

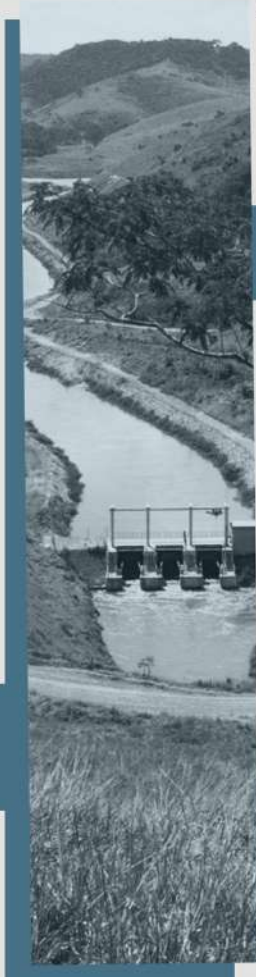
MARITIME  
INDUSTRY



OTHER  
BRANCHES OF  
INDUSTRY



GREEN  
ENERGY



AQUAFARMING



smedengineering.no

MARITIME  
**INDUSTRY**



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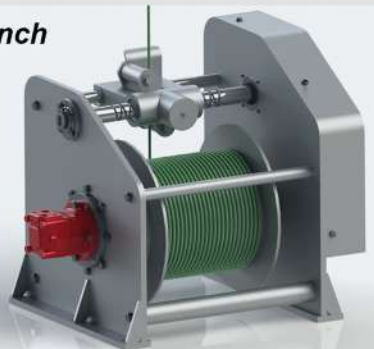


*Thruster unit model*

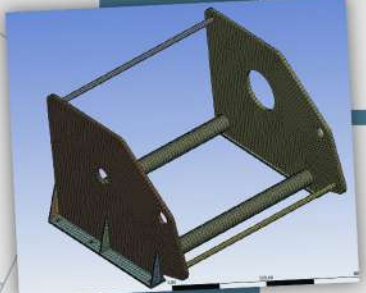


*Thruster unit*  
MB Hydraulikk AS

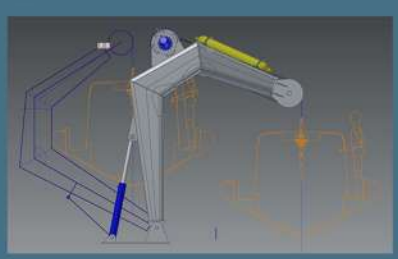
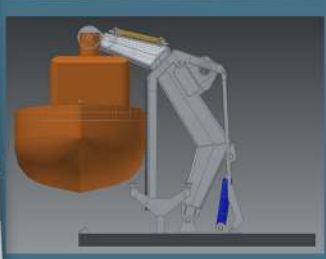
*Cable winch*



MB Hydraulikk AS



*Aluminium telescope crane with winch*



MB Hydraulikk AS

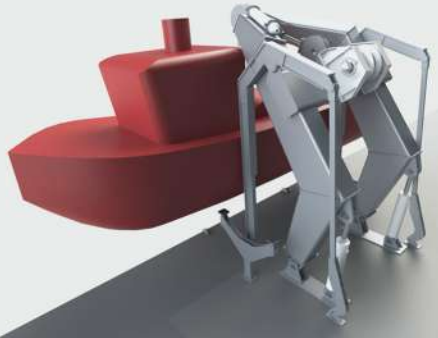
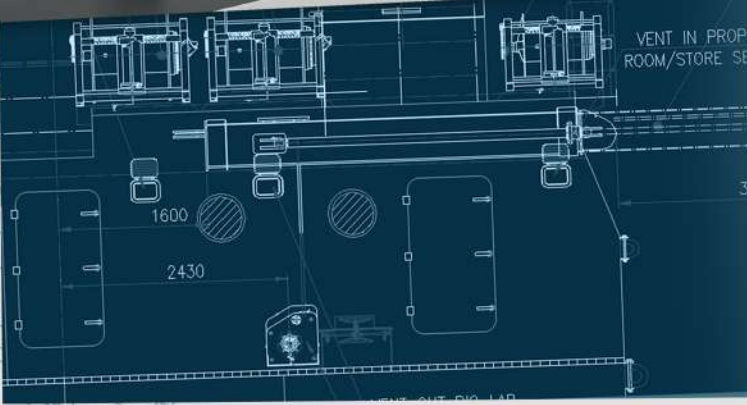
*Aluminium MOB Davit*

# MARITIME INDUSTRY

We offer engineering services and design equipment for the shipbuilding and maritime industries. Our highly competent and well-trained team of engineers provides multi-disciplinary engineering services throughout the design process, from concept to finished product. Their experience in different fields enables Smed to provide innovative design solutions based on the needs of clients.

