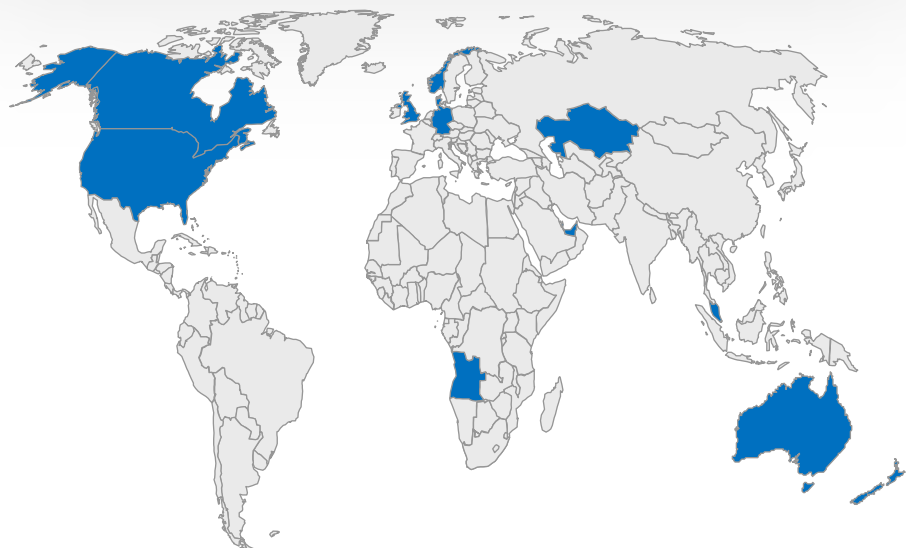






WE ARE A TECHNOLOGY COMPANY WITH A PASSION TO INNOVATE

- Established in 2008, located in Stavanger, Norway
- 65 Employees in Stavanger, Doha, Kuala Lumpur & Perth
- We are structured into 4 regions Europe & Africa, Middle East, Asia Pacific & Americas
- Agile engineering team within mechanical, electrical & software disciplines with amazing capabilities.
- We provide solutions that make completion, intervention and Plug & Abandonment operations safer and more efficient



MISSION

At the core of our mission is a passion for innovation and closing technology gaps within the energy industry.

We achieve this by adding new ways that not only improve efficiency but also significantly reduce operational risks.

Our commitment is to redefine standards, fostering a future where our innovation reshapes the energy industry

