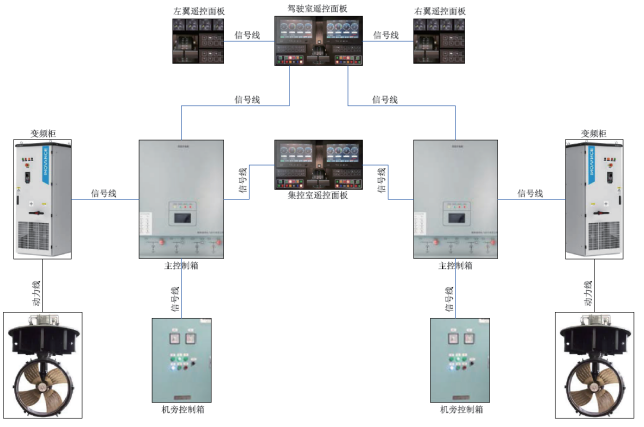
Electric propulsion remote control system

System introduction

The electric propulsion remote control system is the core system for modern ship propulsion control, primarily used for remote monitoring and operation of electric propulsion devices (such as pod propellers, azimuth thrusters, shaft generators, etc.). By integrating automation control, power management, and human-machine interaction technologies, this system achieves efficient, flexible, and reliable ship propulsion control.



System composition

Bridge console remote control panel
Bridge wing remote control panel
Remote control panel of integrated console
Main propulsion control cabinet
Local control box

System functions

Propulsion motor vector control;
Dynamic positioning and course keeping;
Optimization of power distribution in coordination with the power management system;
Safety protection and fault handling;
Functions of quick alarm display and alarm history query.

Application scenarios

The system is primarily applied to electric propulsion ships, meeting the needs of different ship types such as fixed-pitch propellers, controllable-pitch propellers, azimuth thrusters, and pod propellers

Advantages and features

The system adopts a redundant network architecture, ensuring stability and reliability;

Energy-saving and high-efficiency, with frequency conversion drive optimizing motor operation and reducing ineffective energy consumption;

Precise and flexible control, supporting single-lever control/automatic heading/speed control;

Integrated control, capable of seamless connection with PMS, EMS, and automated drive system;

Predictive maintenance, analyzing equipment status to provide early fault warnings, reducing maintenance costs;