## SMED'S DESIGN TEAM CAN:

- develop conceptual solutions based on a client's design specifications
- create 3D models of mechanical parts and facilities
- offer FEA/CAE Services:
  - Static Analysis – Linear Elastic and Nonlinear
  - Dynamic Analysis – Implicit/Explicit (Modal, Harmonic, Transient, etc.)
  - Advanced Nonlinear Analysis
  - Thermal Analysis
  - Fatigue Analysis
  - Computational Fluid Dynamics



## MARITIME INDUSTRY

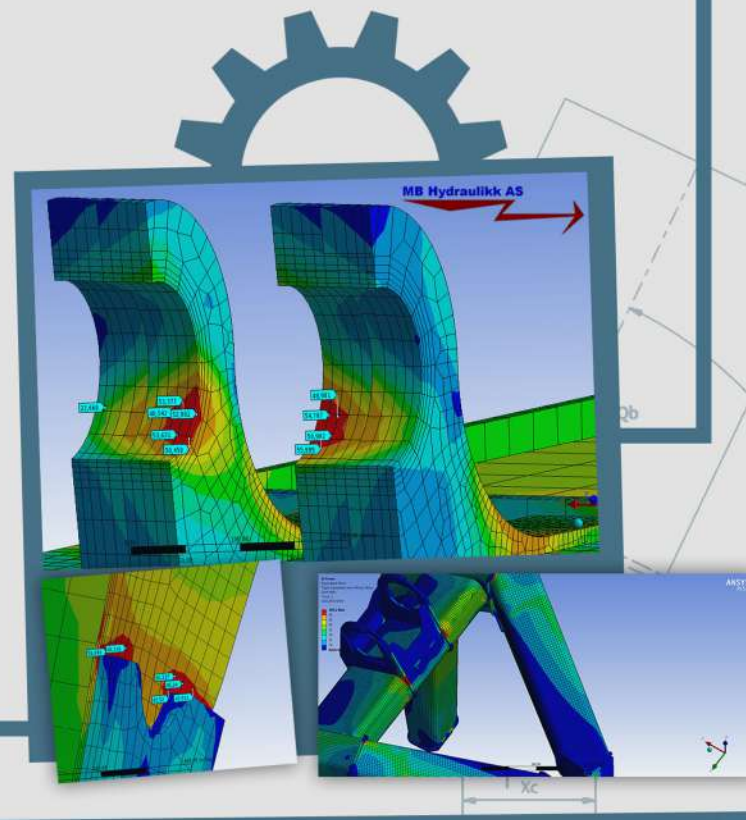
- prepare technical drawings (equipment layout, GA drawings, production drawings, etc.), as well as user manuals
- work with clients on product specifications
- give presentations

When working on more complex design projects, Smed Engineering makes use of versatile engineering applications and modern software packages, including:

- SolidWorks
- Autodesk Inventor
- DraftSight
- ANSYS
- Mathcad
- Adobe CC

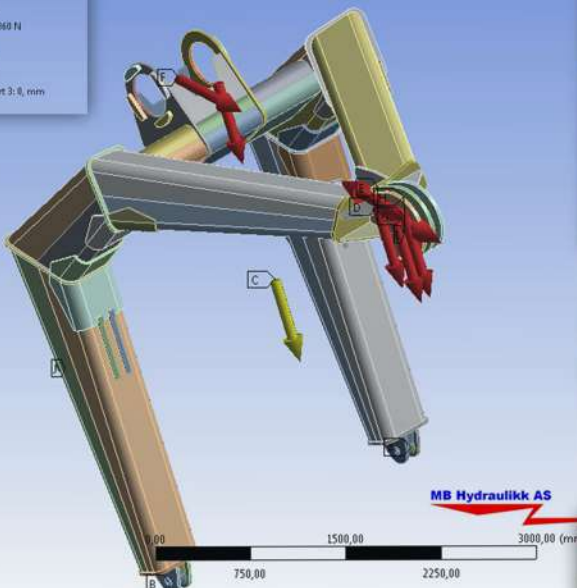
In addition to design services, we offer our customers production services for various mechanical parts and structures. The entire production process is constantly monitored and overseen by the Smed Engineering Team.

The **Smed Design Department** creates virtual prototypes which help customers explore many design alternatives before the actual physical prototype and finished product are produced. R & D is an ongoing process which starts with the conceptual design phase, and includes feasibility studies and functional and production analyses which are carried out with computer-aided engineering software and product data management tools. This approach ensures flexibility during the entire design process, as well as the quality of the finished product. With the use of advanced software, Smed designers are able to reduce the occurrence of defects.



**A: Frame**  
Static Structural  
Time: 1, s  
Items: 10 of 15 indicated  
18.8.2014 10:04

- A** Cylindrical Support: 0, mm
- B** Cylindrical Support 2: 0, mm
- C** Standard Earth Gravity: 9806,6 mm/s<sup>2</sup>
- D** Force 2: 58860 N
- E** Force 3: 58860 N
- F** Remote Force: 58860 N
- G** Force: 58860 N
- H** Force 4: 58860 N
- I** Force 5: 58860 N
- J** Cylindrical Support 3: 0, mm





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## REFERENCES

- MB Hydraulik AS,
- Ulstein AS,
- Jets AS, etc.