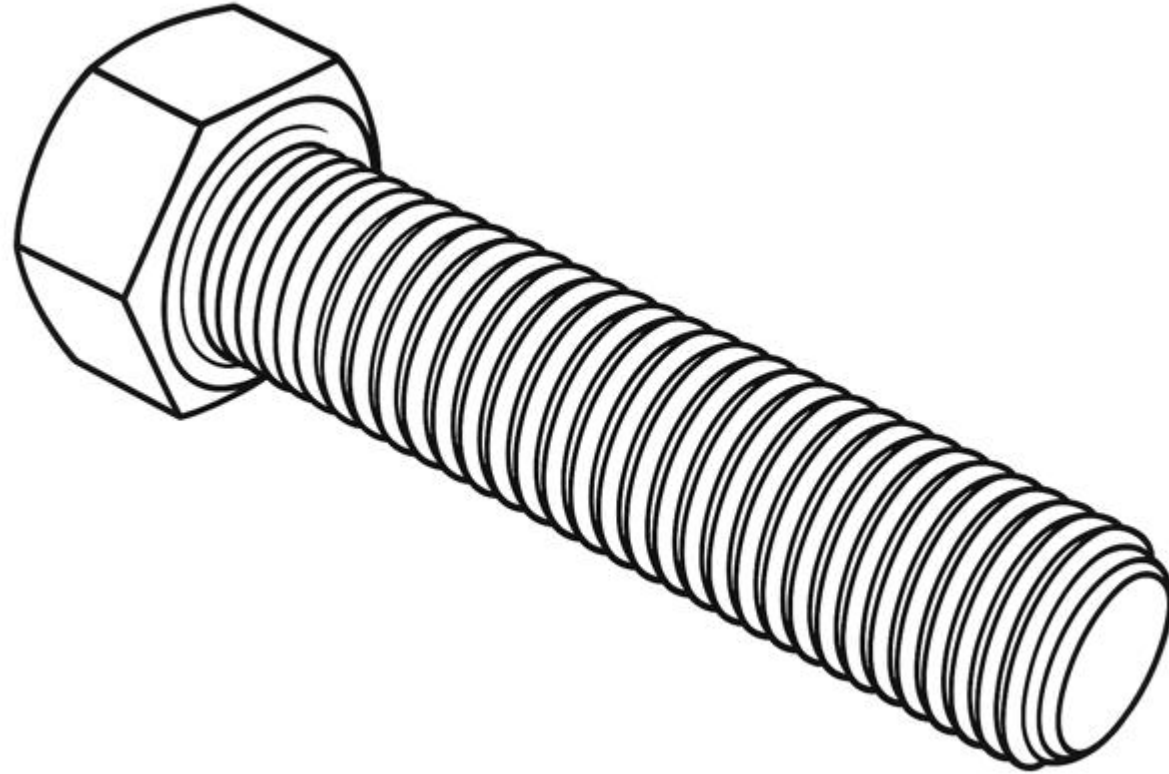


VISION

Innovation at the Core, Agility in Action

Our vision centers on our passion to innovate, coupled with dynamic and agile engineering practices, unlocking new possibilities and transforming industries.

COULD IT BE AS SIMPLE AS TURNING A BOLT?



HOW DO WE TURN THE BOLT?

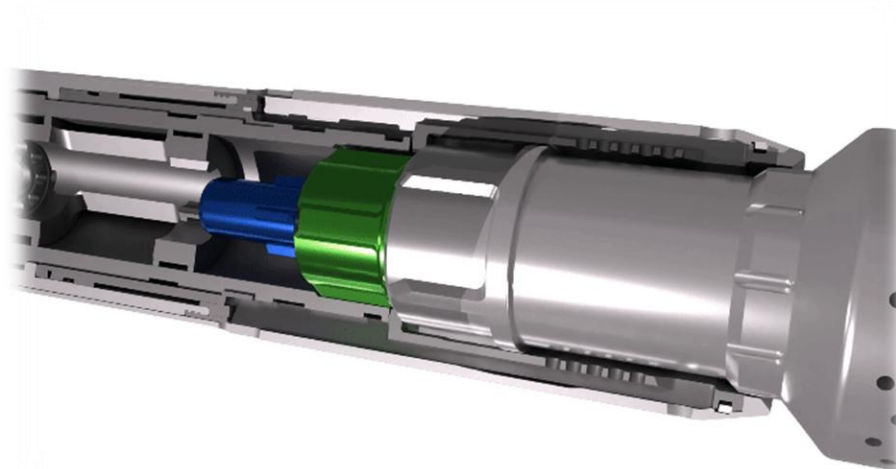
What is the TorcMethod?

The TorcMethod is a patented and innovative technique for activation of downhole tools without the use of any explosives or pressurized chambers

The technique enables the creation and control of high axial forces using rotation and torque.

Torque is transferred from an Electric Manipulation Tool to a connected tool below, and converted to axial and radial forces

Selectively operating the connected tool multiple times



WHO IS TURNING THE BOLT?

What is the EMT?

The EMT is the Operating Platform for all E Plug technologies

Intelligent electro-mechanical tool that provides rotation and torque that enables manipulation of tools using the TorcMethod.

Features

- Live Surface Readout
- Real time pressure & Temperature
- Accelerometer
- Current/Voltage
- Rotation
- Torque
- Tension & Compression
- Active Casing Collar Locator

Benefits

- Two-way telemetry with real time surface readout
- Ultimate control of the downhole parameters
- Non-Explosive
- Redundant Release function
- Repeatable latch on and unlatch mechanism



HOW DO WE CONVERT RADIAL FORCES TO AXIAL?

What is the TorcDesperado?

TorcDesperado is a high-performance Linear Actuator that enable high axial forces

It enable Push and Pull Forces up to 270.000 lbs or 122 metric tons on Wireline

Benefits

Real-Time Force Control:

Integrated with TorcDrive Software, the system allows real-time control and adjustment of forces, enabling precise execution of operations and reducing risk.

