

yachtwerft
meyer ○○○



Yachtwerft Meyer GmbH

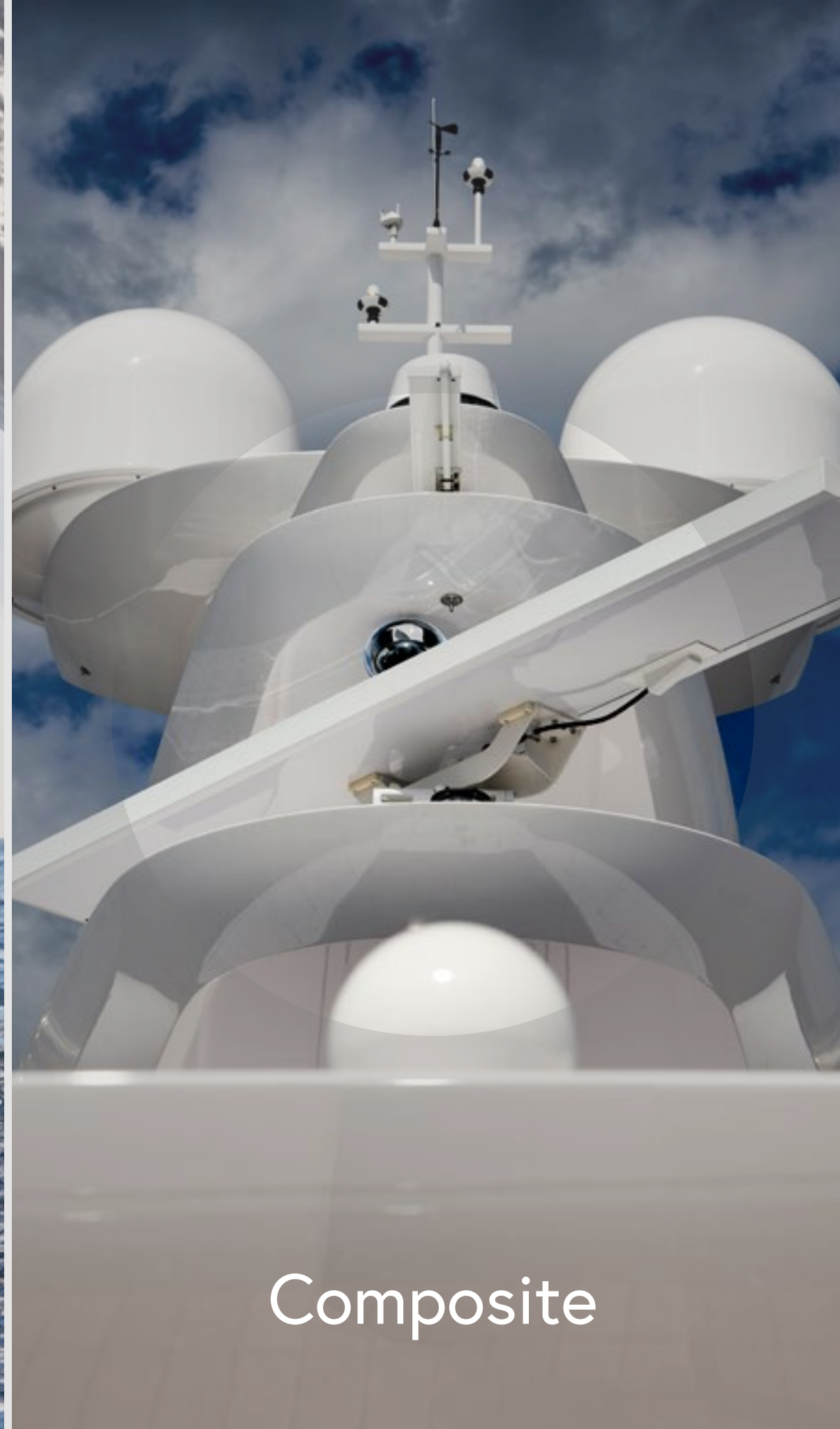
Our family business has been our passion for more than 25 years. With a lot of personal commitment and strength, it has grown into one of the world's leading companies for the construction of tender boats in the mega yacht sector. We have been a reliable partner for authorities and the navy for many years and are valued for our extensive expertise in special boat building.

The personal bond with our customers is important to us, as well as delivering the best possible product.

Our cosmopolitan, international team is together with us the engine for innovation and the motivation to go new ways and to cross borders every day.



Superyachting



Composite



Navy and Authorities

yachtwerft meyer ○○○

- One of the world leading companies for **megayacht tenders**
- Expert for engineering and construction of **complex composite parts**
- Specialist in developement and construction of **special crafts**

40 x Expertise!

3 Engineers

Purchasing

2 Industrial Designer

Accounting

30 Boatbuilders

Sales

2 Foreman

3 Trainees





15.000 square meters of indoor and outdoor space

Design

More than just a question of taste...

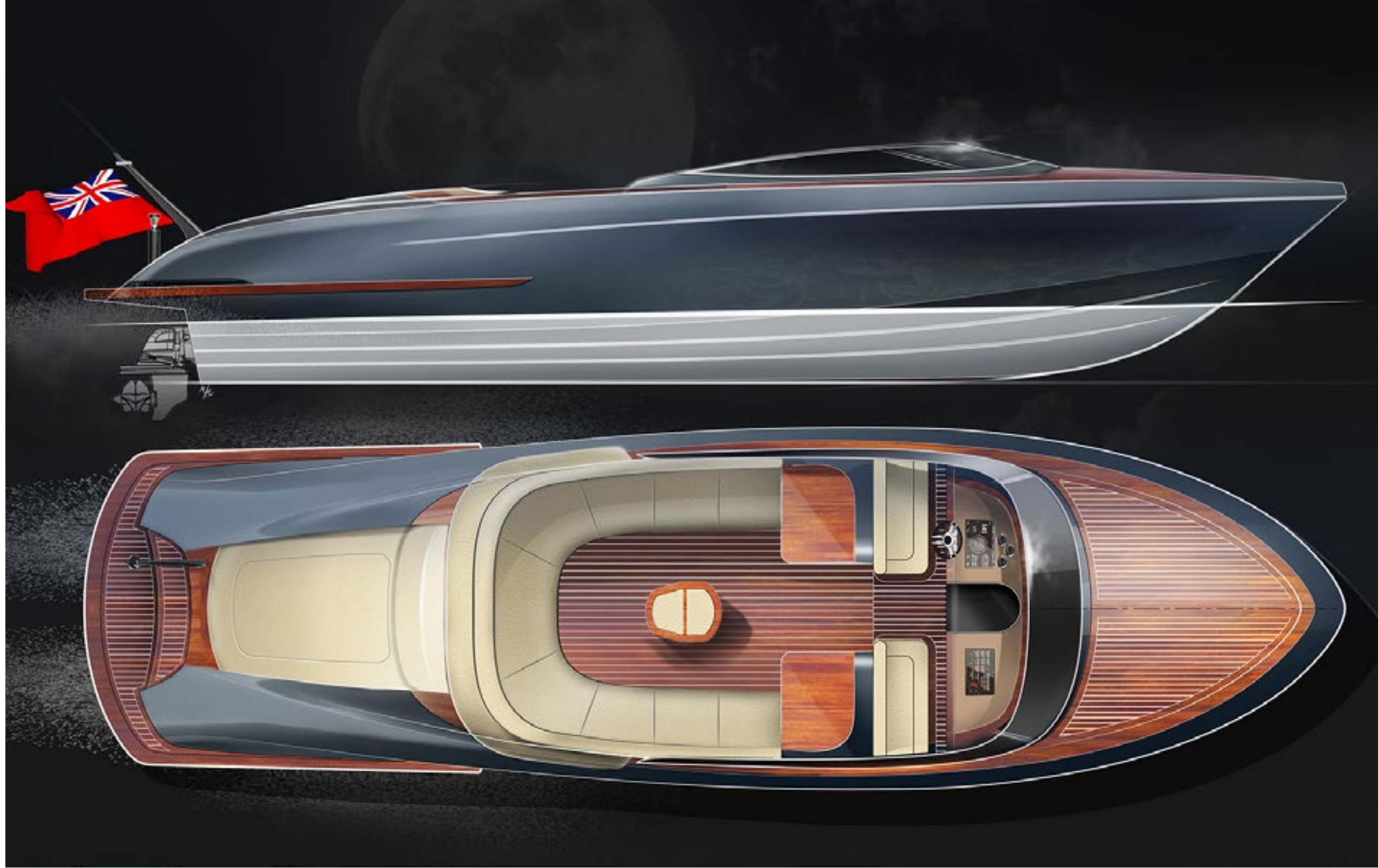
Design

Our clients make a large profit of our experienced inhouse design team...

In close collaboration with our engineering team many outstanding, individual designs are developed for our products.



Design



Design



Design



Design



Design

With attention to detail...

Individual products need sophisticated solutions in detail.

To meet even the most extraordinary expectations of our clients is our daily challenge.



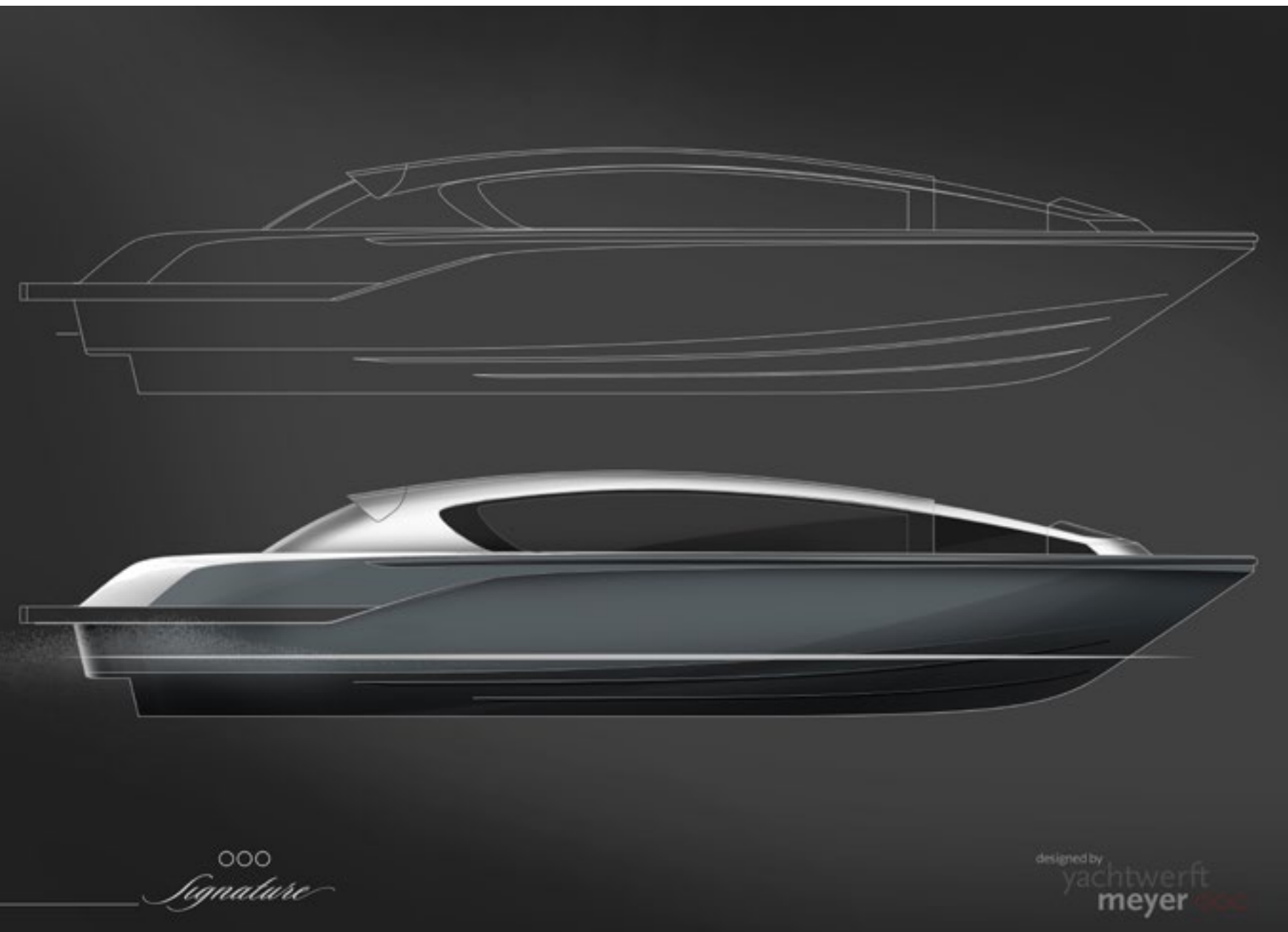
Design



Design



From idea



to product

From idea



to product

Engineering

Trust is good - control is better...

