

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

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Abstracts

The global Auto 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, Auto 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 auto 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 Auto 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 Auto Docking System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Auto 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 Auto 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 Auto Docking System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Auto Docking System Market, Segmentation by Distance Measurement Accuracy:

Decimeter Level

Centimeter Level

Global Auto Docking System Market, Segmentation by Update Frequency:

1–2 Hz

?5 Hz

Global Auto Docking System Market, Segmentation by GNSS Accuracy:

Standard GNSS

Differential GNSS

Global Auto Docking System Market, Segmentation by Application:

Merchant Ship

Fishing Vessels

Others

Companies Profiled:

Raymarine

Volvo Penta

Avikus NEUBOAT

Navtech Radar

Yanmar

Simrad

Honda

Riviera

W?rtsil?

Marautec

CHUNTAI

AMI Marine

HTWG Heavy Industry

MetaX

Orca

Kongsberg

Trelleborg

CSSC

Straatman

TOYOTA MARINE

Key Questions Answered:

1. How big is the global Auto Docking System market?
2. What is the demand of the global Auto Docking System market?
3. What is the year over year growth of the global Auto Docking System market?
4. What is the production and production value of the global Auto Docking System market?
5. Who are the key producers in the global Auto Docking System market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Auto Docking System Introduction
- 1.2 World Auto Docking System Supply & Forecast
 - 1.2.1 World Auto Docking System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Auto Docking System Production (2021-2032)
 - 1.2.3 World Auto Docking System Pricing Trends (2021-2032)
- 1.3 World Auto Docking System Production by Region (Based on Production Site)
 - 1.3.1 World Auto Docking System Production Value by Region (2021-2032)
 - 1.3.2 World Auto Docking System Production by Region (2021-2032)
 - 1.3.3 World Auto Docking System Average Price by Region (2021-2032)
 - 1.3.4 North America Auto Docking System Production (2021-2032)
 - 1.3.5 Europe Auto Docking System Production (2021-2032)
 - 1.3.6 China Auto Docking System Production (2021-2032)
 - 1.3.7 Japan Auto Docking System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Auto Docking System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Auto Docking System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Auto Docking System Demand (2021-2032)
- 2.2 World Auto Docking System Consumption by Region
 - 2.2.1 World Auto Docking System Consumption by Region (2021-2026)
 - 2.2.2 World Auto Docking System Consumption Forecast by Region (2027-2032)
- 2.3 United States Auto Docking System Consumption (2021-2032)
- 2.4 China Auto Docking System Consumption (2021-2032)
- 2.5 Europe Auto Docking System Consumption (2021-2032)
- 2.6 Japan Auto Docking System Consumption (2021-2032)
- 2.7 South Korea Auto Docking System Consumption (2021-2032)
- 2.8 ASEAN Auto Docking System Consumption (2021-2032)
- 2.9 India Auto Docking System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Auto Docking System Production Value by Manufacturer (2021-2026)

- 3.2 World Auto Docking System Production by Manufacturer (2021-2026)
- 3.3 World Auto Docking System Average Price by Manufacturer (2021-2026)
- 3.4 Auto Docking System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Auto Docking System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Auto Docking System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Auto Docking System in 2025
- 3.6 Auto Docking System Market: Overall Company Footprint Analysis
 - 3.6.1 Auto Docking System Market: Region Footprint
 - 3.6.2 Auto Docking System Market: Company Product Type Footprint
 - 3.6.3 Auto Docking System Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Auto Docking System Production Value Comparison
 - 4.1.1 United States VS China: Auto Docking System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Auto Docking System Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Auto Docking System Production Comparison
 - 4.2.1 United States VS China: Auto Docking System Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Auto Docking System Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Auto Docking System Consumption Comparison
 - 4.3.1 United States VS China: Auto Docking System Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Auto Docking System Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Auto Docking System Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Auto Docking System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Auto Docking System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Auto Docking System Production (2021-2026)

4.5 China Based Auto Docking System Manufacturers and Market Share

4.5.1 China Based Auto Docking System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Auto Docking System Production Value (2021-2026)

