CASE STUDY | TUR-H | OFFSHORE

CENTEK
excellence to the core

# NORWAY, NORTH SEA

## UNIQUE WELL DESIGN CHALLENGE FOR CONDUCTOR STRING

| | |
|---|---|
| **Region:** | Offshore Norway |
| **Location:** | North Sea |

| | |
|---|---|
| **Country:** | Norway |

## THE CHALLENGE

A complex well design in the North Sea presented a unique challenge for a Norwegian operator. The well required a 26" hinged centralizer that could pass through a 30" wellhead restriction and then expand effectively to operate in a 32" open hole—a demanding configuration that off-the-shelf solutions couldn't meet.

With a high-stakes environment, the operator needed a bespoke solution which could work with oversized casing couplings and which wouldn't compromise performance.

## THE SOLUTION

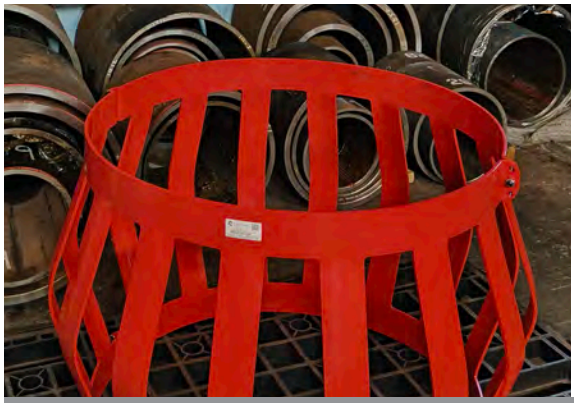
Our engineering team responded quickly to the customer request, designing a tailor-made TUR hinged centralizer.

Leveraging our advanced in-house modeling tools and simulation techniques, we replicated the downhole environment and ran simulations to validate the design before manufacturing.

Backed by extensive in-house testing, we confirmed the unique hinged TUR's ability to pass through the tight restriction and expand correctly in the larger bore section.

Purpose-built for a specific operational challenge, the final product included:

- Tailored design to meet the application with pinpoint accuracy
- Deployment to meet the customer's timelines
- Performance validated in real-world simulations and in-house testing



### TUR Under-ream hinged bow spring centralizer

- Proven tool for under-reamed sections
- Dramatically reduced initial insertion forces into previous casing
- Reduces restart force on RIH
- Reduced running force and drag, saves rig time on RIH
- Non-welded smooth bow profile overall
- Integral bow design for increased strength and performance
- Zero weak points

## THE RESULT

Since development, the centralizers have been installed on 24 conductor strings for a batch drilling project.

During the first job, the operator suspected a tight hole near TD and initially removed the bottom two centralizers as a precaution. After review, the customer went onto reinstall them and proceeded with the run.

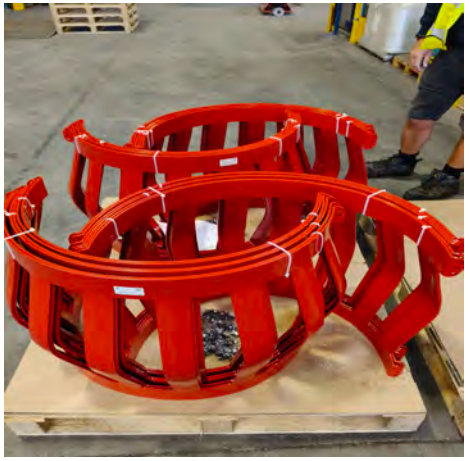
All 24 conductors were successfully run to depth with no RIH (run-in-hole) issues.

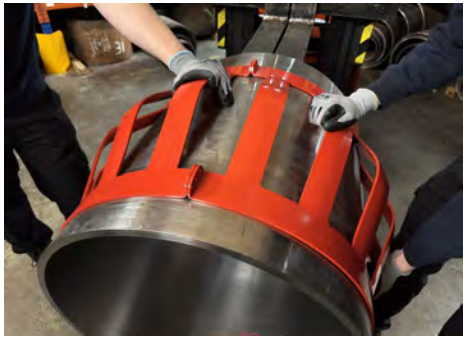
Centralizers performed as expected with no signs of drag, hang-up, or tight hole complications.

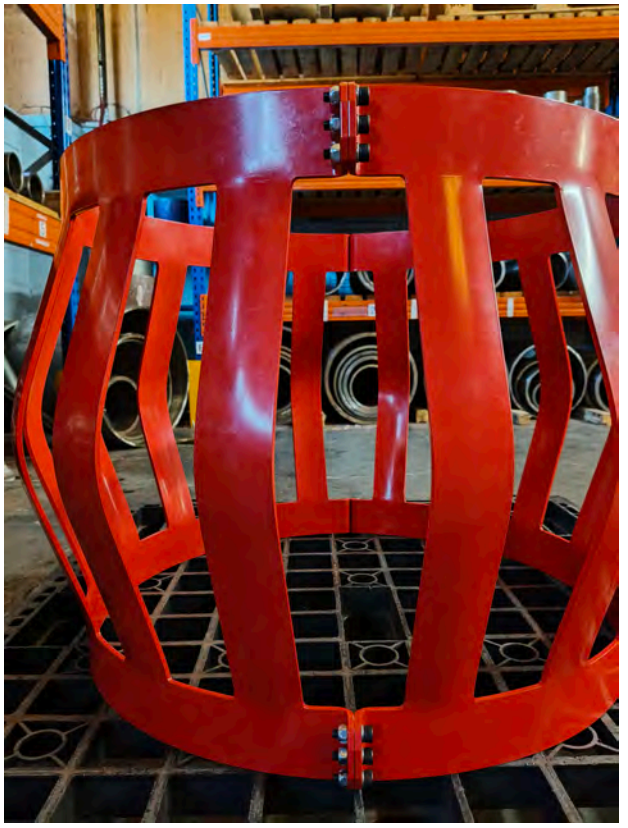
The trial confirmed that even with concern for a restricted section, keeping the full complement of centralizers in place ensured consistent, safe casing running.

The use of 26″ centralizers on conductor casing has proven effective and trouble-free across multiple runs. Operators noted no issues with centralization or RIH, reinforcing confidence in the design for large-diameter, near-surface applications.

**This case study demonstrates Centek's ability to solve complex downhole challenges, without compromising quality or performance.**







> "24 conductors run in hole with no issues"
>
> Customer testimonial

EXCELLENCE TO THE CORE


For information on Centek products or more case studies go to:
W centekgroup.com

Centek Ltd
T +44 (0)1626 337636
E sales@centekgroup.com

Centek Inc
T +1 405 219 3200