

Public Summary

date December 16, 2019
subject Detailed Requirements (D3.1)

Problem definition

The objective of task 3.1 is to set the detailed requirements for a multi-purpose platform based workboat product family. These requirements are set in the form of main dimensions and key performances which are to be used as input to the design efforts and functional module determination in the following tasks of Work Package 3.

Technical approach and work plan

A brief analysis of main operations, performances and characteristics of the extensive database of designed and delivered workboats by Damen Shipyard Gorinchem has been made prior to selecting the most relevant ones. The analysis has incorporated world-wide delivered vessels for various different markets such as aquaculture support, general marine contracting and environmental protection. The analysis considered only vessels below 500 GT.

Results

From the analysis 7 typical workboat operations have been found:

- Towing
- Inspection, repair and maintenance (IRM)
- Diving & ROV support
- Environmental response
- Research
- Containerized dry and/or bulk liquid cargo transport
- Ro-Ro cargo transport with landing and/or grounding capabilities.

Each one of these operations is linked to a number of requirements such as: number of crew, deadweight, working deck area as well as pulling and lifting forces.

A compromising vessel has been developed with main dimensions encompassing the different requirements of the seven main operations. The platform will serve as base for a family of vessels originated by standardized modifications (e.g. additional accommodation deck) and scaling procedures (e.g. mid ship elongation).

Conclusions and recommendation

The market analysis to be carried out during task 3.2 should indicate whether the current assumed results must be in anyway revised and discussed; additionally, from the results of the



market analysis some conclusions regarding the size of the market share for each operation will be drawn. Finally, after conducting the detailed market analysis this report will be updated if other consecutive tasks reveal new findings.

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