4.5.3 China Based Manufacturers Auto Docking System Production (2021-2026)

4.6 Rest of World Based Auto Docking System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Auto Docking System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Auto Docking System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Auto Docking System Production (2021-2026)

5 MARKET ANALYSIS BY DISTANCE MEASUREMENT ACCURACY

5.1 World Auto Docking System Market Size Overview by Distance Measurement Accuracy: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Distance Measurement Accuracy

5.2.1 Decimeter Level

5.2.2 Centimeter Level

5.3 Market Segment by Distance Measurement Accuracy

5.3.1 World Auto Docking System Production by Distance Measurement Accuracy (2021-2032)

5.3.2 World Auto Docking System Production Value by Distance Measurement Accuracy (2021-2032)

5.3.3 World Auto Docking System Average Price by Distance Measurement Accuracy (2021-2032)

6 MARKET ANALYSIS BY UPDATE FREQUENCY

6.1 World Auto Docking System Market Size Overview by Update Frequency: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Update Frequency

6.2.1 1–2 Hz

6.2.2 ?5 Hz

6.3 Market Segment by Update Frequency

6.3.1 World Auto Docking System Production by Update Frequency (2021-2032)

6.3.2 World Auto Docking System Production Value by Update Frequency (2021-2032)

6.3.3 World Auto Docking System Average Price by Update Frequency (2021-2032)

7 MARKET ANALYSIS BY GNSS ACCURACY

7.1 World Auto Docking System Market Size Overview by GNSS Accuracy: 2021 VS 2025 VS 2032

7.2 Segment Introduction by GNSS Accuracy

7.2.1 Standard GNSS

7.2.2 Differential GNSS

7.3 Market Segment by GNSS Accuracy

7.3.1 World Auto Docking System Production by GNSS Accuracy (2021-2032)

7.3.2 World Auto Docking System Production Value by GNSS Accuracy (2021-2032)

7.3.3 World Auto Docking System Average Price by GNSS Accuracy (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Auto Docking System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Merchant Ship

8.2.2 Fishing Vessels

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Auto Docking System Production by Application (2021-2032)

8.3.2 World Auto Docking System Production Value by Application (2021-2032)

8.3.3 World Auto Docking System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Raymarine

9.1.1 Raymarine Details

9.1.2 Raymarine Major Business

9.1.3 Raymarine Auto Docking System Product and Services

9.1.4 Raymarine Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Raymarine Recent Developments/Updates
- 9.1.6 Raymarine Competitive Strengths & Weaknesses
- 9.2 Volvo Penta
 - 9.2.1 Volvo Penta Details
 - 9.2.2 Volvo Penta Major Business
 - 9.2.3 Volvo Penta Auto Docking System Product and Services
 - 9.2.4 Volvo Penta Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Volvo Penta Recent Developments/Updates
 - 9.2.6 Volvo Penta Competitive Strengths & Weaknesses
- 9.3 Avikus NEUBOAT
 - 9.3.1 Avikus NEUBOAT Details
 - 9.3.2 Avikus NEUBOAT Major Business
 - 9.3.3 Avikus NEUBOAT Auto Docking System Product and Services
 - 9.3.4 Avikus NEUBOAT Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Avikus NEUBOAT Recent Developments/Updates
 - 9.3.6 Avikus NEUBOAT Competitive Strengths & Weaknesses
- 9.4 Navtech Radar
 - 9.4.1 Navtech Radar Details
 - 9.4.2 Navtech Radar Major Business
 - 9.4.3 Navtech Radar Auto Docking System Product and Services
 - 9.4.4 Navtech Radar Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Navtech Radar Recent Developments/Updates
 - 9.4.6 Navtech Radar Competitive Strengths & Weaknesses
- 9.5 Yanmar
 - 9.5.1 Yanmar Details
 - 9.5.2 Yanmar Major Business
 - 9.5.3 Yanmar Auto Docking System Product and Services
 - 9.5.4 Yanmar Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Yanmar Recent Developments/Updates
 - 9.5.6 Yanmar Competitive Strengths & Weaknesses
- 9.6 Simrad
 - 9.6.1 Simrad Details
 - 9.6.2 Simrad Major Business
 - 9.6.3 Simrad Auto Docking System Product and Services
 - 9.6.4 Simrad Auto Docking System Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.6.5 Simrad Recent Developments/Updates

