The Importance of High-Quality Electronic Control Systems in Marine Shipbuilding by CMR Group

Article published on April 27th 2012 | Technology

The history of shipbuilding dates back tens of thousands of years. The construction of ships and floating vessels has a rich history however, over the years as both the industry and the technology became more complex, it has become more important than ever to meet classification standards. Maintenance services for marine engine controls, marine alarm monitoring and safety systems (AMS), sensors, and wiring systems that meet the demands of marine applications are increasingly important.

Shipbuilding, or naval engineering, refers to the building and repair of ships and vessels both for commercial and military use. Modern-day shipbuilding has made considerable use of â€œblock construction.â€• In block construction, prefabricated sections of the ship will be built elsewhere in the shipyard and then transported to the building site and lifted into place. Most modern shipyards will often pre-install equipment, such as pipes, electrical cables, and any other components within the blocks. This serves to minimize the effort needed to assemble or install components deep within the hull once it is welded together. The complex system of monitors and systems that are inside the ship are just as important as the physical construction of the outside of the vessel.

High-performance electrical wiring, alarm and control systems are essential for marine applications. They support the reliable operation of the shipâ€™s engine as well as the automated controls of the ship. Manufacturers and owners of small to medium-sized commercial vessels, including work boats, ferries, specialized tugs, cargo ships, PSV and OSVs all require trusted, high quality electrical systems. Everyone from yacht owners to the military relies on electrical systems to promote safety and performance. Marine electronic systems include low voltage and main switchboards, as well as closed-circuit television. Marine turnkey electronic capabilities allow for the specialized customization of electronics design for any ship. Marine alarm monitoring and safety systems provide a vast range of control panels and monitoring equipment for ships. This includes engine monitoring, vessel automation, marine alarms, as well as safety systems for boats. Marine sensors increase precision to monitoring the vessel. They can include temperature sensors; pressure sensors, main propulsion and auxiliary engine sensors as well as sensors for speed, level, rudder angle, and environmental sensors, such as wind, aerials, and marine telemetry/voyage data recorders (VDR).

The size of ships may vary, but what remains constant is the need for reliable technology that not only makes sea travel easy, but more importantly, safe.

Article Source:
http://www.articleside.com/technology-articles/the-importance-of-high-quality-electronic-control-systems-in-marine-shipbuilding.htm - Article Side

CMR Group - About Author:
This article is provided by a CMR-Group.com â€“ An electronic engineering company that specializes in a Electronic Marine Sensors and a Engine Monitoring Systems.
^
This article is provided by a CMR-Group.com â€“ A electronic engineering company that specializes in a Electrical Control Panels and a Marine Engine Controls.
^

This article is provided by a CMR-Group.com â€“ A electronic engineering company that specializes in a Marine Alarm Systems and a Engine Wiring Harness.

Article Keywords:
Electronic Marine Sensors, Engine Monitoring Systems, Electrical Control Panels, Marine Alarm Systems, Marine Engine Controls, Engine Wiring Harness

You can find more free articles on Article Side. Sign up today and share your knowledge to the community! It is completely FREE!