Engineering

Shipbuilding and composite engineering

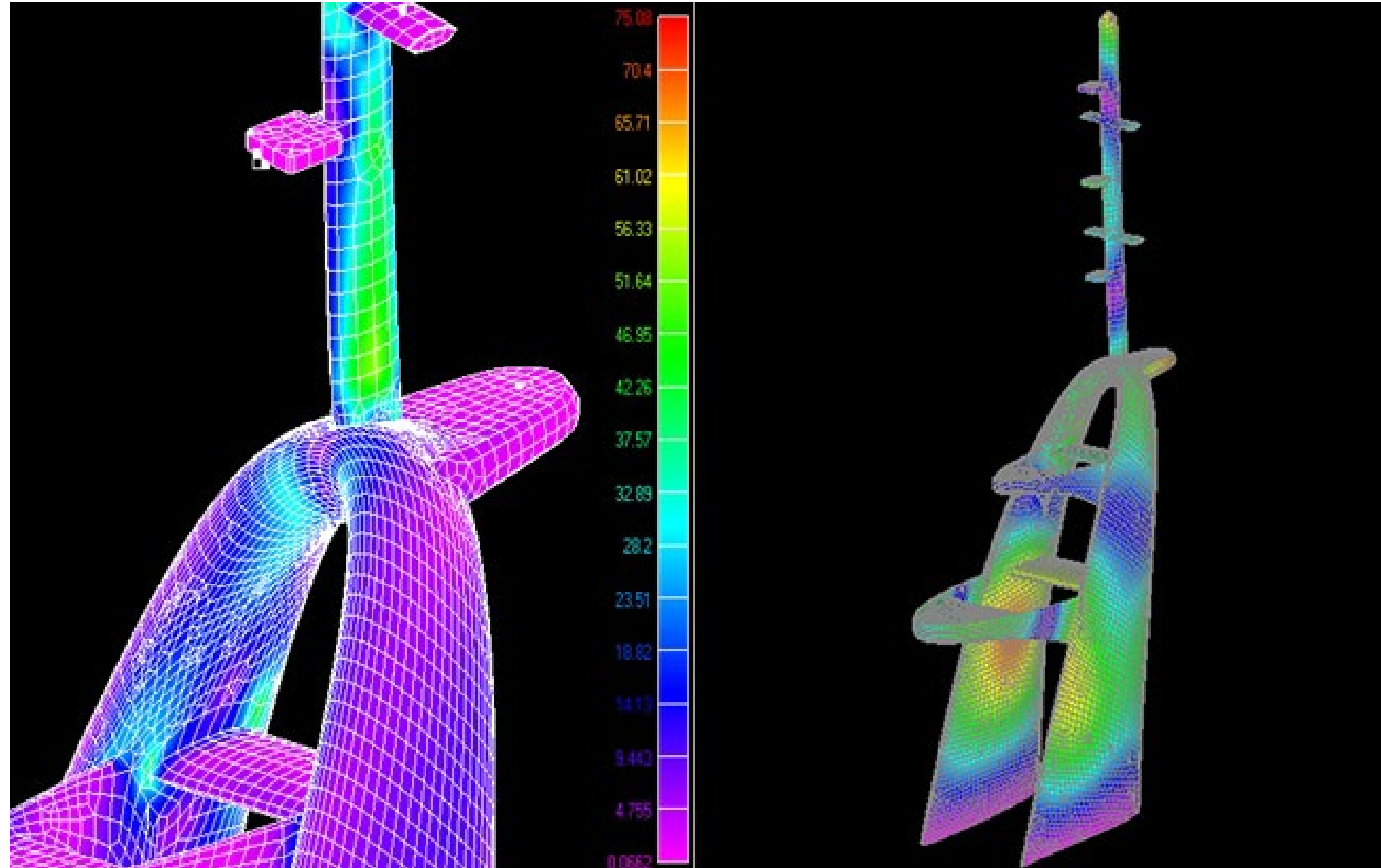
Static and dynamic strength calculations.

Constructions of hangar doors, masts, sonar covers, furniture and much more.

FEM analysis in cooperation with our partner company Fibretech Composites.

Parametric 3D models and 3D scanning.

- Solidworks Professional
- Autocad
- Maxsurf advanced suite
- Rhino 3D modeler
- Abakus (FEA)



Sound Engineering

The sound of silence...

Maximum noise reduction based on automotive values.

- Cabin decoupling
- Optimized engine alignment and ventilation
- Maximum optimized processing of insulation and vibration inhibiting materials

Noise reduction:

up to 66dBA at 40Kn





Tenders

Elegance is excellence in performance...



CUSTOM

SEMI CUSTOM

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Signature

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PERFORMANCE

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SILVERLINE

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CC *LINE*



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Signature



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BOAT
DESIGN &
INNOVATION
AWARDS
2021 WINNER

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ONLINE VIDEO



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PERFORMANCE



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PERFORMANCE



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CC LINE



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SOLAS Tenders

Safety first...



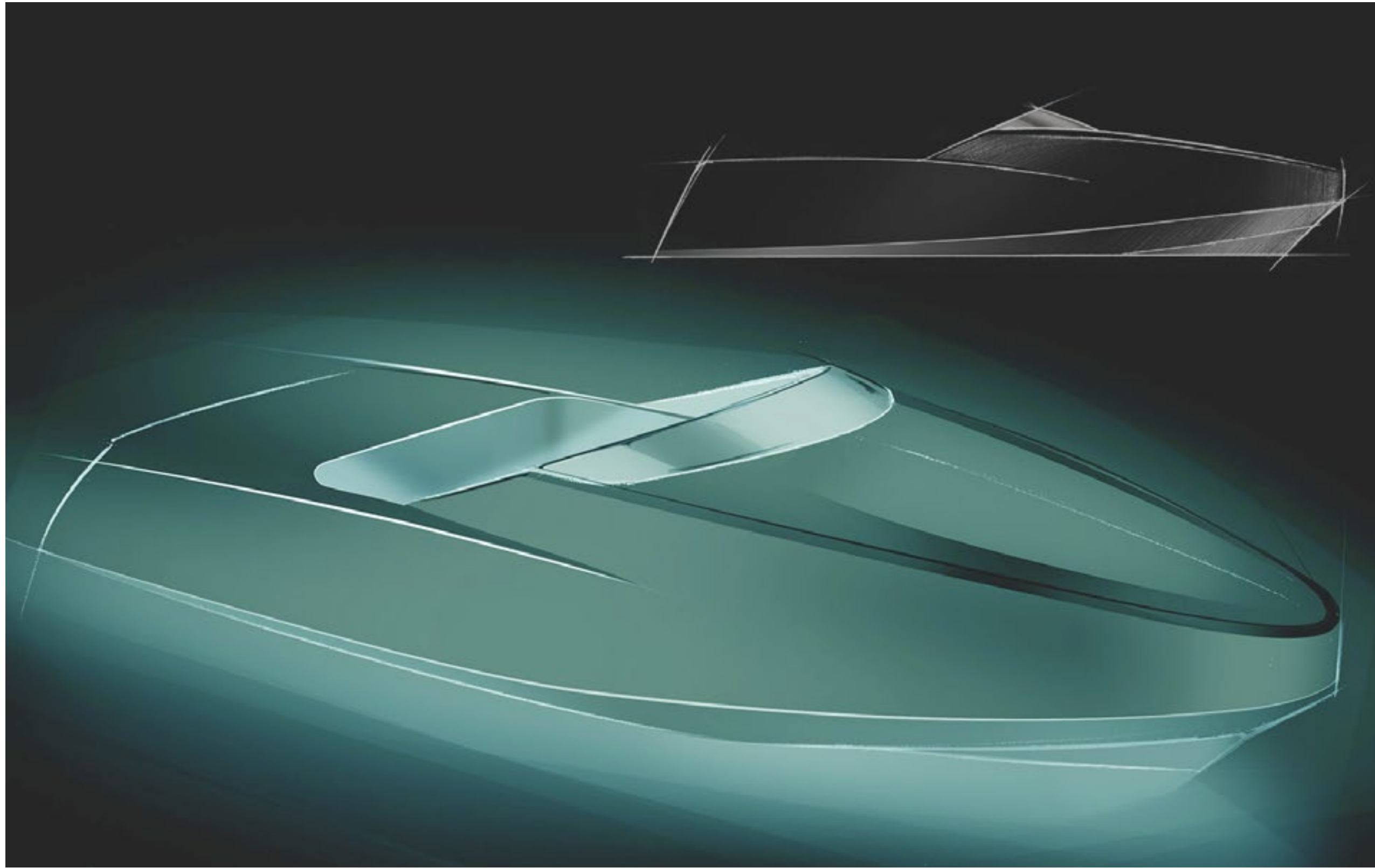




SOLAS

Design Studies

Exklusive, stylish SOLAS tenders.
More than just safety...



Equipment

sophisticated and suitable for daily use...

Equipment

Well thought out, suitable for everyday usage on board.

- Entry aids
- Carbon flagpoles
- Showers - but cool
- Bathing islands
- Whirlpools
- Tender chocks



Equipment



Equipment



Equipment



Equipment



Refit

Facelift for tender boats:

- Engine service
- Electrics
- Paintwork
- Conversions
- Repair



Referenzen

OCEAN
INDEPENDENCE

LÜRSSEN

YCP
Yacht & Cruise Projects

IBD Studios

Y.CO

HILL ROBINSON
YACHT MANAGEMENT

oceAnco

EDMISTON

IMPERIAL

BURGESS

FEADSHIP
ROYAL DUTCH SHIPYARDS

AMELS



FRASER YACHTS



ABE KING & RASMUSSEN



- MY A
- MY Adora
- MY Alfa Nero
- MY Amaryllis
- MY Ancallia
- MY Areti
- MY Aurora
- MY Aviva
- MY Baton Rouge
- MY Bel Abri
- MY C²
- MY Coral Island
- MY Diamond A
- MY Dream Seaker
- MY Eclipse
- MY Elandess
- MY Eminence
- MY Engelberg
- SY Eos
- MY Escape
- MY Event
- MY Grace E
- MY Graceful

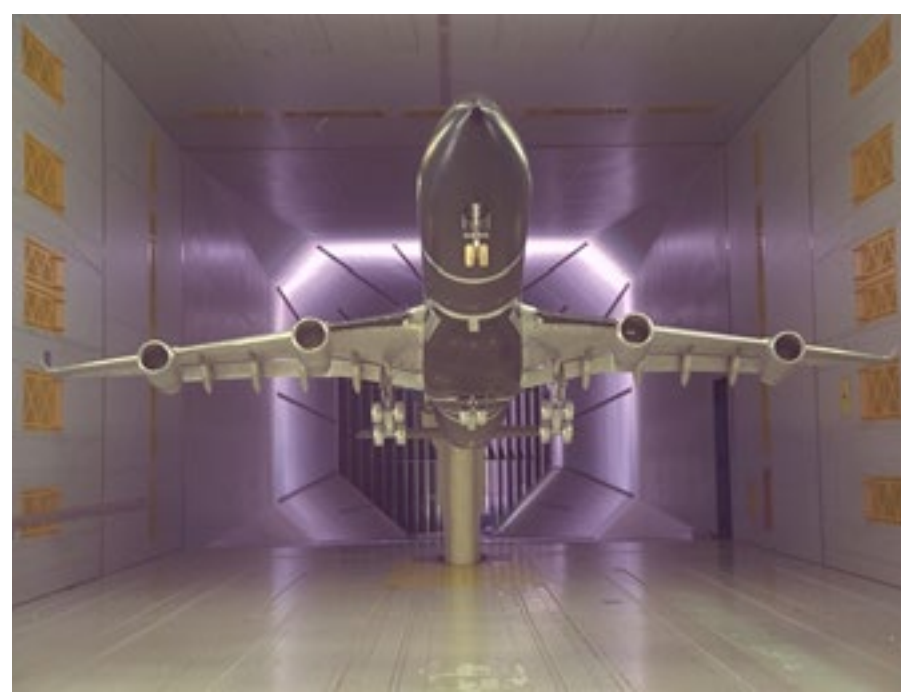
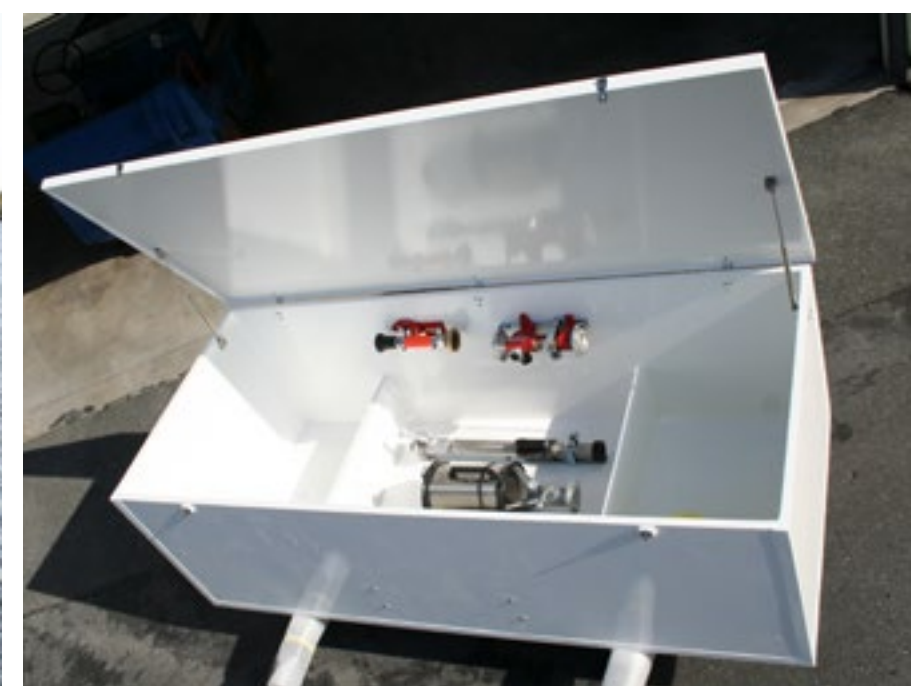
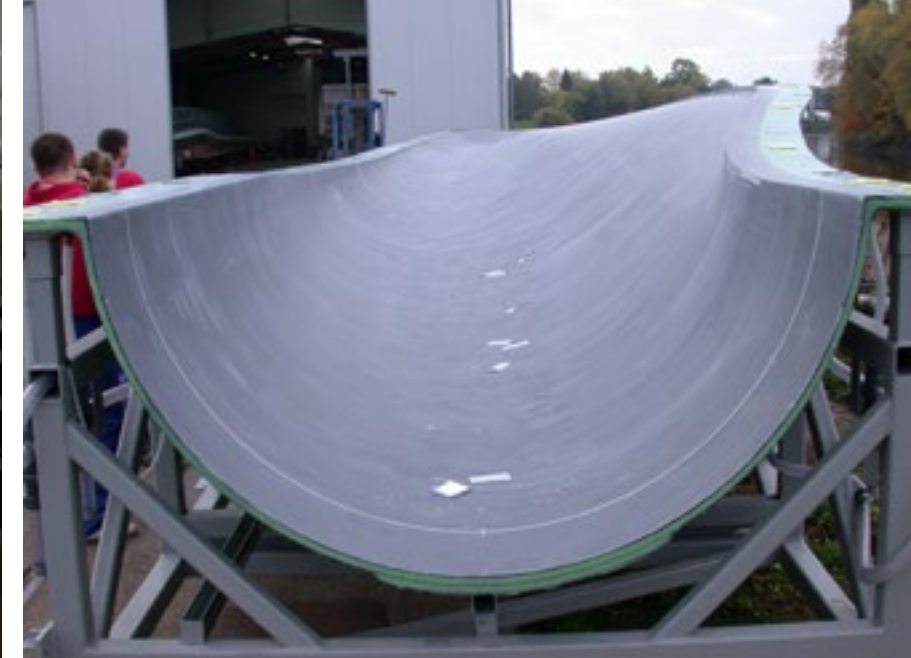
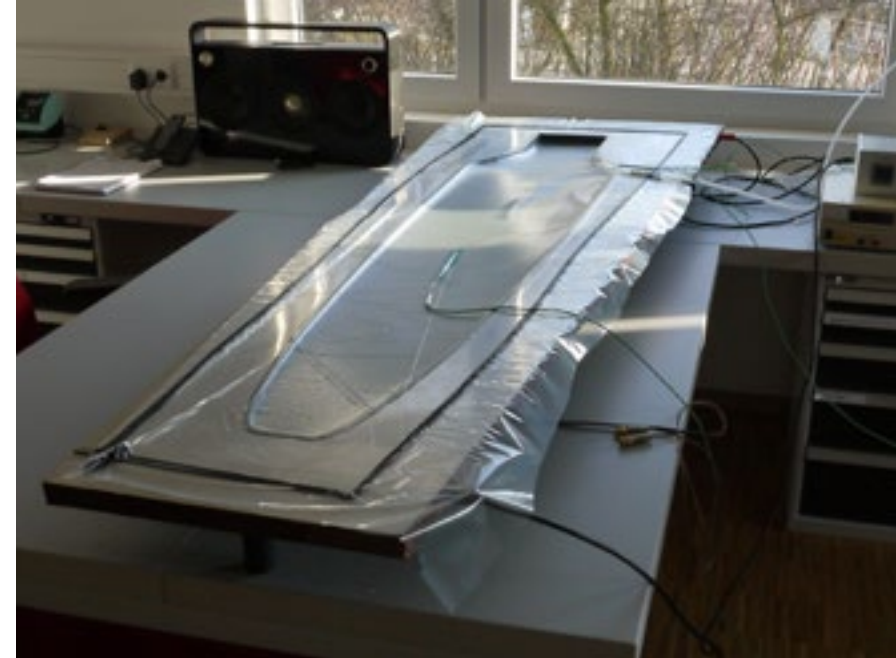
- SY Hetairos
- MY Here comes the Sun
- MY Ice
- MY Imagine
- MY Issue
- MY Jamaica Bay
- MY Jems
- MY Kaiser
- MY Kamalaya
- MY Kogo
- MY Kwikumat
- MY Lady Britt
- MY Lady Christina
- MY Le Grand Bleu
- MY Linda Lou
- MY Manifiq
- MY Maria
- MY Mayan Queen
- MY Mogambo
- MY New Secret
- MY Oasis
- MY Ocean Victory
- MY Pacific

