

Pioneering Spirit

Ship type	Pipe lay
Shipowner	ALLSEAS Engineering B.V.
Shipyard	Daewoo Shipbuilding & Marine Engineering Co.



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Main Dimensions

Dwt	499,125 t
GT	403,342
Capacity	Topside lift 48,000t
LOA	382 m
Beam	123.75 m
Draught	19.85 m

Project type	Ship status	Design scope	Delivery year
Newbuild	Delivered	Basic, Detail	2014

Scope of Work for the Shipowner

Basic and detail design, including

- Updating client-provided P&IDs and D&IDs, performing structural design and calculations/analysis for large equipment foundations, supporting structures, and smaller deckhouses
- Electrical and instrumentation (E&I) design, excluding power generation, high-voltage distribution, and propulsion systems, as well as preparing technical specifications for procurement purposes
- A complete TRIBON M3 3D model featuring structures according to updated scantling drawings, openings for windows, doors, and stairs, as well as reinforcements for heavy equipment and penetrations for piping, ducting, and cable trays
- Main mechanical and electrical equipment, equipment foundations, and piping DN 25 and larger with supports
- Ventilation and spiro ducts, cable trays and their supports, deck outfitting equipment such as anchoring, mooring, cranes, and lifesaving gear, and steel outfitting including stairs, ladders, platforms, and railings
- 2D accommodation interior parts, 2D electrical and instrumentation details, calculations, and a cable database

Project Features

- Pioneering Spirit is the largest offshore construction vessel in the world
 - The vessel is designed for the single-lift installation and removal of offshore platforms and the installation of record-weight pipelines
 - The largest-ever TRIBON 3D model by Deltamarin
 - Short engineering time, with up to 300 engineers involved at peak
 - Online access to all project documents via Deltamarin's web-based Document Management System
 - MTOs and weight information available before entering yard discussions
 - Access to the 3D model and the ability to control the detailed engineering phase
 - Handed-over 3D model provides a solid platform for the yard to continue the work
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Additional Information

IMO number 9593505