

PRESS RELEASE
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SUPER-LOW RESISTANCE HULL FORM DEVELOPED FOR BLUETECH 42

Foreship BlueTech Ltd. and Foreship Ltd. have jointly developed a new super-low resistance hull form for the BLUETECH 42 bulk carrier. The hull has low resistance through the speed range – not only at design speed. This gives the benefit for owners and operators to choose the speed based on their needs, as every speed is ECO-Speed.

Extensive use of in-house RANS-CFD together with innovative and unique design features were the corner stones for the hull form development. Even the smallest details were optimized, but the entire wave formation was the dominating feature of the development.

The hull form was recently model tested successfully at Hamburg Ship Model Basin (HSVA), which is one of the most well-known and experienced model basins in the world. Majority of recent tanker and bulker designs have been tested at HSVA.

The outcome of this development was observed during model tests as the wave formation through the speed range was absolutely minimal and no following waves were observed on the wake of the ship.



Wave formation at stern and behind the ship at 14 knots.

The measured resistance was compared to HSVA database: some designs might be equal around certain speed, but none of them show such constantly low resistance as BLUETECH 42 bulk carrier. These resistance figures ensure solid base for setting a new level in terms of a real through-the-speed-range ECO-design.

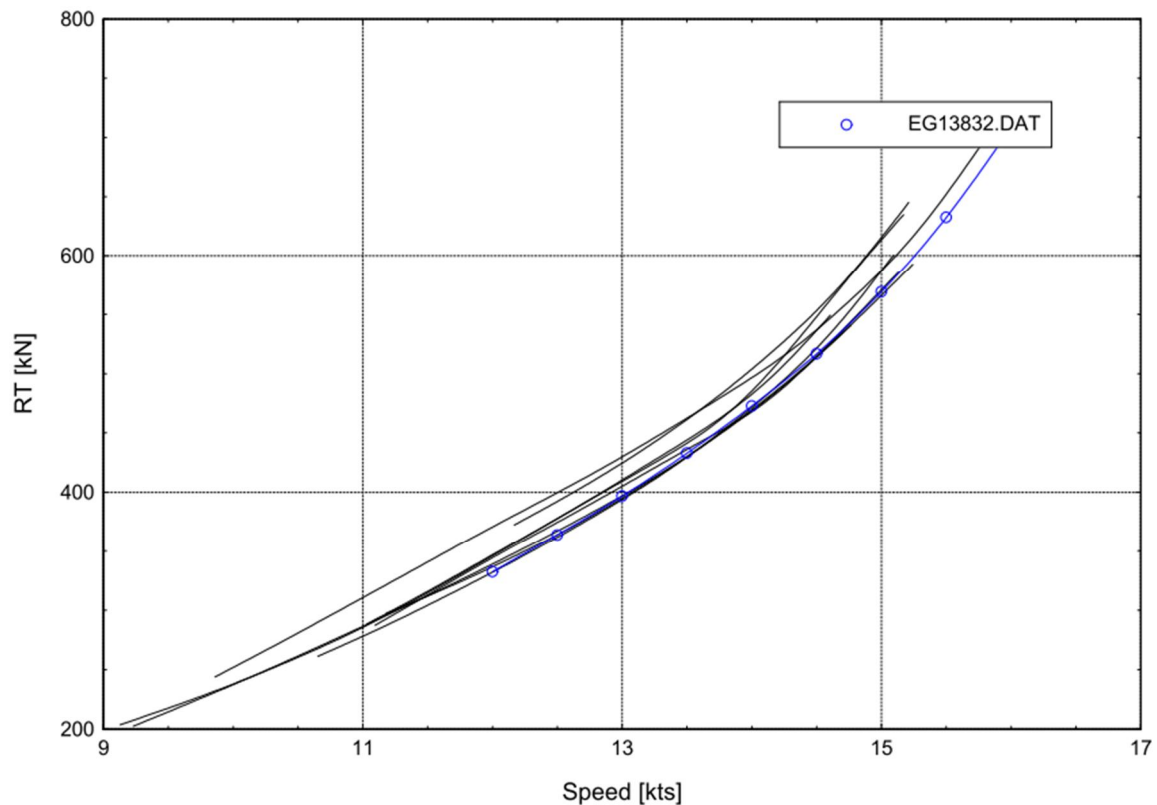
Similar kind of optimization routine and design guidelines can be utilized for all other BLUETECH-series of ships having full bodied hull form.

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Measured resistance compared to the best references of HSVA database. Tested BLUETECH 42 hull presented in blue. All ships have been corrected to the same displacement.

Foreship Ltd.

Foreship is a well-known and highly respected ship design and engineering company providing a broad range of services to the shipping industry. Foreship has approximately 45 employees working on all areas of ship design, including Naval Architects, Marine Engineers, Structural Engineers, Interior Architects, Electrical Engineers and Interior and HVAC designers. Foreship offices are located in Helsinki and Turku, Finland.

Foreship is known for cruise ship consulting, challenging large scale conversion projects, structural engineering, newbuilding concept designs and expert hydrodynamics. Our customers include the largest cruise lines and other shipowners, shipyards and maritime suppliers worldwide. Turnover in 2012 was 4.9 MEURO / 6.6 MUSD.

For more information, visit our webpage at www.foreship.com, or contact senior specialist Risto Ajanko, +358-40-564 5647 or risto.ajanko@foreship.com.

Foreship BlueTech Ltd.

The Company has been founded in February 2013, and is owned by Foreship Ltd. and BlueTech key employees, Foreship Ltd. being the biggest shareholder. Foreship BlueTech Ltd. is specialized in efficient and eco-friendly cargo ship standard designs. Foreship BlueTech Ltd. is located in Helsinki, Finland, in the same location than Foreship Ltd.

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