

# Global Nuclear Fuel Refueling Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G282A602652AEN.html>

Date: February 2026

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: G282A602652AEN

## Abstracts

According to our (Global Info Research) latest study, the global Nuclear Fuel Refueling Machine market size was valued at US\$ 125 million in 2025 and is forecast to a readjusted size of US\$ 162 million by 2032 with a CAGR of 4.1% during review period.

Nuclear fuel refueling machines are core special lifting equipment in the fuel loading, unloading, and storage (FHS) system of nuclear power plants. Deployed on a track above the reactor building (nuclear island), these units are specifically designed for the unloading, loading, core rearrangement (refueling), and precision hoisting of related internal components during reactor shutdowns and overhauls in a deep-water shielded environment. As nuclear-grade safety equipment, it integrates a millimeter-level high-precision positioning system, multiple redundant safety interlocking mechanisms, and stringent seismic design, making it a crucial link in ensuring the safety and efficiency of the nuclear fuel cycle. In 2025, the sales volume of nuclear fuel refueling machines will be only around 17 units, with a unit price of approximately US\$7.1 million and a gross profit margin in the range of 30%-45%. The nuclear fuel refueling machine industry is a high-barrier, highly monopolistic, and extremely niche strategic special equipment market. The upstream of nuclear fuel refueling machines primarily connects to a high-precision industrial infrastructure support system, including specially formulated nuclear-grade stainless steel and alloy materials, highly reliable servo control systems and radiation-resistant sensors, as well as precision machining and special welding processes. The quality of these raw materials and core components directly determines the operating life of the refueling machine in environments with strong radiation and deep water. Downstream, it reaches the end of the nuclear power industry chain, initially serving nuclear power plant operators (such as CNNC, CGN, and EDF), performing refueling tasks as a core production tool during major overhauls; subsequently

extending to spent fuel reprocessing plants and intermediate storage facilities, responsible for the precise transfer of cooled waste to reprocessing lines or long-term storage containers.

This report is a detailed and comprehensive analysis for global Nuclear Fuel Refueling 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 Nuclear Fuel Refueling Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Nuclear Fuel Refueling Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 Nuclear Fuel Refueling 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 Nuclear Fuel Refueling 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 Westinghouse, Framatome,

Rosatom, DHI.DC, REEL International, Konecranes, MHI, Doosan Enerbility, Shanghai Electric Group, Sichuan Huadu, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Nuclear Fuel Refueling 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

PWR Refueling Machine

BWR Refueling Machine

PHWR Refueling Machine

Others

### Market segment by Mechanical Structure

Bridge & Trolley Type

Rotary Type

Telescopic Mast

### Market segment by Automation Level

Fully Automatic

Semi-automatic

### Market segment by Application

Commercial Nuclear Power Plant

Spent Fuel Reprocessing Plant

Other

### Major players covered

Westinghouse

Framatome

Rosatom

DHI.DC

REEL International

Konecranes

MHI

Doosan Enerbility

Shanghai Electric Group

Sichuan Huadu

### 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 Nuclear Fuel Refueling Machine product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Nuclear Fuel Refueling 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 Nuclear Fuel Refueling 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 Nuclear Fuel Refueling Machine.

Chapter 14 and 15, to describe Nuclear Fuel Refueling Machine sales channel, distributors, customers, research findings and conclusion.

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