Hamburg University of Technology

Institute for Construction and Strength of Ships

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The Institute of Ship Design and Strength at the TUHH carries out structural tests in the areas of breaking strength, material fatigue, load-bearing capacity and fracture mechanics on ship structures and the like. Measurements in the areas of residual stresses, vibrations and behaviour under ice load are also part of the portfolio. All work is carried out as part of research projects or industry-funded projects.

In general, the institute deals with a wide range of tasks relating to the design of ships and offshore structures. In particular, new design methods are investigated in which the structure of ships and rail vehicles is to be optimised in terms of weight. Modern tests in our own laboratory and alternative calculation methods of commercial and in-house origin are applied.

Am Schwarzenberg Campus 4 c
21073 Hamburg
Hamburg
Germany
www2.tuhh.de/skf/

Organisation type
University or higher education institution

Sectors

Employees
10 up to 49

Turnover
n/a

Funding

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About this organisation

Main areas covered	Structural optimisation, Operational stability, Welding and joining processes, Alternative design methods, Alternative materials
Infrastructure	Static tests up to 4 MN, Resonance pulsators up to 600 kN, Drop tower, Refrigeration chambers of various sizes, HPC CLuster
Certifications	
Keywords	Structural optimisation, Structural load tests, FEM
Memberships	

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting			
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

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Contacts

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