

# Global Marine Wave Radars Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Marine Wave Radars market size is expected to reach \$ 86.84 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032). Marine wave radar, in the current engineering and observation systems, remains a relatively small-scale, engineering-oriented device, with a price level significantly lower than military or high-end surveillance radars. In 2025, the global annual new installations of marine wave radar are projected to be approximately 12,400 units, a considerable portion of which will come from standardized configurations in ports, offshore engineering projects, offshore wind farms, and shore-based observation points. The price per unit is around US\$3,700, primarily for software-based or lightly modified solutions built on X-band navigation radar platforms with added wave inversion algorithms. In high-end engineering and energy scenarios, systems with higher stability, dedicated antennas, algorithm licensing, and long-term service can reach a delivery price of US\$15,000-30,000 per unit, but these represent a limited proportion. Overall, the system-level gross profit margin for these products is approximately 30%-45%, significantly lower than military radars but higher than ordinary navigation radar systems. Typical usage includes: one wave radar unit per port or critical waterway node; one to two units per offshore wind farm substation or construction base port; and two to four units deployed in large offshore engineering or oil and gas operation areas based on coverage requirements, creating a continuous demand for replacement and expansion.

### Supply Chain

The upstream supply chain for marine wave radars primarily includes: high-stability RF power amplifiers and microwave components, radar antennas and rotation/stabilization mechanisms, high-speed signal processing chips and industrial computing units, corrosion-resistant metal and composite material housings, high-reliability marine-grade connectors and cables, and algorithmic software and embedded systems. The

combined costs of raw materials, precision manufacturing, system integration, and software development typically account for 55%–70% of the total system cost. RF stability, antenna consistency, and long-term reliability in marine environments directly determine system performance and engineering acceptance. Typical upstream suppliers include: Analog Devices, Infineon, NXP Semiconductors, Rohde & Schwarz, and TE Connectivity, which define the cost and technological boundaries in terms of RF performance, long-term supply, and industrial-grade reliability.

#### Manufacturer Characteristics

Radac, Miros, and Rutter have the deepest experience in engineering-grade wave radars and quantitative inversion algorithms, and their products have been widely incorporated into European and North American engineering and port specifications; Furuno, Garmin, and Raymarine, on the other hand, rely more on mature navigation radar platforms, entering the wave monitoring application market through algorithmic and system upgrades; Chinese manufacturers are gradually increasing their market share in the port and offshore engineering markets.

#### Case Study

In 2024, a North Sea country issued tender documents for a new offshore wind farm and waterway safety monitoring project, explicitly requiring the deployment of Marine Wave Radars at substations and key waterway nodes to continuously obtain significant wave height, dominant wave direction, and period data. The requirements included a coverage radius of at least 3 km, a data refresh cycle of  $\approx 3$  minutes, and the ability for the system to operate year-round in strong winds, rain, snow, and high humidity and salt spray environments, and to interface with existing sea state warning and operational decision-making systems. The project ultimately adopted Radac (Delft)'s wave radar system as the core equipment, combined with Miros' wave inversion and quality control algorithms, and supplemented with Rutter's radar processing solutions on some offshore platforms. A total of 18 wave radar systems were deployed, becoming the standard configuration for subsequent offshore wind power and port engineering projects in that country.

#### Applications

Marine Wave Radar is primarily used in: sea state monitoring around offshore wind farms and substations, port and waterway safety management, operational decision-making for offshore oil and gas and Floating Production Storage and Offloading (FPSO) units, assessment of construction and lifting windows for offshore engineering projects, long-term observation of coastal and offshore sea conditions, and research on wave evolution and extreme sea states by research institutions. Typical downstream customers include: national marine and meteorological agencies, port authorities and waterway administrations, offshore wind power developers and operators, international oil and gas companies, and large offshore engineering and marine equipment

contractors, such as NOAA, Ørsted, Equinor, Shell, and DNV.

### Breakthrough Strategy

For Marine Wave Radar manufacturers, the real breakthrough direction is not to continue making radar hardware 'more expensive and more complex,' but to transform wave radar from an 'optional monitoring device' into a 'default data node in engineering and operational systems.' Specifically, the first step is to proactively engage in application-side specifications: focusing on high-frequency decision-making scenarios such as port operation window assessment, offshore wind turbine lifting safety, and waterway navigation restrictions, directly mapping the significant wave height, dominant wave direction, and period indicators output by the radar to engineering rules for 'whether operations are feasible,' thus ensuring that owners mandate the use of wave radar data in tender documents and operating procedures; the second step is to lower the product form, no longer emphasizing 'dedicated radar,' but transforming the wave inversion capability into a quickly deployable 'radar + algorithm module' that can be directly mounted on existing shipborne or shore-based X-band radar platforms, entering projects with incremental costs of a few thousand dollars, rapidly expanding the accessible market; the third step is to shift from one-time equipment sales to project-based and service-bound models, extending the lifecycle revenue of a single unit through algorithm licensing, data interface subscriptions, operation and maintenance support, and annual calibration services, rather than competing directly with navigation radar on hardware unit price; the fourth step is systematic bundled sales, packaging Marine Wave Radar with buoys, wave acceleration sensors, weather stations, or port dispatch systems as a complete 'sea state sensing subsystem,' making the radar no longer an isolated procurement item, but an indispensable part of the system. Through the above approach, manufacturers can significantly increase installation volume, project penetration, and long-term revenue without a significant increase in the unit price. This is the most realistic and replicable breakthrough strategy in the low-unit-price, engineering-oriented market of Marine Wave Radar.

