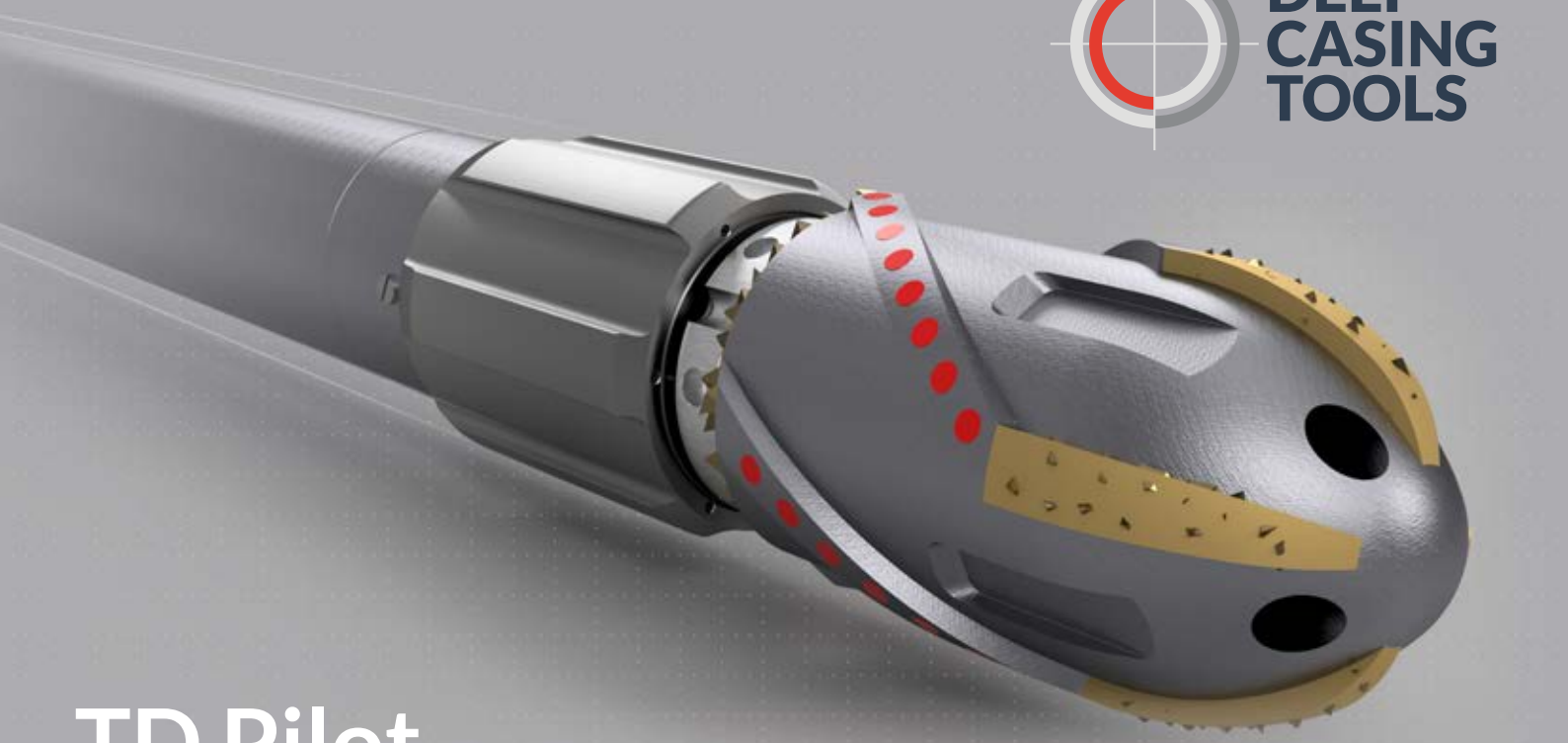
DEEP CASING TOOLS



TD Pilot

HYDRAULICALLY DRIVEN HIGH SPEED REAMING SYSTEM.

Our TD Pilot delivers high-speed reaming to land strings at target depth. Using a unique turbine design, it delivers power to the reamer without any rotation at the surface.

Its cost-effective design combines high RPM and torque with low circulating pressures. It is particularly effective in challenging wells, where removing the risk of reactive torque and pressure spikes will protect completions and equipment.

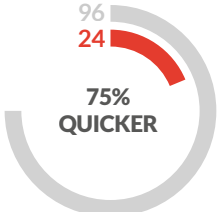
A turbine-powered reamer, it has the benefit of high speed, low to medium torque and pressure drop on stall, meaning that it works optimally with 'delicate' strings that are affected by pressure spikes and reactive torque.

THE BENEFITS

- Reduce well construction costs
- Create reliable connections
- Reduce wiper trips
- Minimise Equivalent Circulating Density with low flow rate
- Reach target depth
- Maximise return on investment
- Cost effective offering
- Maximises ROI

IN NUMBERS

Conventional Technology | TD Pilot



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 TD Pilot can ream through obstructions that other types of technology cannot.

Imperial Data Figures	Tool Size	
Tool Specifications	TDP500	TDP700
Reamer Size (in)	6.500 / 6.250 / 6.000 / 5.875 / 5.750	8.250 (Up to 10.500 on request)
Stabiliser Size (in)	6.469 / 6.219/ 6.969 / 5.844 / 5.719	8.219 (Or as specified with reamer)
Body Size O.D. (in)	4.921	7.087
Drill-Thru Diameter	N/A	N/A
Length (ft)	7.010	6.993
Weight (lbs)	322	564
Burst Disc Options (psi)	1200 / 1800 psi	1200 / 1800 psi
Max DLS (°/100ft)	32	39
Turbine Stages	30	25
Top Sub Strainer TFA (in2)	27.29	31.67
Reamer Ports TFA (in2)	2.15	3.80
Burst Disc TFA (in2)	1.49	1.49
Max-Operating Set-Down Weight (lbs)	32,000	150,000
Material Grade (Body), ksi	L80 or Equivalent, 80	L80 or Equivalent, 80

Imperial Data Figures	Tool Size	
Tool Specifications	TDP500	TDP700
Reamer Size (mm)	165.10 / 158.75 / 152.40 / 149.23 / 146.05	209.55 (Up to 266.70 on request)
Stabiliser Size (mm)	164.31 / 159.69 / 157.96 / 148.44 / 145.26	208.80 (Or as specified with reamer)
Body Size O.D.(mm)	125.00	180.00
Drill-Thru Diameter	N/A	N/A
Length (m)	2.14	2.13
Weight (kg)	146	256
Burst Disc Options (bar)	83 / 125	83 / 125
Max DLS (°/30m)	32	39 / 30
Turbine Stages	30	25
Top Sub Strainer TFA (mm2)	17,607	20,435
Reamer Ports TFA (mm2)	1,385	2,454
Burst Disc TFA (mm2)	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 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.
- Patent Number: GB 2520187

Deep Casing Tools
51 York Street, Aberdeen AB11 5DP, United Kingdom
E: sales@deepcasingtools.com T: +44 (0)1224 572070
LinkedIn: Deep Casing Tools Twitter: @DeepCasingTools

www.deepcasingtools.com

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