mjr Power & Automation

CASE STUDY: Marine Installation

Mobilisation of World's Largest Trencher



MJR provided electrical mobilisation for Enshore Subsea's T3200 Trencher, the world's most powerful subsea trencher, for the JD Assister

The JD Assister is a specialised Subsea Construction Vessel, designed for a variety for roles including deep water anchor handling, towing of rigs, subsea and ROV support work, as well as general supply and cargo support operations.

Enshore Subsea contracted MJR Power & Automation to provide the electrical mobilisation of the T3200 Trenching Tractor spread, the world's largest and most powerful subsea trencher, for the JD Assister Vessel.

- 3000A containerised switchboard to allow the three on-deck generators to be synchronised and distribution of power
- Installation of containment and cables between the generators and the new switchboard
- Installation of all medium voltage and low voltage cables to the T3200 2.4MW Trenching Tractor
- Installation of a range of power, electrical and auxiliary supplies for mobilisation of equipment. This included mechanical and electrical work-shops, stores and winches.

MJR Power & Automation

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MJR Power & Automation provided turnkey vessel electrical modification and installation, with the electrical site team spending 14 days (24 hour working) at South Harbour Terminal at Port of Blyth carrying out the necessary electrical work connecting the Assister and the spread.

Scope of Work included:

- Temporary Power Distribution Installation & Commissioning for 3.3kV, 440V, 230V & 110V Vessel Networks
- Design of Cable Management Systems, Cable Penetrations & Cable Schedules
- MV & LV Cable Installation, Termination & Testing
- Integration with Vessel Fire Alarm System and Additional Deck Lighting Installations



The electrical mobilisation of the Enshore Subsea T3200 subsea trencher demonstrates the importance of meticulous planning, expert execution, and collaboration in offshore projects. By addressing logistical and technical challenges, the team ensured the successful deployment of a critical asset, contributing to the advancement of renewable energy infrastructure. The JD Assister is now being used to carry out inter-array cable (IAC) trenching in the United States.







" We are pleased that Enshore Subsea has once again entrusted MJR Power & Automation with the turnkey electrical installation of their T3200 trenching tractor. This is a spread MJR has mobilised many times in the past, which further demonstrates the trusted relationship built with Enshore Subsea over previous successful mobilisations."

Ryan Reilly, Business Development Manager

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