### Market Influences

The growth of the Marine Wave Radar market is driven, on the one hand, by the increasing intensity of offshore wind power, port upgrades, and marine engineering activities – the further offshore and deeper the engineering projects extend, the greater the reliance on non-contact, area-based, real-time wave data. On the other hand, the increasing frequency of extreme weather events and rising safety and compliance requirements are leading port and energy operators to increasingly adopt wave radar as the 'front-end sensing layer' for operational decision-making. Regionally, Europe continues to lead in standards and demand in the port and offshore wind power sectors, North America maintains stability in research and oil and gas applications, while China, with the intelligentization of ports and the large-scale construction of offshore wind

farms, is becoming the fastest-growing market for new installations. In terms of cost and competition, radio frequency and algorithms constitute the core barriers. The scope for simple hardware price competition is limited, instead driving leading manufacturers to secure project lifecycle value through system integration, software licensing, and long-term service contracts. Overall, marine wave radar will remain a specialized niche market driven by engineering projects, with gradually solidifying standards and slowly increasing concentration. Its growth logic is highly correlated with investment in marine infrastructure.

This report studies the global Marine Wave Radars production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Marine Wave Radars 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 Marine Wave Radars that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Marine Wave Radars total production and demand, 2021-2032, (K Units)

Global Marine Wave Radars total production value, 2021-2032, (USD Million)

Global Marine Wave Radars production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Marine Wave Radars consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Marine Wave Radars domestic production, consumption, key domestic manufacturers and share

Global Marine Wave Radars production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Marine Wave Radars production by Operating Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Marine Wave Radars production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Marine Wave Radars 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 RS Aqua (Xylem) (Public, Portsmouth, UK), Furuno (Public, Hyogo, Japan), Radac (Private, Delft, Netherlands), Miros (Private, Asker, Norway), Rutter (Public, Newfoundland, Canada), Garmin (Public, Olathe, USA), FutureWaves (Public, Groton, USA), CODAR (Private, Mountain View, USA), Raymarine (Public, Hudson, USA), Wartsila (Public, Helsinki, Finland), 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 Marine Wave Radars market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Operating Frequency Band, 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 Marine Wave Radars Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Marine Wave Radars Market, Segmentation by Operating Frequency Band:

HF-Band

X-Band

Global Marine Wave Radars Market, Segmentation by Coverage:

?1?2 km

2?6 km

>10 km

#### Global Marine Wave Radars Market, Segmentation by Update Rate:

?10 min

2?5 min

?1 min

#### Global Marine Wave Radars Market, Segmentation by Application:

Merchant Ships

Offshore Platforms

Land-Based Observation Stations

Others

#### **Companies Profiled:**

RS Aqua (Xylem) (Public, Portsmouth, UK)

Furuno (Public, Hyogo, Japan)

Radac (Private, Delft, Netherlands)

Miros (Private, Asker, Norway)

Rutter (Public, Newfoundland, Canada)

Garmin (Public, Olathe, USA)

FutureWaves (Public, Groton, USA)

CODAR (Private, Mountain View, USA)

Raymarine (Public, Hudson, USA)

Wartsila (Public, Helsinki, Finland)

Sperry Marine (Public, Charlottesville, USA)

Norwegian Subsea (Private, Oslo, Norway)

OceanWise (Private, Alton, UK)

WISE Group (Private, Stavanger, Norway)

Obscape (Private, Delft, Netherlands)

Helzel (Private, Kaltenkirchen, Germany)

Kekan Marine Technology (Private, Yantai, China)

Vic-Ocean (Private, Qingdao, China)

Wellmax (Private, Nanjing, China)

Nortek (Private, Oslo, Norway)

### **Key Questions Answered:**

1. How big is the global Marine Wave Radars market?
2. What is the demand of the global Marine Wave Radars market?
3. What is the year over year growth of the global Marine Wave Radars market?
4. What is the production and production value of the global Marine Wave Radars market?
5. Who are the key producers in the global Marine Wave Radars market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Marine Wave Radars Production Value by Manufacturer (2021-2026)

- 3.2 World Marine Wave Radars Production by Manufacturer (2021-2026)
- 3.3 World Marine Wave Radars Average Price by Manufacturer (2021-2026)
- 3.4 Marine Wave Radars Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Marine Wave Radars Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Marine Wave Radars in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Marine Wave Radars in 2025
- 3.6 Marine Wave Radars Market: Overall Company Footprint Analysis
  - 3.6.1 Marine Wave Radars Market: Region Footprint
  - 3.6.2 Marine Wave Radars Market: Company Product Type Footprint
  - 3.6.3 Marine Wave Radars 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: Marine Wave Radars Production Value Comparison
  - 4.1.1 United States VS China: Marine Wave Radars Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Marine Wave Radars Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Marine Wave Radars Production Comparison
  - 4.2.1 United States VS China: Marine Wave Radars Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Marine Wave Radars Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Marine Wave Radars Consumption Comparison
  - 4.3.1 United States VS China: Marine Wave Radars Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Marine Wave Radars Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Marine Wave Radars Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Marine Wave Radars Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Marine Wave Radars Production Value (2021-2026)

4.4.3 United States Based Manufacturers Marine Wave Radars Production (2021-2026)

4.5 China Based Marine Wave Radars Manufacturers and Market Share

4.5.1 China Based Marine Wave Radars Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Marine Wave Radars Production Value (2021-2026)

4.5.3 China Based Manufacturers Marine Wave Radars Production (2021-2026)

4.6 Rest of World Based Marine Wave Radars Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Marine Wave Radars Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Marine Wave Radars Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Marine Wave Radars Production (2021-2026)

