Rotech Case Study
TRS1-LD

Umbilical Post Lay Trenching Ops - Arabian Gulf

Project Overview
Rotech Subsea was contracted by Saipem to support a post-lay jet trenching campaign involving the burial of power-fibre optic cables, flexible pipelines and umbilicals. The scope of work formed part of a broader subsea infrastructure development programme in the Arabian Gulf and required efficient and controlled trenching in technically challenging seabed conditions. The project called for precision tooling capable of delivering reliable performance in variable soil strengths, while maintaining operational efficiency throughout.

The Rotech Solution
Rotech's TRS1-LD (low-draft) controlled flow excavation (CFE) tool was selected to carry out the project works. The TRS1-LD and equipment spread was mobilised on the Mubarak Multicat vessel. The TRS1-LD was deployed to lower each product to one metre top of pipe or cable below the adjacent seabed level. Trenching was carried out with consistent progress at an average rate of three metres per minute.

Results
The TRS1-LD performed to expectations, successfully delivering trenching operations in seabed conditions where undrained shear strengths exceeded 200 kilopascals. Its ability to handle such challenging soils highlighted the effectiveness and robustness of the technology. Rotech Subsea completed the scope of work within the required timeframe, meeting all technical and operational objectives. The project further demonstrated the TRS1-LD tool's suitability for complex post-lay trenching campaigns, reinforcing Rotech Subsea's reputation as a trusted partner in delivering precision excavation solutions in difficult subsea environments.

Project Information
Client: Saipem
Scope: Umbilical Post-lay Trenching
Water Depth: Up to 54m LAT
Soils: Stiff Soils
Vessel: Mubarak Multicat vessel.