

# Global Reactor Vessels Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Reactor Vessels market size is expected to reach \$ 31605 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032). In 2025, global Reactor Vessels approximately 1,573 units, with an average global market price of around US\$ 15 million per unit. Gross margin is about 42%. The cost is 8.7 million. The Production is about 1700 units. Reactor Vessel (RPV) is a safety-critical, thick-walled pressure vessel that forms the primary pressure boundary of a nuclear reactor, designed to house the reactor core, fuel assemblies, and internal structures, and to contain the reactor coolant under extreme conditions of high temperature, high pressure, and intense neutron irradiation throughout its design life. Upstream, it relies on nuclear-grade materials (low-alloy steels, stainless steel cladding), ultra-large forgings, precision welding, heat treatment, and rigorous nondestructive inspection technologies governed by strict nuclear codes and standards. Downstream, the reactor vessel is integrated into commercial power reactors, small modular reactors (SMRs), research reactors, and advanced reactor systems, serving as a foundational component that directly determines reactor safety, operational lifetime, and regulatory licensing feasibility.

### 1. Movement Towards Miniaturization and Modularization (SMR)

With the advancement of Small Modular Reactors (SMRs), reactor vessels are evolving from ultra-large monolithic structures towards smaller, modular, and factory-manufacturable components to reduce construction time and capital costs.

### 2. Higher Material Performance and Longer Design Life

Next-generation reactor vessels will utilize nuclear-grade steel with higher toughness and stronger resistance to radiation embrittlement, with design lives generally extended to 60-80 years or even longer to support the long-term operation of nuclear power plants.

### 3. Advanced Reactor Types Drive Structural and Design Innovation

The development of high-temperature gas-cooled reactors, fast reactors, and Generation IV reactors places new demands on the structural design of vessels in high-temperature, low-pressure, or liquid metal environments, driving continuous optimization of vessel morphology, thickness distribution, and internal structure.

#### 4. Continued Concentration of Ultra-Large Forgings and Manufacturing Capabilities

The reliance on ultra-large monolithic forgings for reactor vessels is further concentrating manufacturing capabilities in the hands of a few manufacturers with heavy forging and nuclear-grade manufacturing qualifications, continuously raising barriers to entry in the industry.

5. In-depth Application of Digital Design and Manufacturing Technologies: Digital twins, advanced simulation, and online quality monitoring technologies are being introduced into the design, manufacturing, and in-service monitoring of reactor vessels to improve safety margins and reduce the risk of manufacturing defects.

6. More Stringent Safety and Regulatory Requirements: As nuclear safety standards continue to evolve, the requirements for reactor vessels in terms of fracture resistance, accident load resistance, and detectability are constantly increasing, driving the simultaneous evolution of design redundancy and detection technologies.

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

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

#### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Reactor Vessels 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 Reactor Vessels 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 Reactor Vessels Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Reactor Vessels Market, Segmentation by Type:

PWR Nuclear Reactor Vessel

BWR Nuclear Reactor Vessel

PHWR Nuclear Reactor Vessel

Global Reactor Vessels Market, Segmentation by Size:

Large Type

Small & Medium Type

Global Reactor Vessels Market, Segmentation by Forging:

Integral Forging Type

Ring Forging and Welding

Global Reactor Vessels Market, Segmentation by Application:

Generating Electricity

Moving Aircraft Carriers and Submarines

Others

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

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