## **5 MARKET ANALYSIS BY OPERATING FREQUENCY BAND**

5.1 World Marine Wave Radars Market Size Overview by Operating Frequency Band: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Operating Frequency Band

5.2.1 HF-Band

5.2.2 X-Band

5.3 Market Segment by Operating Frequency Band

5.3.1 World Marine Wave Radars Production by Operating Frequency Band (2021-2032)

5.3.2 World Marine Wave Radars Production Value by Operating Frequency Band (2021-2032)

5.3.3 World Marine Wave Radars Average Price by Operating Frequency Band (2021-2032)

## **6 MARKET ANALYSIS BY COVERAGE**

6.1 World Marine Wave Radars Market Size Overview by Coverage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Coverage

6.2.1 ?1?2 km

6.2.2 2?6 km

6.2.3 >10 km

### 6.3 Market Segment by Coverage

6.3.1 World Marine Wave Radars Production by Coverage (2021-2032)

6.3.2 World Marine Wave Radars Production Value by Coverage (2021-2032)

6.3.3 World Marine Wave Radars Average Price by Coverage (2021-2032)

## 7 MARKET ANALYSIS BY UPDATE RATE

7.1 World Marine Wave Radars Market Size Overview by Update Rate: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Update Rate

7.2.1 ?10 min

7.2.2 2?5 min

7.2.3 ?1 min

7.3 Market Segment by Update Rate

7.3.1 World Marine Wave Radars Production by Update Rate (2021-2032)

7.3.2 World Marine Wave Radars Production Value by Update Rate (2021-2032)

7.3.3 World Marine Wave Radars Average Price by Update Rate (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Marine Wave Radars Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Merchant Ships

8.2.2 Offshore Platforms

8.2.3 Land-Based Observation Stations

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Marine Wave Radars Production by Application (2021-2032)

8.3.2 World Marine Wave Radars Production Value by Application (2021-2032)

8.3.3 World Marine Wave Radars Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 RS Aqua (Xylem) (Public, Portsmouth, UK)

9.1.1 RS Aqua (Xylem) (Public, Portsmouth, UK) Details

9.1.2 RS Aqua (Xylem) (Public, Portsmouth, UK) Major Business

9.1.3 RS Aqua (Xylem) (Public, Portsmouth, UK) Marine Wave Radars Product and Services

9.1.4 RS Aqua (Xylem) (Public, Portsmouth, UK) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 RS Aqua (Xylem) (Public, Portsmouth, UK) Recent Developments/Updates

9.1.6 RS Aqua (Xylem) (Public, Portsmouth, UK) Competitive Strengths & Weaknesses

9.2 Furuno (Public, Hyogo, Japan)

9.2.1 Furuno (Public, Hyogo, Japan) Details

9.2.2 Furuno (Public, Hyogo, Japan) Major Business

9.2.3 Furuno (Public, Hyogo, Japan) Marine Wave Radars Product and Services

9.2.4 Furuno (Public, Hyogo, Japan) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Furuno (Public, Hyogo, Japan) Recent Developments/Updates

9.2.6 Furuno (Public, Hyogo, Japan) Competitive Strengths & Weaknesses

9.3 Radac (Private, Delft, Netherlands)

9.3.1 Radac (Private, Delft, Netherlands) Details

9.3.2 Radac (Private, Delft, Netherlands) Major Business

9.3.3 Radac (Private, Delft, Netherlands) Marine Wave Radars Product and Services

9.3.4 Radac (Private, Delft, Netherlands) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Radac (Private, Delft, Netherlands) Recent Developments/Updates

9.3.6 Radac (Private, Delft, Netherlands) Competitive Strengths & Weaknesses

9.4 Miros (Private, Asker, Norway)

9.4.1 Miros (Private, Asker, Norway) Details

9.4.2 Miros (Private, Asker, Norway) Major Business

9.4.3 Miros (Private, Asker, Norway) Marine Wave Radars Product and Services

9.4.4 Miros (Private, Asker, Norway) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Miros (Private, Asker, Norway) Recent Developments/Updates

9.4.6 Miros (Private, Asker, Norway) Competitive Strengths & Weaknesses

9.5 Rutter (Public, Newfoundland, Canada)

9.5.1 Rutter (Public, Newfoundland, Canada) Details

9.5.2 Rutter (Public, Newfoundland, Canada) Major Business

9.5.3 Rutter (Public, Newfoundland, Canada) Marine Wave Radars Product and Services

9.5.4 Rutter (Public, Newfoundland, Canada) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Rutter (Public, Newfoundland, Canada) Recent Developments/Updates

