

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.

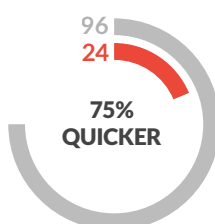
The TurboCaser™ provides high speed rotation of a reamer shoe, independent of casing string rotation.

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

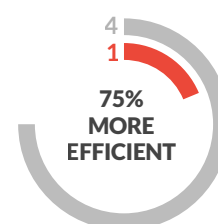
IN NUMBERS ■ Conventional Technology ■ TurboCaser™



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



**\$800,000
\$300,000**
\$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.

TurboCaser™ Data Sheet

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 (in2)	51.65	52.95	67.10
Reamer Ports TFA (in2)	5.65	4.40	10.55
Burst Disc TFA (in2)	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
Temperature Rating	- 205°C (Higher temperature grades available upon request)		

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 (mm2)	33,335	34,175	43,295
Reamer Ports TFA (mm2)	3,630	2,825	6,805
Burst Disc TFA (mm2)	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
Temperature Rating	- 205°C (Higher temperature grades available upon request)		

- 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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