

FABRICATION & INSTALLATION

Zebec is capable of designing a Buoy Mooring System to suit varying vessel sizes and environmental conditions as per client specific requirements. The moorings can be designed for single buoy moorings as well as multi buoy moorings.

➤ **Mooring Buoy Solutions include:**

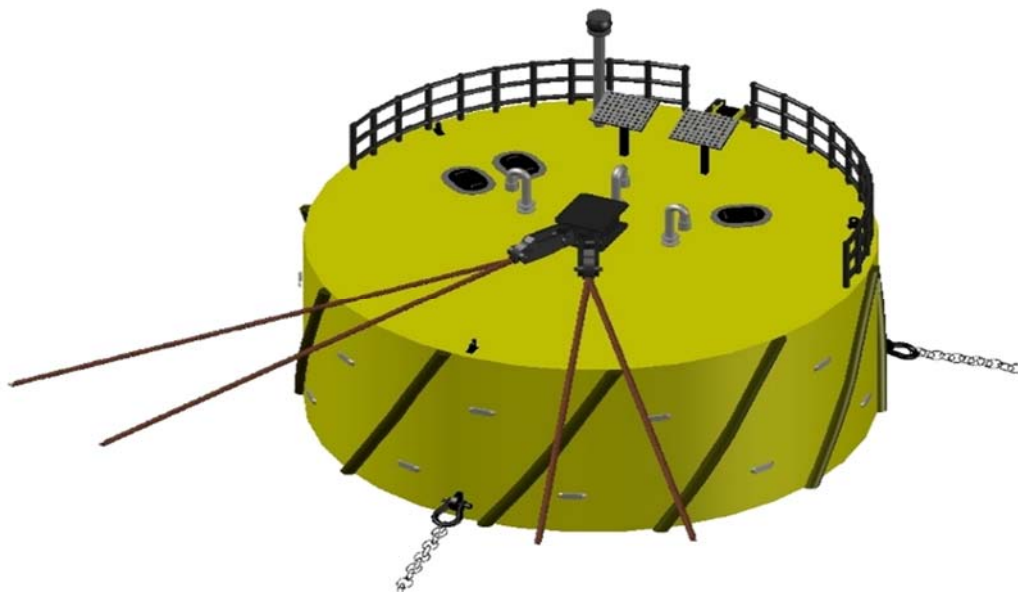
- Basic and Detailed Design of Buoy Mooring buoy as per Hull requirements
- Motion analysis to assess hydrodynamic loads
- Mooring analysis - calculation of line loads on mooring lines and anchors, coupled/uncoupled responses.
- Multi-body motion and mooring analysis with vessel moored to the system
- Optimization of buoy size, mooring arrangement, mooring lines and anchor particulars.
- Structural analysis (global and local)
- Fatigue analysis
- Design of swivel arrangement, if required
- Design of Remote control system for remote operation of quick release hooks.
- Fabrication, transportation, installation and maintenance services.

➤ **Design considerations**

- Metocean data.
- Site conditions like bathymetry and soil data
- Operational and survival conditions of moored vessel.

➤ **Software**

- Hydrostar : Hydrodynamic Analysis
- Ariane 7 : Mooring Analysis
- Isymost/NSO : Structural Analysis



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