



Design of cable laying system for multipurpose vessel

Engineering of the world's largest multipurpose cable laying vessel

MULTI.engineering was asked by Jan De Nul to assist with the design and engineering of the cable lay system for their newbuild multipurpose vessel Isaac Newton. At that moment the largest cable laying vessel under construction.

SPECIFICATIONS AND CHALLENGES

Jan De Nul asked MULTI.engineering to design the cable goose neck, cable highway, overboard chutes and several foundations for all the supporting material on deck.

Components were designed in Inventor and Finite Element Analyses were performed in Femap. Once design was completed and verified, fabrication drawings were made for all components.



CLIENT

Jan De Nul

- Contractor active in dredging, land reclamation, pipe laying, salvage and installation projects.
- Approx. 6,875 employees.
- Active in 38 countries.
- Family owned.



SCOPE

- Design of cable laying layout and system
- Integration of equipment/foundations into deck structure
- Development of fabrication drawings
- Finite Element Analyses



SERVICES PROVIDED

- Development of design and fabrication drawings
- FEM calculations



TOOLS

Software: Autocad, Inventor, Femap

NO ENGINEERS, NO FUTURE !



RESULT

Because of the familiarity with the project, MULTI.engineering was able to carry out the additional work quickly and effectively.



ADDED-VALUE MULTI.ENGINEERING

With the experience and flexibility of the MULTI engineers Jan De Nul was able to finalize this incredibly challenging task within time.

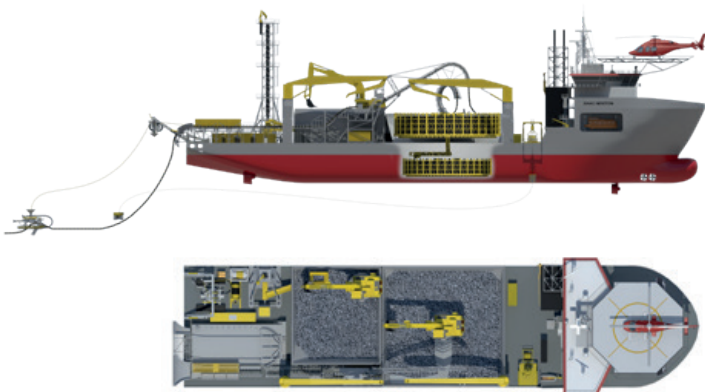


“The exact scope of the project was difficult to determine in advance. MULTI.engineering’s expertise made it possible to gain a good insight into the actual scope, avoiding unnecessary activities.”

– client Jan De Nul

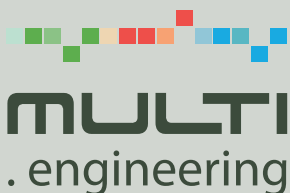
“The “Isaac Newton” has turned out to be a more difficult project. Nevertheless, MULTI.engineering has delivered a good job in the eyes of the Client. Their team was very pleased with the cooperation.”

– Project expert MULTI.engineering



FACTS & FIGURES

- Vessel’s name: Isaac Newton
- DP-2 multipurpose cable layer.
- Owner: Jan De Nul NV
- Delivery year: 2015
- Length: 138 m



MULTI.engineering is an engineering company. We support customers’ success by offering flexible engineering solutions. We have Offices in Temse (BE), Vlissingen (NL), Zwijndrecht (NL), Delft (NL) and Komarno (SK). Working with us is always a great experience!

CONTACT US

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