

Global HTGR Spent Fuel Transfer System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HTGR Spent Fuel Transfer System market size is expected to reach \$ 32.25 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

The high-temperature gas-cooled reactor (HTGR) spent fuel transfer system is a nuclear-grade, specialized set of equipment serving HTGRs, especially pebble bed HTGRs/HTR-PMs, used in dry storage of spent fuel, core unloading, tank transfer, storage shaft loading and unloading, and shielded transfer. This system typically consists of a ground vehicle or transfer platform, shielding enclosure, tank lifting equipment, shaft cover lifting equipment, lifting mechanism, positioning mechanism, heat dissipation/ventilation system, valves, rails, automatic control system, safety interlock system, and radiation shielding structure. Its core function is to complete the transfer and loading/unloading of spent fuel tanks within the plant under controlled, shielded, cooled, and high-precision positioning conditions. The upstream sector primarily encompasses nuclear-grade carbon steel, stainless steel, heavy plates, castings and forgings, shielding steel, lead-based or composite shielding materials, radiation-resistant seals, gear reducers, motors, brakes, bearings, fans, valves, rails, sensors, limit switches, encoders, PLCs/safety control systems, cables, nuclear-grade electrical cabinets, and quality traceability documentation systems. The midstream sector involves system design, structural strength calculations, seismic analysis, radiation shielding calculations, thermal-hydraulic analysis, the design of hoisting and positioning systems, welding and fabrication, machining, final assembly, factory acceptance testing, cold/hot commissioning, and on-site integrated testing; core enterprises typically require expertise in nuclear power hoisting equipment, nuclear-grade mechanical manufacturing, automatic control, and nuclear safety quality assurance. The downstream sector mainly consists of owners of high-temperature gas-

cooled reactor (HTGR) power plants, nuclear engineering companies, EPC contractors, nuclear fuel system entities, integrators of spent fuel dry storage systems, and nuclear safety regulatory bodies. Given that the system is directly linked to spent fuel shielding, transfer, storage, and safety under accident conditions, the supply chain operates not on the logic of ordinary machinery procurement, but rather on requirements centered around design qualification, manufacturing licensing, nuclear-grade quality assurance, equipment maintainability, long-term availability, and engineering interface compatibility.

This report studies the global HTGR Spent Fuel Transfer System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for HTGR Spent Fuel Transfer System, 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 HTGR Spent Fuel Transfer System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HTGR Spent Fuel Transfer System total market, 2021-2032, (USD Million)

Global HTGR Spent Fuel Transfer System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: HTGR Spent Fuel Transfer System total market, key domestic companies, and share, (USD Million)

Global HTGR Spent Fuel Transfer System revenue by player, revenue and market share 2021-2026, (USD Million)

Global HTGR Spent Fuel Transfer System total market by Type, CAGR, 2021-2032, (USD Million)

Global HTGR Spent Fuel Transfer System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global HTGR Spent Fuel Transfer System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Taiyuan Heavy Industry, Westinghouse, Framatome, Konecranes, Orano, 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 HTGR Spent Fuel Transfer System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 HTGR Spent Fuel Transfer System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HTGR Spent Fuel Transfer System Market, Segmentation by Type:

Pebble Fuel Transfer System

Prismatic Block Fuel Transfer System

Others

Global HTGR Spent Fuel Transfer System Market, Segmentation by Automation Level:

Semi-Automatic System

Fully Automatic System

Remote-Controlled System

Global HTGR Spent Fuel Transfer System Market, Segmentation by Application:

Spent Fuel Canister Transfer in HTGR Plants

Dry Storage Well Loading and Unloading

Core Unloading and Temporary Fuel Element Storage

Others

Companies Profiled:

Taiyuan Heavy Industry

Westinghouse

Framatome

Konecranes

Orano

Key Questions Answered

1. How big is the global HTGR Spent Fuel Transfer System market?
2. What is the demand of the global HTGR Spent Fuel Transfer System market?
3. What is the year over year growth of the global HTGR Spent Fuel Transfer System market?
4. What is the total value of the global HTGR Spent Fuel Transfer System market?

5. Who are the Major Players in the global HTGR Spent Fuel Transfer System market?
6. What are the growth factors driving the market demand?

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