

Global Fish-Shaped Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Fish-Shaped Robot market size was valued at US\$ 126 million in 2025 and is forecast to a readjusted size of US\$ 210 million by 2032 with a CAGR of 7.5% during review period.

Fish-shaped robots are robotic systems that achieve efficient and flexible movement in water by mimicking the body structure (such as fins and tail) and locomotion mechanisms (such as tail-wagging propulsion) of fish.

Based on biomimetic principles, fish-shaped robots simulate the streamlined body, fin structure, and body undulation/tail fin wagging propulsion patterns of real fish. Integrating mechanical, electronic, materials, control, and artificial intelligence technologies, they can swim autonomously or remotely, perceive their environment, and perform tasks in water.

The performance advantages of fish-shaped robots include high propulsion efficiency, low noise, low disturbance, high maneuverability, and strong stealth.

Upstream core components of fish-shaped robots include underwater special servo motors, bionic joints, reducers, high-definition waterproof cameras, inertial measurement units (IMUs), water quality sensors, underwater main control chips, underwater communication modules, and high-energy-density, pressure-resistant batteries. Downstream applications are mainly in aquaculture, ecological monitoring, scientific research, military, and consumer entertainment.

In 2025, global sales of fish-shaped robots reached 4,800 units, with a production

capacity of approximately 8,000 units. The average selling price was US\$25,500 per unit, and the average gross profit margin was 25%-35%.

This report is a detailed and comprehensive analysis for global Fish-Shaped Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Fish-Shaped Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fish-Shaped Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fish-Shaped Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fish-Shaped Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Fish-Shaped Robot
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Fish-Shaped Robot market based on the

following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aquaai, Bluefin Robotics, Boxfish Robotics, ECA Group, Yamaha Motor, Kongsberg Maritime, AIRO, Kanda Seiki, Wudaciqi Intelligent Technology, QYSEA, etc.

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

Market Segmentation

Fish-Shaped Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Tail Fin Oscillating Type

Pectoral Fin/Multi-fin Propulsion Type

Wave Propulsion Type

Mixed Propulsion Type

Market segment by Drive Type

Rigid Drive

Flexible Drive

Fluid/Pneumatic Drive

Market segment by Level of Intelligence

Remote Control Type

Semi-Autonomous Type

Fully Autonomous Type

Market segment by Application

Aquaculture

Aquatic Environment and Ecology Research

Deep-Sea Exploration

Environmental Inspection

Military and Security

Cultural Tourism Exhibition

Major players covered

Aquaai

Bluefin Robotics

Boxfish Robotics

ECA Group

Yamaha Motor

Kongsberg Maritime

AIRO

Kanda Seiki

Wudaciqi Intelligent Technology

QYSEA

Sublue

Fang De Yinhai

ROBOSEA

Canglong Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Fish-Shaped Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fish-Shaped Robot, with price, sales quantity, revenue, and global market share of Fish-Shaped Robot from 2021 to 2026.

Chapter 3, the Fish-Shaped Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fish-Shaped Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Fish-Shaped Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fish-Shaped Robot.

Chapter 14 and 15, to describe Fish-Shaped Robot sales channel, distributors, customers, research findings and conclusion.

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