Minimized Downtime:

The system's ability to control forces in real-time can prevent overloading, reduce wear and tear, and extend equipment lifespan, resulting in less downtime.

Efficient Operation:

Streamlined Processes: The combination of powerful expansion capabilities and real-time control helps streamline complex processes, improving efficiency and reducing downtime.

Optimized for Heavy-Duty Applications:

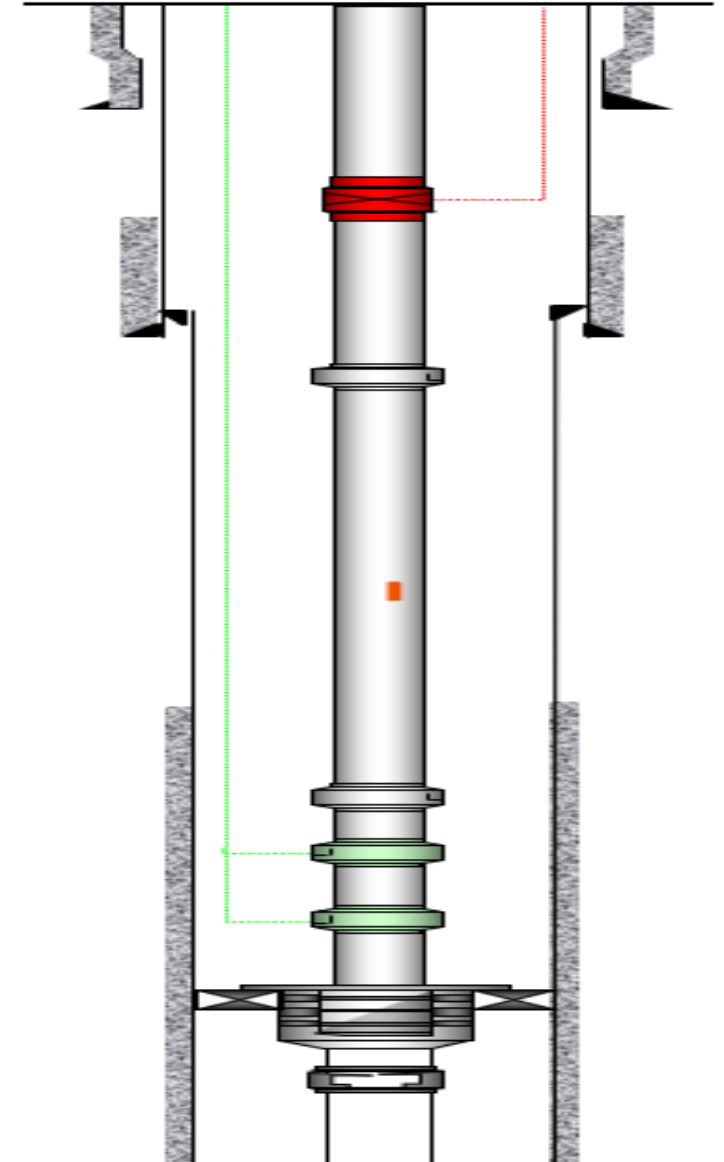
Increased Productivity: The actuator's high force capacity makes it suitable for demanding operations, reducing the need for multiple actuators or heavy equipment, thereby improving overall productivity.



