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Liquefied Natural Gas Compressor Market Forecasts to 2032 – Global Analysis By Compressor Type (Centrifugal Compressors, Reciprocating Compressors, Screw Compressors, Axial Compressors, Scroll Compressors and Diaphragm Compressors), Cooling Method (Air-Cooled, Water-Cooled and Cryogenic Systems), Capacity, Technology, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Liquefied Natural Gas Compressor Market is accounted for $4.31 billion in 2025 and is expected to reach $6.75 billion by 2032 growing at a CAGR of 6.6% during the forecast period. Liquefied natural gas (LNG) compressor is a specialized mechanical device used to pressurize natural gas during its liquefaction process. It facilitates gas intake, compression, cooling, and discharge to enable efficient conversion into liquid form at cryogenic temperatures. These compressors typically centrifugal, screw, or piston types are integral to LNG production, storage, and transport systems. They ensure stable operation, high throughput, and minimal emissions, supporting offshore injection, boil-off gas recovery, and fuel gas supply across LNG facilities

According to International Gas Union (IGU) in 2025, liquefied natural gas (LNG) compressors play a critical role in the liquefaction process, and account for approximately 25–30% of total energy consumption in an LNG plant, making compressor efficiency a key factor in reducing overall operational costs and emissions.

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Market Dynamics:

Driver:

Increasing global demand for natural gas as a cleaner energy source

The escalating worldwide need for natural gas stems from its recognition as a vital transitional fuel in the global energy shift, offering a more environmentally friendly alternative compared to traditional fossil fuels like coal and oil. This increased demand is driven by stricter environmental regulations aiming to reduce carbon emissions and air pollution, coupled with a growing awareness of climate change. Consequently, numerous countries are actively expanding their natural gas infrastructure, including import and export terminals, to meet their energy requirements while striving for a lower carbon footprint.

Restraint:

Geopolitical instability and energy price volatility

Conflicts, trade disputes, and political tensions in major natural gas-producing or consuming regions can disrupt supply chains, impact investment decisions, and create uncertainty in global energy markets. Furthermore, fluctuations in natural gas prices, often influenced by supply-demand imbalances, storage levels, and even weather events, can directly affect the profitability of LNG projects, leading to project delays or cancellations impeding the markets growth.

Opportunity:

Development of small-scale and floating LNG (FLNG) solutions

Innovative technologies offer cost-effective and flexible alternatives to traditional large-scale onshore liquefaction plants, making natural gas accessible to remote locations or smaller markets that might not justify massive infrastructure investments. Small-scale LNG facilities cater to localized demand, while FLNG units enable the monetization of offshore gas reserves that are otherwise uneconomical to develop. This trend significantly broadens the potential customer base for LNG compressors, as these compact and modular solutions require specialized, high-performance compression technologies tailored to their unique operational environments.

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Threat:

Rapid shift to fully renewable energy sources

As technological advancements continue to drive down the costs of solar, wind, and other renewable energy technologies, and as governments worldwide commit to aggressive decarbonization targets, the reliance on natural gas as a bridge fuel may diminish faster than anticipated. Increased investments in grid modernization, energy storage solutions, and direct electrification initiatives could displace the need for new LNG infrastructure, potentially leading to a plateau or decline in demand for LNG compressors.

Covid-19 Impact:

The COVID-19 pandemic exerted a multifaceted impact on the liquefied natural gas (LNG) compressor market, leading to both immediate disruptions and subsequent shifts in market dynamics. Initially, the global economic slowdown and plummeting energy demand, coupled with supply chain interruptions, caused project delays and reduced investment in new LNG ventures. However, as economies began to recover and the importance of energy security gained prominence, the pandemic also highlighted the need for flexible and resilient energy supply chains.

The screw compressors segment is expected to be the largest during the forecast period

The screw compressors segment is expected to account for the largest market share during the forecast period attributed to their widespread adoption across various stages of the LNG value chain, including liquefaction, regasification, and transportation. Screw compressors are highly favored due to their robust design, high efficiency, and ability to handle a wide range of flow rates and pressures, making them ideal for the demanding conditions of LNG applications. Their inherent reliability and proven performance in continuous operation contribute significantly to their large market share.

The hermetically sealed compressors segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the hermetically sealed compressors segment is predicted to witness the highest growth rate driven by increasing demand for enhanced safety, reduced leakage, and lower maintenance requirements in LNG applications, particularly

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in smaller-scale and specialized projects. Hermetically sealed compressors offer superior containment of refrigerants and natural gas, minimizing environmental impact and improving operational safety by preventing gas emissions further propels the adoption of these advanced compressor types.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share primarily driven by the region's rapidly growing energy demand, particularly from industrialization and urbanization in countries like China, India, Japan, and South Korea. These nations are heavily reliant on LNG imports to meet their energy needs and fuel their economic growth, leading to significant investments in LNG import terminals, regasification facilities, and associated infrastructure.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR fueled by the region's burgeoning natural gas production, particularly from shale gas reserves, which has transformed it into a significant LNG exporter. Extensive investments in new liquefaction terminals along the U.S. Gulf Coast and Canada are driving the demand for advanced, high-capacity LNG compressors. Furthermore, the region's strategic focus on expanding its export capabilities to serve global markets, coupled with technological advancements in compressor efficiency and performance, positions North America for remarkable growth in the coming years.

Key players in the market

Some of the key players in Liquefied Natural Gas Compressor Market include Atlas Copco AB, Baker Hughes Company, Burckhardt Compression AG, EagleBurgmann, Elliott Group, Gardner Denver Holdings Inc., General Electric Company, Howden Group, IHI Rotating Machinery Engineering Co. Ltd., IMW Industries Ltd., Ingersoll Rand Inc., Kobelco Compressors America Inc., MAN Energy Solutions SE, Mitsubishi Heavy Industries Ltd., Mitsui Seiki Kogyo Co. Ltd., Siemens AG, Sulzer Ltd and Sundyne.

Key Developments:

In June 2025, Atlas Copco announced the acquisition of ABC Compressors, a Spanish reciprocating compressor manufacturer with operations in Spain, China and sales

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offices in India, USA and Mexico. The transaction is expected to close in Q3 2025 and boost its Air & Gas Applications division

In April 2025, Burckhardt won an order to supply the high-pressure MD10?L diaphragm compressor package for hydrogen trailer-filling applications in Sweden. The plug-and-play containerized system handles up to 500 normal cubic meters/hour at ~30–40 barg, ensuring SAE J?2719 hydrogen purity.

Compressor Types Covered:

- Centrifugal Compressors
- Reciprocating Compressors
- Screw Compressors
- Axial Compressors
- Scroll Compressors
- Diaphragm Compressors

Cooling Methods Covered:

- Air-Cooled
- Water-Cooled
- Cryogenic Systems

Capacities Covered:

- Low Capacity (Below 1000 HP)
- Medium Capacity (1000–5000 HP)
- High Capacity (Above 5000 HP)

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Technologies Covered:

- Hermetically Sealed Compressors
- Open-Type Compressors
- Semi-Hermetic Compressors

Applications Covered:

- LNG Liquefaction
- LNG Transportation
- LNG Regasification
- LNG Storage Facilities
- Other Applications

End Users Covered:

- Oil & Gas
- Marine & Shipping
- Power Generation
- Industrial Manufacturing
- Chemical & Petrochemical
- Transportation
- Other End Users

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea

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Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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All the customers of this report will be entitled to receive one of the following free customization options:

- Company Profiling
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  - SWOT Analysis of key players (up to 3)
- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking
  - Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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