9.6.6 Simrad Competitive Strengths & Weaknesses

9.7 Honda

9.7.1 Honda Details

9.7.2 Honda Major Business

9.7.3 Honda Auto Docking System Product and Services

9.7.4 Honda Auto Docking System Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.7.5 Honda Recent Developments/Updates

9.7.6 Honda Competitive Strengths & Weaknesses

9.8 Riviera

9.8.1 Riviera Details

9.8.2 Riviera Major Business

9.8.3 Riviera Auto Docking System Product and Services

9.8.4 Riviera Auto Docking System Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.8.5 Riviera Recent Developments/Updates

9.8.6 Riviera Competitive Strengths & Weaknesses

9.9 W?rtsil?

9.9.1 W?rtsil? Details

9.9.2 W?rtsil? Major Business

9.9.3 W?rtsil? Auto Docking System Product and Services

9.9.4 W?rtsil? Auto Docking System Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.9.5 W?rtsil? Recent Developments/Updates

9.9.6 W?rtsil? Competitive Strengths & Weaknesses

9.10 Marautec

9.10.1 Marautec Details

9.10.2 Marautec Major Business

9.10.3 Marautec Auto Docking System Product and Services

9.10.4 Marautec Auto Docking System Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.10.5 Marautec Recent Developments/Updates

9.10.6 Marautec Competitive Strengths & Weaknesses

9.11 CHUNTAI

9.11.1 CHUNTAI Details

9.11.2 CHUNTAI Major Business

9.11.3 CHUNTAI Auto Docking System Product and Services

9.11.4 CHUNTAI Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 CHUNTAI Recent Developments/Updates

9.11.6 CHUNTAI Competitive Strengths & Weaknesses

9.12 AMI Marine

9.12.1 AMI Marine Details

9.12.2 AMI Marine Major Business

9.12.3 AMI Marine Auto Docking System Product and Services

9.12.4 AMI Marine Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 AMI Marine Recent Developments/Updates

9.12.6 AMI Marine Competitive Strengths & Weaknesses

9.13 HTWG Heavy Industry

9.13.1 HTWG Heavy Industry Details

9.13.2 HTWG Heavy Industry Major Business

9.13.3 HTWG Heavy Industry Auto Docking System Product and Services

9.13.4 HTWG Heavy Industry Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 HTWG Heavy Industry Recent Developments/Updates

