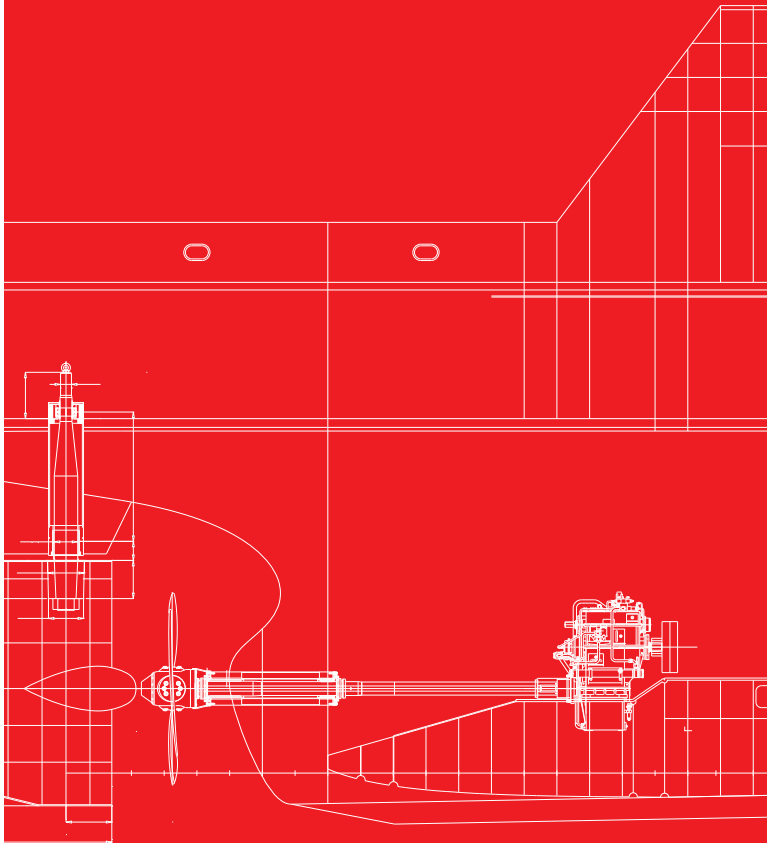


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# Electrical engineering for ships



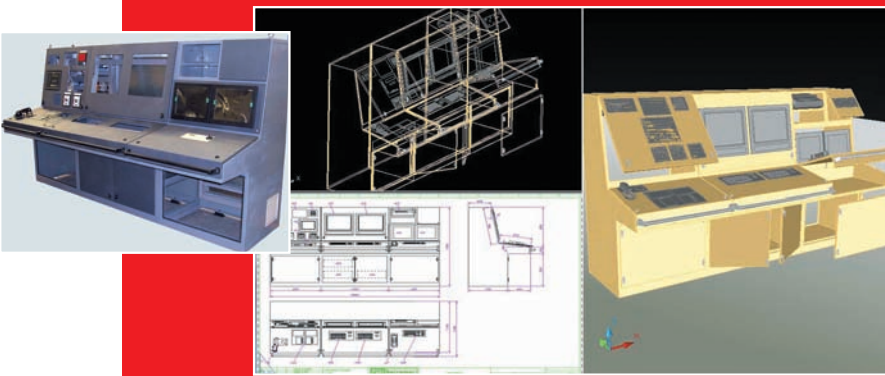
## Engine Control Room Consoles

PDI Beiramar also has experience in the design and manufacture of wheelhouse and ECR consoles.

We integrate electrical equipment provided by different suppliers of the ship equipment.

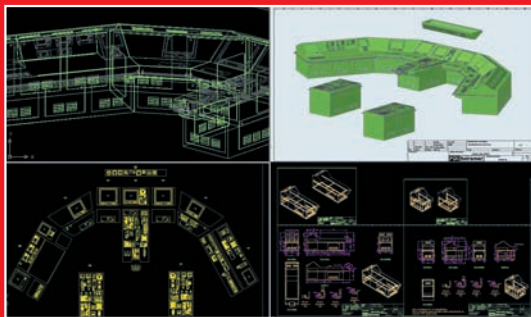
Electrical drawings are produced unifying information from all the equipment installed in a single source, regardless of documentation that could bring the various suppliers of equipment. The technical documentation shall provide all necessary information about the operation, wiring and physical layout of components.

The design, in addition to ergonomic solutions tailored to each particular case, takes into account the requirements of classification societies, depending on the ship notation.



## Integrated Bridge - Bridge Console

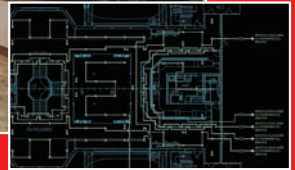
PDI Beiramar has designed and manufactured bridge consoles of different types of vessels such as chemical tankers and offshore supply vessels, approved according to NAUT-OSV notation by Det Norske Veritas (DNV) integrating all the navigation, communication and steering control equipment of the ship.



## Engineering

PDI Beiramar, among other activities, develops electrical engineering projects for ships with either conventional or diesel-electric propulsion. The development of such projects include:

- Basic project
- General circuit diagram
- Electrical load calculation
- Short circuit calculation
- Illumination level calculation
- Drawings development
- Wiring and connection diagrams
- Diagrams of equipment installation
- Arrangement drawings for lighting, fire detection, public address...

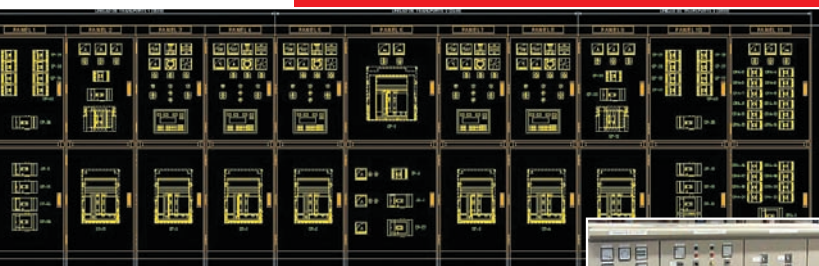


## Main switchboards

PDI Beiramar designs, manufactures and carries out the starting of primary and secondary switchboards.

Within the automated main switchboards automated special attention is paid to the integration of electronic control systems (Power Management Systems - PMS), including control over all the protections necessary for a generator, and the ability to act on the synchronism and the load control.

PDI Beiramar has installed and started systems fitted with the following PMS: Sympol from ABB, GMM10 and GPM from SAM Electronics, Delomatic and PPU from Deif.



## References

Shipyards: H. J. Barreras, Factorías Vulcano, M. Cies, Fco. Cardama, Astilleros Armón and F.N. Marín.

Ship Types: Offshore Supply, Seismic Research, Oceanographic, LPG, Ro-Ro ferries, Stern trawlers, Purse Seiners and Tugboats.

Projects certified by Det Norske Veritas (DNV), Bureau Veritas, ABS and Lloyd's Register.



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ISO 9001  
BUREAU VERITAS  
Certification

