Product

Brushless AC Generator
This is a standard marine generator driven by a diesel engine or steam turbine, and features a full line-up of models to suit conditions of use in different types of ship, from small fishing boats to large merchant ships. Models FB, FE, FEK, FPK, FEW and FPW are available, depending on the protection degree, types of bearing, method of lubrication, etc.

Three-Phase Induction Motor
As a specialist manufacturer of marine motors we have accumulated long years of experience and the very latest technology, allowing us to design and manufacture various types of motor functionally as ships’ machinery.

Meanwhile, we have established output series enabling a full compliance to the characteristics and conditions of use demanded for a variety of auxiliary machineries (e.g. pumps, compressors, deck machineries, etc.). Thus the optimum type of motor can be selected to suit the purpose of use. A rich array of models including the TID, ID, TDV, IDV, TIT, TTS, TIF, TIV, IVC, and IX are available, depending on the protection degree, method of installation, cooling method, etc.

Ventilation Fan
A full series is available, including axial flow internal types, axial flow external types, turbo types, and multi-blade types for marine use, offering a choice to meet diverse requirements. Impellers of axial flow fan type are aluminum cast, and all due consideration has been given to their use as fans for marine use in terms both of their casing thickness and the paint skin thickness. A rich array of models including the FA, LR, FAX, FD, TB, MF, and TF are available, depending on the method of installation, purpose of use, etc.

Main Switchboard
Designed to cope with the diverse conditions that affect ships, with particular emphasis on resistance to vibration, moisture, and heat. Our technology and experience allows us to select the very best components and thus guarantee long life and high efficiency.

Starter
These feature our fault-free wiring process as well as the best drip-proof structure and vibration/shock resistance for ship machinery starters designed to monitor the starting, protection, and operating conditions of various motors. The result is that maintenance and inspections can be carried out with the greatest of ease. The compact size is enough to house all the components used, including numerous electronic parts and PCBs designed using advanced technology in accordance with the desired function. A wide variety of types are available, depending on the method of installation, drip-proof structure, individual or group starter type configuration.
Engine Control Console

Main engine control, alarm, and monitoring boards installed in the engine control room. Available in various types based on respective alarm and monitoring systems, such as TML (using group annunciators), TMA (using card cassette type annunciators), and TMC (using CRT systems and LCD touch panel systems), tailored to suit your budget and requirements.

Various Automatic Equipment

(Automatic synchronizing Device, Automatic Load-sharing Device, Engine Control Device, Alarm device, Automatic Battery Charger, Group Indicator Lights, etc.)

Offering a combination of control equipment and abundant know-how making the fullest use of leading-edge electronics technology for ships as well as industrial use.

Shaft Generating System

This is a power generating system driven by the main engine of a ship. It uses a thyristor inverter to convert AC power from a shaft generator (which frequency fluctuates in accordance with changes in the rotating speed of the main engine) into constant frequency AC power, and supplies electric power to the bus line after improving the waveform.

When adopting this system, power is generated by the main engine, offering cheaper running costs during navigation and thus conserving energy.

Meanwhile, because the operating time of diesel generator engines is vastly reduced, replacement periods for consumable parts become longer and maintenance check costs are reduced.

It can be applied to cheaper fixed-pitch propellers and can be operated continuously in parallel with diesel generators on board.

Model: SIG, SPG, SHG, and SFEK are available, depending on the method of installation.

Inverter Control System

This is an energy-saving system that enables speed control steplessly to be carried out by using an inverter to change the input voltage and frequency of a standard squirrel cage induction motor. Mechanical and electric shocks to surrounding machinery can be eased by soft start function, thus improving the surrounding environment, as well as reducing mechanical breakdowns and prolonging the life of the equipment. It uses an induction motor and the control device uses semi-conductor compatible products, making maintenance unnecessary. A full line-up is available depending on the purpose of use.

Electric Propulsion System

This electric propulsion system has been adopted to ships like, the luxurious passenger vessel which requests comfort riding, the ice-beaker which needs back-and-forth navigation, & the research ship which needs extreme low speed and reducing vibration and water noise.

Become efficient recently, and make use of merit, feeling of adoption of this system appears on a general merchant ship, as engine room space can be reduced while cargo room can be expanded, by adopting of this system.
After-sales service

TAIYO ELECTRIC's World-wide service networks at world major ports work quick service for customers' demands.

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Record

MAIN SWITCHBOARDS, EM’CY SWITCHBOARDS, STARTERS, BATTERY CHARGING BOARDS, BRIDGE CONTROL CONSOLES, MOTORS, FANS, INVERTER PANELS were delivered for AHTSV, PSV, OCEAN TOWING TUG.

- OCEAN TUG : 7
- PSV : 20
- AHTSV : 21

Package

TAIYO ELECTRIC is "TOTAL SUPPLIER" of Maine Electric Equipment. We are delivering GENERATORS, SHAFT GENERATORS, ELECTRIC PROPULSION MOTORS, OTHER MOTORS, FANS, SWITCHBOARDS, CONSOLES and so on, both Rotating Machines and Control Equipment to the customers. Also, we can offer "TOTAL SERVICES" for both Rotating Machines and Control Equipment at same time.

Certifications/Applicable rules

- NK
- ABS
- LR
- DNV·GL
- BV
- KR
- CR
- ISO 9001