



# Structural engineering and design

## Offshore Wind / Oil & Gas

**Structural engineering ranging from simple pipe supports, trans-port 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](http://www.semcomaritime.com)

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