- 9.5.6 Rutter (Public, Newfoundland, Canada) Competitive Strengths & Weaknesses
- 9.6 Garmin (Public, Olathe, USA)
  - 9.6.1 Garmin (Public, Olathe, USA) Details
  - 9.6.2 Garmin (Public, Olathe, USA) Major Business
  - 9.6.3 Garmin (Public, Olathe, USA) Marine Wave Radars Product and Services
  - 9.6.4 Garmin (Public, Olathe, USA) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Garmin (Public, Olathe, USA) Recent Developments/Updates
  - 9.6.6 Garmin (Public, Olathe, USA) Competitive Strengths & Weaknesses
- 9.7 FutureWaves (Public, Groton, USA)
  - 9.7.1 FutureWaves (Public, Groton, USA) Details
  - 9.7.2 FutureWaves (Public, Groton, USA) Major Business
  - 9.7.3 FutureWaves (Public, Groton, USA) Marine Wave Radars Product and Services
  - 9.7.4 FutureWaves (Public, Groton, USA) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 FutureWaves (Public, Groton, USA) Recent Developments/Updates
  - 9.7.6 FutureWaves (Public, Groton, USA) Competitive Strengths & Weaknesses
- 9.8 CODAR (Private, Mountain View, USA)
  - 9.8.1 CODAR (Private, Mountain View, USA) Details
  - 9.8.2 CODAR (Private, Mountain View, USA) Major Business
  - 9.8.3 CODAR (Private, Mountain View, USA) Marine Wave Radars Product and Services
  - 9.8.4 CODAR (Private, Mountain View, USA) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 CODAR (Private, Mountain View, USA) Recent Developments/Updates
  - 9.8.6 CODAR (Private, Mountain View, USA) Competitive Strengths & Weaknesses
- 9.9 Raymarine (Public, Hudson, USA)
  - 9.9.1 Raymarine (Public, Hudson, USA) Details
  - 9.9.2 Raymarine (Public, Hudson, USA) Major Business
  - 9.9.3 Raymarine (Public, Hudson, USA) Marine Wave Radars Product and Services
  - 9.9.4 Raymarine (Public, Hudson, USA) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Raymarine (Public, Hudson, USA) Recent Developments/Updates
  - 9.9.6 Raymarine (Public, Hudson, USA) Competitive Strengths & Weaknesses
- 9.10 Wartsila (Public, Helsinki, Finland)
  - 9.10.1 Wartsila (Public, Helsinki, Finland) Details
  - 9.10.2 Wartsila (Public, Helsinki, Finland) Major Business
  - 9.10.3 Wartsila (Public, Helsinki, Finland) Marine Wave Radars Product and Services
  - 9.10.4 Wartsila (Public, Helsinki, Finland) Marine Wave Radars Production, Price,

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

9.10.5 Wartsila (Public, Helsinki, Finland) Recent Developments/Updates

9.10.6 Wartsila (Public, Helsinki, Finland) Competitive Strengths & Weaknesses

9.11 Sperry Marine (Public, Charlottesville, USA)

9.11.1 Sperry Marine (Public, Charlottesville, USA) Details

9.11.2 Sperry Marine (Public, Charlottesville, USA) Major Business

9.11.3 Sperry Marine (Public, Charlottesville, USA) Marine Wave Radars Product and Services

9.11.4 Sperry Marine (Public, Charlottesville, USA) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Sperry Marine (Public, Charlottesville, USA) Recent Developments/Updates

9.11.6 Sperry Marine (Public, Charlottesville, USA) Competitive Strengths & Weaknesses

9.12 Norwegian Subsea (Private, Oslo, Norway)

9.12.1 Norwegian Subsea (Private, Oslo, Norway) Details

9.12.2 Norwegian Subsea (Private, Oslo, Norway) Major Business

9.12.3 Norwegian Subsea (Private, Oslo, Norway) Marine Wave Radars Product and Services

9.12.4 Norwegian Subsea (Private, Oslo, Norway) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Norwegian Subsea (Private, Oslo, Norway) Recent Developments/Updates

9.12.6 Norwegian Subsea (Private, Oslo, Norway) Competitive Strengths & Weaknesses

9.13 OceanWise (Private, Alton, UK)

9.13.1 OceanWise (Private, Alton, UK) Details

9.13.2 OceanWise (Private, Alton, UK) Major Business

9.13.3 OceanWise (Private, Alton, UK) Marine Wave Radars Product and Services

9.13.4 OceanWise (Private, Alton, UK) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 OceanWise (Private, Alton, UK) Recent Developments/Updates

9.13.6 OceanWise (Private, Alton, UK) Competitive Strengths & Weaknesses

9.14 WISE Group (Private, Stavanger, Norway)

9.14.1 WISE Group (Private, Stavanger, Norway) Details

9.14.2 WISE Group (Private, Stavanger, Norway) Major Business

9.14.3 WISE Group (Private, Stavanger, Norway) Marine Wave Radars Product and Services

9.14.4 WISE Group (Private, Stavanger, Norway) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 WISE Group (Private, Stavanger, Norway) Recent Developments/Updates

- 9.14.6 WISE Group (Private, Stavanger, Norway) Competitive Strengths & Weaknesses
- 9.15 Obscape (Private, Delft, Netherlands)
  - 9.15.1 Obscape (Private, Delft, Netherlands) Details
  - 9.15.2 Obscape (Private, Delft, Netherlands) Major Business
  - 9.15.3 Obscape (Private, Delft, Netherlands) Marine Wave Radars Product and Services
  - 9.15.4 Obscape (Private, Delft, Netherlands) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Obscape (Private, Delft, Netherlands) Recent Developments/Updates
  - 9.15.6 Obscape (Private, Delft, Netherlands) Competitive Strengths & Weaknesses
- 9.16 Helzel (Private, Kaltenkirchen, Germany)
  - 9.16.1 Helzel (Private, Kaltenkirchen, Germany) Details
  - 9.16.2 Helzel (Private, Kaltenkirchen, Germany) Major Business
  - 9.16.3 Helzel (Private, Kaltenkirchen, Germany) Marine Wave Radars Product and Services
  - 9.16.4 Helzel (Private, Kaltenkirchen, Germany) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Helzel (Private, Kaltenkirchen, Germany) Recent Developments/Updates
  - 9.16.6 Helzel (Private, Kaltenkirchen, Germany) Competitive Strengths & Weaknesses
- 9.17 Kekan Marine Technology (Private, Yantai, China)
  - 9.17.1 Kekan Marine Technology (Private, Yantai, China) Details
  - 9.17.2 Kekan Marine Technology (Private, Yantai, China) Major Business
  - 9.17.3 Kekan Marine Technology (Private, Yantai, China) Marine Wave Radars Product and Services
  - 9.17.4 Kekan Marine Technology (Private, Yantai, China) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Kekan Marine Technology (Private, Yantai, China) Recent Developments/Updates
  - 9.17.6 Kekan Marine Technology (Private, Yantai, China) Competitive Strengths & Weaknesses
- 9.18 Vic-Ocean (Private, Qingdao, China)
  - 9.18.1 Vic-Ocean (Private, Qingdao, China) Details
  - 9.18.2 Vic-Ocean (Private, Qingdao, China) Major Business
  - 9.18.3 Vic-Ocean (Private, Qingdao, China) Marine Wave Radars Product and Services
  - 9.18.4 Vic-Ocean (Private, Qingdao, China) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 Vic-Ocean (Private, Qingdao, China) Recent Developments/Updates