- MY Palladium
- MY Pamela V
- MY Pelorus
- MY Predator
- MY Princess Olga
- MY Radiant
- MY Romea
- MY Sea Rhapsody
- MY Secret
- MY Silver Cloud
- MY Sky
- MY Spirit
- MY Step One
- MY Titan
- MY Topaz
- MY Triple Seven
- MY Trust
- MY Universe
- MY Vega
- MY Venus
- MY Vibrant Curiosity
- MY Zenobia



Composite

The future is lightweight



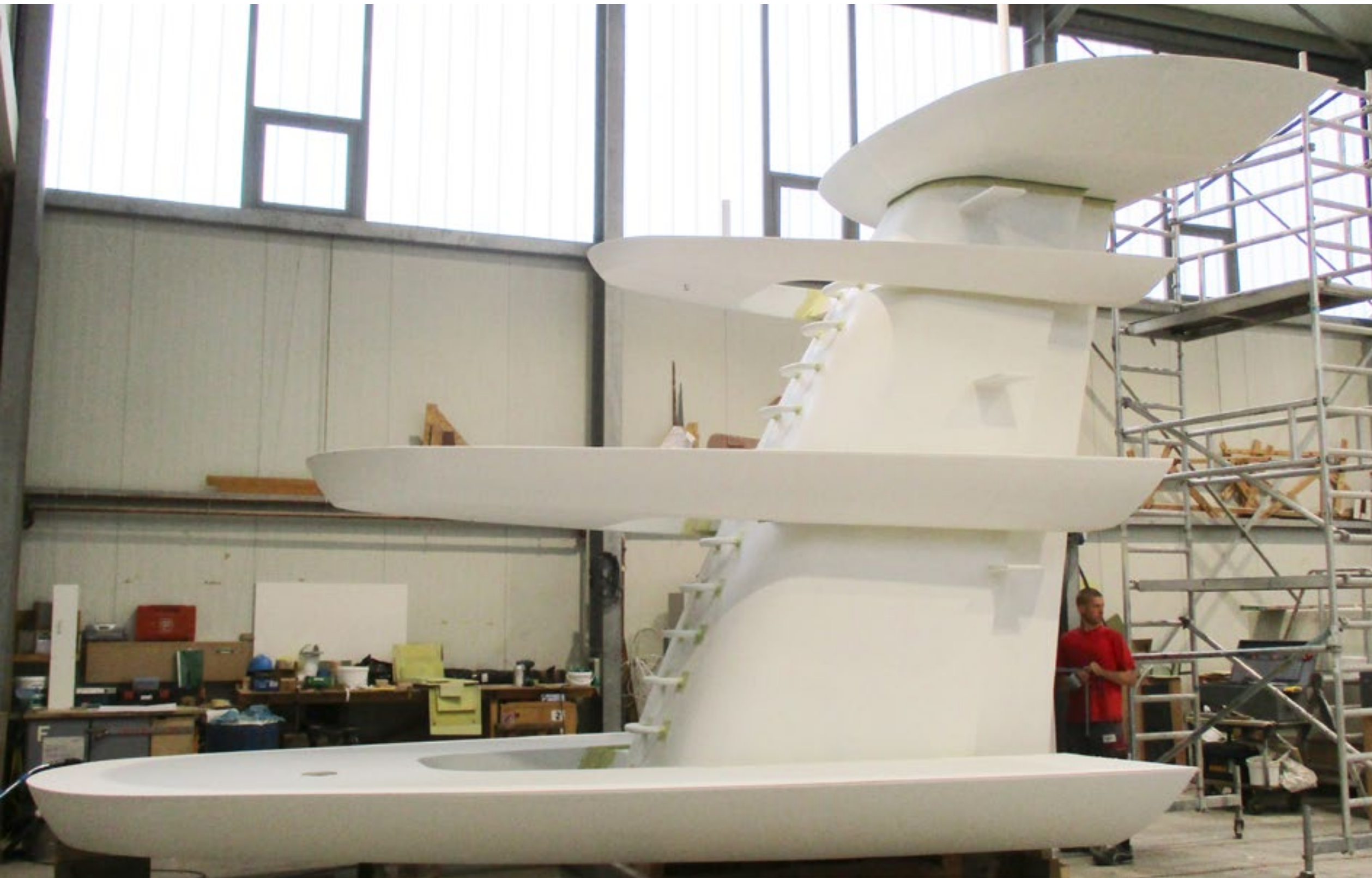




The future is light!

Lightness and strength characterize modern composite components - not only in yacht construction.

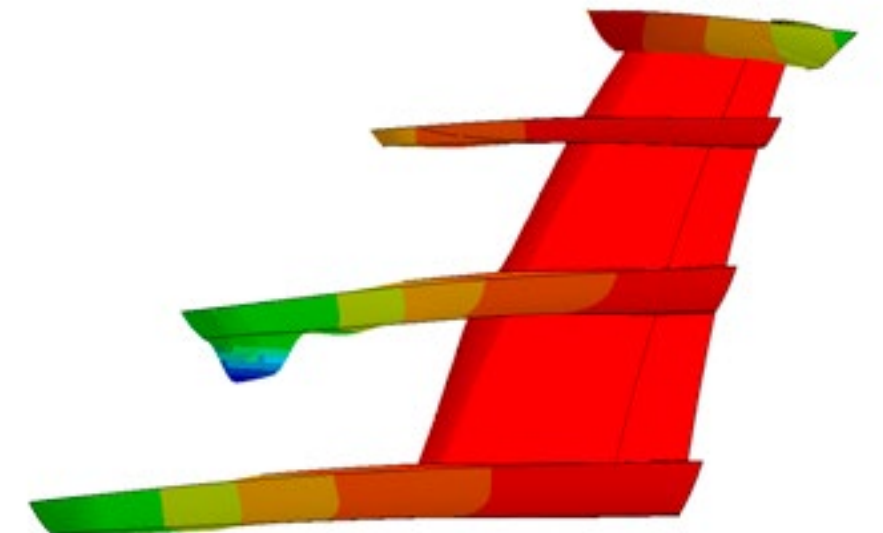
FEM analyzes in cooperation with Fibretech-Composites.



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High-tech on large scale

Design and construction of composite structures from a single source.

Hangar doors, roofs, masts, sonar covers, furniture.

Image: 7 x 10m hangar door for new frigates





High-tech on large scale

Modern construction methods:

- Vacuum technology
- Resin infusion
- Use of heatable construction forms - patented fibretemp system





Composite Solutions for Minehunters

- Sonar tracks
- Covers
- Storing boxes





Operation Consoles

Feasibility studies, new development, design, engineering and construction as well as FEM analysis and Prototyping of operation consoles in CFK sandwich construction.

Leightweight and shock proofed construction.



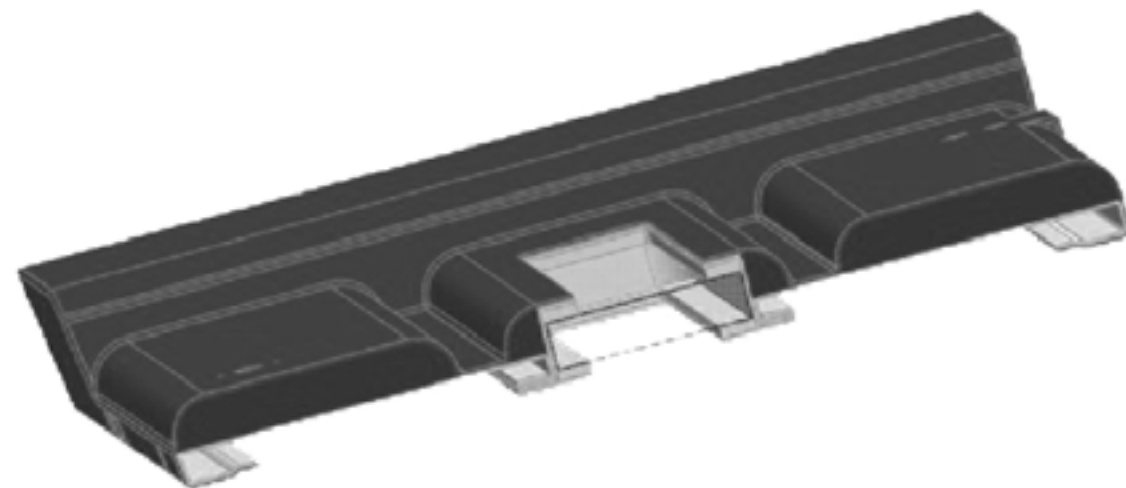
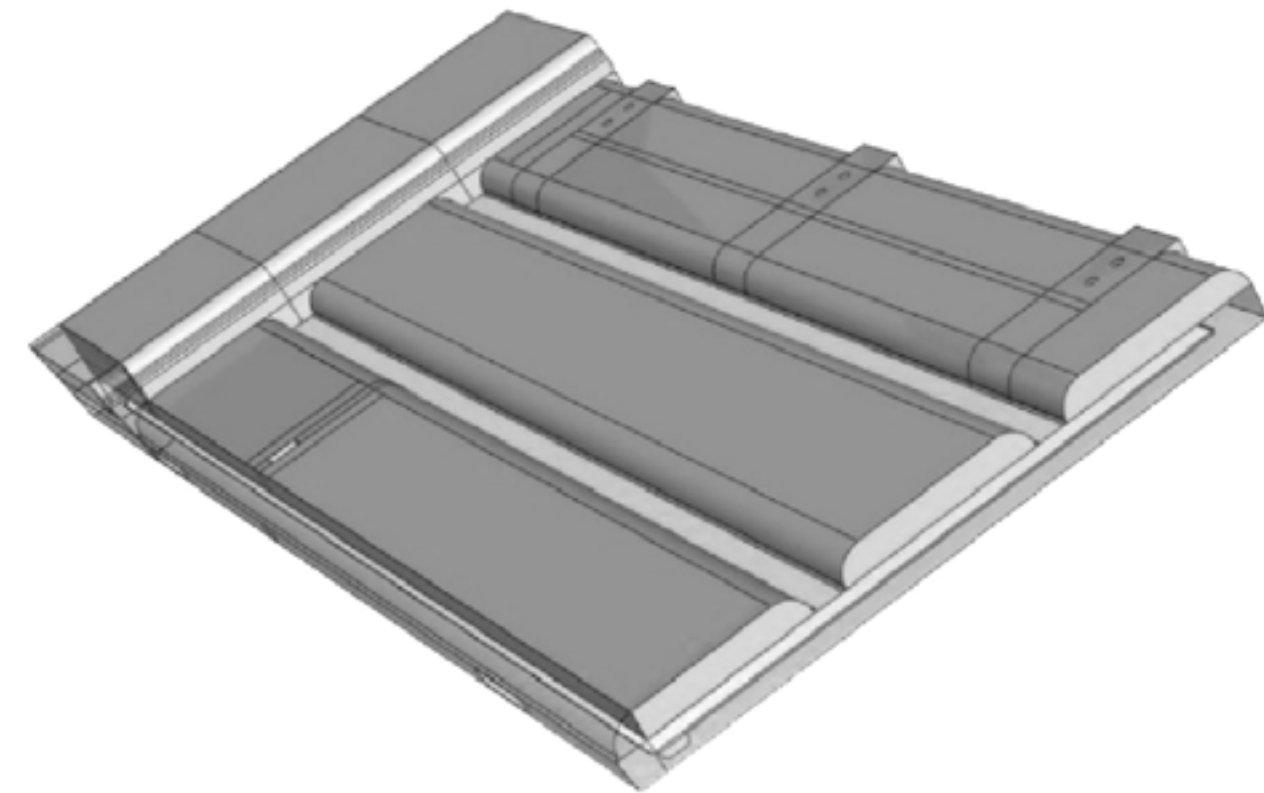


