

Global Underwater Ship Cleaning Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Underwater Ship Cleaning Robot market size is expected to reach \$ 668 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

An Underwater Ship Cleaning Robot is an autonomous or remotely operated robotic system designed to clean and inspect submerged ship hulls and marine structures underwater. These robots typically use ROV (Remotely Operated Vehicle) or AUV (Autonomous Underwater Vehicle) platforms equipped with adhesion systems, cavitation jets, brushes, or high-pressure water cleaning technologies to remove marine biofouling such as algae, barnacles, and shells. In 2025, global Underwater Ship Cleaning Robot production reached approximately 1013 Units. The upstream of the underwater ship cleaning robot industry mainly includes suppliers of thrusters, sonar systems, underwater cameras, adhesion systems, pumps, and AI modules. Downstream applications include commercial shipping, naval maintenance, offshore platforms, ports, and ship repair services. Future growth will focus on AI autonomy, non-destructive cavitation cleaning, decarbonization, and unmanned marine maintenance.

The global market for Underwater Ship Cleaning Robots is rapidly emerging as a key segment within intelligent marine maintenance and green shipping technologies. Long-term exposure to seawater causes ship hulls to accumulate biofouling such as barnacles, algae, shells, and microorganisms, which significantly increases hydrodynamic drag and can raise fuel consumption by 5%-40%, resulting in higher operating costs and carbon emissions. Driven by IMO decarbonization targets, the EU ETS framework, and global sustainability regulations, shipping companies are increasingly investing in automated hull cleaning technologies to improve fuel efficiency and environmental compliance. Compared with traditional diver-based cleaning

methods, underwater hull cleaning robots offer higher safety, greater operational efficiency, continuous in-water maintenance capability, reduced labor dependence, and digitalized fleet management advantages.

This report studies the global Underwater Ship Cleaning Robot production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Underwater Ship Cleaning Robot total production and demand, 2021-2032, (Units)

Global Underwater Ship Cleaning Robot total production value, 2021-2032, (USD Million)

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

Global Underwater Ship Cleaning Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Underwater Ship Cleaning Robot domestic production, consumption, key domestic manufacturers and share

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

Global Underwater Ship Cleaning Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Underwater Ship Cleaning Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Underwater Ship Cleaning 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 Deep Trekker, Tas Global, Saab Seaeye, VideoRay, SubBlue Robotics, Armach Robotics, Jotun Group, Keelcrab, Fugro, Hullbot, 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 Underwater Ship Cleaning 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 Underwater Ship Cleaning Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Underwater Ship Cleaning Robot Market, Segmentation by Type:

Autonomous

Remote Operation

Global Underwater Ship Cleaning Robot Market, Segmentation by Cleaning Technology:

Rotary Brush Cleaning

Cavitation Jet Cleaning

High-pressure Water Jet Cleaning

Others

Global Underwater Ship Cleaning Robot Market, Segmentation by Power System:

Tethered Electric

Battery-powered

Hybrid-powered

Global Underwater Ship Cleaning Robot Market, Segmentation by Environmental Compliance:

Open-loop Cleaning

Debris Capture Cleaning

Zero-discharge Cleaning

IMO-compliant Cleaning System

Global Underwater Ship Cleaning Robot Market, Segmentation by Application:

Commercial Ship

Navy Warship

Oil Tanker

Others

Companies Profiled:

Deep Trekker

Tas Global

Saab Seaeye

VideoRay

SubBlue Robotics

Armach Robotics

Jotun Group

Keelcrab

Fugro

Hullbot

Aeffe srl

Zhongchuan Heavy Industry Special Equipment Co., Ltd.

AutoSubsea Vehicles Inc

Feimabin (Qingdao) Intelligent Technology Co., Ltd.

Tianjin OSTAR Underwater Vehicles Co., Ltd.

Kunming Haiwei Electromechanical Technology Research Institute (Co., Ltd.)

Harbin Banzhilan Marine Technology Co., Ltd.

Guangdong Shenlan Underwater Special Equipment Technology Co., Ltd.

Hebei Xingzhou Technology Co., Ltd.

NakAI Robotics

Sealand Technology

Langfeng Technologies

ZhiZheng Ocean Technology

Exosea

Seashell Robotics

Key Questions Answered:

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

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