

Global Nuclear Power Air Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Power Air Compressor market size is expected to reach \$ 625 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

In 2025, global nuclear power air compressors production reached approximately 9726 units, the average price is 45 k usd/unit. Nuclear power air compressors are key power equipment in nuclear power plants specifically used for the production, storage, and delivery of compressed air. It is not a single machine, but a complete system comprising an air compressor, drying and purification unit, air storage tank, and control system. Its core task is to provide stable, clean, and absolutely reliable compressed air to ensure the safe operation and process control of the nuclear power plant.

Market Concentration and Major Players:

Internationally, the market for driver status monitors is highly concentrated, primarily in developed countries like Europe and America. Large manufacturers include Avelair and Ingersoll Rand. Domestically, the driver status monitor market still has significant room for growth.

Manufacturing Process and Market Trends:

The core of nuclear power plant air compressor manufacturing lies in 'oil-free' and 'nuclear-grade qualification.' Instrument compressed air systems must employ dry oil-free screw or centrifugal technology to ensure 100% oil-free compression chambers and prevent oil contamination from jamming control valves. In terms of process, dry oil-free screw compressors rely on high-precision grinding to machine the screw rotor and apply

wear-resistant coatings such as Teflon. Synchronous gears achieve non-contact rotor meshing, and the air gap is strictly controlled. Centrifugal compressors emphasize the dynamic balancing of precision-cast impellers and high-speed gearboxes. Nuclear-grade equipment must undergo rigorous seismic analysis and quality assurance systems, adhering to nuclear safety standards such as RCC-E or IEEE Std 387, to ensure it can still provide shutdown power to pneumatic valves under extreme conditions such as earthquakes.

In terms of market trends, with the mass production of third-generation nuclear power and the development of small modular reactors, the requirements for compressor flexibility are increasing. Domestic substitution is the main theme, with domestic manufacturers penetrating from non-nuclear to safety-grade systems, gradually breaking the import monopoly. Technologically, the focus is on intelligent and modular development, integrating remote monitoring and self-diagnostic functions to adapt to multi-reactor deployments and the life extension needs of older units. Meanwhile, oil-free technology, by avoiding the risk of oil contamination, has become the absolute mainstream in new projects.

This report studies the global Nuclear Power Air Compressor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nuclear Power Air Compressor total production and demand, 2021-2032, (Units)

Global Nuclear Power Air Compressor total production value, 2021-2032, (USD Million)

Global Nuclear Power Air Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Nuclear Power Air Compressor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Nuclear Power Air Compressor domestic production, consumption, key domestic manufacturers and share

Global Nuclear Power Air Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Nuclear Power Air Compressor production by Structure, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

Global Nuclear Power Air Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Nuclear Power Air Compressor 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 Avelair (UK), Ingersoll Rand (USA), ELGi Equipments (India), Hitachi (Japan), KOBELCO Compressors (Japan), Howden (UK), Wuxi Xiya Compressor (China), Shenyang Yuanda Compressor (China), Zhongding Hengsheng Gas Equipment (China), 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 Power Air Compressor 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 Structure, 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 Power Air Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Power Air Compressor Market, Segmentation by Structure:

Centrifugal Air Compressor

Screw Air Compressor

Scroll Air Compressor

Global Nuclear Power Air Compressor Market, Segmentation by Cool:

Air-cooled

Water-cooled

Global Nuclear Power Air Compressor Market, Segmentation by Exhaust:

? 10 bar

10 bar(g) ? 40 bar(g)

> 40 bar(g)

Global Nuclear Power Air Compressor Market, Segmentation by Application:

Research And Test Nuclear Power Plant

Power Reactor Nuclear Power Plant

Production Reactor Nuclear Power Plant

Companies Profiled:

Avelair (UK)

Ingersoll Rand (USA)

ELGi Equipments (India)

Hitachi (Japan)

KOBELCO Compressors (Japan)

Howden (UK)

Wuxi Xiya Compressor (China)

Shenyang Yuanda Compressor (China)

Zhongding Hengsheng Gas Equipment (China)

Key Questions Answered:

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

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