

Global Turbo Expander Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Turbo Expander market size was valued at USD 549.4 million in 2023 and is forecast to a readjusted size of USD 687.4 million by 2030 with a CAGR of 3.3% during review period.

Turbo expander is a machine, which continuously converts kinetic energy into mechanical energy. This is done by expanding the high pressure gas from upstream to a lower pressure downstream through the Expander. The high pressure gas causes the radial expander to rotate. Rotation is transmitted to the shaft, which is supported by a set of bearings. The power transmitted to the shaft can be used to drive a compressor, drive an electrical generator or can be dissipated through an oil brake or air brake. Turbo Expander is also referred to as a turbo-expander or an expansion turbine, is a centrifugal or axial flow turbine through which a high pressure gas is expanded to produce work that is often used to drive a compressor.

Global leading players in turbo expander market are Cryostar, Atlas Copco and GE oil & gas etc. The top 5 companies hold a share about 55%. Asia Pacific is the largest market, with a share about 35%, followed by Europe and North America with the share about 30% and 23%.

The Global Info Research report includes an overview of the development of the Turbo Expander industry chain, the market status of Air Separation (Radial-Axial Turbo Expander, Radial Turbo Expander), Liquefied Natural Gas (LNG) (Radial-Axial Turbo Expander, Radial Turbo Expander), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Turbo Expander.

Regionally, the report analyzes the Turbo Expander markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Turbo Expander market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Turbo Expander market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Turbo Expander industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Radial-Axial Turbo Expander, Radial Turbo Expander).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Turbo Expander market.

Regional Analysis: The report involves examining the Turbo Expander market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Turbo Expander market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Turbo Expander:

Company Analysis: Report covers individual Turbo Expander manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Turbo Expander. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Air Separation, Liquefied Natural Gas(LNG)).

Technology Analysis: Report covers specific technologies relevant to Turbo Expander. It assesses the current state, advancements, and potential future developments in Turbo Expander areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Turbo Expander market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Turbo Expander market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Radial-Axial Turbo Expander

Radial Turbo Expander

Axial Turbo Expander

Market segment by Application

Air Separation

Liquefied Natural Gas(LNG)

Petrochemical Processing

Waste Heat or Other Power Recovery

Others

Major players covered

Cryostar

Atlas Copco

GE(Baker Hughes)

Air Products

ACD

L.A. Turbine

Turbogaz

Samsung

RMG

Hangyang Group

SASPG

HNEC

Suzhou Xida

Beifang Asp

Jianyang Ruite

Huayu

Air Liquide

Hanwha

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Turbo Expander product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Turbo Expander, with price, sales, revenue and global market share of Turbo Expander from 2019 to 2024.

Chapter 3, the Turbo Expander competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Turbo Expander breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017

to 2023.and Turbo Expander market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Turbo Expander.

Chapter 14 and 15, to describe Turbo Expander sales channel, distributors, customers, research findings and conclusion.

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