9.13.6 HTWG Heavy Industry Competitive Strengths & Weaknesses

9.14 MetaX

9.14.1 MetaX Details

9.14.2 MetaX Major Business

9.14.3 MetaX Auto Docking System Product and Services

9.14.4 MetaX Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 MetaX Recent Developments/Updates

9.14.6 MetaX Competitive Strengths & Weaknesses

9.15 Orca

9.15.1 Orca Details

9.15.2 Orca Major Business

9.15.3 Orca Auto Docking System Product and Services

9.15.4 Orca Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Orca Recent Developments/Updates

9.15.6 Orca Competitive Strengths & Weaknesses

9.16 Kongsberg

9.16.1 Kongsberg Details

9.16.2 Kongsberg Major Business

- 9.16.3 Kongsberg Auto Docking System Product and Services
- 9.16.4 Kongsberg Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Kongsberg Recent Developments/Updates
- 9.16.6 Kongsberg Competitive Strengths & Weaknesses
- 9.17 Trelleborg
 - 9.17.1 Trelleborg Details
 - 9.17.2 Trelleborg Major Business
 - 9.17.3 Trelleborg Auto Docking System Product and Services
 - 9.17.4 Trelleborg Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Trelleborg Recent Developments/Updates
 - 9.17.6 Trelleborg Competitive Strengths & Weaknesses
- 9.18 CSSC
 - 9.18.1 CSSC Details
 - 9.18.2 CSSC Major Business
 - 9.18.3 CSSC Auto Docking System Product and Services
 - 9.18.4 CSSC Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 CSSC Recent Developments/Updates
 - 9.18.6 CSSC Competitive Strengths & Weaknesses
- 9.19 Straatman
 - 9.19.1 Straatman Details
 - 9.19.2 Straatman Major Business
 - 9.19.3 Straatman Auto Docking System Product and Services
 - 9.19.4 Straatman Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Straatman Recent Developments/Updates
 - 9.19.6 Straatman Competitive Strengths & Weaknesses
- 9.20 TOYOTA MARINE
 - 9.20.1 TOYOTA MARINE Details
 - 9.20.2 TOYOTA MARINE Major Business
 - 9.20.3 TOYOTA MARINE Auto Docking System Product and Services
 - 9.20.4 TOYOTA MARINE Auto Docking System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 TOYOTA MARINE Recent Developments/Updates
 - 9.20.6 TOYOTA MARINE Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Auto Docking System Industry Chain
- 10.2 Auto Docking System Upstream Analysis
 - 10.2.1 Auto Docking System Core Raw Materials
 - 10.2.2 Main Manufacturers of Auto Docking System Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Auto Docking System Production Mode
- 10.6 Auto Docking System Procurement Model
- 10.7 Auto Docking System Industry Sales Model and Sales Channels
 - 10.7.1 Auto Docking System Sales Model
 - 10.7.2 Auto Docking System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Auto Docking System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Auto Docking System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Auto Docking System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Auto Docking System Production Value Market Share by Region (2021-2026)

Table 5. World Auto Docking System Production Value Market Share by Region (2027-2032)

Table 6. World Auto Docking System Production by Region (2021-2026) & (Units)

Table 7. World Auto Docking System Production by Region (2027-2032) & (Units)

Table 8. World Auto Docking System Production Market Share by Region (2021-2026)

Table 9. World Auto Docking System Production Market Share by Region (2027-2032)

Table 10. World Auto Docking System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Auto Docking System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Auto Docking System Major Market Trends

Table 13. World Auto Docking System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Auto Docking System Consumption by Region (2021-2026) & (Units)

Table 15. World Auto Docking System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Auto Docking System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Auto Docking System Producers in 2025

Table 18. World Auto Docking System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Auto Docking System Producers in 2025

Table 20. World Auto Docking System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Auto Docking System Company Evaluation Quadrant

Table 22. World Auto Docking System Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Auto Docking System Production Site of Key Manufacturer

Table 24. Auto Docking System Market: Company Product Type Footprint

Table 25. Auto Docking System Market: Company Product Application Footprint

Table 26. Auto Docking System Competitive Factors

Table 27. Auto Docking System New Entrant and Capacity Expansion Plans

Table 28. Auto Docking System Mergers & Acquisitions Activity

Table 29. United States VS China Auto Docking System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Auto Docking System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Auto Docking System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Auto Docking System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Auto Docking System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Auto Docking System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Auto Docking System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Auto Docking System Production Market Share (2021-2026)

Table 37. China Based Auto Docking System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Auto Docking System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Auto Docking System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Auto Docking System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Auto Docking System Production Market Share (2021-2026)

Table 42. Rest of World Based Auto Docking System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Auto Docking System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Auto Docking System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Auto Docking System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Auto Docking System Production Market Share (2021-2026)

Table 47. World Auto Docking System Production Value by Distance Measurement Accuracy, (USD Million), 2021 & 2025 & 2032

Table 48. World Auto Docking System Production by Distance Measurement Accuracy (2021-2026) & (Units)

Table 49. World Auto Docking System Production by Distance Measurement Accuracy (2027-2032) & (Units)

Table 50. World Auto Docking System Production Value by Distance Measurement Accuracy (2021-2026) & (USD Million)

Table 51. World Auto Docking System Production Value by Distance Measurement Accuracy (2027-2032) & (USD Million)

Table 52. World Auto Docking System Average Price by Distance Measurement Accuracy (2021-2026) & (K US\$/Unit)

Table 53. World Auto Docking System Average Price by Distance Measurement Accuracy (2027-2032) & (K US\$/Unit)

Table 54. World Auto Docking System Production Value by Update Frequency, (USD Million), 2021 & 2025 & 2032

Table 55. World Auto Docking System Production by Update Frequency (2021-2026) & (Units)