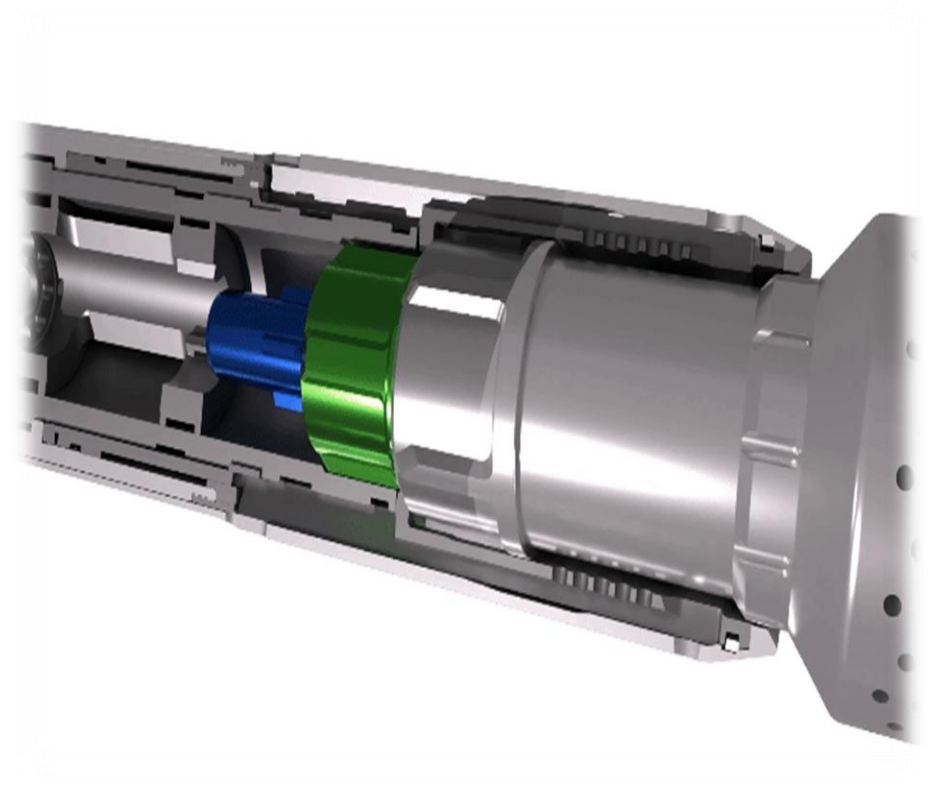
What's the challenge then? The tubing is centralized here, isn't it?

4 1/2" Completion Tubing inside 9 5/8" Casing

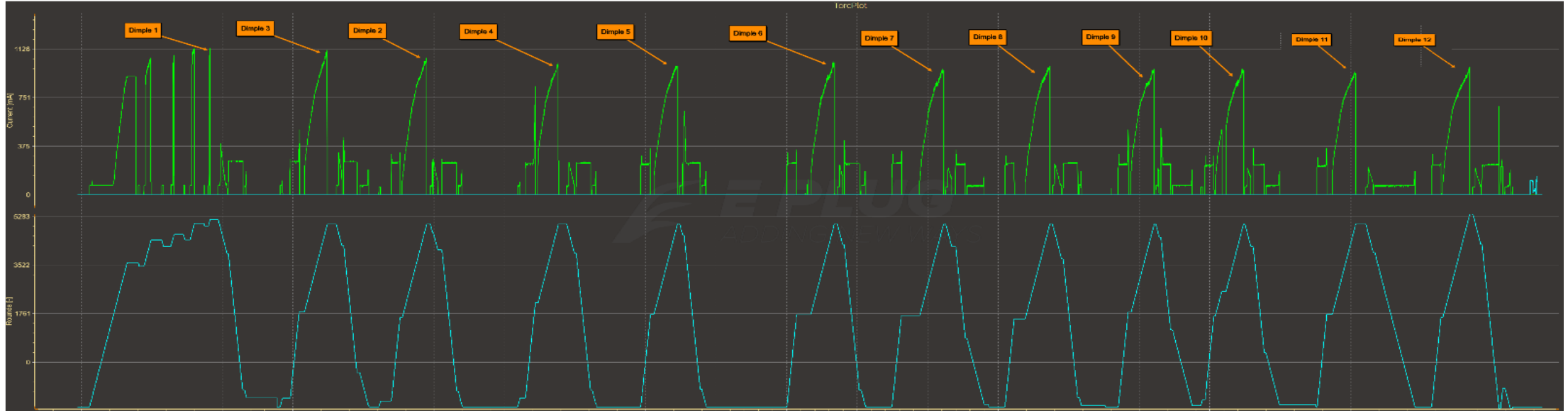
- ✓ The plan for the customer was to do through tubing P&A from a Light Well Intervention Vessel
- ✓ The customer has good cement behind the 9 5/8" casing and wanted set a cross-sectional barrier
- ✓ The challenge was that the 4 1/2" tubing was not as centralized as it was on the excel well schematic
- ✓ The there was no centralizer installed on the tubing, and the customer needed to lift the tubing from the low side to be able to place cement 360 degrees around the tubular.