- 9.18.6 Vic-Ocean (Private, Qingdao, China) Competitive Strengths & Weaknesses
- 9.19 Wellmax (Private, Nanjing, China)
  - 9.19.1 Wellmax (Private, Nanjing, China) Details
  - 9.19.2 Wellmax (Private, Nanjing, China) Major Business
  - 9.19.3 Wellmax (Private, Nanjing, China) Marine Wave Radars Product and Services
  - 9.19.4 Wellmax (Private, Nanjing, China) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 Wellmax (Private, Nanjing, China) Recent Developments/Updates
  - 9.19.6 Wellmax (Private, Nanjing, China) Competitive Strengths & Weaknesses
- 9.20 Nortek (Private, Oslo, Norway)
  - 9.20.1 Nortek (Private, Oslo, Norway) Details
  - 9.20.2 Nortek (Private, Oslo, Norway) Major Business
  - 9.20.3 Nortek (Private, Oslo, Norway) Marine Wave Radars Product and Services
  - 9.20.4 Nortek (Private, Oslo, Norway) Marine Wave Radars Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.20.5 Nortek (Private, Oslo, Norway) Recent Developments/Updates
  - 9.20.6 Nortek (Private, Oslo, Norway) Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Marine Wave Radars Industry Chain
- 10.2 Marine Wave Radars Upstream Analysis
  - 10.2.1 Marine Wave Radars Core Raw Materials
  - 10.2.2 Main Manufacturers of Marine Wave Radars Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Marine Wave Radars Production Mode
- 10.6 Marine Wave Radars Procurement Model
- 10.7 Marine Wave Radars Industry Sales Model and Sales Channels
  - 10.7.1 Marine Wave Radars Sales Model
  - 10.7.2 Marine Wave Radars 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 Marine Wave Radars Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Marine Wave Radars Production Value by Region (2021-2026) & (USD Million)

Table 3. World Marine Wave Radars Production Value by Region (2027-2032) & (USD Million)

Table 4. World Marine Wave Radars Production Value Market Share by Region (2021-2026)

Table 5. World Marine Wave Radars Production Value Market Share by Region (2027-2032)

Table 6. World Marine Wave Radars Production by Region (2021-2026) & (K Units)

Table 7. World Marine Wave Radars Production by Region (2027-2032) & (K Units)

Table 8. World Marine Wave Radars Production Market Share by Region (2021-2026)

Table 9. World Marine Wave Radars Production Market Share by Region (2027-2032)

Table 10. World Marine Wave Radars Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Marine Wave Radars Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Marine Wave Radars Major Market Trends

Table 13. World Marine Wave Radars Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Marine Wave Radars Consumption by Region (2021-2026) & (K Units)

Table 15. World Marine Wave Radars Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Marine Wave Radars Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Marine Wave Radars Producers in 2025

Table 18. World Marine Wave Radars Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Marine Wave Radars Producers in 2025

Table 20. World Marine Wave Radars Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Marine Wave Radars Company Evaluation Quadrant

Table 22. World Marine Wave Radars Industry Rank of Major Manufacturers, Based on

## Production Value in 2025

Table 23. Head Office and Marine Wave Radars Production Site of Key Manufacturer

Table 24. Marine Wave Radars Market: Company Product Type Footprint

Table 25. Marine Wave Radars Market: Company Product Application Footprint

Table 26. Marine Wave Radars Competitive Factors

Table 27. Marine Wave Radars New Entrant and Capacity Expansion Plans

Table 28. Marine Wave Radars Mergers & Acquisitions Activity

Table 29. United States VS China Marine Wave Radars Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Marine Wave Radars Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Marine Wave Radars Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Marine Wave Radars Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Marine Wave Radars Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Marine Wave Radars Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Marine Wave Radars Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Marine Wave Radars Production Market Share (2021-2026)

Table 37. China Based Marine Wave Radars Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Marine Wave Radars Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Marine Wave Radars Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Marine Wave Radars Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Marine Wave Radars Production Market Share (2021-2026)

Table 42. Rest of World Based Marine Wave Radars Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Marine Wave Radars Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Marine Wave Radars Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Marine Wave Radars Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Marine Wave Radars Production Market Share (2021-2026)

Table 47. World Marine Wave Radars Production Value by Operating Frequency Band, (USD Million), 2021 & 2025 & 2032

Table 48. World Marine Wave Radars Production by Operating Frequency Band (2021-2026) & (K Units)

Table 49. World Marine Wave Radars Production by Operating Frequency Band (2027-2032) & (K Units)