Yacht structures

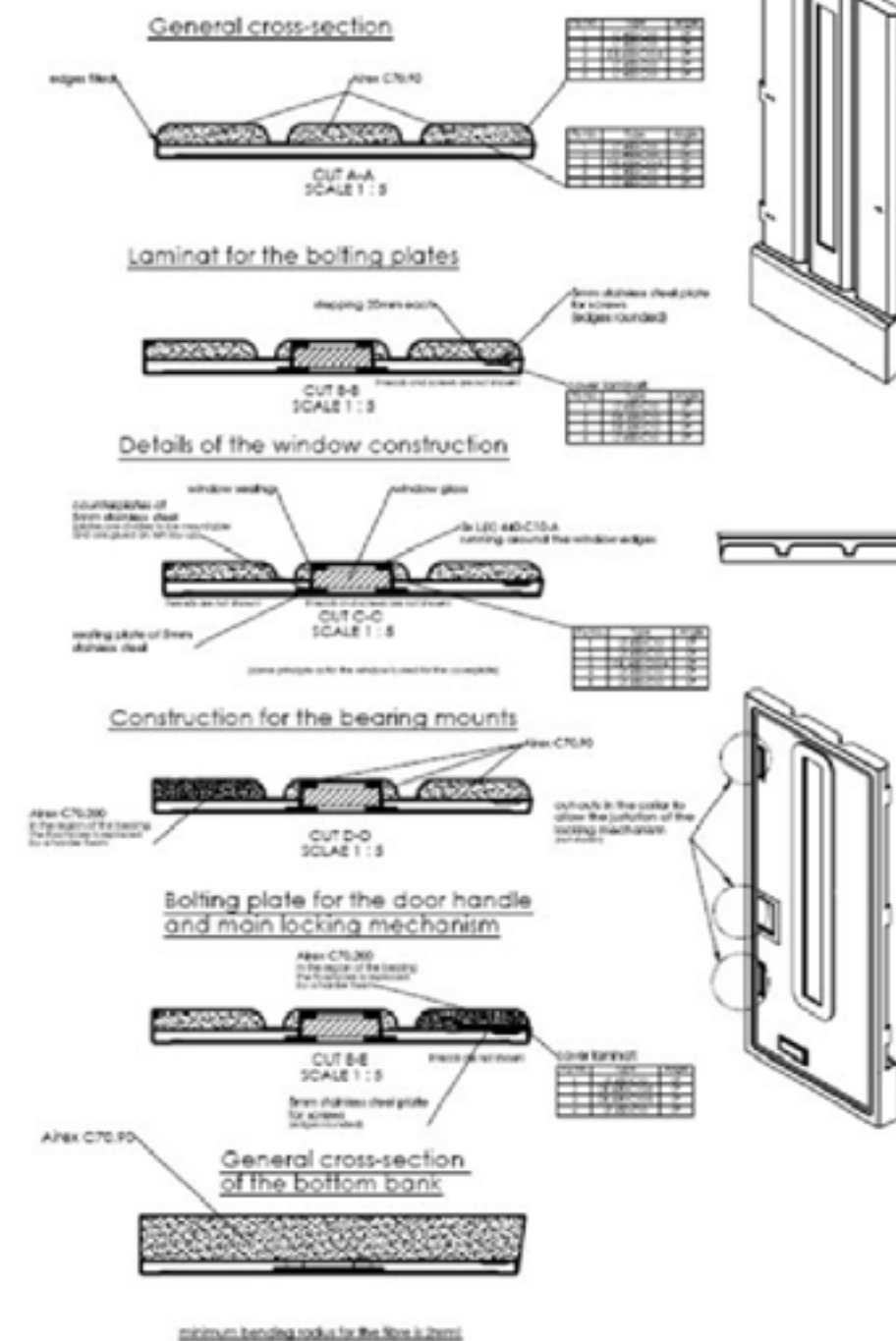
in composite construction

Perfect solutions for extraordinary
concepts!





The Doors For My Eclipse



Yacht components

built in composite technology

Doors M/Y Eclipse

Design, engineering and construction of exterior composite doors

Substantial weight reduction compared to planed aluminium doors

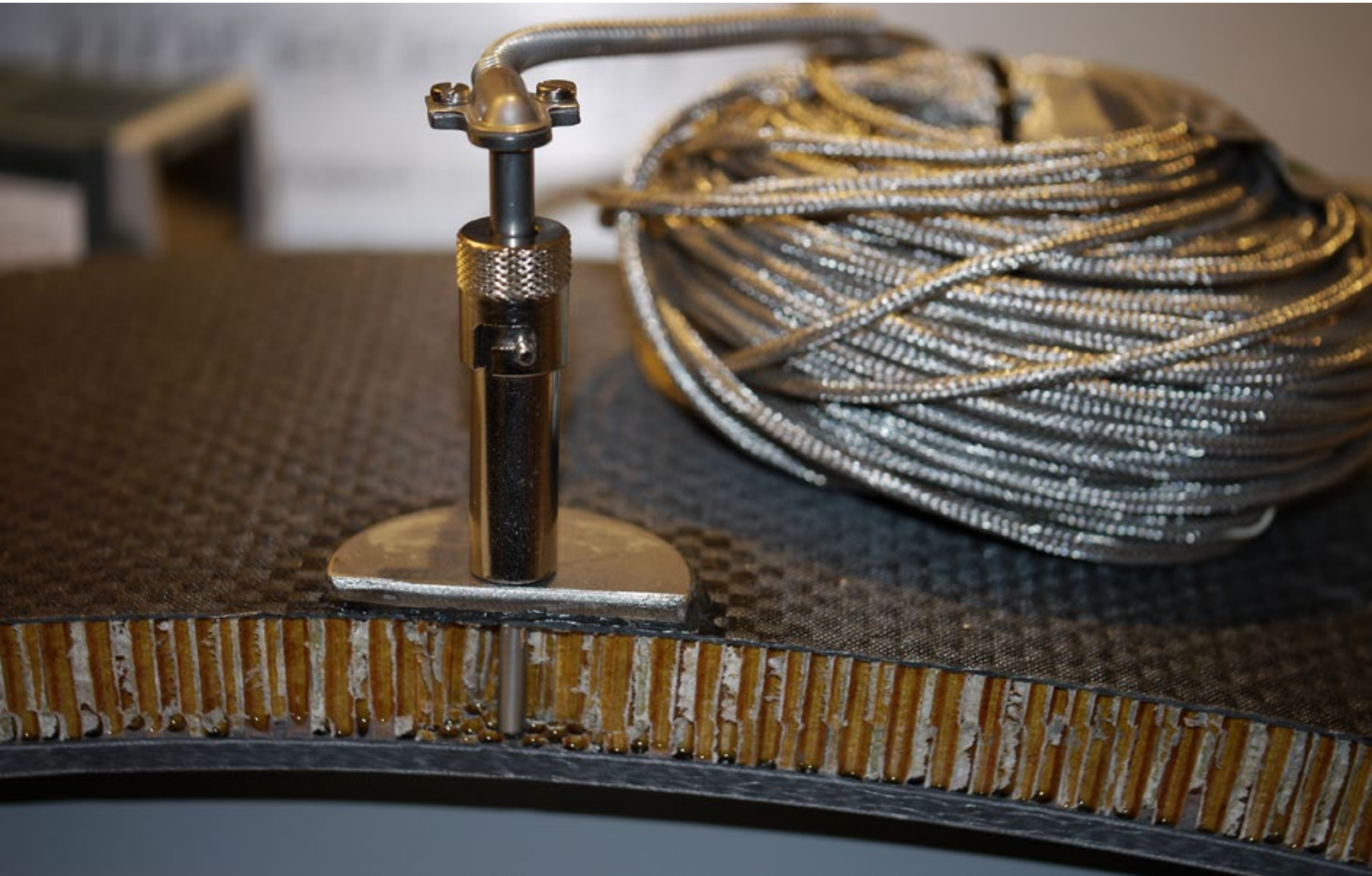
LRS Certified



Testing Laboratory

If we want to know for sure...

- DSC analysis according to ISO 11357-1
- Determination of the glass transition temperature of thermosetting plastics
- Quality assurance dielectric measurement
- In situ measurement of the degree of hardening of thermoset matrix materials
- tensile, compression and shear tests
- Target / is comparison of laminates
- Construction parameters



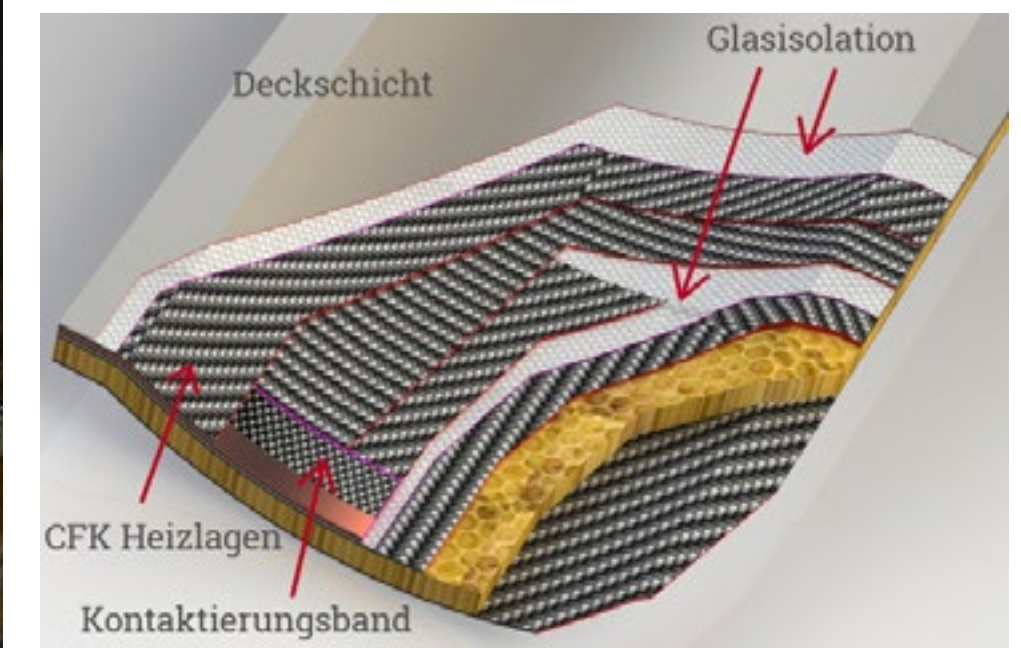
Fibretemp®

The integrated temperature control

The fibretemp® system is an innovative, energy efficient temperature control system for molds in fiber composite production.

fibretemp® in cooperation with Fibretech-Composites.

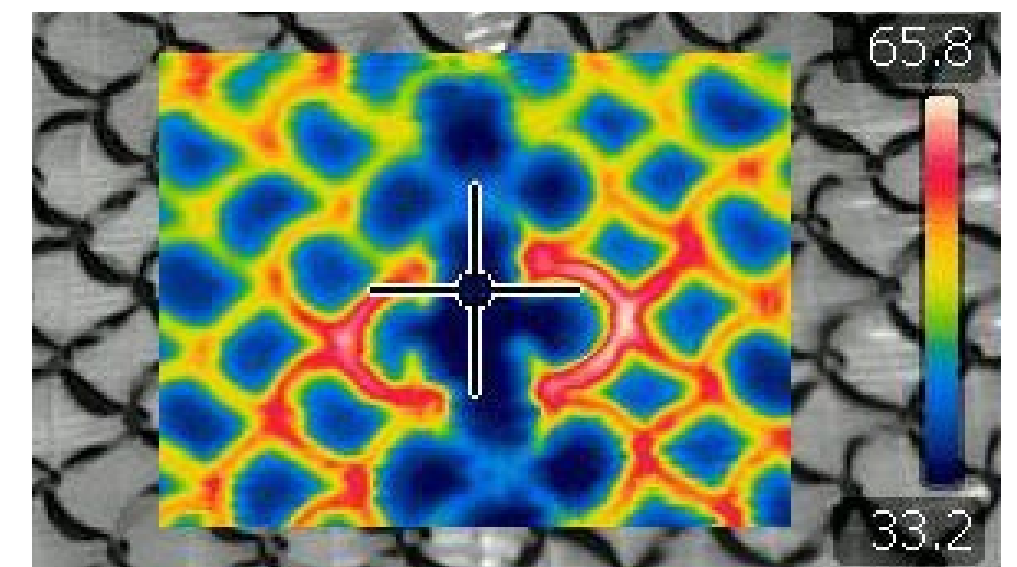
A worldwide patented system. Winner of JEC Award in Paris.