Table 56. World Auto Docking System Production by Update Frequency (2027-2032) & (Units)

Table 57. World Auto Docking System Production Value by Update Frequency (2021-2026) & (USD Million)

Table 58. World Auto Docking System Production Value by Update Frequency (2027-2032) & (USD Million)

Table 59. World Auto Docking System Average Price by Update Frequency (2021-2026) & (K US\$/Unit)

Table 60. World Auto Docking System Average Price by Update Frequency (2027-2032) & (K US\$/Unit)

Table 61. World Auto Docking System Production Value by GNSS Accuracy, (USD Million), 2021 & 2025 & 2032

Table 62. World Auto Docking System Production by GNSS Accuracy (2021-2026) & (Units)

Table 63. World Auto Docking System Production by GNSS Accuracy (2027-2032) & (Units)

Table 64. World Auto Docking System Production Value by GNSS Accuracy

(2021-2026) & (USD Million)

Table 65. World Auto Docking System Production Value by GNSS Accuracy

(2027-2032) & (USD Million)

Table 66. World Auto Docking System Average Price by GNSS Accuracy (2021-2026) & (K US\$/Unit)

Table 67. World Auto Docking System Average Price by GNSS Accuracy (2027-2032) & (K US\$/Unit)

Table 68. World Auto Docking System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Auto Docking System Production by Application (2021-2026) & (Units)

Table 70. World Auto Docking System Production by Application (2027-2032) & (Units)

Table 71. World Auto Docking System Production Value by Application (2021-2026) & (USD Million)

Table 72. World Auto Docking System Production Value by Application (2027-2032) & (USD Million)

Table 73. World Auto Docking System Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Auto Docking System Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Raymarine Basic Information, Manufacturing Base and Competitors

Table 76. Raymarine Major Business

Table 77. Raymarine Auto Docking System Product and Services

Table 78. Raymarine Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Raymarine Recent Developments/Updates

Table 80. Raymarine Competitive Strengths & Weaknesses

Table 81. Volvo Penta Basic Information, Manufacturing Base and Competitors

Table 82. Volvo Penta Major Business

Table 83. Volvo Penta Auto Docking System Product and Services

Table 84. Volvo Penta Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Volvo Penta Recent Developments/Updates

Table 86. Volvo Penta Competitive Strengths & Weaknesses

Table 87. Avikus NEUBOAT Basic Information, Manufacturing Base and Competitors

Table 88. Avikus NEUBOAT Major Business

Table 89. Avikus NEUBOAT Auto Docking System Product and Services

Table 90. Avikus NEUBOAT Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 91. Avikus NEUBOAT Recent Developments/Updates
- Table 92. Avikus NEUBOAT Competitive Strengths & Weaknesses
- Table 93. Navtech Radar Basic Information, Manufacturing Base and Competitors
- Table 94. Navtech Radar Major Business
- Table 95. Navtech Radar Auto Docking System Product and Services
- Table 96. Navtech Radar Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Navtech Radar Recent Developments/Updates
- Table 98. Navtech Radar Competitive Strengths & Weaknesses
- Table 99. Yanmar Basic Information, Manufacturing Base and Competitors
- Table 100. Yanmar Major Business
- Table 101. Yanmar Auto Docking System Product and Services
- Table 102. Yanmar Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Yanmar Recent Developments/Updates
- Table 104. Yanmar Competitive Strengths & Weaknesses
- Table 105. Simrad Basic Information, Manufacturing Base and Competitors
- Table 106. Simrad Major Business
- Table 107. Simrad Auto Docking System Product and Services
- Table 108. Simrad Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Simrad Recent Developments/Updates
- Table 110. Simrad Competitive Strengths & Weaknesses
- Table 111. Honda Basic Information, Manufacturing Base and Competitors
- Table 112. Honda Major Business
- Table 113. Honda Auto Docking System Product and Services
- Table 114. Honda Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Honda Recent Developments/Updates
- Table 116. Honda Competitive Strengths & Weaknesses
- Table 117. Riviera Basic Information, Manufacturing Base and Competitors
- Table 118. Riviera Major Business
- Table 119. Riviera Auto Docking System Product and Services
- Table 120. Riviera Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Riviera Recent Developments/Updates
- Table 122. Riviera Competitive Strengths & Weaknesses
- Table 123. W?rtsil? Basic Information, Manufacturing Base and Competitors
- Table 124. W?rtsil? Major Business

