AT A GLANCE

Marine Propulsion Services

CORE CAPABILITIES

- Propeller performance analysis and design
- Blade and shaft line load prediction and stress analysis
- Derivation of propulsion requirements from tow tank test data and CFD
- High fidelity CFD for detailed flow analysis and design validation
- Shaft line whirl resonance analysis to minimise vibration prior to manufacture
- High fidelity analysis of shaft line bearings and supporting structures to support design
- Shrouded and unshrouded analysis of propeller and propulsors
- 3D CAD model generation from design parameters to enable CFD, FEA and manufacture
Stirling Dynamics is skilled in supporting marine propeller and shaft line development. Providing a range of services throughout the propeller development process we can produce preliminary propeller designs, loads and sensitivity studies for bespoke designs in addition to standard propeller series.

Utilising the latest industry leading toolsets, Stirling Dynamics is able to provide high fidelity modelling of propeller, shaft line and hull flows for design validation of installed propellers and the prediction of operational loads. Our structures team can carry out high fidelity finite element analysis for strength and produce detailed CAD solid models for manufacture.

PROPELLER PERFORMANCE ANALYSIS AND DESIGN

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