Table 50. World Marine Wave Radars Production Value by Operating Frequency Band (2021-2026) & (USD Million)

Table 51. World Marine Wave Radars Production Value by Operating Frequency Band (2027-2032) & (USD Million)

Table 52. World Marine Wave Radars Average Price by Operating Frequency Band (2021-2026) & (US\$/Unit)

Table 53. World Marine Wave Radars Average Price by Operating Frequency Band (2027-2032) & (US\$/Unit)

Table 54. World Marine Wave Radars Production Value by Coverage, (USD Million), 2021 & 2025 & 2032

Table 55. World Marine Wave Radars Production by Coverage (2021-2026) & (K Units)

Table 56. World Marine Wave Radars Production by Coverage (2027-2032) & (K Units)

Table 57. World Marine Wave Radars Production Value by Coverage (2021-2026) & (USD Million)

Table 58. World Marine Wave Radars Production Value by Coverage (2027-2032) & (USD Million)

Table 59. World Marine Wave Radars Average Price by Coverage (2021-2026) & (US\$/Unit)

Table 60. World Marine Wave Radars Average Price by Coverage (2027-2032) & (US\$/Unit)

Table 61. World Marine Wave Radars Production Value by Update Rate, (USD Million), 2021 & 2025 & 2032

Table 62. World Marine Wave Radars Production by Update Rate (2021-2026) & (K Units)

Table 63. World Marine Wave Radars Production by Update Rate (2027-2032) & (K Units)

Table 64. World Marine Wave Radars Production Value by Update Rate (2021-2026) & (USD Million)

Table 65. World Marine Wave Radars Production Value by Update Rate (2027-2032) &

(USD Million)

Table 66. World Marine Wave Radars Average Price by Update Rate (2021-2026) & (US\$/Unit)

Table 67. World Marine Wave Radars Average Price by Update Rate (2027-2032) & (US\$/Unit)

Table 68. World Marine Wave Radars Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Marine Wave Radars Production by Application (2021-2026) & (K Units)

Table 70. World Marine Wave Radars Production by Application (2027-2032) & (K Units)

Table 71. World Marine Wave Radars Production Value by Application (2021-2026) & (USD Million)

Table 72. World Marine Wave Radars Production Value by Application (2027-2032) & (USD Million)

Table 73. World Marine Wave Radars Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Marine Wave Radars Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. RS Aqua (Xylem) (Public, Portsmouth, UK) Basic Information, Manufacturing Base and Competitors

Table 76. RS Aqua (Xylem) (Public, Portsmouth, UK) Major Business

Table 77. RS Aqua (Xylem) (Public, Portsmouth, UK) Marine Wave Radars Product and Services

Table 78. RS Aqua (Xylem) (Public, Portsmouth, UK) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. RS Aqua (Xylem) (Public, Portsmouth, UK) Recent Developments/Updates

Table 80. RS Aqua (Xylem) (Public, Portsmouth, UK) Competitive Strengths & Weaknesses

Table 81. Furuno (Public, Hyogo, Japan) Basic Information, Manufacturing Base and Competitors

Table 82. Furuno (Public, Hyogo, Japan) Major Business

Table 83. Furuno (Public, Hyogo, Japan) Marine Wave Radars Product and Services

Table 84. Furuno (Public, Hyogo, Japan) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Furuno (Public, Hyogo, Japan) Recent Developments/Updates

Table 86. Furuno (Public, Hyogo, Japan) Competitive Strengths & Weaknesses

Table 87. Radac (Private, Delft, Netherlands) Basic Information, Manufacturing Base and Competitors

Table 88. Radac (Private, Delft, Netherlands) Major Business

Table 89. Radac (Private, Delft, Netherlands) Marine Wave Radars Product and Services

Table 90. Radac (Private, Delft, Netherlands) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Radac (Private, Delft, Netherlands) Recent Developments/Updates

Table 92. Radac (Private, Delft, Netherlands) Competitive Strengths & Weaknesses

Table 93. Miros (Private, Asker, Norway) Basic Information, Manufacturing Base and Competitors

Table 94. Miros (Private, Asker, Norway) Major Business

Table 95. Miros (Private, Asker, Norway) Marine Wave Radars Product and Services

Table 96. Miros (Private, Asker, Norway) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Miros (Private, Asker, Norway) Recent Developments/Updates

Table 98. Miros (Private, Asker, Norway) Competitive Strengths & Weaknesses

Table 99. Rutter (Public, Newfoundland, Canada) Basic Information, Manufacturing Base and Competitors

Table 100. Rutter (Public, Newfoundland, Canada) Major Business

Table 101. Rutter (Public, Newfoundland, Canada) Marine Wave Radars Product and Services

Table 102. Rutter (Public, Newfoundland, Canada) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Rutter (Public, Newfoundland, Canada) Recent Developments/Updates

Table 104. Rutter (Public, Newfoundland, Canada) Competitive Strengths & Weaknesses

Table 105. Garmin (Public, Olathe, USA) Basic Information, Manufacturing Base and Competitors

Table 106. Garmin (Public, Olathe, USA) Major Business

Table 107. Garmin (Public, Olathe, USA) Marine Wave Radars Product and Services

Table 108. Garmin (Public, Olathe, USA) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Garmin (Public, Olathe, USA) Recent Developments/Updates

Table 110. Garmin (Public, Olathe, USA) Competitive Strengths & Weaknesses

Table 111. FutureWaves (Public, Groton, USA) Basic Information, Manufacturing Base and Competitors

