

# TRENDSETTER VULCAN OFFSHORE (TVO)

## The Deepwater Design Factory

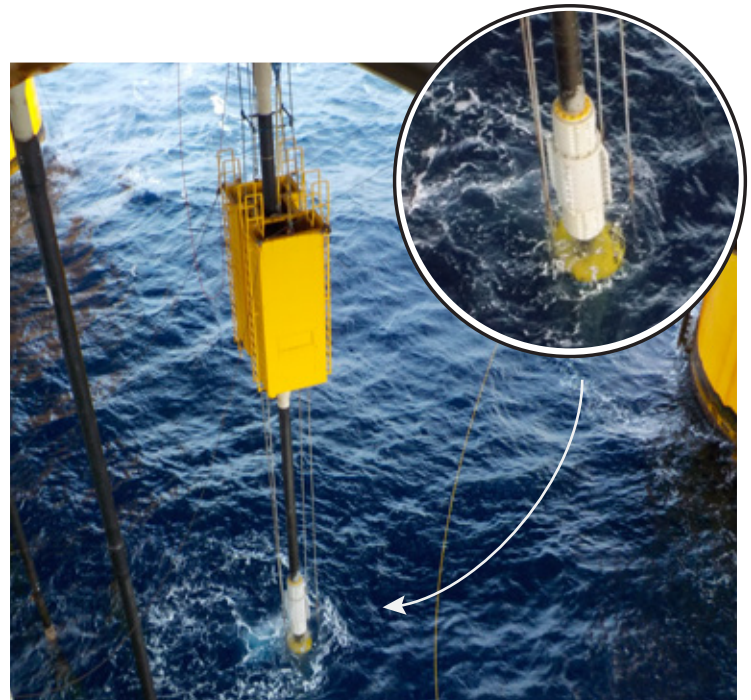
Trendsetter Vulcan Offshore (TVO) is a specialized marine riser company with a focus on developing key innovative technologies to enable offshore field developments. By integrating the latest industry technology available, TVO develops practical, fully functional and economical engineering solutions for today's offshore industry. For problems that have no apparent solution, TVO systematically develops the concept, manages the qualifications and ultimately delivers the final solution.

At the heart of this deepwater design factory is TVO's team of multi-disciplinary engineers and technologists including mechanical, structural, civil, electrical, instrumentation, subsea and pipeline experts. With this depth of knowledge in hand, it is no surprise that TVO is capable of meeting a customer's specialty design needs through collaboration and experience.

Sophisticated engineering analysis allows TVO to develop industry changing technology such as its patented tethered BOP system. Focusing on understanding and mitigating critical dynamic and fatigue loads, TVO engineers have developed full solutions that incorporate significant data collection and processing and ultimately the load mitigation hardware used offshore around the world.

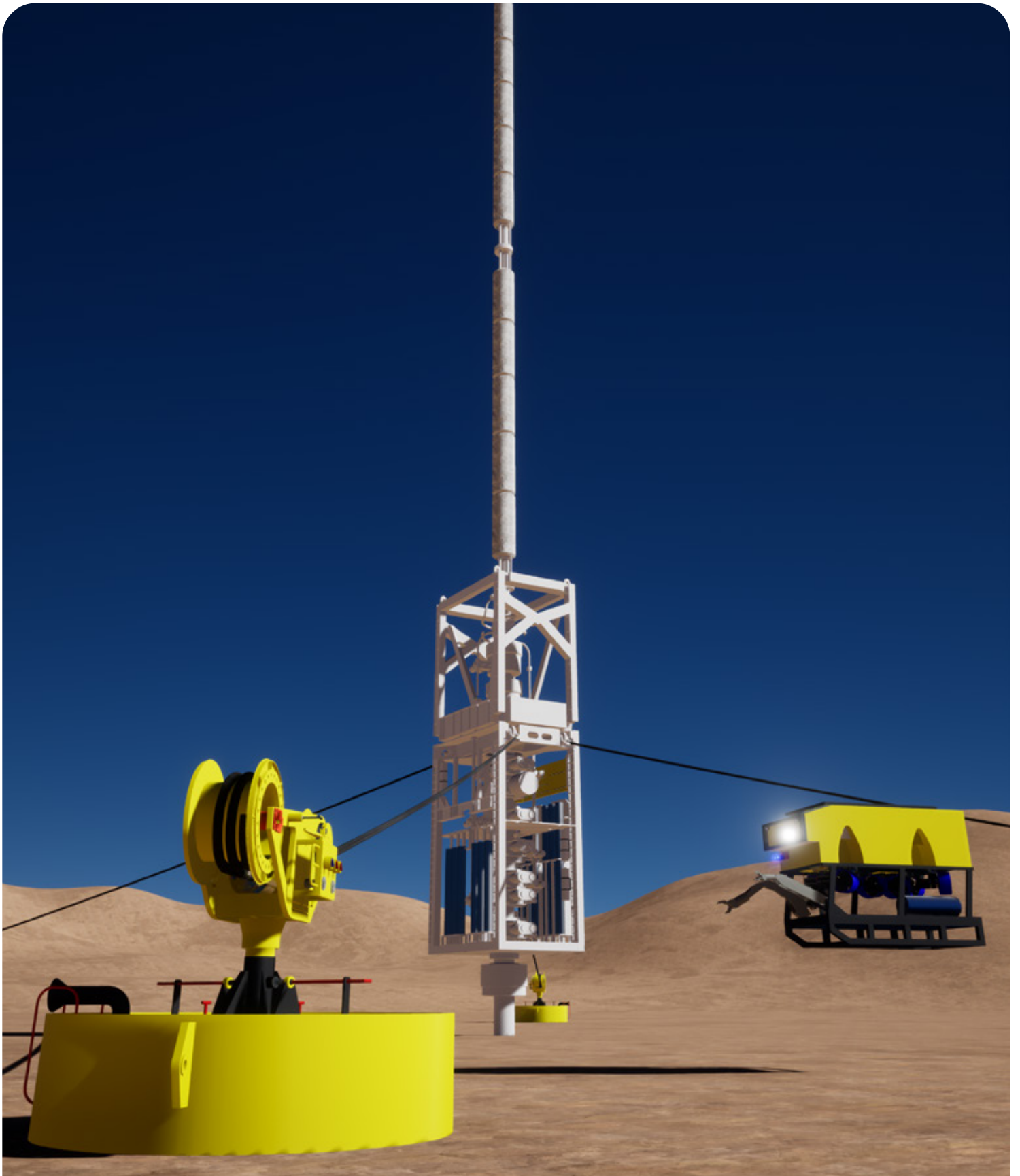
In today's offshore world, understanding data is critical. TVO's engineers know what data to collect, how to collect it and how to transform the data into usable information. TVO has developed riser monitoring equipment and systems that deliver value to customers worldwide.

### HIGH CAPACITY BOP TETHERING UNIT



### KEY TECHNOLOGY DEVELOPMENTS

- ✓ Focused on developing key technologies to enable offshore field developments
- ✓ Floating facilities technical definition, riser Interfaces and life extension
- ✓ Detailed riser design including global riser analysis, fatigue analysis and watch circle definition
- ✓ Riser fatigue monitoring and mitigation systems with automated post processing capabilities
- ✓ Wellhead Fatigue Mitigation System
- ✓ High Capacity BOP Tethering System for Shallow Water DP Operations
- ✓ Specialty riser joints, stress joints and tensioning equipment
- ✓ High pressure/high temperature riser design and specialty joints



TRENDSETTER VULCAN OFFSHORE

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