



Harlsan's reliable solution for persistent thread issues transforms rig efficiency, durability, stability and safety.



HARLSAN

Accuracy & Quality of Threads: Harlsan Solves Age-Old Problem

Every driller understands the frustration of thread issues with drill rods, leading to downtime and increased production costs. One of our customers faced this challenge with the shoulder of their rods bellling and flaring out, impacting operational efficiency. Turning to Harlsan for a reliable solution, they leveraged our extensive field experience and reputation for innovative customisation.

Harlsan identified that by increasing the skirt width of the rods in the box end, the gap between threads could be reduced, resulting in an exact fit and a more robust drill string. This modification improved stability and durability without requiring any other changes to the rig.

To ensure accuracy and quality, Harlsan utilises rigorous checks using hardened and calibrated master gauges. This commitment to precision guarantees reliable and repeatable thread profiles for our customers.

By closely collaborating with our customers and applying our in-field expertise, Harlsan continues to deliver tailored solutions that enhance operational efficiency and meet specific needs.

Outcomes:



Only minimal change required:

A slight modification to the box thread design of the rod made the whole string more robust and stable. Threads matched up more precisely.



Improved rod stability and drill string durability:

The more accurate thread lock also improved durability in the rig, with a noticeable improvement in drill string life.



Rigorous thread quality assurance:

With rigorous checks in place, the modification is repeatable and can be applied to all rods and rigs going forward, assuring accuracy and durability on every drill string.

AT A GLANCE

Challenges:

- **Drill Rod Distortion:**
The customer was experiencing bellling at the box end of the rods, impacting operational efficiency and rig productivity.
- **The Thread Fit Was Inexact:**
The skirt in the box end of the rods was too narrow, creating a gap that prevented a precise fit for this thread type.
- **Premature Wear:**
Durability was a problem impacting performance and costs. Instability resulting from an inadequate fit between the threads affected other components.

Successes:

- **Accurate Thread Match-Up:**
Rig stability is enhanced across the board, improving production efficiency and safety.
- **Calibrated Checks Mean Repeatability:**
Hardened gauges and calibrated gauges mean that accuracy and quality are assured every time.
- **Customer-Centric Customisation:**
Harlsan's commitment to finding the best solution, with minimal disruption to the customer, greatly improved drilling efficiency.

Your rig, optimised.

Harlsan's world class equipment and innovative engineering combine to optimise your rig's profitability and make ongoing maintenance quicker, safer and easier. Our setup is game-changing and we will work closely with you to ensure a seamless integration.

Threads



YOUR SETUP	For example	Notes
Rig Make & Model		
Drill String Size		
Thread Used		
Inner Tube Configuration		
Current Issues		
Further Detail		



Get in touch today to discover how Harlsan can improve your drilling efficiency:
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