

ADVANCED DRIVE SYSTEM RETROFIT FOR OFFSHORE RIG

Transocean Nautilus: Enhancing Offshore Drilling Capabilities



CLIENT OVERVIEW

- **Client:** Transocean
- **Industry:** Oil & Gas
- **Focus:** Offshore drilling rigs and drillships

CHALLENGE

Transocean required an upgrade for several rig position anchor-winch drives that had become obsolete and were reliability risks. The upgrade needed to be executed in a challenging environment below the waterline, with strict requirements for equipment handling and space constraints.

NSA'S SOLUTION

Innovative Packaging: NSA designed the drive system's packaging to be modular, allowing for transport in small elevator shafts and reassembly on-site like puzzle pieces.

Custom Environmental Solutions: Included a custom-packaged air conditioner as part of the drive sections to ensure proper environmental control within the assembly.

Seamless Integration: Carefully engineered to match the existing system's physical footprint and connection points, significantly reducing installation time and potential for errors.



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RESULTS AND IMPACT

- **Operational Efficiency:** The solution allowed for drive replacement while the rig was operational, avoiding downtime and potential revenue loss.
- **Enhanced System Reliability:** The new drives provided improved reliability and are expected to be supported well into the future, ensuring long-term operational stability.

CLIENT TESTIMONIAL

"Thanks to NSA's tailored solution, we successfully upgraded our system with minimal disruption, enhancing our rig's operational capabilities."

- *Engineering Manager, Transocean*

CONCLUSION

- This retrofit demonstrates NSA's ability to deliver highly customized solutions that meet strict technical and environmental requirements, ensuring client operations continue smoothly and efficiently.

