications                     | TCE700             | TCE758             | TCE958             |
| Reamer Size (in)                        | 8.250              | 9.625              | 12.000             |
| Stabiliser Size (in)                    | 8.20               | 9.595              | 11.930             |
| Body Size O.D. (in)                     | 7.985              | 8.980              | 11.180             |
| Drill-Thru Diameter                     | 6.160              | 6.790              | 8.560              |
| Length (ft)                             | 12.325             | 13.620             | 13.115             |
| Weight (lbs)                            | 662                | 990                | 1,519              |
| Burst Disc Options (psi)                | 1200 / 1600 / 2500 | 1200 / 1600 / 2500 | 1200 / 1600 / 2500 |
| Max DLS (°/100ft)                       | 14                 | 20                 | 25                 |
| Turbine Stages                          | 40                 | 50                 | 40                 |
| Top Sub Strainer TFA (in <sup>2</sup> ) | 51.65              | 52.95              | 67.10              |
| Reamer Ports TFA (in <sup>2</sup> )     | 5.65               | 4.40               | 10.55              |
| Burst Disc TFA (in <sup>2</sup> )       | 1.70               | 1.70               | 1.70               |
| Max-Operating Set-Down Weight (lbs)     | 150,000            | 290,000            | 290,000            |
| Material Grade (Body), ksi              | 4330V, 150         | 4330V, 150         | 4145, 110          |

| Metric Data Figures                     | Tool Size      |                |                |
|---|----------------|----------------|----------------|
|   | TCE700         | TCE758         | TCE958         |
| Tool Specifications                     | TCE700         | TCE758         | TCE958         |
| Reamer Size (mm)                        | 209.55         | 244.50         | 304.80         |
| Stabiliser Size (mm)                    | 208.75         | 243.70         | 303.00         |
| Body Size O.D. (mm)                     | 202.85         | 228.00         | 284.00         |
| Drill-Thru Diameter (mm)                | 156.45         | 172.50         | 217.40         |
| Length (m)                              | 3.75           | 4.15           | 4.00           |
| Weight (kg)                             | 300            | 449            | 689            |
| Burst Disc Options (bar)                | 83 / 110 / 172 | 83 / 110 / 172 | 83 / 110 / 172 |
| Max DLS (°/30m)                         | 14             | 20             | 25             |
| Turbine Stages                          | 40             | 50             | 40             |
| Top Sub Strainer TFA (mm <sup>2</sup> ) | 33,335         | 34,175         | 43,295         |
| Reamer Ports TFA (mm <sup>2</sup> )     | 3,630          | 2,825          | 6,805          |
| Burst Disc TFA (mm <sup>2</sup> )       | 1,105          | 1,105          | 1,105          |
| Max-Operating Set-Down Weight (MT)      | 68             | 132            | 132            |
| Material Grade (Body), MPa              | 4330V, 1,034   | 4330V, 1,034   | 4145, 759      |

- Material grade of the body can be changed on request, lead times may vary.
- Performance charts are given out separately as they are dependent on the fluid weight being used on casing/completion run.
- Max drill thru bit size is as stated in tables above, preferably PDC drill bit, but is not required to be.
- Patent Number: EP 2334890

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