

Global Nuclear Safety Injection Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Safety Injection Pump market size is expected to reach \$ 1066 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

The Nuclear Safety Injection Pump (SIP) is a core component of the Safety Injection System (SIS) in a nuclear power plant. It is primarily used to rapidly inject borated water or emergency cooling water into the reactor coolant system during a Loss of Coolant Accident (LOCA) or other design-basis accidents to maintain core cooling, prevent fuel damage, and ensure the reactor remains in a safe shutdown state. This equipment typically employs a centrifugal pump structure, consisting of a pump body, impeller, drive motor, sealing system, bearings, and nuclear-grade control and monitoring devices. It features high reliability, high head, rapid start-up, continuous and stable operation, and resistance to high temperatures, high pressures, and earthquakes, while meeting stringent nuclear safety regulations and quality standards. The SIP is widely used in pressurized water reactors (PWRs), small modular reactors (SMRs), and other advanced reactors employing emergency core cooling systems, forming a crucial component of the nuclear power plant's defense-in-depth system and Emergency Core Cooling System (ECCS). With the development of smart nuclear power and advanced nuclear energy technologies, nuclear safety injection pumps are continuously upgrading towards high efficiency, intelligent monitoring, predictive maintenance, and full life-cycle reliability management, which is of great significance for improving the intrinsic safety level of nuclear facilities.

In 2025, global Nuclear Safety Injection Pump production reached approximately 1,180 units, and the average price was US\$ 580 k/unit. The global nuclear safety injection pump market is closely related to the development of the nuclear power industry and

the upgrading of nuclear safety standards. Demand primarily comes from new nuclear power plants, safety system upgrades of existing units, nuclear power plant life extension projects, and the construction of small modular reactors (SMRs) and advanced reactors. Regionally, North America and Europe, with their mature nuclear industry systems and stringent nuclear safety regulations, maintain a leading position in the research and manufacturing of high-reliability nuclear-grade pump equipment. The Asia-Pacific region, driven by the continuous growth of nuclear power capacity, the advancement of domestic nuclear industry development, and the construction of advanced nuclear energy projects, has become the fastest-growing market. The Middle East and other emerging nuclear energy countries are also gradually generating new equipment demand as nuclear power projects are implemented. Currently, the industry is developing towards high reliability, intelligent, and digital operation and maintenance. High-performance corrosion-resistant materials, advanced hydraulic design, online condition monitoring, digital twins, artificial intelligence fault diagnosis, and predictive maintenance technologies are being increasingly applied to improve equipment operating efficiency and safety capabilities. Meanwhile, the industry still faces challenges such as long nuclear safety certification cycles, high product technology thresholds, stringent requirements for key materials and precision manufacturing processes, long project delivery cycles, and high supply chain stability requirements. The costs of long-term equipment maintenance and spare parts management are also relatively high. Looking ahead, with the continued advancement of nuclear power plant life extension, small modular reactors (SMRs), fourth-generation nuclear reactors, and smart nuclear power construction, the nuclear safety injection pump market is expected to maintain stable growth. The industry's average gross profit margin is typically maintained between 25% and 40%, with high-end nuclear-grade pump equipment, intelligent monitoring systems, and full life-cycle operation and maintenance services possessing high added value and profitability.

This report studies the global Nuclear Safety Injection Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Safety Injection Pump 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 Nuclear Safety Injection Pump that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Safety Injection Pump total production and demand, 2021-2032, (Units)

Global Nuclear Safety Injection Pump total production value, 2021-2032, (USD Million)
Global Nuclear Safety Injection Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Nuclear Safety Injection Pump consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Nuclear Safety Injection Pump domestic production, consumption, key domestic manufacturers and share
Global Nuclear Safety Injection Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Nuclear Safety Injection Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Nuclear Safety Injection Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Nuclear Safety Injection Pump 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 Amarinth, Celeros Flow Technology, Sulzer, Clextral, Flowserve, Hayward Tyler, Hydro, Inc., HYOSUNG GOODSPRINGS, KSB SE & Co. KGaA, Mitsubishi Heavy Industries, Ltd, 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 Nuclear Safety Injection Pump market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Nuclear Safety Injection Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Safety Injection Pump Market, Segmentation by Type:

Single-Stage Pump

Multi-stage Pump

Global Nuclear Safety Injection Pump Market, Segmentation by Rated Flow Capacity:

≤500 m³/h

500-1,500 m³/h

>1,500 m³/h

Global Nuclear Safety Injection Pump Market, Segmentation by Application:

Pressurized Water Reactor (PWR)

Small Modular Reactor (SMR)

Others

Companies Profiled:

Amarinth

Celeros Flow Technology

Sulzer

Clextral

Flowserve

Hayward Tyler

Hydro, Inc.

HYOSUNG GOODSPRINGS

KSB SE & Co. KGaA

Mitsubishi Heavy Industries, Ltd

Peroni Pompe

Shanghai Electric

Shanghai Kaiquan

Key Questions Answered:

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

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