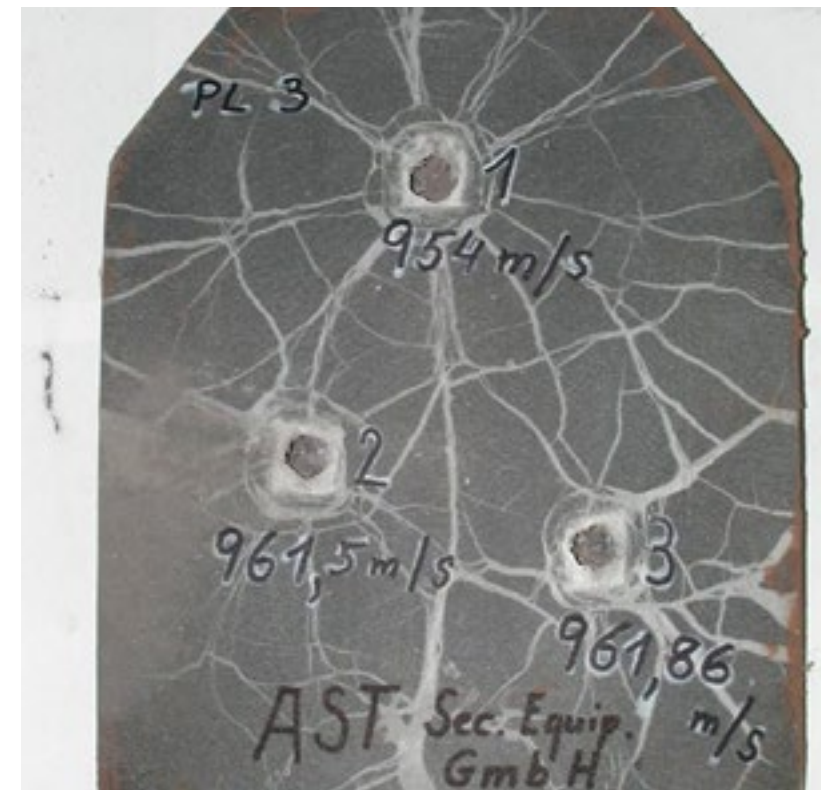




Fibretemp®

- Integration of heating element into the mold structure
- Very even temperature distribution
- Integration of the carbon resistance heating into the mold structure
- Energy savings of up to 90% compared to external heating
- Temperatures up to 200°C
- Realization of heating zones of different temperatures

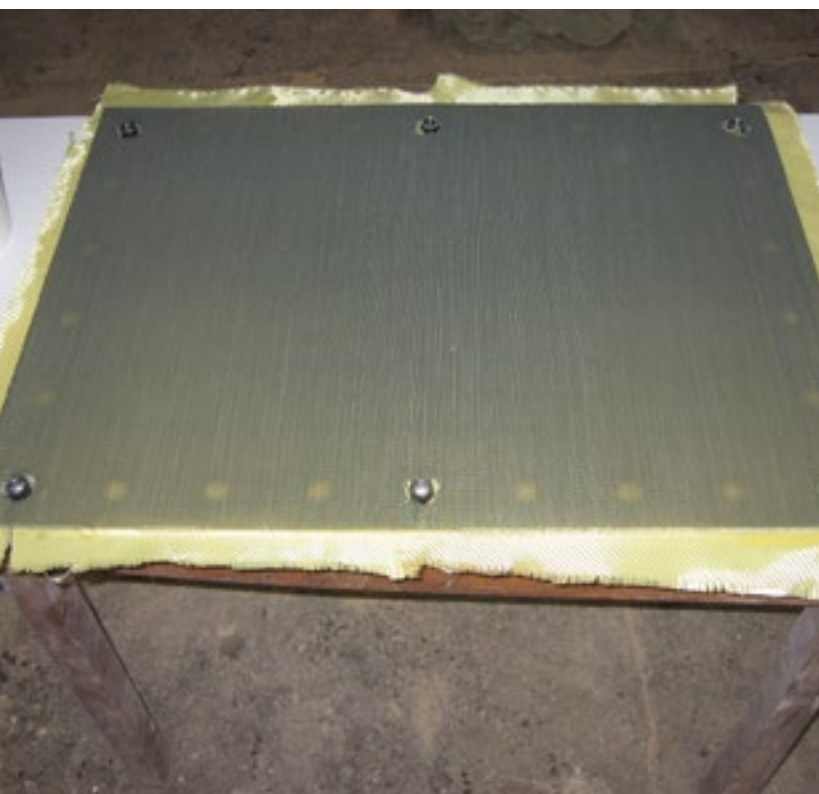




Balistic Protection

Safety first!

Proteccore® technology for bulletproof Fiber composite panels.
Up to 60% weight reduction compared to steel plates.





Protecore Fire protection

Composite solutions in the field of fire protection.

Certified flame resistance according to IMO.

In cooperation with Fibretech Composites.



References

- Aljo Aluminium- Bau Jonuscheit GmbH
- Astrium GmbH
- AST Security Equipment GmbH
- Atlas Elektronik GmbH
- Autoflug GmbH
- Benteler Automobiltechnik GmbH
- BMW AG
- Deharde Maschinenbau H.Hoffmann GmbH
- Deutsches Zentrum für Luft-und Raumfahrt e.V.
- Diehl Aircabin GmbH
- Enercon GmbH
- Eurocopter Deutschland GmbH
- Faserinstitut Bremen e.V.
- Fa. Ilseemann automation
- Fr. Fassmer GmbH & Co. KG
- Haindl Kunststoffverarbeitung GmbH
- MFH Marine-und Faserverbundtechnik GmbH & Co. KG
- Harms & Wende GmbH & Co. KG
- Howaldtswerke-Deutsche Werft GmbH
- INASCO INTEGRATED Aerospace science corporation
- VeroMetal Deutschland GmbH
- KBN Konstruktionsbüro
- Knierim Yachtbau GmbH
- Lloyd's Register EMEA
- Lufthansa Technik AG
- Nordex Energy GmbH
- PowerBlade GmbH
- Premium Aerotec GmbH
- Repower System AG
- Rheinmetall Defence Electronics GmbH
- Roding Automobile GmbH
- Safran Aircelle
- Sinoi GmbH
- SPIRIT Aerosystems Ltd.
- University of Patras
- Yacht concepts & design



Special crafts

Crafts to rely on...



Navy



Authorities



Commercial



German Navy

Design and construction of 6 x 9m RIB combat swimmer training and safety boats for the German Navy.





German Navy

Design and construction of 6 x 9m RIB combat swimmer training and safety boats for the German Navy.

ONLINE VIDEO





German Navy

Refit

- Repairs
- Engine Service
- Modifications
- Long term maintenance contract for quick operation crafts





Authorities

8.3m High Speed Operation Craft

- 40kn 315hp Turbo-Diesel
- Carbon hull built in vacuum technology
- Built according to Germanischer Lloyd High Speed Rules
- Weight only 2400kg!
- Reduced radar visibility

Optional among others Ballistic protection
CRP electromagnetic protection





Authorities

5 x 4.2m RIBs for the German Federal Police



Commercial Crafts

- Newbuilds and Refits for Water and Shipping Authorities
- Harbour working vessels
- Certified serial acceptance



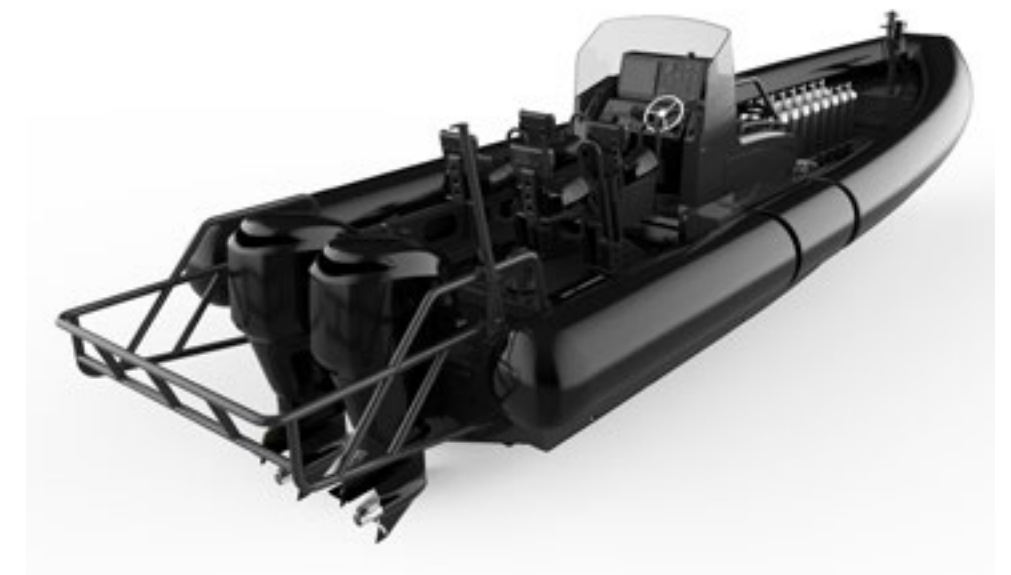


Concept Studies

Navy & Authorities

Electro RIB

Design and concept development for navy applications, among others



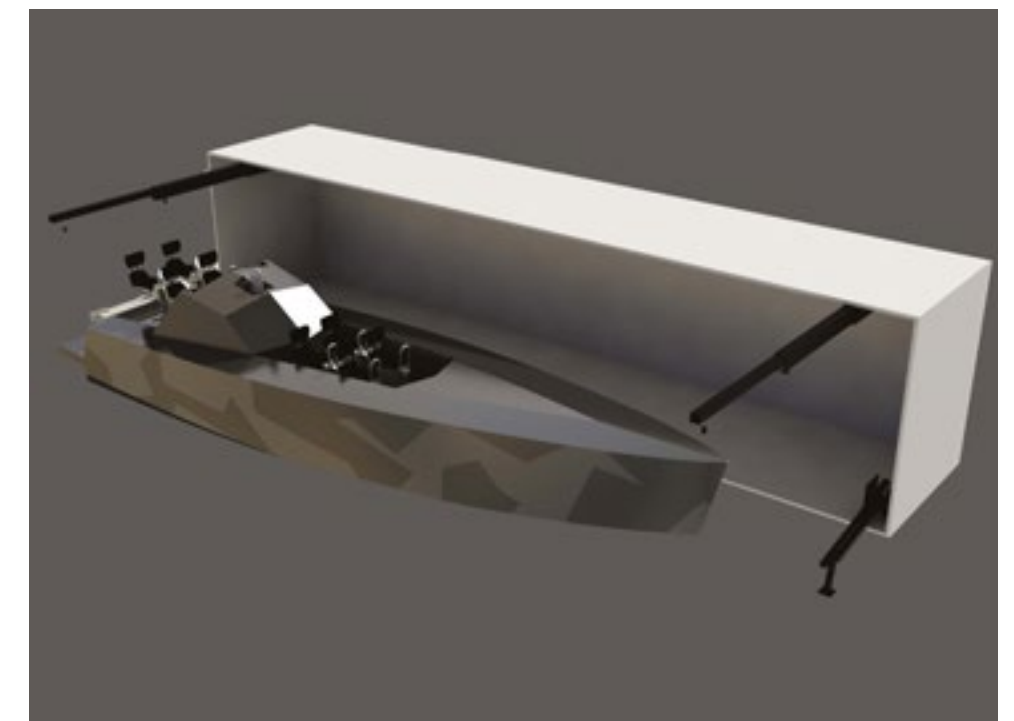


Concept Studies

Navy & Authorities

Concept development for 10.5m operational boats for manned and unmanned use.

Can be transported in a 40' standard container.





