

Structural engineering and design

Offshore Wind / Oil & Gas

Structural engineering ranging from simple pipe supports, transport frames and sea fastening for offshore wind turbines to large equipment modules for offshore topsides.

We perform innovative concept studies and designs for both on-shore and offshore within a wide variety of standards to your exact need.

STRUCTURAL ENGINEERING

- Concept studies
- Detail design
- Verification of existing structures
- Surveys
- Installation manuals & methods
- Lifting design and procedures
- Fabrication sparring
- Handling guides and methods
- Design risk assessment
- 3D scanning

Design areas

- Sea fastening; nacelles, towers, blades etc.
- Handling tools
- Lifting equipment

- Transport frames
- Helidecks
- Topsides
- Stair towers
- Bridges and gangways
- Boat landings
- Deck extensions
- Equipment skids
- Special purpose containers
- Working platforms
- Crane pedestals
- Dropped object protection

Typical Materials

- Non-alloy steel
- High strength steel
- Stainless/acid proof steel
- Aluminium

MODELLING & DRAWINGS

- 3D-design modelling as standard
- 2D-drawings from 3D-model
- Direct 2D-drawing option
- Design & fabrication drawings



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Space management

- 3D space management of large steel structures
- 3D space management of HVAC system
- 3D space management of cables incl. routing, tray filling, length etc.

CERTIFICATIONS

- DS/EN ISO 9001
- DS/EN ISO 3834-2
- DS/EN ISO 14001
- DS/EN ISO 1090
- OHSAS 18000

ENGINEERING SOFTWARE

- Ansys
- StaadPro
- MathCad

DESIGN SOFTWARE

- Micro Station - 3D
- Micro Station - 2D
- Bentley Raceway (Cable management)
- Bentley OpenPlant (HVAC design)
- SOLIDWORKS
- Autocad

For further information:

www.semcomaritime.com

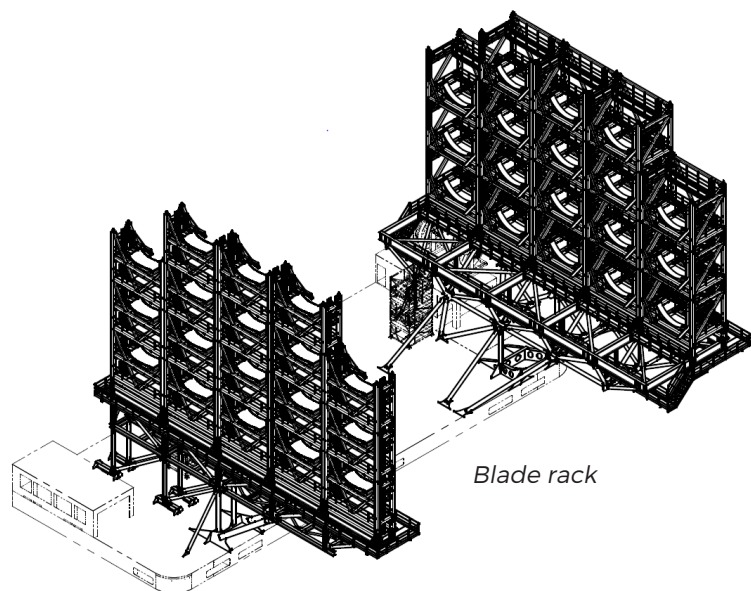
Your contacts:



Jean Grandt
Sales Manager
Tel. +45 7916 6744
jgra@semcomaritime.com



Kristoffer L. Frederiksen
Engineering Manager
Tel. +45 7916 6326
klf@semcomaritime.com



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