

Global Active Magnetic Bearing (AMB) Turboexpander Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Active Magnetic Bearing (AMB) Turboexpander market size is expected to reach \$ 248 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global Active Magnetic Bearing (AMB) Turboexpander production reached approximately 242 units, with an average global market price of around US\$720,000 per unit. Active Magnetic Bearing (AMB) Turboexpander is an energy conversion device. Active magnetic bearing (AMB) is a type of contactless and frictionless bearing. It uses actively controlled magnetic forces to achieve levitation. By levitating the rotor there is no contact between the rotating and stationary parts.

The global active magnetic bearing (AMB) turboexpander market is closely aligned with global industrial energy conservation policies and the energy industry's investment cycle, with demand concentrated in LNG processes, petrochemical refining, and industrial residual pressure energy recovery scenarios. Energy efficiency improvement and emission reduction policies across major economies directly drive downstream demand for oil-free, low-maintenance, high-efficiency turbomachinery. Compared with traditional bearing products, AMB technology eliminates mechanical friction loss and removes the need for lubrication system maintenance, adapting to special working conditions such as high cleanliness and cryogenic environments. It delivers notable improvements to process stability and long-term operating costs, leading to strict customer requirements for suppliers' technical qualifications and application experience, as well as strong cooperation stickiness.

Industry competition centers on bearing control accuracy, wide-condition operational reliability, and full-lifecycle costs. Product R&D involves cross-domain integration of

electromagnetic control, fluid mechanics and high-speed motor technologies, creating high technical entry barriers and a limited number of participants with full independent R&D and precision manufacturing capabilities. Leading players continuously optimize magnetic bearing control algorithms and condition adaptability, with intelligent condition monitoring technologies further enhancing product performance.

Mature markets see demand led by stock equipment efficiency upgrades and maintenance replacement, while emerging markets in Asia Pacific and the Middle East drive most new demand via LNG capacity expansion and petrochemical investment. Chinese manufacturers have achieved technological breakthroughs with local industrial chain and policy support, advancing domestic import substitution and joining overseas project bidding. Emerging processes including hydrogen liquefaction and carbon capture set new performance requirements, creating long-term growth space for enterprises with technological iteration capabilities.

This report studies the global Active Magnetic Bearing (AMB) Turboexpander production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Active Magnetic Bearing (AMB) Turboexpander 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 Active Magnetic Bearing (AMB) Turboexpander that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Active Magnetic Bearing (AMB) Turboexpander total production and demand, 2021-2032, (Units)

Global Active Magnetic Bearing (AMB) Turboexpander total production value, 2021-2032, (USD Million)

Global Active Magnetic Bearing (AMB) Turboexpander production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Active Magnetic Bearing (AMB) Turboexpander consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Active Magnetic Bearing (AMB) Turboexpander domestic production, consumption, key domestic manufacturers and share

Global Active Magnetic Bearing (AMB) Turboexpander production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Active Magnetic Bearing (AMB) Turboexpander production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Active Magnetic Bearing (AMB) Turboexpander production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Active Magnetic Bearing (AMB) Turboexpander 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 Cryostar, Atlas Copco, Baker Hughes, Air Products (Rotoflow), Nikkiso, Chart Industries (LA Turbine), Turbogaz, Sapphire Technologies, Zhejiang Boxu New Energy Technology, Hangzhou Hangzhou Oxygen Expander, 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 Active Magnetic Bearing (AMB) Turboexpander 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 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 Active Magnetic Bearing (AMB) Turboexpander Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Magnetic Bearing (AMB) Turboexpander Market, Segmentation by Type:

Axial Type

Radial Type

Radial-Axial Type

Global Active Magnetic Bearing (AMB) Turboexpander Market, Segmentation by Load Type:

Expander-Compressor

Expander-Generator

Expander-Brake

Global Active Magnetic Bearing (AMB) Turboexpander Market, Segmentation by Power:

5000kW

Global Active Magnetic Bearing (AMB) Turboexpander Market, Segmentation by Application:

LNG

Chemical and Petrochemical

Energy Recovery

Air Separation

Others

Companies Profiled:

Cryostar

Atlas Copco

Baker Hughes

Air Products (Rotoflow)

Nikkiso

Chart Industries (LA Turbine)

Turbogaz

Sapphire Technologies

Zhejiang Boxu New Energy Technology

Hangzhou Hangzhou Oxygen Expander

Nanjing Cigu Technology

Key Questions Answered:

1. How big is the global Active Magnetic Bearing (AMB) Turboexpander market?
2. What is the demand of the global Active Magnetic Bearing (AMB) Turboexpander market?
3. What is the year over year growth of the global Active Magnetic Bearing (AMB) Turboexpander market?
4. What is the production and production value of the global Active Magnetic Bearing

(AMB) Turboexpander market?

5. Who are the key producers in the global Active Magnetic Bearing (AMB) Turboexpander market?

6. What are the growth factors driving the market demand?

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