HOW DO YOU MAKE A CENTRALIZER FROM INSIDE OUT?

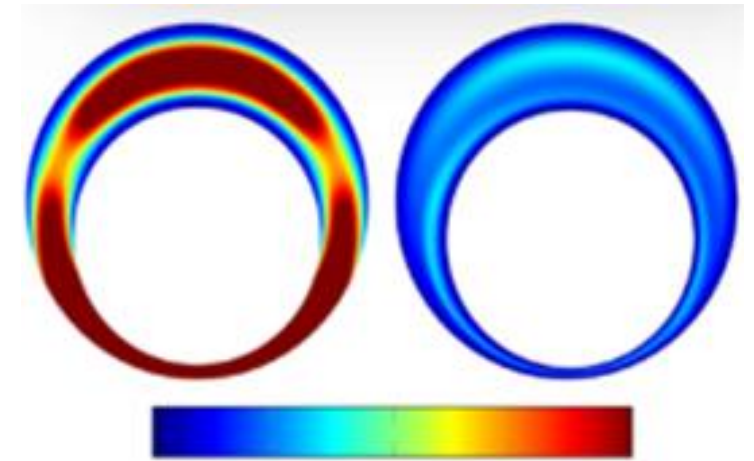


Construction a Centralizer from inside out with real-time control through TorcDrive Software



What value can it bring ?

- ✓ The tool provides effective standoff for 4½" tubing inside 7" casing, ensuring full 360° cement coverage.
- ✓ It can also deliver reliable cement standoff for 4½" × 9⅝" casing (as shown in the figure).
- ✓ CFD analysis and physical testing confirm competent cement placement in the 4½" × 9⅝" test vessel.
- ✓ Who has the first well?





World's First 9⁵/₈" VO Multi-Set, Latch & Retrieve Wireline Plug

Benefits

- First ever 9 5/8" multiset, latch and retrieve e-line plug on the market, **adding new ways** to set 9 5/8" bridge plugs.
- Small 8" OD securing no entry or exit restrictions
- High setting range → enabling setting in corroded casing
- Reduces operational time
- Independent equalizing valve

Features

- Mechanical retraction with positive verification
- Multiple set, latch and release in one run
- Leak testing with or without running tool attached
- Surface readout
 - Controlled setting force and setting sequence
 - P/T readings

Technical Specification	Metric	Imperial
Maximum OD	203,2mm	8,0"
Maximum setting ID	240,6mm	9,473"
Pressure rating	345bar	5000psi
Temperature rating	151°C	303°F
Equalizing bore diameter	63,5mm	2 ½"
ISO 14310 Qualified	Yes	Yes
ISO 14310 Setting ID	229,4mm	9,03"
Current ISO 14310 V0 envelope	345 bar 11,4→151°C	5000 psi 51,8 →303,8°F



9⁵/₈" TorcPlug Field-Proven Across Multiple Operations

Challenge

A major operator had a need to increase efficiency in plug setting operations from Hydraulic Workover Unit

Setting deep set barrier plugs at approx. 2000 meter on pipe tripping in on single was time consuming. The customer had over 50 wells to Permanently Plug & Abandon

Solution

The operator has extensively used the TorcPlug technology in other projects where it has been partnering, and was aware of the capabilities of TorcMethod, EMT & TorcPlug Technology.

TorcPlug is a multiset wireline plug with the ability to latch on and off with the same running tool.

The TorcPlug for 9 5/8" casing was developed from idea to field proven product in less than 6 months

The setting is verified real time through TorcDrive Software and the plug can be set with different setting force and moved if the pressure test fails.

Result

The TorcPlug plug was set at 2370mMD as a barrier and later repositioned at 1450mMD. The time savings and value for the customer was significant. The first multiset and multi latch wireline plug for 9 5/8" is born!



Questions

