

Global Boat Assisted Docking System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Boat Assisted Docking System market size is expected to reach \$ 656 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

From the perspective of the global marine equipment market, Boat Assisted Docking Systems remain a relatively niche market, but one with high engineering added value. In 2025, the global market is projected to see approximately 11,000 new installations of boat assisted docking systems, primarily concentrated in large yachts, passenger ferries, cruise ships, high-end service vessels, offshore engineering vessels, and some newly built intelligent commercial vessels. The price of a single system varies considerably: solutions primarily based on sensor fusion and control algorithms with limited modifications to the propulsion system have an overall delivery price of approximately US\$15,000–40,000 per unit; while systems with deep integration of propulsion, thruster, and rudder control, supporting fully automatic docking, can reach US\$80,000–200,000 per unit, with gross profit margins typically ranging from 35% to 50%, significantly higher than single navigation radar or sensor products. An Assisted Docking System is a comprehensive sensing and control system for low-speed maneuvering and docking/undocking operations of ships. Its core objective is to significantly reduce the workload and accident risk for captains and pilots during docking in complex harbors, narrow berths, strong crosswinds/currents, and high-density vessel environments. This system typically integrates marine radar, visual/optical sensors, ultrasonic/laser rangefinding, GNSS/inertial navigation, and propulsion and rudder control algorithms to achieve centimeter-level situational awareness of the vessel relative to the dock, surrounding obstacles, and target berth. It then outputs thrust, rudder angle, and thruster commands automatically or semi-automatically to assist in docking, undocking, and low-speed lateral movement

operations. From an engineering perspective, the assisted docking system is not a single device, but a system-level product comprising 'sensing layer + decision algorithm + execution interface,' and is usually included as a ship maneuvering and safety subsystem in new vessel specifications or high-level port docking requirements.

This report studies the global Boat Assisted Docking System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Boat Assisted Docking 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 Boat Assisted Docking System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Boat Assisted Docking System total production and demand, 2021-2032, (Units)

Global Boat Assisted Docking System total production value, 2021-2032, (USD Million)

Global Boat Assisted Docking System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Boat Assisted Docking System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Boat Assisted Docking System domestic production, consumption, key domestic manufacturers and share

Global Boat Assisted Docking System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Boat Assisted Docking System production by Distance Measurement Accuracy, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Boat Assisted Docking System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Boat Assisted Docking 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 Raymarine, Volvo Penta, Avikus NEUBOAT, Navtech Radar, Yanmar, Simrad, Honda, Riviera, W?rtsil?, Marautec, 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 Boat Assisted Docking 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 Distance Measurement Accuracy, 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 Boat Assisted Docking System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Boat Assisted Docking System Market, Segmentation by Distance Measurement

Accuracy:

Decimeter Level

Centimeter Level

Global Boat Assisted Docking System Market, Segmentation by Update Frequency:

1–2 Hz

?5 Hz

Global Boat Assisted Docking System Market, Segmentation by GNSS Accuracy:

Standard GNSS

Differential GNSS

Global Boat Assisted Docking System Market, Segmentation by Application:

Merchant Ship

Fishing Vessels

Others

Companies Profiled:

Raymarine

Volvo Penta

Avikus NEUBOAT

Navtech Radar

Yanmar

Simrad

Honda

Riviera

Wärtsilä

Marautec

CHUNTAI

AMI Marine

HTWG Heavy Industry

MetaX

Orca

Kongsberg

Trelleborg

CSSC

Straatman

TOYOTA MARINE

Key Questions Answered:

1. How big is the global Boat Assisted Docking System market?
2. What is the demand of the global Boat Assisted Docking System market?
3. What is the year over year growth of the global Boat Assisted Docking System market?

4. What is the production and production value of the global Boat Assisted Docking System market?
5. Who are the key producers in the global Boat Assisted Docking System market?
6. What are the growth factors driving the market demand?

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