- Table 125. W?rtsil? Auto Docking System Product and Services
- Table 126. W?rtsil? Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. W?rtsil? Recent Developments/Updates
- Table 128. W?rtsil? Competitive Strengths & Weaknesses
- Table 129. Marautech Basic Information, Manufacturing Base and Competitors
- Table 130. Marautech Major Business
- Table 131. Marautech Auto Docking System Product and Services
- Table 132. Marautech Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Marautech Recent Developments/Updates
- Table 134. Marautech Competitive Strengths & Weaknesses
- Table 135. CHUNTAI Basic Information, Manufacturing Base and Competitors
- Table 136. CHUNTAI Major Business
- Table 137. CHUNTAI Auto Docking System Product and Services
- Table 138. CHUNTAI Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. CHUNTAI Recent Developments/Updates
- Table 140. CHUNTAI Competitive Strengths & Weaknesses
- Table 141. AMI Marine Basic Information, Manufacturing Base and Competitors
- Table 142. AMI Marine Major Business
- Table 143. AMI Marine Auto Docking System Product and Services
- Table 144. AMI Marine Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. AMI Marine Recent Developments/Updates
- Table 146. AMI Marine Competitive Strengths & Weaknesses
- Table 147. HTWG Heavy Industry Basic Information, Manufacturing Base and Competitors
- Table 148. HTWG Heavy Industry Major Business
- Table 149. HTWG Heavy Industry Auto Docking System Product and Services
- Table 150. HTWG Heavy Industry Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. HTWG Heavy Industry Recent Developments/Updates
- Table 152. HTWG Heavy Industry Competitive Strengths & Weaknesses
- Table 153. MetaX Basic Information, Manufacturing Base and Competitors
- Table 154. MetaX Major Business
- Table 155. MetaX Auto Docking System Product and Services
- Table 156. MetaX Auto Docking System Production (Units), Price (K US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. MetaX Recent Developments/Updates

Table 158. MetaX Competitive Strengths & Weaknesses

Table 159. Orca Basic Information, Manufacturing Base and Competitors

Table 160. Orca Major Business

Table 161. Orca Auto Docking System Product and Services

Table 162. Orca Auto Docking System Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Orca Recent Developments/Updates

Table 164. Orca Competitive Strengths & Weaknesses

Table 165. Kongsberg Basic Information, Manufacturing Base and Competitors

Table 166. Kongsberg Major Business

Table 167. Kongsberg Auto Docking System Product and Services

Table 168. Kongsberg Auto Docking System Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Kongsberg Recent Developments/Updates

Table 170. Kongsberg Competitive Strengths & Weaknesses

Table 171. Trelleborg Basic Information, Manufacturing Base and Competitors

Table 172. Trelleborg Major Business

Table 173. Trelleborg Auto Docking System Product and Services

Table 174. Trelleborg Auto Docking System Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Trelleborg Recent Developments/Updates

Table 176. Trelleborg Competitive Strengths & Weaknesses

Table 177. CSSC Basic Information, Manufacturing Base and Competitors

Table 178. CSSC Major Business

Table 179. CSSC Auto Docking System Product and Services

Table 180. CSSC Auto Docking System Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. CSSC Recent Developments/Updates

Table 182. CSSC Competitive Strengths & Weaknesses

Table 183. Straatman Basic Information, Manufacturing Base and Competitors

Table 184. Straatman Major Business

Table 185. Straatman Auto Docking System Product and Services

Table 186. Straatman Auto Docking System Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Straatman Recent Developments/Updates

Table 188. Straatman Competitive Strengths & Weaknesses

Table 189. TOYOTA MARINE Basic Information, Manufacturing Base and Competitors

Table 190. TOYOTA MARINE Major Business

Table 191. TOYOTA MARINE Auto Docking System Product and Services

Table 192. TOYOTA MARINE Auto Docking System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. TOYOTA MARINE Recent Developments/Updates

