

## Case study: Mooring and cable lay for a new LNG terminal



### Overview

Geocean, awarded ACE Winches, an Ashtead Technology company, the contract to supply both the mooring spread of equipment and the cable lay equipment as part of the installation of a new LNG offshore terminal in Wilhelmshaven Germany.

This scope required the delivery of highly specialised machinery and associated services for barge operations. Safety and reliability were needed, with exacting specifications for both equipment and expertise.

### Solution

We approached the project with a packaged solution, handling all stages from design through to on-site implementation, covering an 8 point mooring spread with central control and three 225 tonne Reel Drive Systems to support the installation of the subsea Thermo Composite Pipe bundle.

The scope of supply included:

- 85 tonne working load limit Diesel Double Drum Winches (configured to 40 tonne on the first layer)
- 225 tonne Reel Drive Systems
- 45kW Hydraulic Power Units
- Swivel head fairleads suitable for 40mm diameter wire rope
- Roller box fairlead suitable for 40mm diameter wire rope
- Horizontal sheave suitable for 40mm diameter wire rope
- Running line monitors and support frames
- Bespoke-designed grillages for double drum winches
- Bespoke-designed deck vertical deflector
- 10ft tool container for on-site storage of equipment and tools

### Benefits and value

Our ability to design, engineer, and fabricate bespoke equipment ensured that our customers' exact specifications were met.

The use of our high-performance ACE Winches Reel Drive Systems significantly improved the efficiency of the cable lay process.

We ensured that all equipment and rigging adhered to the strict offshore safety regulations, and our solutions provided a high degree of operational safety.

Through integrated project management, innovative engineering, the provision of reliable equipment, and a skilled team of offshore personnel for 24 hour operations, we ensured that our customer operations were executed safely and on schedule.

