

Global Power Reactor Vessel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Reactor Vessel market size is expected to reach \$ 25960 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032). In 2025, global Power Reactor Vessels approximately 1,085 units, with an average global market price of around US\$ 14 million per unit. Gross margin is about 43%. The cost is 8 million. The Production is about 1500 units. The power reactor vessel is the core pressure-bearing equipment of a nuclear power plant used for nuclear power generation. Its main function is to house the reactor core fuel assemblies, internal components, and coolant under high temperature, high pressure, and strong neutron radiation conditions. It also serves as a critical safety boundary for the reactor's primary circuit, ensuring the long-term, stable, and controllable operation of the nuclear fission reaction. Upstream, it mainly involves nuclear-grade steel, ultra-large forgings, reactor vessel lining materials, heavy forging, welding, heat treatment, and nuclear-grade non-destructive testing and certification systems. Downstream, it is directly installed and serves commercial nuclear power plants, small modular nuclear power systems (SMRs), and advanced power reactor demonstration projects, making it a crucial core piece of equipment determining the safety, lifespan, and licensing compliance of nuclear power generation systems.

1. Evolution towards Miniaturization and Modularization (SMR-Driven)

With the accelerated deployment of Small Modular Reactors (SMRs), reactor vessels are shifting from ultra-large, customized equipment to smaller, modular, and factory-manufactured components to shorten construction cycles and reduce initial investment costs.

2. Continuous Improvement in Material Performance and Design Life

Next-generation reactor vessels will utilize nuclear-grade steel with higher toughness and stronger resistance to radiation embrittlement, generally extending design life to 60-80 years to meet the long-term operation and life extension requirements of nuclear

power plants.

3. Structural Innovation Adapting to Advanced Reactor Types

Advanced power reactors such as high-temperature gas-cooled reactors and fast reactors place new demands on the structural form and material performance of reactor vessels under high-temperature and different coolant environments, driving continuous innovation in vessel design.

4. Further Concentration and High-End Manufacturing Capabilities

Constrained by ultra-large forgings, nuclear-grade manufacturing qualifications, and stringent certification requirements, the manufacturing capabilities of reactor vessels will further concentrate on a few manufacturers with heavy forging and nuclear-grade manufacturing capabilities, continuously raising industry barriers.

5. Deepening Digital Design and Lifecycle Management: Digital twins, advanced simulation, and online monitoring technologies will be gradually applied to the design, manufacturing, and in-service management of power generation reactor vessels, improving safety margins and reducing lifecycle risks.

This report studies the global Power Reactor Vessel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Reactor Vessel 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 Power Reactor Vessel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Reactor Vessel total production and demand, 2021-2032, (K Units)

Global Power Reactor Vessel total production value, 2021-2032, (USD Million)

Global Power Reactor Vessel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power Reactor Vessel consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power Reactor Vessel domestic production, consumption, key domestic manufacturers and share

Global Power Reactor Vessel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Power Reactor Vessel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power Reactor Vessel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power Reactor Vessel 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 Orano, China First Heavy Industries Co., Ltd., Rosatom, Westinghouse Electric, China General Nuclear Power Group Co., Ltd., Hitachi GE Nuclear Energy, Mitsubishi Heavy Industries, Doosan Enerbility, BWX Technologies, Inc., L&T Heavy Engineering, 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 Power Reactor Vessel 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 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 Power Reactor Vessel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Reactor Vessel Market, Segmentation by Type:

PWR Nuclear Reactor Vessel

BWR Nuclear Reactor Vessel

PHWR Nuclear Reactor Vessel

Global Power Reactor Vessel Market, Segmentation by Size:

Large Type

Small & Medium Type

Global Power Reactor Vessel Market, Segmentation by Forging:

Integral Forging Type

Ring Forging and Welding

Global Power Reactor Vessel Market, Segmentation by Application:

Nuclear Power Generation

Medical

Other

Companies Profiled:

Orano

China First Heavy Industries Co., Ltd.

Rosatom

Westinghouse Electric

China General Nuclear Power Group Co., Ltd.

Hitachi GE Nuclear Energy

Mitsubishi Heavy Industries

Doosan Enerbility

BWX Technologies, Inc.

L&T Heavy Engineering

Shanghai Electric Group Company Limited

Key Questions Answered:

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

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