

Global Nuclear Power Air Compressor Market Growth 2026-2032

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Abstracts

The global Nuclear Power Air Compressor market size is predicted to grow from US\$ 428 million in 2025 to US\$ 605 million in 2032; it is expected to grow at a CAGR of 5.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Power Air Compressor Industry Forecast" looks at past sales and reviews total world Nuclear Power Air Compressor sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear Power Air Compressor sales for 2026 through 2032. With Nuclear Power Air Compressor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Power Air Compressor industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Power Air Compressor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Power Air Compressor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Power Air Compressor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Power Air Compressor and breaks down the forecast by Structure, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Nuclear Power Air Compressor.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Power Air Compressor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Structure:

Centrifugal Air Compressor

Screw Air Compressor

Scroll Air Compressor

Segmentation by Cool:

Air-cooled

Water-cooled

Segmentation by Exhaust:

? 10 bar

10 bar(g) ? 40 bar(g)

> 40 bar(g)

Segmentation by Application:

Research And Test Nuclear Power Plant

Power Reactor Nuclear Power Plant

Production Reactor Nuclear Power Plant

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Nuclear Power Air Compressor market?

What factors are driving Nuclear Power Air Compressor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Power Air Compressor market opportunities vary by end market size?

How does Nuclear Power Air Compressor break out by Structure, by Application?

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