

Global Nuclear Power Plant Robot Market Growth 2026-2032

<https://marketpublishers.com/r/G65D357E0235EN.html>

Date: July 2026

Pages: 131

Price: US\$ 3,660.00 (Single User License)

ID: G65D357E0235EN

Abstracts

The global Nuclear Power Plant Robot market size is predicted to grow from US\$ 275 million in 2025 to US\$ 413 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2024, global Nuclear Power Plant Robot production reached approximately 117 units, with an average global market price of around US\$ 2.24 million per unit. The Nuclear Power Plant Robot is a specialized robotic system designed specifically for the complex and high-risk environments of nuclear power plants. It integrates radiation resistance, high-temperature resistance, and corrosion resistance, and possesses mobility, sensing, and operational capabilities. Its core functions include in-service inspection, routine maintenance, emergency response, and decommissioning/dismantling. Through remote operation, semi-autonomous, or fully autonomous modes, the robot can replace personnel in high-radiation areas, significantly reducing occupational radiation risks and improving operational safety and efficiency. As a key piece of equipment for the safe and intelligent development of nuclear power, its technology encompasses cutting-edge fields such as high-precision sensing, reliable motion control, and intelligent decision-making.

The upstream supply chain of Nuclear Power Plant Robots focuses on specialty materials and core components. Key suppliers include: Sandvik (radiation-resistant alloys), Toray (protective composite materials), FANUC/KUKA (high-precision robotic arms), Texas Instruments/Infineon (radiation-resistant chips and actuators), Hamamatsu Photonics (radiation detectors), and SICK (specialty sensors). Downstream customers are primarily global nuclear power plant owners and engineering companies, with typical examples including EDF, Westinghouse Electric, Rosatom, CGN, and Hitachi GE Nuclear Power. Applications span the entire lifecycle of nuclear power plants, from in-

service inspections and preventative maintenance to emergency response and decommissioning. The current supply chain is characterized by high technological barriers, strong customization, and regional collaboration, and is significantly influenced by geopolitics and nuclear power policies.

The cost of nuclear power plant robot is primarily driven by customized R&D and engineering design (accounting for over 50%), followed by the procurement of core specialized components (radiation-resistant sensors, robotic arms, etc.) and high-strength materials. Integration, commissioning, and certification costs are significant under the project-based model. Due to high technological barriers and strong customer loyalty, leading companies in the industry generally have high project gross margins, typically between 35% and 50%, but these are significantly affected by the complexity of specific tasks and negotiating power.

Among the downstream applications of Nuclear Power Plant Robot, reactor building inspection and maintenance tasks account for the largest share (approximately 35%), mainly involving in-service inspections of critical equipment such as pressure vessels and main pipelines. Decommissioning and waste disposal scenarios are growing rapidly, accounting for approximately 30%, focusing on facility dismantling and radioactive waste preparation. Fuel handling and storage areas account for about 20%, used for fuel transfer and pool inspections. Routine inspections of conventional islands and peripheral equipment account for about 10%. The remaining 5% are for special applications such as emergency response. Overall, there is a trend of extending from routine operation and maintenance to decommissioning and disposal.

Nuclear power plants are highly complex facilities, and safety is the primary concern. Robots can perform high-risk and dangerous tasks, such as entering radiation areas for inspection and repair, thereby ensuring the safety of personnel. In the future, as robot technology further matures, their application in the field of nuclear power plant safety will become even more widespread. Robots can autonomously perform inspection, monitoring and maintenance tasks, reducing the workload of personnel and improving work efficiency. In addition, robots can also collect and transmit data in real time to help operators better understand the status of nuclear power plants and achieve more refined operation management. The global market for nuclear power plant robot exhibits a significant regional specialization. Europe (led by France and the UK) possesses deep technological expertise and a mature market in the field of robots for in-service reactor inspection and nuclear facility decommissioning, primarily serving the maintenance needs of existing units and the dismantling of aging sites. North America (US and Canada), leveraging its strong industrial and military robotics foundation, leads in

innovative technology development (such as AI integration and dexterous operation) and complex system integration, while also boasting an active nuclear decommissioning market. The Asia-Pacific region is the core of growth: Japan excels in precision inspection and radiation-resistant technologies; China benefits from new nuclear power projects and a large scale of operating units, leading to rapid market demand growth and accelerated localization. Russia possesses an independent technological system, focusing on meeting its specific domestic nuclear power needs. The overall market is dominated by a few international giants and national-level solution providers, with extremely high technological barriers and policy hurdles.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Power Plant Robot Industry Forecast" looks at past sales and reviews total world Nuclear Power Plant Robot sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear Power Plant Robot sales for 2026 through 2032. With Nuclear Power Plant Robot sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Power Plant Robot industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Power Plant Robot landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Power Plant Robot portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Power Plant Robot market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Power Plant Robot and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Power Plant Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Power Plant Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Inspection and Monitoring Robot

Maintenance and Repair Robot

Emergency Response and Handling Robot

Decommissioning and Dismantling Robot

Fuel Handling Robot

Segmentation by Autonomy:

Remotely Operated Robot

Semi-Autonomous Robot

Fully Autonomous Intelligent Robot

Segmentation by Shape:

Wheeled/Tracked Mobile Robot

Wall-Climbing/Pipe-Climbing Robot

Underwater Robot

Articular Arms Robot

Others

Segmentation by Application:

Reactor Building

Fuel Operation and Storage Area

Conventional Island and Peripheral Facilities

Decommissioning and Waste Disposal

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

KUKA

Westinghouse Electric Company

Hitachi

Toshiba

Createc

ENGIE Laborelec

KOKS Robotics

ANYbotics

Mitsubishi Heavy Industries

Diakont

Boston Dynamics

FLIR

Capgemini

Framatome

Fortum

SIASUN

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nuclear Power Plant Robot market?

What factors are driving Nuclear Power Plant Robot market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Power Plant Robot market opportunities vary by end market size?

How does Nuclear Power Plant Robot break out by Type, by Application?

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