

# 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.

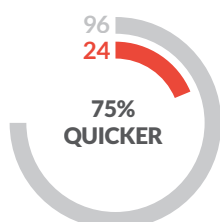
A turbine-powered reamer, it has the benefit of high speed, low to medium torque and pressure drop on stall, meaning that it works optimally with 'delicate' strings that are affected by pressure spikes and reactive torque.

## 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

## 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.

## TD Pilot Data Sheet

| Imperial Data Figures                   | Tool Size                             |                                     |
|---|---------------------------------------|-------------------------------------|
|   | TDP500                                | TDP700                              |
| 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)                    | 6.470 / 6.220 / 6.970 / 5.845 / 5.720 | 8.220 (Or as specified with reamer) |
| Body Size O.D. (in)                     | 4.920                                 | 7.085                               |
| Drill-Thru Diameter                     | N/A                                   | N/A                                 |
| Length (ft)                             | 7.010                                 | 6.995                               |
| 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 (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)     | 32,000                                | 150,000                             |
| Material Grade (Body), ksi              | L80 or Equivalent, 80                 | L80 or Equivalent, 80               |

| Metric Data Figures                     | Tool Size                                  |                                      |
|---|--|--------------------------------------|
|   | TDP500                                     | TDP700                               |
| Tool Specifications                     | TDP500                                     | TDP700                               |
| 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                     | N/A  | N/A                                  |
| Length (m)                              | 2.15                                       | 2.15                                 |
| 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 (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> )       | 960  | 960                                  |
| 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

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