

BEMAC Corporation



Pioneering the future of offshore wind power support vessels with marine and shipbuilding-related technology and experience honed as a leading manufacturer of marine equipment.

Category O&M (Vessels) > Ship Control and Monitoring Systems

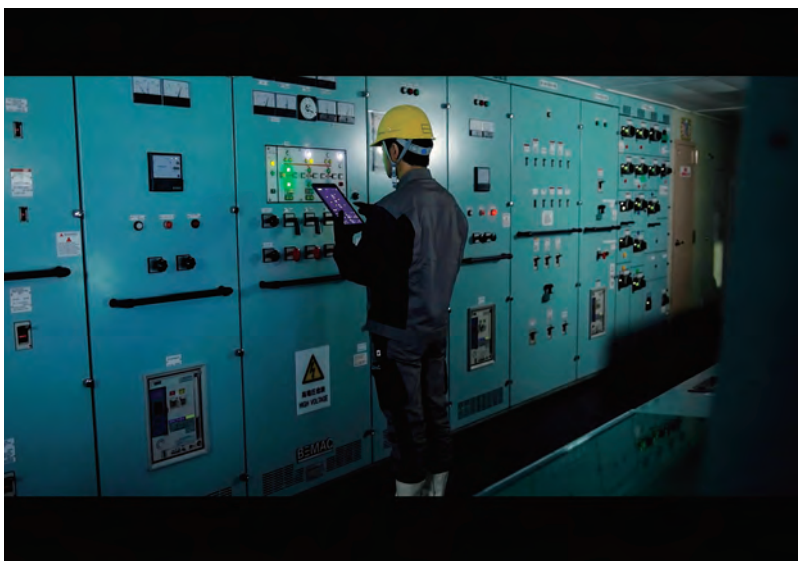


DPS (Dynamic Positioning System): Providing High Reliability and Full After-Sales Service

BEMAC's Dynamic Positioning System (DPS) for automatic ship position maintenance has been in operation on AHTSVs (Anchor Handling Tug Supply Vessels) overseas where it has received positive assessments from customers. Since the company's establishment, BEMAC has been rooted in the maritime industry and is well versed in the rules and operating environment of vessels.

Another of BEMAC's strengths is its full provision of after-sales service, characterized by reliability and security realized with advanced technologies, as well as post-delivery commissioning. The company's DPS, developed through thoroughly detailed verification processes involving model ships and digital simulations, features the durability to withstand harsh environments. BEMAC is equipped to attentively accommodate all types of orders with its entirely in-house manufacturing, satisfying the demands of various types of offshore vessels, which will be indispensable in developing offshore wind power generation projects.

DPS functions: Automatic position maintenance mode, automatic heading maintenance mode, ROV tracking mode, automatic route following mode, joystick operation mode



MaSSA-One (The Maintenance System for Soundness Sailing Ability): A Ship Support Solution Facilitating On-Land Sharing of Shipboard Data

MaSSA-One is a system that accumulates on-board data from ships on servers during operation and facilitates real-time monitoring from onshore locations. Through data-sharing between shipboard and onshore locations, the system enables detailed monitoring and analysis of ships' statuses from onshore offices, enabling improved operational efficiency and quicker response when trouble occurs. Furthermore, the company has formed the MaSSA Partnership, a cooperative network of ship-related companies, to actively promote DX (digital transformation) in maritime industries. The partnership aims to enhance the ability to respond to problems and prevent them from occurring in the first place, thereby supporting safer and more efficient ship operations.

Main Functions of the "MaSSA Insight" Ship Operations Support Application: Batch status display (for batch display of alarm status and location information for ships equipped with MaSSA-One), main equipment monitor (for batch confirmation of main equipment status), troubleshooting function (for troubleshooting power generation systems), and alarm function (enabling users to set their own alarm conditions)

Adoption Record

Meeting User Needs with DPS



DPS ensures redundancy and prepares for problems to provide support for equipment malfunctions and realize unceasing ship operations. Complex sequence control is implemented in DPS to achieve design responsive to user needs with flexibility.

MaSSA Insight ~WADATSUMI~



A web application enabling both shipboard and onshore real-time monitoring of operational data from ships that has been collected. The application has been installed on more than 200 large merchant vessels and is used by a wide range of users, including ship owners, operators, and management companies. It contributes to more efficient ship management and improved operational performance.

Main Equipment and Machinery

- Provision of Electrical Equipment for Ships: Approximately 200 vessels per year
- Wiring Installation for New Vessels at Shipyards: Approximately 120 vessels per year (handling over 7,000 km of wiring annually)
- Manufacturing and Construction Related to Electrical Equipment: Domestic factories (Mirai Factory in Imabari, Onishi, Mihara, Marugame, Saijo, and Mihara), Overseas factory (Vietnam)
- After-Sales Service Locations: Cooperation system with group companies in China (Dalian, Shanghai) and Singapore

Company Information

Business: Design, manufacture, sale, installation, and maintenance of control, power distribution, communication equipment, and generators (marine PM, wind turbine) for ships, buildings, factories, plant facilities, etc. Location: 105 Ko, Noma, Imabari, Ehime Prefecture, 794-8582
 Established: July 1956 Capital: 90 million yen Employees: 977 (as of the fiscal year ending March 2024)
 Representative: President Masato Oda Tel: 0898-25-8282
 Offices: Imabari Headquarters, Tokyo Headquarters, Osaka Branch, Netherlands, 5 factories (Ehime, Kagawa, Hiroshima, etc.), domestic and overseas group companies (Singapore, China, Vietnam, Finland, etc.)
 Metropolitan Area Contact: Tokyo Branch Tel: 03-6550-8211
 E-mail: info@bemac-jp.com URL: https://www.bemac-jp.com/en/