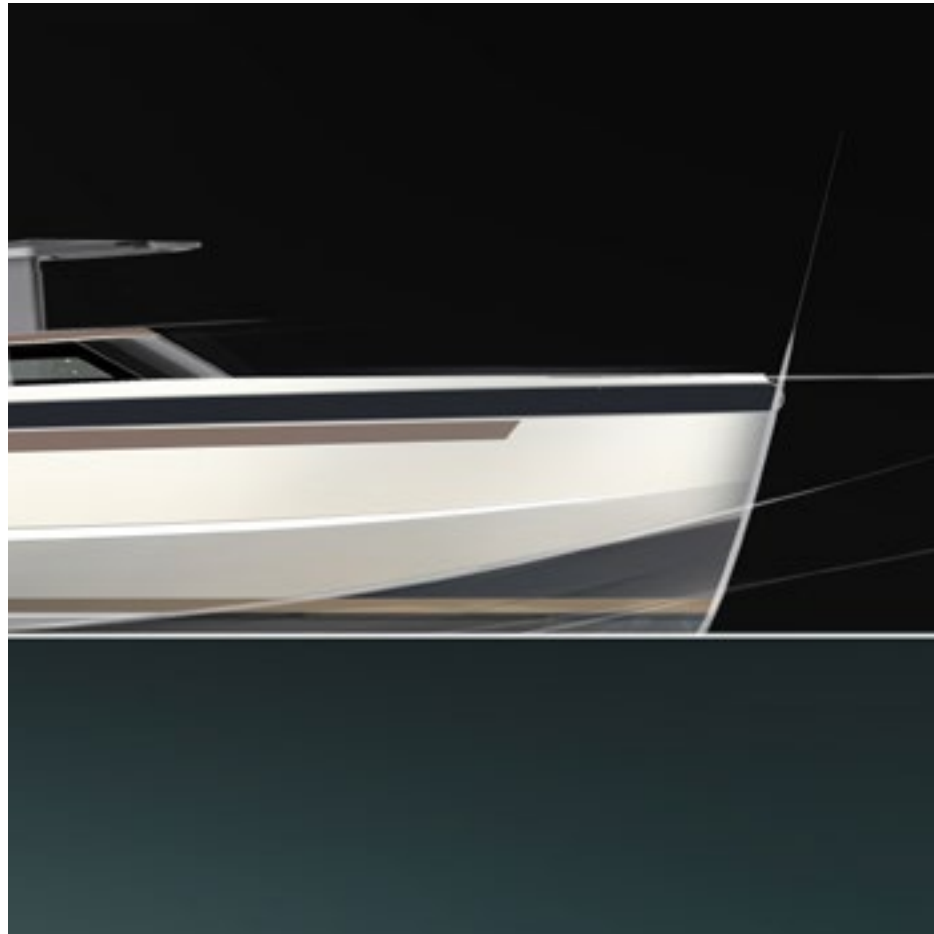
Research and Development

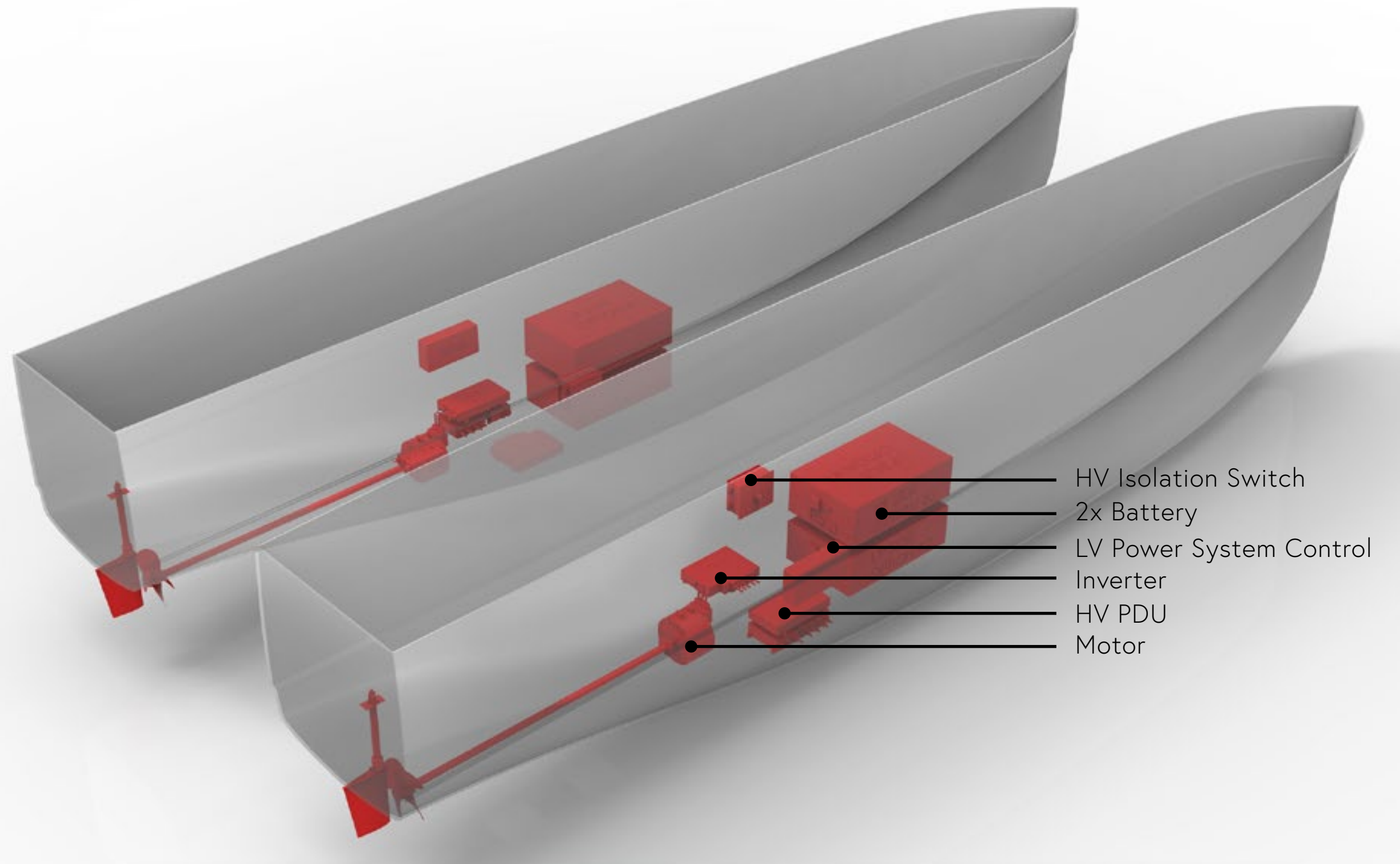
Frequent research and development projects among others in the fields of

- Materials research
- New propulsion technologies
- Developement of new concepts for crafts
- Sustainability

Sustainable propulsion

Electric and hybrid solutions





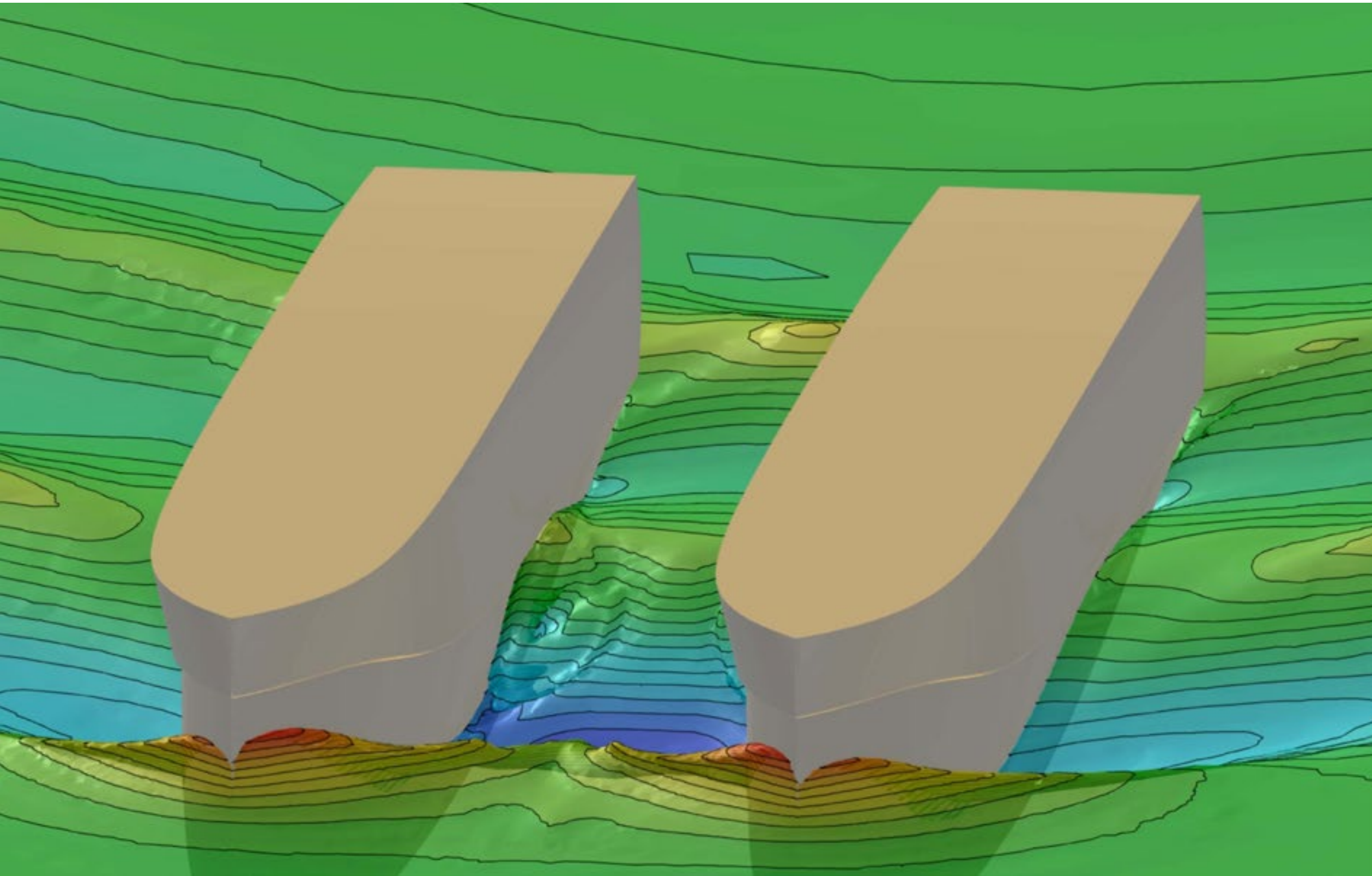
Electric propulsion

Catamaran

Characteristics

- Electric
- 100 + miles
- Long range
- Speed up to 12kn.



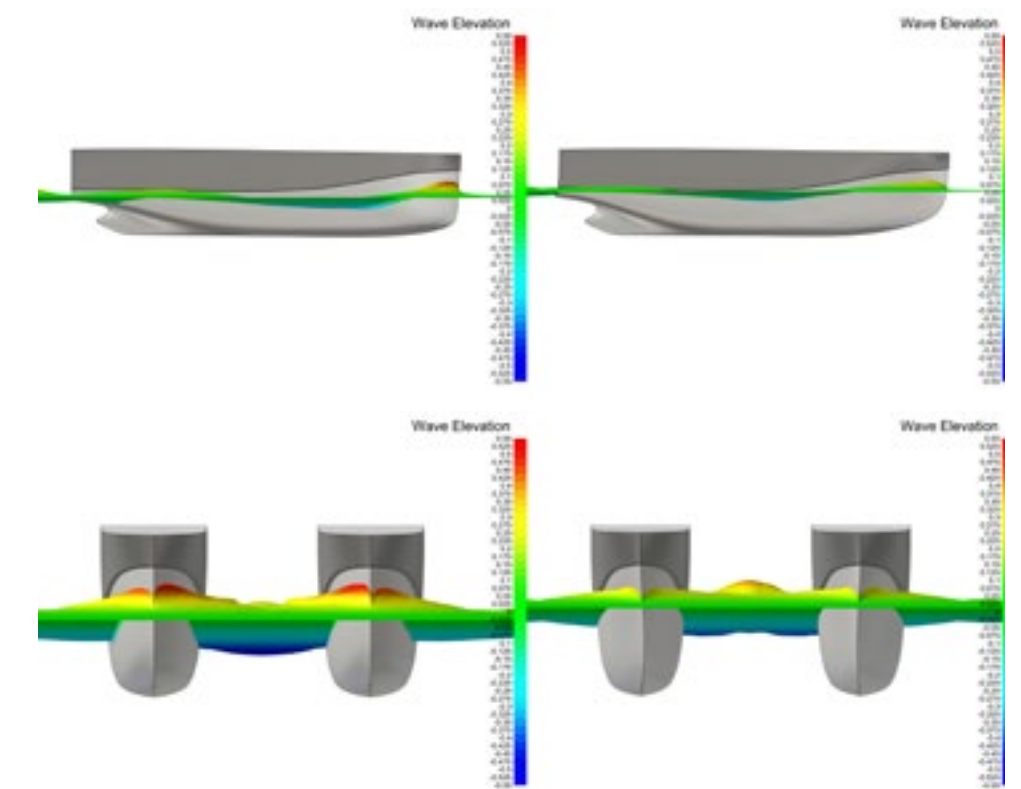


Electric propulsion

Catamaran

Hull optimization

Optimizing the efficiency of the hull for a long-range electric catamaran by running CFD analysis.





