



Titan Torque Services Limited

“Striving to provide a safer
working environment”

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www.titantorque.co.uk



Statistical Information

On average to drill a typical well in the UK a Rig will require the following:

- 6 Drill Bit Runs
- 24 Drill String Components made up to the bottom section of the BHA per Well

Smith Bits Data Base 16/06/09

Statistical Information

In 2008 UK Drilled 315 Wells (DTI)

This Equates to:

- 15,120 Lifts from the deck to the rig floor or from rig floor to deck (minimum)
- 3,780 Bit Make ups or break outs using manual rig tongs + associated manual handling equipment (minimum)

Typical Individual Lifts



Drill Bit Dog Sub

Motor/RSS

Stabiliser

Weight: 25 -750 10 – 120

1,000 – 4,000

100 -1 ,500

(kg)

Length: 0.5 – 1 0.5 – 1

6 – 10

1.5 - 2

(m)

Combined Pre-made BHA Lifts



Complete BHA

Weight: 6,370KG (worst case)

Length: 14m

Pre Torqued

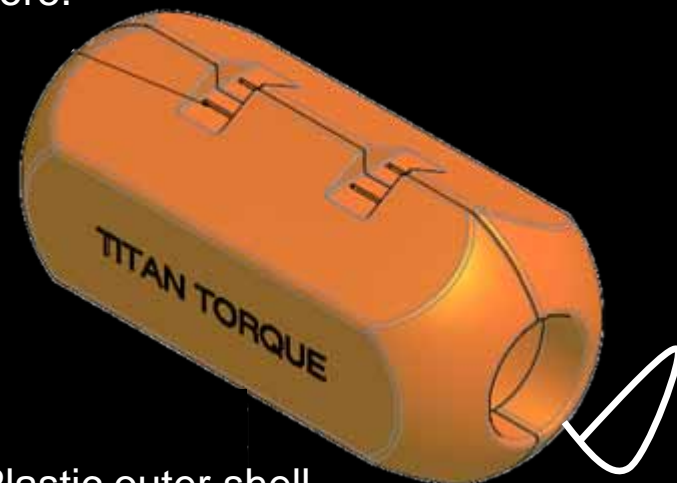
Certified make up torques

Titan Drill Bit Protector

The Titan Protector (Patent Pending) is a unique product designed to safely and simply prevent damage to the drill bit whilst made up to a the drilling BHA while in transit offshore and back onshore.

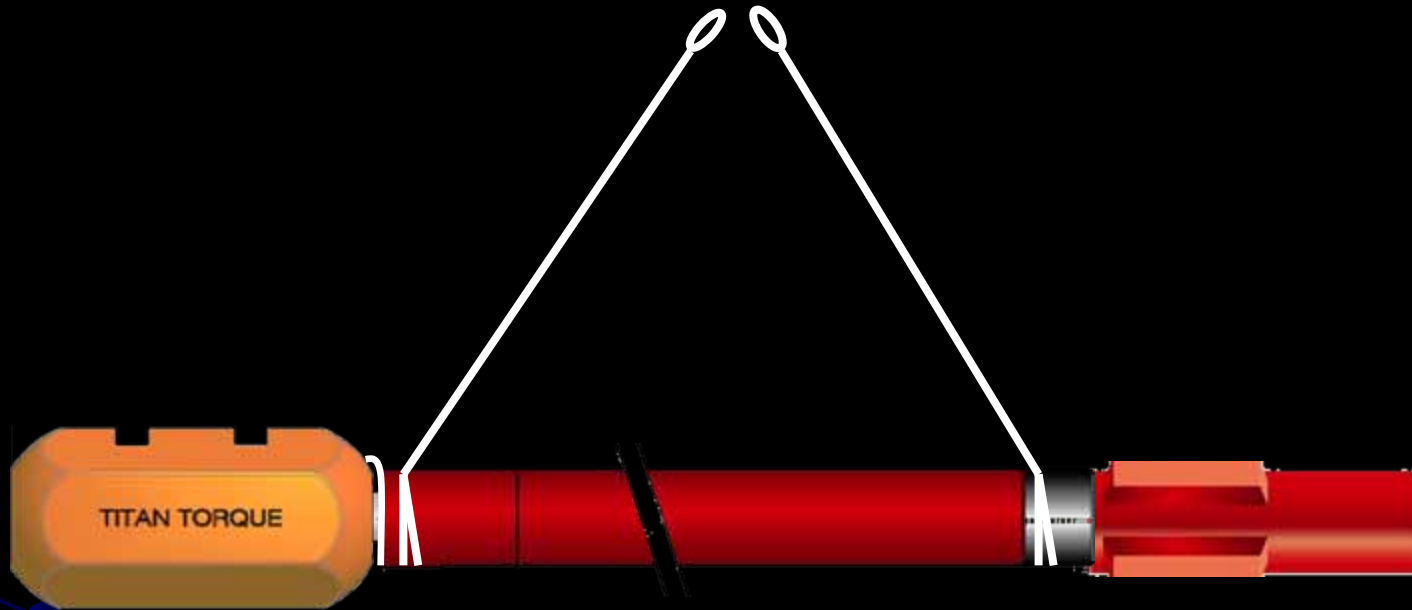
Designed to be compatible with:

- RSS tools
- Motors
- Turbines
- Dumb iron



- Polyurethane/Plastic outer shell
- Foam inner
- Robust hinge system
- Quick connect locking mechanism
- Safety snare

Combined Pre-made BHA Lifts



One Controlled Lift

Slings Positioned between larger OD items

Less crane usage

Quicker saving rig time

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Eliminate Manual Rig Tongs



The Way Forward

If in 2010, UK Drills 315 Wells and we use this solution

This will equate to:

- 3,780 Lifts from the deck to the rig floor or from rig floor to deck

75% reduction in lifts

- 0 Bit Make ups or break outs using rig tongs + associated manual handling equipment

100% Reduction in manual rig tongs

7 P's to Safer Drilling

- **P**lan in advance the BHA's
- **P**re – make the BHA's
- **P**rotect the bit
- **P**ick up the BHA's safely
- **P**revent unnecessary manual handling or use of manual equipment
- **P**erform
- **P**rovide a safer working environment



Summary

Safety Driven solution that provides a cost effective benefit



Questions



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