

Global Fish-Shaped Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fish-Shaped Robot market size is expected to reach \$ 210 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

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 studies the global Fish-Shaped Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fish-Shaped Robot 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 Fish-Shaped Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fish-Shaped Robot total production and demand, 2021-2032, (Units)

Global Fish-Shaped Robot total production value, 2021-2032, (USD Million)

Global Fish-Shaped Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fish-Shaped Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fish-Shaped Robot domestic production, consumption, key domestic manufacturers and share

Global Fish-Shaped Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fish-Shaped Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fish-Shaped Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fish-Shaped Robot 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fish-Shaped Robot 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 Type, 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 Fish-Shaped Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fish-Shaped Robot Market, Segmentation by Type:

Tail Fin Oscillating Type

Pectoral Fin/Multi-fin Propulsion Type

Wave Propulsion Type

Mixed Propulsion Type

Global Fish-Shaped Robot Market, Segmentation by Drive Type:

Rigid Drive

Flexible Drive

Fluid/Pneumatic Drive

Global Fish-Shaped Robot Market, Segmentation by Level of Intelligence:

Remote Control Type

Semi-Autonomous Type

Fully Autonomous Type

Global Fish-Shaped Robot Market, Segmentation by Application:

Aquaculture

Aquatic Environment and Ecology Research

Deep-Sea Exploration

Environmental Inspection

Military and Security

Cultural Tourism Exhibition

Companies Profiled:

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

Key Questions Answered:

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

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