Modular Construction - Shipbuilding

MEYER WERFT
PAPENBURG 1795



Project Overview:

Client: Meyer Werft

Project: Modular construction

Location: Papenburg, Germany

Date: 2021 onwards

Unit: AR15 (WLL 15 tonnes)

Usage: Controlling the orientation of pre-assembled modules during ship builds.

Precise remote control led orientation

Meyer Werft is one of the largest and most modern shipyards in the world. Meyer Werft uses modular construction processes to build its cruise ships. Each cabin module is pre-assembled on the ground, lifted using a supporting pallet and then brought up against the vessel to be guided off and into the ship.



Previously this operation required 4 personnel using taglines up to 50 meters long to control the modules as they were lifted in the air. The module and support pallet weigh approximately 14 tonnes.

With Roborigger the load orientation is precisely controlled with a single person on the ground. Control is then handed to the team installing the module when the load is adjacent to the location where it is to be installed.

No taglines used

Installing modules is a difficult operation that requires complete control of the load during the lift. The pre-assembled rooms alongside the ship need to be moved over the construction area where there are people equipment and activities that made it awkward for the crew to manage the load with taglines.



The use of taglines during the lifting operation meant the process was slow and there was risk personnel near the load holding the tagline. Roborigger's remote controlled orientation of the modules eliminates the need for taglines, moving personnel away from the drop zone and increasing the efficiency of the operations.