Table 112. FutureWaves (Public, Groton, USA) Major Business

Table 113. FutureWaves (Public, Groton, USA) Marine Wave Radars Product and Services

Table 114. FutureWaves (Public, Groton, USA) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. FutureWaves (Public, Groton, USA) Recent Developments/Updates

Table 116. FutureWaves (Public, Groton, USA) Competitive Strengths & Weaknesses

Table 117. CODAR (Private, Mountain View, USA) Basic Information, Manufacturing Base and Competitors

Table 118. CODAR (Private, Mountain View, USA) Major Business

Table 119. CODAR (Private, Mountain View, USA) Marine Wave Radars Product and Services

Table 120. CODAR (Private, Mountain View, USA) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. CODAR (Private, Mountain View, USA) Recent Developments/Updates

Table 122. CODAR (Private, Mountain View, USA) Competitive Strengths & Weaknesses

Table 123. Raymarine (Public, Hudson, USA) Basic Information, Manufacturing Base and Competitors

Table 124. Raymarine (Public, Hudson, USA) Major Business

Table 125. Raymarine (Public, Hudson, USA) Marine Wave Radars Product and Services

Table 126. Raymarine (Public, Hudson, USA) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Raymarine (Public, Hudson, USA) Recent Developments/Updates

Table 128. Raymarine (Public, Hudson, USA) Competitive Strengths & Weaknesses

Table 129. Wartsila (Public, Helsinki, Finland) Basic Information, Manufacturing Base and Competitors

Table 130. Wartsila (Public, Helsinki, Finland) Major Business

Table 131. Wartsila (Public, Helsinki, Finland) Marine Wave Radars Product and Services

Table 132. Wartsila (Public, Helsinki, Finland) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 133. Wartsila (Public, Helsinki, Finland) Recent Developments/Updates
- Table 134. Wartsila (Public, Helsinki, Finland) Competitive Strengths & Weaknesses
- Table 135. Sperry Marine (Public, Charlottesville, USA) Basic Information, Manufacturing Base and Competitors
- Table 136. Sperry Marine (Public, Charlottesville, USA) Major Business
- Table 137. Sperry Marine (Public, Charlottesville, USA) Marine Wave Radars Product and Services
- Table 138. Sperry Marine (Public, Charlottesville, USA) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Sperry Marine (Public, Charlottesville, USA) Recent Developments/Updates
- Table 140. Sperry Marine (Public, Charlottesville, USA) Competitive Strengths & Weaknesses
- Table 141. Norwegian Subsea (Private, Oslo, Norway) Basic Information, Manufacturing Base and Competitors
- Table 142. Norwegian Subsea (Private, Oslo, Norway) Major Business
- Table 143. Norwegian Subsea (Private, Oslo, Norway) Marine Wave Radars Product and Services
- Table 144. Norwegian Subsea (Private, Oslo, Norway) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Norwegian Subsea (Private, Oslo, Norway) Recent Developments/Updates
- Table 146. Norwegian Subsea (Private, Oslo, Norway) Competitive Strengths & Weaknesses
- Table 147. OceanWise (Private, Alton, UK) Basic Information, Manufacturing Base and Competitors
- Table 148. OceanWise (Private, Alton, UK) Major Business
- Table 149. OceanWise (Private, Alton, UK) Marine Wave Radars Product and Services
- Table 150. OceanWise (Private, Alton, UK) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. OceanWise (Private, Alton, UK) Recent Developments/Updates
- Table 152. OceanWise (Private, Alton, UK) Competitive Strengths & Weaknesses
- Table 153. WISE Group (Private, Stavanger, Norway) Basic Information, Manufacturing Base and Competitors
- Table 154. WISE Group (Private, Stavanger, Norway) Major Business
- Table 155. WISE Group (Private, Stavanger, Norway) Marine Wave Radars Product and Services
- Table 156. WISE Group (Private, Stavanger, Norway) Marine Wave Radars Production

(K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. WISE Group (Private, Stavanger, Norway) Recent Developments/Updates

Table 158. WISE Group (Private, Stavanger, Norway) Competitive Strengths & Weaknesses

Table 159. Obscape (Private, Delft, Netherlands) Basic Information, Manufacturing Base and Competitors

Table 160. Obscape (Private, Delft, Netherlands) Major Business

Table 161. Obscape (Private, Delft, Netherlands) Marine Wave Radars Product and Services

Table 162. Obscape (Private, Delft, Netherlands) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Obscape (Private, Delft, Netherlands) Recent Developments/Updates

Table 164. Obscape (Private, Delft, Netherlands) Competitive Strengths & Weaknesses

Table 165. Helzel (Private, Kaltenkirchen, Germany) Basic Information, Manufacturing Base and Competitors

Table 166. Helzel (Private, Kaltenkirchen, Germany) Major Business

Table 167. Helzel (Private, Kaltenkirchen, Germany) Marine Wave Radars Product and Services

Table 168. Helzel (Private, Kaltenkirchen, Germany) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Helzel (Private, Kaltenkirchen, Germany) Recent Developments/Updates

Table 170. Helzel (Private, Kaltenkirchen, Germany) Competitive Strengths & Weaknesses

Table 171. Kekan Marine Technology (Private, Yantai, China) Basic Information, Manufacturing Base and Competitors

Table 172. Kekan Marine Technology (Private, Yantai, China) Major Business

Table 173. Kekan Marine Technology (Private, Yantai, China) Marine Wave Radars Product and Services

Table 174. Kekan Marine Technology (Private, Yantai, China) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Kekan Marine Technology (Private, Yantai, China) Recent Developments/Updates

