

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

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			
<i>Products</i>			
<i>Services & consulting</i>			
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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

Contacts

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