Table 194. TOYOTA MARINE Competitive Strengths & Weaknesses

Table 195. Global Key Players of Auto Docking System Upstream (Raw Materials)

Table 196. Global Auto Docking System Typical Customers

Table 197. Auto Docking System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Auto Docking System Picture

Figure 2. World Auto Docking System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Auto Docking System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Auto Docking System Production (2021-2032) & (Units)

Figure 5. World Auto Docking System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Auto Docking System Production Value Market Share by Region (2021-2032)

Figure 7. World Auto Docking System Production Market Share by Region (2021-2032)

Figure 8. North America Auto Docking System Production (2021-2032) & (Units)

Figure 9. Europe Auto Docking System Production (2021-2032) & (Units)

Figure 10. China Auto Docking System Production (2021-2032) & (Units)

Figure 11. Japan Auto Docking System Production (2021-2032) & (Units)

Figure 12. Auto Docking System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Auto Docking System Consumption (2021-2032) & (Units)

Figure 15. World Auto Docking System Consumption Market Share by Region (2021-2032)

Figure 16. United States Auto Docking System Consumption (2021-2032) & (Units)

Figure 17. China Auto Docking System Consumption (2021-2032) & (Units)

Figure 18. Europe Auto Docking System Consumption (2021-2032) & (Units)

Figure 19. Japan Auto Docking System Consumption (2021-2032) & (Units)

Figure 20. South Korea Auto Docking System Consumption (2021-2032) & (Units)

Figure 21. ASEAN Auto Docking System Consumption (2021-2032) & (Units)

Figure 22. India Auto Docking System Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Auto Docking System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Auto Docking System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Auto Docking System Markets in 2025

Figure 26. United States VS China: Auto Docking System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Auto Docking System Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Auto Docking System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Auto Docking System Production Market Share 2025

Figure 30. China Based Manufacturers Auto Docking System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Auto Docking System Production Market Share 2025

Figure 32. World Auto Docking System Production Value by Distance Measurement Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 33. World Auto Docking System Production Value Market Share by Distance Measurement Accuracy in 2025

Figure 34. Decimeter Level

Figure 35. Centimeter Level

Figure 36. World Auto Docking System Production Market Share by Distance Measurement Accuracy (2021-2032)

Figure 37. World Auto Docking System Production Value Market Share by Distance Measurement Accuracy (2021-2032)

Figure 38. World Auto Docking System Average Price by Distance Measurement Accuracy (2021-2032) & (K US\$/Unit)

Figure 39. World Auto Docking System Production Value by Update Frequency, (USD Million), 2021 & 2025 & 2032

Figure 40. World Auto Docking System Production Value Market Share by Update Frequency in 2025

Figure 41. 1–2 Hz

Figure 42. 75 Hz

Figure 43. World Auto Docking System Production Market Share by Update Frequency (2021-2032)

Figure 44. World Auto Docking System Production Value Market Share by Update Frequency (2021-2032)

Figure 45. World Auto Docking System Average Price by Update Frequency (2021-2032) & (K US\$/Unit)

Figure 46. World Auto Docking System Production Value by GNSS Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 47. World Auto Docking System Production Value Market Share by GNSS Accuracy in 2025

Figure 48. Standard GNSS

Figure 49. Differential GNSS

Figure 50. World Auto Docking System Production Market Share by GNSS Accuracy (2021-2032)

Figure 51. World Auto Docking System Production Value Market Share by GNSS Accuracy (2021-2032)

Figure 52. World Auto Docking System Average Price by GNSS Accuracy (2021-2032) & (K US\$/Unit)

Figure 53. World Auto Docking System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Auto Docking System Production Value Market Share by Application in 2025

Figure 55. Merchant Ship

Figure 56. Fishing Vessels

Figure 57. Others

Figure 58. World Auto Docking System Production Market Share by Application (2021-2032)

Figure 59. World Auto Docking System Production Value Market Share by Application (2021-2032)

Figure 60. World Auto Docking System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 61. Auto Docking System Industry Chain

Figure 62. Auto Docking System Procurement Model

Figure 63. Auto Docking System Sales Model

Figure 64. Auto Docking System Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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