



## BWTS installation on board bulk carrier

### The challenge

SeaTec and Dania Ship Management in Copenhagen have previously collaborated on a number of ballast water treatment system (BWTS) installation design projects. As a result, Dania awarded SeaTec the full turnkey installation on board the Clipper Triumph, a 30,000 DWT bulk carrier. The vessel was trading in remote regions, with a monthly stop in Singapore.

### The situation

The small bulker vessel, accommodating a maximum of seven berths, was operating on a tight schedule. As a result, there were limited opportunities to load materials and embark crew.

The project consisted of three stages:

- 1) **Engineering:** This stage required a 3D scan of the vessel. The piping installation plan was prepared and isometric drawings for the prefabrication of pipes were completed.
- 2) **Procurement and logistics:** This involved the procurement of electrical materials and the prefabrication of piping and equipment foundations.
- 3) **Installation:** A SeaTec Riding Squad team of mechanics, fitters and welders sailed with the vessel for approximately two months, under the supervision and guidance of a SeaTec project manager.

SeaTec Subsea was later involved during a stop in Singapore for the blinding of shell valves underwater.

### The outcome

Due to the close cooperation between SeaTec's Projects & New Builds department, Riding Squads and the Subsea team, the project was successfully completed within a two-month timeframe. At the same time, additional inspection services, including MPIs, were carried out in order to align with SeaTec's quality standards.

“The success of this project was thanks to excellent cooperation between all parties involved. I want to thank everyone for their efforts in delivering this BWTS installation on time.”

**EMILIO LUPI**  
General Manager, P&NB  
SeaTec

“SeaTec delivered a fully successful project within the given timeframe and budget. It's fair to say that it was an outstanding achievement to reach our goal for this installation, as the vessel continued trading during the installation period.”

**CHRISTIAN BERNHOFF**  
Fleet Manager  
Dania Ship Management Bulk

### Results & impact



# technicians to complete retrofit without any delays or incidents

7



Total days spent at sea on board vessel during installation

60



Minimum disruption to the vessel trading, avoiding loss of hire for owner compared to the dry-dock solution.