

# Global Reactor Fuelling Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Reactor Fuelling Machine market size was valued at US\$ 469 million in 2025 and is forecast to a readjusted size of US\$ 725 million by 2032 with a CAGR of 6.3% during review period.

In 2025, global Reactor Fuelling Machine shipments reached approximately 98 units, and the average price was US\$ 4.65 million/unit. Reactor Fuelling Machine is a special nuclear-grade equipment used for loading, replacing, unloading and transferring nuclear reactor fuel assemblies. It is an important part of the nuclear fuel processing system. This equipment uses high-precision mechanical structures, hydraulic or electric drive systems, automatic control systems, remote operation platforms and multiple safety protection devices to achieve precise positioning and reliable handling of nuclear fuel assemblies while ensuring reactor safety, radiation protection and fuel integrity, minimizing the risk of personnel radiation exposure. Depending on the type of reactor, fuel loaders can be used in pressurized water reactors (PWR), heavy water reactors (PHWR), high temperature gas-cooled reactors (HTGR) and other advanced reactors. Some models support online refueling operations and can complete fuel replacement without shutting down the reactor. Equipment is usually equipped with functions such as automatic positioning, force feedback monitoring, visual inspection, fault diagnosis and intelligent control to improve refueling efficiency and operational safety. It is mainly used in nuclear power plants, research reactors, nuclear fuel test facilities and advanced nuclear energy projects. With the development of smart nuclear power and small modular reactors (SMR), reactor fuel loaders are being continuously upgraded in the direction of automation, intelligence, remoteness and digitization.

The Reactor Fuelling Machine industry chain is highly specialized. Upstream

components include key materials and parts such as high-strength stainless steel, nickel-based alloys, precision bearings, servo motors, hydraulic systems, sensors, and nuclear-grade instrumentation and control equipment. Representative suppliers include SKF, ABB, Siemens, Bosch Rexroth, Mitsubishi Electric, and Honeywell. Downstream customers are primarily global nuclear power operators and nuclear research institutions, including EDF, CGN, KHNP, and NPCIL.

The global Reactor Fuelling Machine market is closely linked to the development of the nuclear power industry, with demand primarily driven by new nuclear power plants, refueling of existing units, nuclear power plant life extension retrofits, and the construction of advanced reactors. Regionally, North America and Europe maintain a leading position in high-end fuel loading and unloading equipment and intelligent refueling technologies due to their mature nuclear power operation systems, significant demand for unit upgrades and retrofits, and nuclear decommissioning markets. The Asia-Pacific region, driven by continuous growth in nuclear power capacity, increased new unit construction, and the promotion of domestic production in the nuclear industry, has become the fastest-growing market globally. The Middle East and other emerging nuclear power countries are also gradually generating new equipment demand as nuclear energy projects are underway. Currently, the industry is moving towards automation, intelligence, and remote operation. Robotics, digital twins, machine vision, AI-assisted control, and high-precision positioning systems are increasingly being applied to fuel loading and unloading operations, improving refueling efficiency and reducing personnel radiation exposure risks. At the same time, the industry still faces challenges such as stringent nuclear safety regulations, long product certification cycles, high equipment customization requirements, high technical barriers for key radiation-resistant components, and long project delivery cycles. Supply chain stability and the availability of professional technical personnel also have a certain impact on market development. In the future, with the development of nuclear power life extension, small modular reactors (SMR), fourth-generation reactors and online refueling technology, the reactor fuel loading and unloading machine market is expected to maintain stable growth. The industry's average gross profit margin is usually maintained between 25% and 40%, and high-end intelligent equipment and full life cycle operation and maintenance services have high added value and profitability.

This report is a detailed and comprehensive analysis for global Reactor Fuelling Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Reactor Fuelling Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (Million US\$/Unit), 2021-2032

Global Reactor Fuelling Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (Million US\$/Unit), 2021-2032

Global Reactor Fuelling Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (Million US\$/Unit), 2021-2032

Global Reactor Fuelling Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (Million US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Reactor Fuelling Machine

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Reactor Fuelling Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BWXT, Promotion Nuclear, REEL NKM Noell, Westinghouse Electric Company, L&T Heavy Engineering, Diakont, Fuji Electric, PAR Systems, Mitsubishi Heavy Industries, Toshiba Energy Systems & Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## Market Segmentation

Reactor Fuelling Machine market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Online Refuelling Machine

Offline Refuelling Machine

### Market segment by Capacity

?50 Fuel Assemblies/Cycle

50?150 Fuel Assemblies/Cycle

?150 Fuel Assemblies/Cycle

### Market segment by Application

Pressurized Water Reactor

Boiling Water Reactor

Small Modular Reactor

Others

### Major players covered

?BWXT

?Promation Nuclear

?REEL NKM Noell

Westinghouse Electric Company

L&T Heavy Engineering

Diakont

Fuji Electric

PAR Systems

Mitsubishi Heavy Industries

Toshiba Energy Systems & Solutions

Hitachi GE Vernova

ATB Group

CNNC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Reactor Fuelling Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Reactor Fuelling Machine, with price, sales quantity, revenue, and global market share of Reactor Fuelling Machine from 2021 to 2026.

Chapter 3, the Reactor Fuelling Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Reactor Fuelling Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Reactor Fuelling Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Reactor Fuelling Machine.

Chapter 14 and 15, to describe Reactor Fuelling Machine sales channel, distributors, customers, research findings and conclusion.

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