

# Global Nitrogen Gas Booster Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Nitrogen Gas Booster market size is expected to reach \$ 3211 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global Nitrogen Gas Booster production reached approximately 0.66 M Units. The average price is approximately \$3,200. Nitrogen Gas Booster is a specialized device for boosting low-pressure nitrogen (N<sub>2</sub>) to higher pressure levels. It is typically installed as a secondary booster unit after a nitrogen generation system (such as a PSA or membrane separator) or nitrogen storage tank, increasing nitrogen pressure from the common 5-40 bar to 100-350 bar or even higher to meet the needs of industrial, energy, and high-pressure process applications.

### Gross Profit Margin Level

The nitrogen booster industry exhibits a typical structure of 'high-value-added electromechanical equipment + system premium': the core cost of a single unit (pneumatic booster/piston booster compressor) lies in high-precision cylinder and seals, pressure-resistant materials, valve groups and control components, cooling and noise reduction design, and long-term reliability verification; while when the product is upgraded to a complete booster station/filling station/mobile skid-mounted system, PLC control, process valve integration, safety regulations (explosion-proof/interlock/pressure relief), testing and delivery engineering will significantly increase the 'system value'. Therefore, the industry's gross profit margin usually falls in the range of 35%-55%; among them, manufacturers with brand and high reliability reputation, covering extreme working conditions (marine engineering, explosion-proof, high-purity nitrogen, ultra-high pressure) and providing standardized modular systems are more likely to have gross profit margins closer to the upper limit, while the gross profit margins of basic equipment

with strong homogeneity and mainly relying on low-price shipments are closer to the middle or even lower. As end-users become more sensitive to energy efficiency, downtime losses, and safety audits, the procurement logic of 'trading higher reliability for lower TCO' will make the industry's gross profit margin more stable.

## Industry Drivers

The growth of nitrogen boosters is essentially driven by three combined demands: First, the accelerated replacement of purchased bottled nitrogen with on-site nitrogen production in the manufacturing industry. Once companies control nitrogen production within their plants, they inevitably face the need for repressurization from the nitrogen production outlet pressure (commonly 10-40 bar) to the high-pressure end of the process (100-350 bar or even higher), especially in high-pressure scenarios such as laser cutting, pressure testing, and inerting purging. Second, the requirements for explosion-proof, reliable, and rapid deployment in the oil, gas, chemical, power, and marine engineering industries make pneumatic booster and skid-mounted systems more advantageous in hazardous areas and emergency repair scenarios. Third, as companies enter a more refined operation phase, they begin to emphasize 'nitrogen asset utilization,' such as 'squeezing out' the residual pressure of cylinder groups/tube bundles through boosting, reducing cylinder change frequency and logistics costs, thereby transforming booster equipment from an 'optional tool' into a 'quantifiable cost optimization element.' At the same time, technological upgrades such as oil-free, low-leakage, intelligent interlocking, and remote monitoring make the equipment easier to audit and more adaptable to continuous production, further promoting replacement and structural upgrades.

This report studies the global Nitrogen Gas Booster production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Nitrogen Gas Booster total production and demand, 2021-2032, (K Units)

Global Nitrogen Gas Booster total production value, 2021-2032, (USD Million)

Global Nitrogen Gas Booster production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (K Units), (based on production site)

Global Nitrogen Gas Booster consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Nitrogen Gas Booster domestic production, consumption, key domestic manufacturers and share

Global Nitrogen Gas Booster production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Nitrogen Gas Booster production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Nitrogen Gas Booster production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Nitrogen Gas Booster 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 Haskel, Maximator, Hydratron, Resato, Atlas Copco, BAUER Kompressoren, SAUER Compressors, Reavell, Belliss & Morcom, Ingersoll Rand, 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 Nitrogen Gas Booster market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Nitrogen Gas Booster Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Nitrogen Gas Booster Market, Segmentation by Type:

Pneumatically Driven Nitrogen Booster

Electrically Driven Nitrogen Booster

Hydraulically Driven Nitrogen Booster

Others

#### Global Nitrogen Gas Booster Market, Segmentation by Boosting Structure:

Plunger Type

Diaphragm Type

Screw Type

#### Global Nitrogen Gas Booster Market, Segmentation by Pressure Rating:

Low Pressure (<math>< 10\text{Mpa}</math>)

Medium Pressure (<math>10\text{--}40\text{Mpa}</math>)

High Pressure (40?100Mpa)

Global Nitrogen Gas Booster Market, Segmentation by Application:

Oil and Gas

New Energy and Energy Storage

Semiconductors

Others

Companies Profiled:

Haskel

Maximator

Hydratron

Resato

Atlas Copco

BAUER Kompressoren

SAUER Compressors

Reavell

Belliss & Morcom

Ingersoll Rand

KAESER

NARDI Compressori

Mehrer Compression

PDC Machines

RIX Industries

Hydro-Pac

**Key Questions Answered:**

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

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