

Global Centrifugal Nitrogen Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Centrifugal Nitrogen Compressor market size is expected to reach \$ 453 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of centrifugal nitrogen compressor were approximately 580 units, with an average selling price of about USD 550,000 per unit at the manufacturer level. The gross margin of major industry manufacturers was approximately 22%–32%.

A centrifugal nitrogen compressor is a type of rotating equipment that uses nitrogen as the working medium. High-speed impellers impart kinetic energy to the nitrogen, which is subsequently converted into pressure energy by diffusers and volutes, thereby enabling continuous compression, boosting, or circulation of nitrogen. The equipment generally consists of the compressor casing, rotor, bearings, sealing system, drive system, cooling system, and control system. Its aerodynamic and mechanical design is tailored to specific requirements for nitrogen flow rate, inlet pressure, discharge pressure, purity, and operating stability. Centrifugal nitrogen compressors are characterized by high flow capacity, continuous operation, relatively low vibration, and the ability to maintain an oil-free gas path, making them suitable for long-term, stable operation under industrial gas service conditions.

The upstream supply chain of centrifugal nitrogen compressor primarily includes alloy steel, stainless steel, castings and forgings, impellers and rotors, bearings, dry gas seals or carbon ring seals, gearboxes, electric motors, steam turbines, heat exchangers, valves, and control instrumentation. Impeller aerodynamic design, rotor machining accuracy, sealing reliability, and anti-surge control directly affect overall compressor performance. Downstream demand mainly comes from the compression

and transportation of nitrogen produced by air separation units, as well as nitrogen circulation, inerting, purging, and process gas supply in petrochemical, coal chemical, metallurgical, electronic gas, LNG, and marine systems. Product selection, system integration, and project delivery are generally carried out jointly by compressor manufacturers, air separation equipment suppliers, engineering contractors, and end users.

Report Scope

This report studies the global Centrifugal Nitrogen Compressor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Centrifugal Nitrogen Compressor total production and demand, 2021-2032, (Units)

Global Centrifugal Nitrogen Compressor total production value, 2021-2032, (USD Million)

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

Global Centrifugal Nitrogen Compressor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Centrifugal Nitrogen Compressor domestic production, consumption, key domestic manufacturers and share

Global Centrifugal Nitrogen Compressor production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Centrifugal Nitrogen Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Centrifugal Nitrogen Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Centrifugal Nitrogen 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 Siemens Energy, Everllence, Atlas Copco, Ingersoll Rand, Mitsubishi Heavy Industries Compressor, Kobe Steel, FS-Elliott, IHI Rotating Machinery Engineering, Elliott Group, Hanwha Power, 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 Centrifugal Nitrogen Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Centrifugal Nitrogen Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Centrifugal Nitrogen Compressor Market, Segmentation by Type:

Single-shaft Multistage Type

Integrally Geared Type (Multi-shaft Type)

Global Centrifugal Nitrogen Compressor Market, Segmentation by Drive Type:

Motor-driven

Steam Turbine-driven

Global Centrifugal Nitrogen Compressor Market, Segmentation by Discharge Pressure:

Low-pressure Type (≤ 1.0 MPa)

Medium-pressure Type (> 1.0 – 4.0 MPa)

High-pressure Type (> 4.0 MPa)

Global Centrifugal Nitrogen Compressor Market, Segmentation by Application:

Air Separation Unit

Petrochemical

Coal Chemical

Metallurgy

Electronic Gas

LNG and Marine

Other

Companies Profiled:

Siemens Energy

Everllence

Atlas Copco

Ingersoll Rand

Mitsubishi Heavy Industries Compressor

Kobe Steel

FS-Elliott

IHI Rotating Machinery Engineering

Elliott Group

Hanwha Power

Shenyang Blower Works Group

Xi'an Shaangu Power

Hangzhou Hangyang Turbomachinery

Turbo-Tech Compressor (Wuxi)

Himile Mechanical Manufacturing (Shandong)

Key Questions Answered

1. How big is the global Centrifugal Nitrogen Compressor market?
2. What is the demand of the global Centrifugal Nitrogen Compressor market?
3. What is the year over year growth of the global Centrifugal Nitrogen Compressor market?
4. What is the total value of the global Centrifugal Nitrogen Compressor market?
5. Who are the Major Players in the global Centrifugal Nitrogen Compressor market?
6. What are the growth factors driving the market demand?

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