

Global Electronic Propulsion Control System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Propulsion Control System market size is expected to reach \$ 248 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

In 2025, the number of new Electronic Propulsion Control Systems installed in global new shipbuilding and major conversion projects was approximately 9,470 units. Based on the number of propulsion control systems per ship, the average price per system was approximately USD 16,400, with a gross profit margin of approximately 24%–32%. A typical system structure includes a bridge propulsion control console (including single/dual control handles, mode selection and emergency stop buttons), an engine room propulsion control unit (including PLC or dedicated controller, redundant power supply, I/O modules), actuator modules connected to the main engine/gearbox/ CPP or electric propulsion inverter, propulsion system sensors (speed, torque, oil pressure, oil temperature, pitch feedback), communication networks (CAN, redundant Ethernet, serial bus), and alarm/event logging software. In terms of parameters, a typical system supports 1–4 main propulsion units (main engine + gearbox + propeller or motor + gearbox + propeller). Control modes include in-port/offshore/DP/towing/emergency modes. Communication interfaces support MODBUS, CAN, NMEA 2000, redundant Ethernet, etc. The system is designed for an ambient temperature of -15 to +55 °C, and its vibration resistance meets the requirements of classification societies. Power supplies are mostly 24 V DC + 230/400 V AC with redundancy. In terms of typical usage, a small offshore workboat/tugboat is usually equipped with one electronic propulsion control system; a PSV/OSV with twin engines, twin propellers, and bow thrusters is usually equipped with one integrated propulsion control system + DP interface; medium and large bulk carriers, tankers, and container ships are mostly equipped with one main propulsion control system + shut-off box/emergency control

device; and offshore engineering vessels, ferries, and high-end yachts often have their original mechanical or hybrid control systems converted to fully electronic propulsion control systems during retrofitting/upgrading.

This report studies the global Electronic Propulsion Control System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Propulsion Control System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electronic Propulsion Control System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Propulsion Control System total production and demand, 2021-2032, (Units)

Global Electronic Propulsion Control System total production value, 2021-2032, (USD Million)

Global Electronic Propulsion Control System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electronic Propulsion Control System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electronic Propulsion Control System domestic production, consumption, key domestic manufacturers and share

Global Electronic Propulsion Control System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electronic Propulsion Control System production by Touchscreen Size, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electronic Propulsion Control System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electronic Propulsion Control System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wartsila, Kongsberg, Everllence, Berg Propulsion, Noris Group, SCHOTTEL, Sturdy Corporation, RH Marine, Praxis Automation Technology, ABB, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electronic Propulsion Control System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Touchscreen Size, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electronic Propulsion Control System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electronic Propulsion Control System Market, Segmentation by Touchscreen Size:

2.5"

5.7"

8"

Others

Global Electronic Propulsion Control System Market, Segmentation by Main Engine Power:

10 MW

Global Electronic Propulsion Control System Market, Segmentation by Thrust Response Time:

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