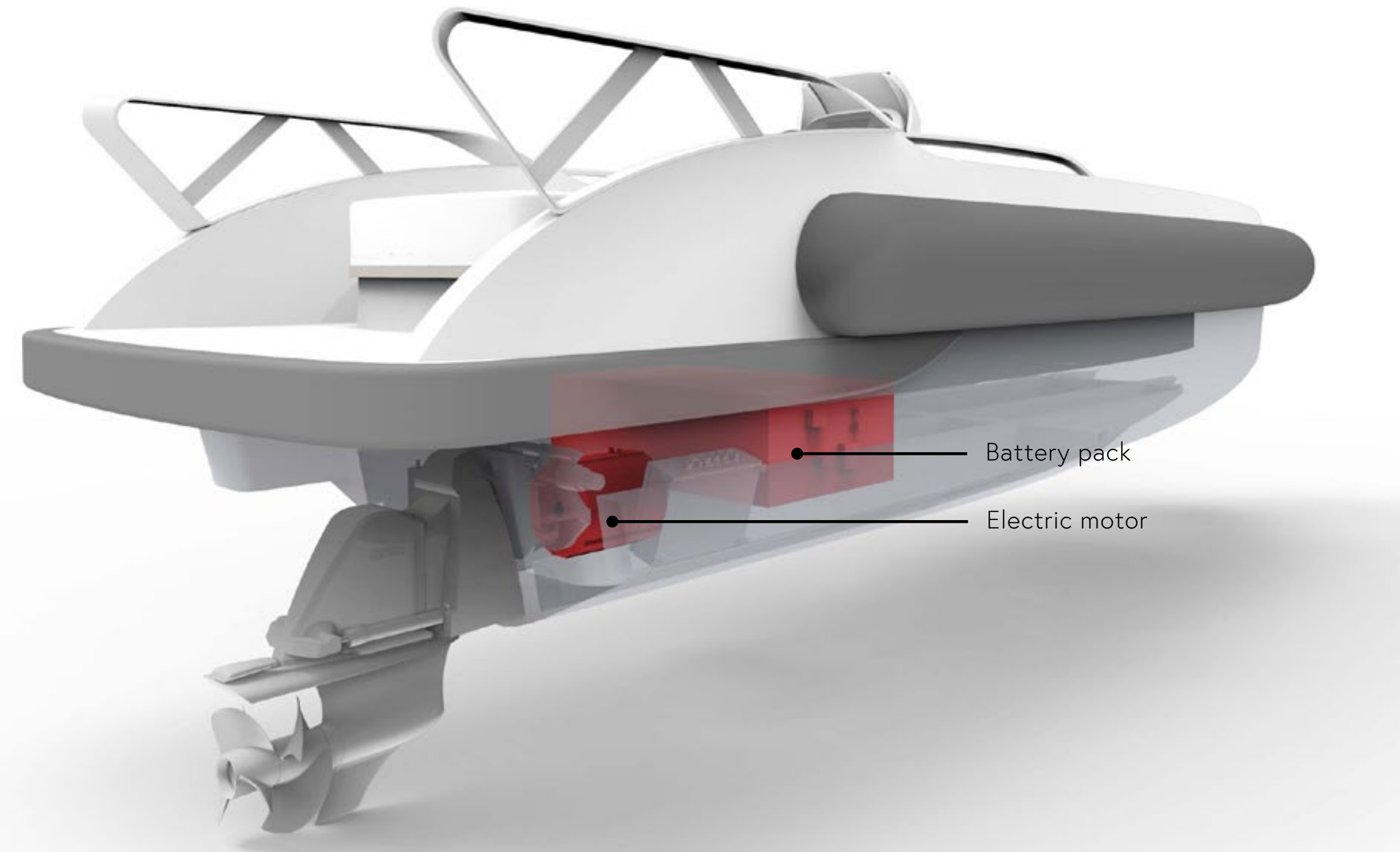
Electric propulsion

CCLine Open Tender 6.8m

Characteristics

- Powerful motor
- Zero pollution
- Quiet planing
- Access to restricted waters
- Fast charging
- Easy manoeuvring
- Low maintenance





Electric propulsion

CCLine Open Tender 6.8m

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- Powerful motor
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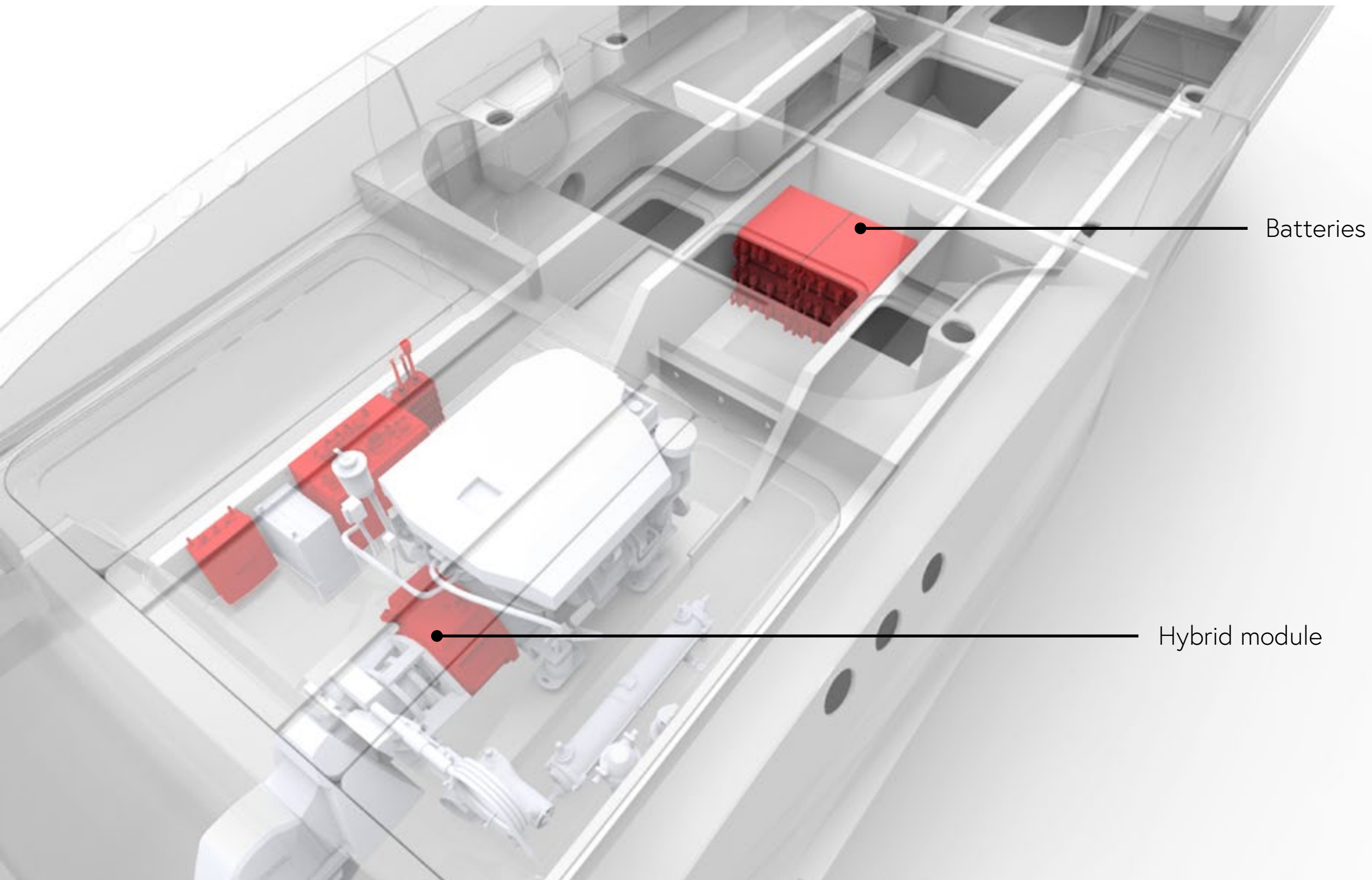
Hybrid propulsion

Silverline Open Tender 8.12m

Characteristics

- 220hp IC Engine
- 27hp Hybrid module fully integrated in drivetrain
- Electric driving up to 8kn
- Average 1hr drive time @6kn (electric)
- DNV-GL certified batteries





Hybrid propulsion

Silverline Open Tender 8.12m

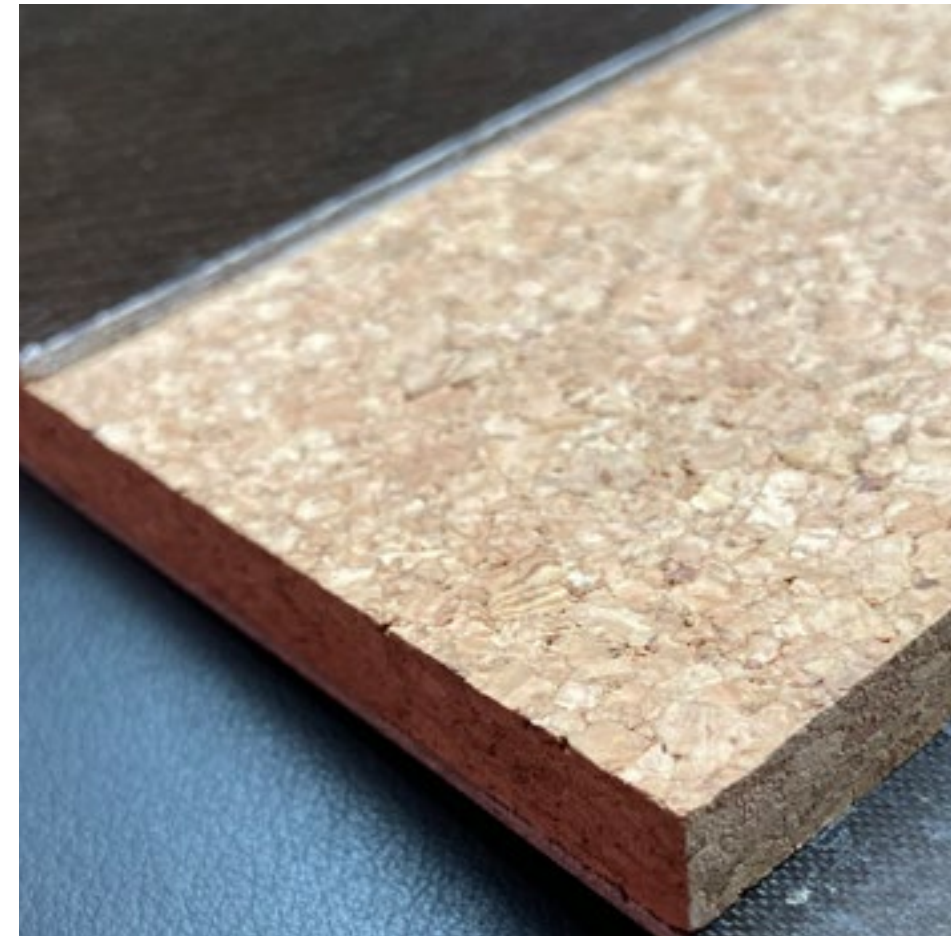
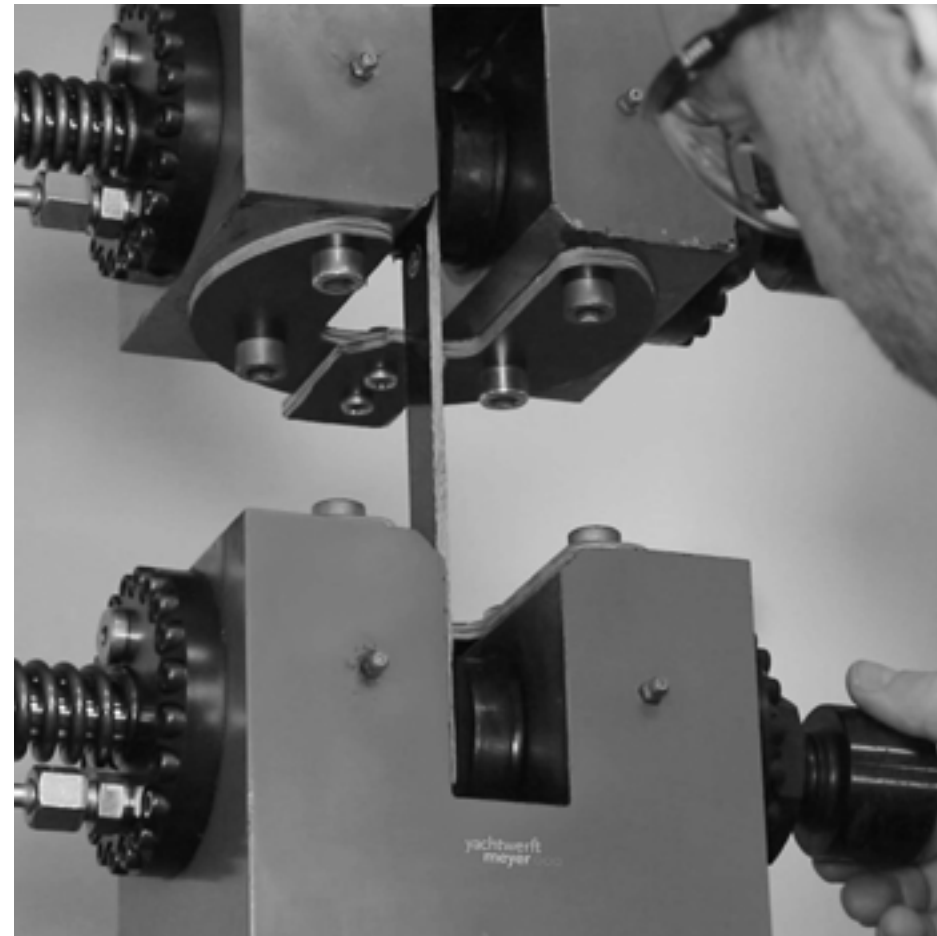
Benefits

- No emissions and noise at low speeds
- Reduced fuel costs
- Access to restricted waters
- Easier manoeuvring
- No fear of empty batteries
- Smaller engine can achieve the same acceleration



Renewable materials

Research: Flax-fibre sandwich panels

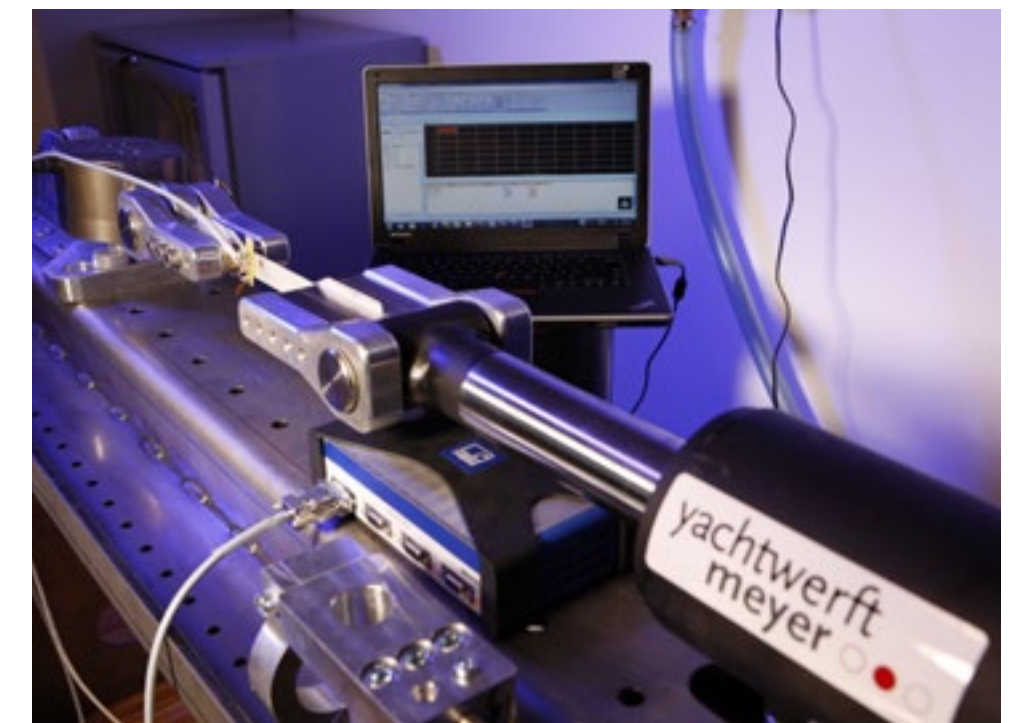




Renewable materials Research

Testing of innovative materials in our laboratory

- Examining new materials
- Verifying their properties
- DSC thermal analysis to ISO 11357-1
- Dielectric measurement
- Tensile, compression and shear tests
- Setting quality standards
- Improving material quality





Our research project

Building with flax-fibre sandwich panels

Designing the panels

- Assessing different types of flax fibre.
- Using natural cork as core material.
- Achieving comparable properties to conventional E-glass with PVC foam core.