Table 176. Kekan Marine Technology (Private, Yantai, China) Competitive Strengths & Weaknesses

Table 177. Vic-Ocean (Private, Qingdao, China) Basic Information, Manufacturing Base

and Competitors

Table 178. Vic-Ocean (Private, Qingdao, China) Major Business

Table 179. Vic-Ocean (Private, Qingdao, China) Marine Wave Radars Product and Services

Table 180. Vic-Ocean (Private, Qingdao, China) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Vic-Ocean (Private, Qingdao, China) Recent Developments/Updates

Table 182. Vic-Ocean (Private, Qingdao, China) Competitive Strengths & Weaknesses

Table 183. Wellmax (Private, Nanjing, China) Basic Information, Manufacturing Base and Competitors

Table 184. Wellmax (Private, Nanjing, China) Major Business

Table 185. Wellmax (Private, Nanjing, China) Marine Wave Radars Product and Services

Table 186. Wellmax (Private, Nanjing, China) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Wellmax (Private, Nanjing, China) Recent Developments/Updates

Table 188. Wellmax (Private, Nanjing, China) Competitive Strengths & Weaknesses

Table 189. Nortek (Private, Oslo, Norway) Basic Information, Manufacturing Base and Competitors

Table 190. Nortek (Private, Oslo, Norway) Major Business

Table 191. Nortek (Private, Oslo, Norway) Marine Wave Radars Product and Services

Table 192. Nortek (Private, Oslo, Norway) Marine Wave Radars Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Nortek (Private, Oslo, Norway) Recent Developments/Updates

Table 194. Nortek (Private, Oslo, Norway) Competitive Strengths & Weaknesses

Table 195. Global Key Players of Marine Wave Radars Upstream (Raw Materials)

Table 196. Global Marine Wave Radars Typical Customers

Table 197. Marine Wave Radars Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Marine Wave Radars Picture

Figure 2. World Marine Wave Radars Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Marine Wave Radars Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Marine Wave Radars Production (2021-2032) & (K Units)

Figure 5. World Marine Wave Radars Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Marine Wave Radars Production Value Market Share by Region (2021-2032)

Figure 7. World Marine Wave Radars Production Market Share by Region (2021-2032)

Figure 8. North America Marine Wave Radars Production (2021-2032) & (K Units)

Figure 9. Europe Marine Wave Radars Production (2021-2032) & (K Units)

Figure 10. China Marine Wave Radars Production (2021-2032) & (K Units)

Figure 11. Japan Marine Wave Radars Production (2021-2032) & (K Units)

Figure 12. Marine Wave Radars Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 15. World Marine Wave Radars Consumption Market Share by Region (2021-2032)

Figure 16. United States Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 17. China Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 18. Europe Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 19. Japan Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 20. South Korea Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 22. India Marine Wave Radars Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Marine Wave Radars by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Marine Wave Radars Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Marine Wave Radars Markets in 2025

Figure 26. United States VS China: Marine Wave Radars Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Marine Wave Radars Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Marine Wave Radars Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Marine Wave Radars Production Market Share 2025

Figure 30. China Based Manufacturers Marine Wave Radars Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Marine Wave Radars Production Market Share 2025

Figure 32. World Marine Wave Radars Production Value by Operating Frequency Band, (USD Million), 2021 & 2025 & 2032

Figure 33. World Marine Wave Radars Production Value Market Share by Operating Frequency Band in 2025

Figure 34. HF-Band

Figure 35. X-Band

Figure 36. World Marine Wave Radars Production Market Share by Operating Frequency Band (2021-2032)

Figure 37. World Marine Wave Radars Production Value Market Share by Operating Frequency Band (2021-2032)

Figure 38. World Marine Wave Radars Average Price by Operating Frequency Band (2021-2032) & (US\$/Unit)

Figure 39. World Marine Wave Radars Production Value by Coverage, (USD Million), 2021 & 2025 & 2032

Figure 40. World Marine Wave Radars Production Value Market Share by Coverage in 2025

Figure 41. 1-2 km

Figure 42. 2-6 km

Figure 43. >10 km

Figure 44. World Marine Wave Radars Production Market Share by Coverage (2021-2032)

Figure 45. World Marine Wave Radars Production Value Market Share by Coverage (2021-2032)

Figure 46. World Marine Wave Radars Average Price by Coverage (2021-2032) & (US\$/Unit)

Figure 47. World Marine Wave Radars Production Value by Update Rate, (USD Million), 2021 & 2025 & 2032

Figure 48. World Marine Wave Radars Production Value Market Share by Update Rate in 2025

Figure 49. >10 min

Figure 50. 2?5 min

Figure 51. ?1 min

Figure 52. World Marine Wave Radars Production Market Share by Update Rate (2021-2032)

Figure 53. World Marine Wave Radars Production Value Market Share by Update Rate (2021-2032)

Figure 54. World Marine Wave Radars Average Price by Update Rate (2021-2032) & (US\$/Unit)

Figure 55. World Marine Wave Radars Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Marine Wave Radars Production Value Market Share by Application in 2025

Figure 57. Merchant Ships

Figure 58. Offshore Platforms

Figure 59. Land-Based Observation Stations

Figure 60. Others

Figure 61. World Marine Wave Radars Production Market Share by Application (2021-2032)

Figure 62. World Marine Wave Radars Production Value Market Share by Application (2021-2032)

Figure 63. World Marine Wave Radars Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Marine Wave Radars Industry Chain

Figure 65. Marine Wave Radars Procurement Model

Figure 66. Marine Wave Radars Sales Model

Figure 67. Marine Wave Radars Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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