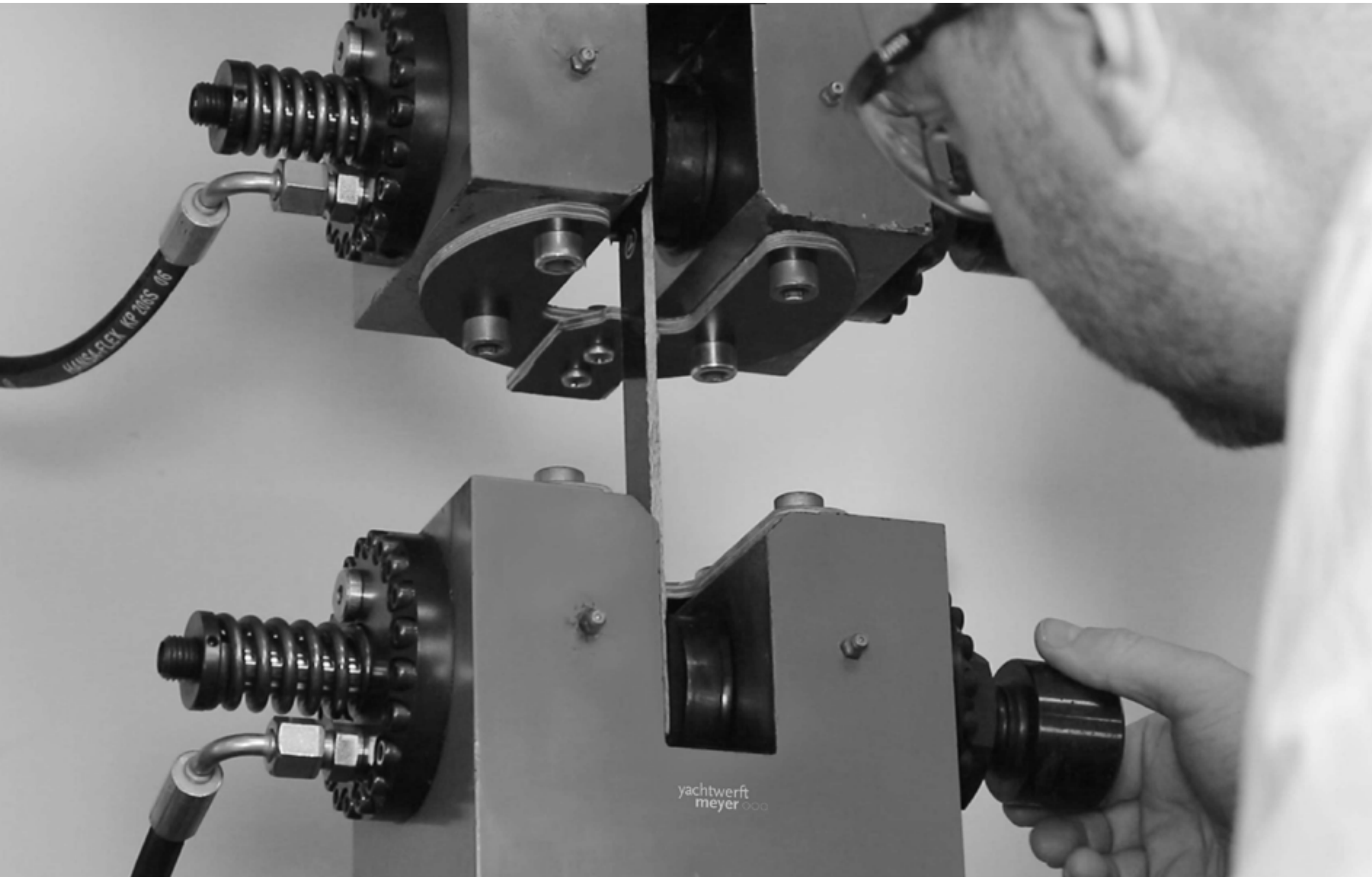
Renewable materials

Flax-fibre sandwich panels

Why flax-fibres?

- best sustainable alternative.
- very good mechanical properties.
- low or even negative carbon footprint.
- available on the market today.
- good vibration absorbance and strong noise insulation.
- ideal for high levels of comfort required in top-end products.



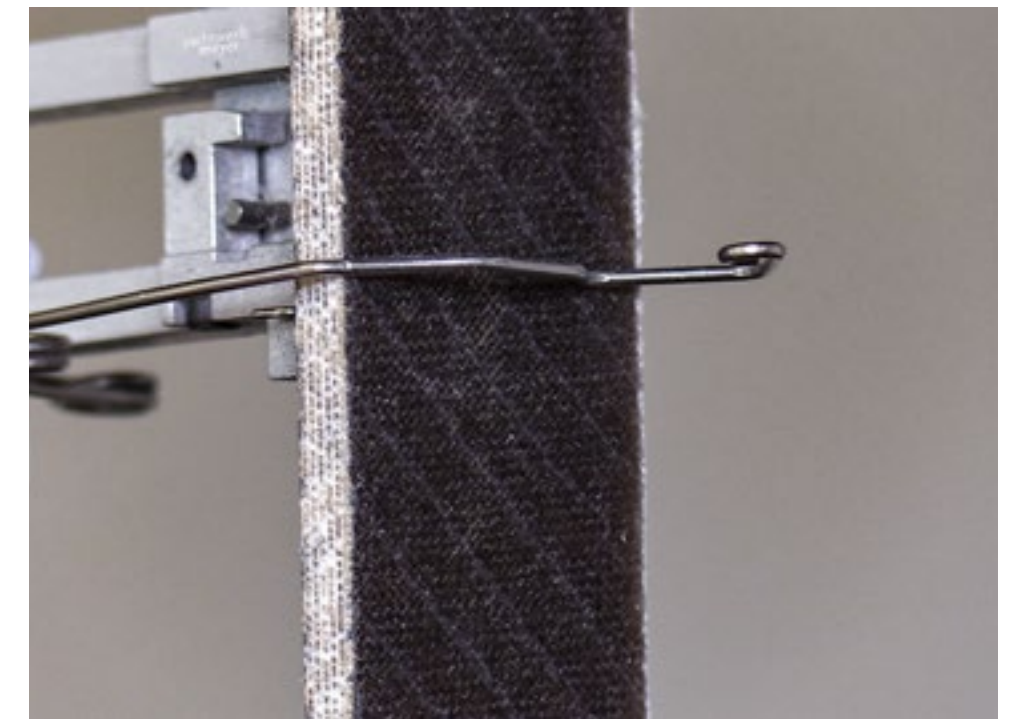


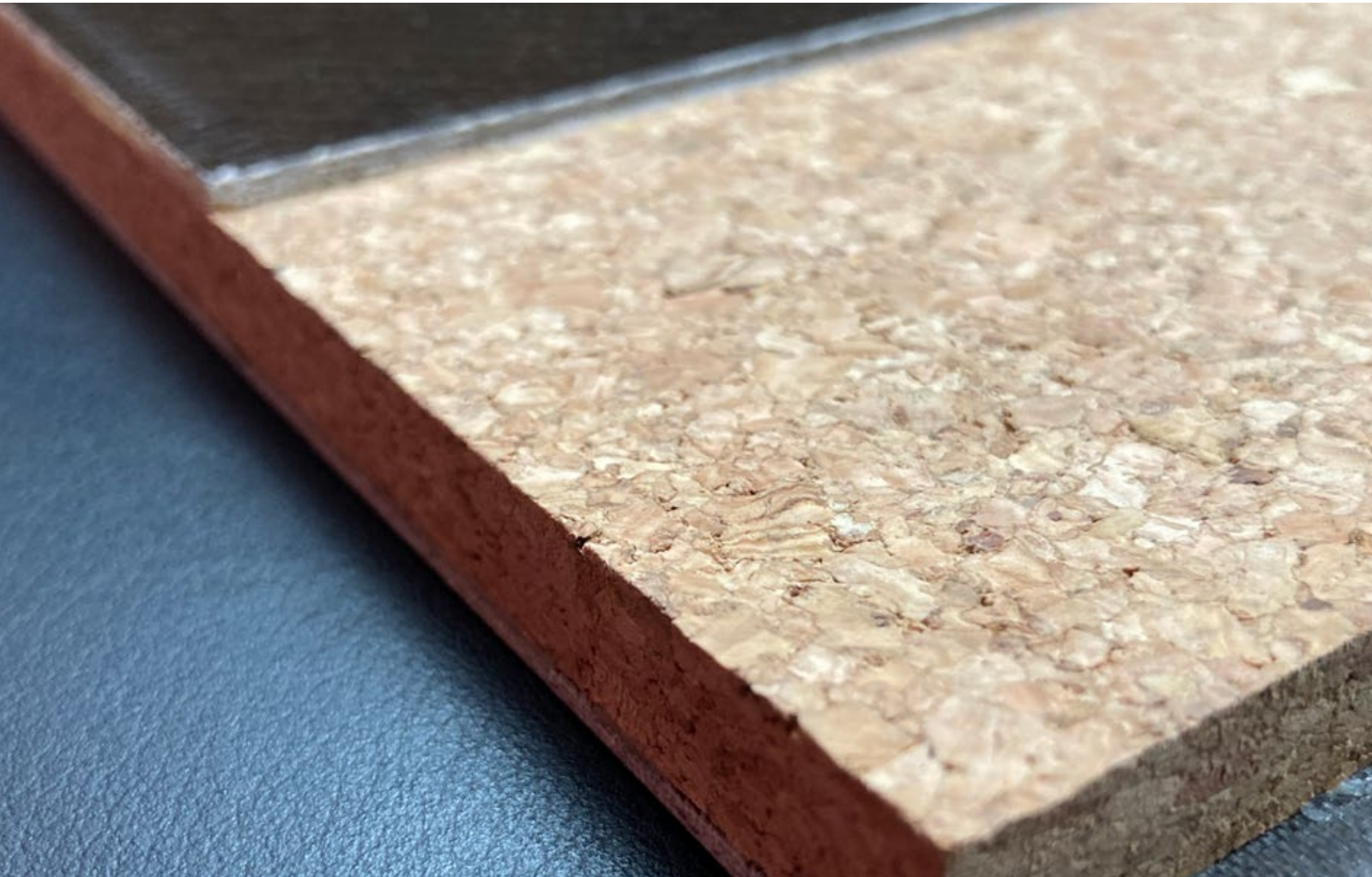
Renewable materials

Flax-fibre sandwich panels

Bend, stretch and shear testing of flax-fibres in a bio-based epoxy matrix

- Flax showed greater stability than standard lay-up
- Tension test in accordance with DIN EN ISO 527





Renewable materials

Why cork core?

- explored as an organic core material for interior sandwich panels
- very low environmental impact
- alternative to current foam cores
- naturally regrows in 7 to 10 years
- highly water-repellent
- no rot from water absorption
- superior shock and impact protection
- excellent sound insulation due to high density and granulate structure





Flax-fibre sandwich panels


The renewable alternative

- Near identical mechanical properties to conventional panels
- Only slightly heavier
- Better fire resistance / retardance
- Flax fibres are hollow, giving more stability on impact
- Cork core has better acoustic properties than conventional panels
- Ultimate sustainability – cork regrows without harming the tree

Sustainability

Across our shipyard





Sustainability

at yachtwerft meyer

- Geothermal heating system at our office building for more than 10 years
- Environmentally integrated wash-down area for boats, protecting the river and surroundings from contamination
- Workshops thermally insulated beyond the norm, heating with the latest technology
- All lights within the yard are LEDs
- Paint shop equipped with air filters to minimise particulate pollution
- Responsible disposal of oil and bilge water, as well as paint
- Use of bio-based oil in all hydraulic machinery and lifting appliances minimizes the risk of contamination.
- Electric crane, not diesel
- YWM's office is going paperless and the company is testing new ways to perform tasks digitally



Awards

- Winner of JEC Award in Paris - fibretemp heating system
- Winner of the Seifriz Prize - Technology transfer into handcraft
- Enterprise Award Bremen Nord - job creation and protection of local jobs
- Boat and Design Innovation Award 2021



What people say

„Dear Jan, Michaela and Jonas, I hope all is well and that work is not too hectic! I wanted to let you know that I visited the owner and was able to see the Limo tender nestling in her garage, I hope to see her in the water next month... She looked really first class and I wanted to thank you for all your hard work, the end result is a superb Limo echoing the mother ship perfectly! I hope we will have some very impressive pictures next month. Many thanks for all your efforts.“

Tim Heywood, Tim Heywood Designs Ltd.

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