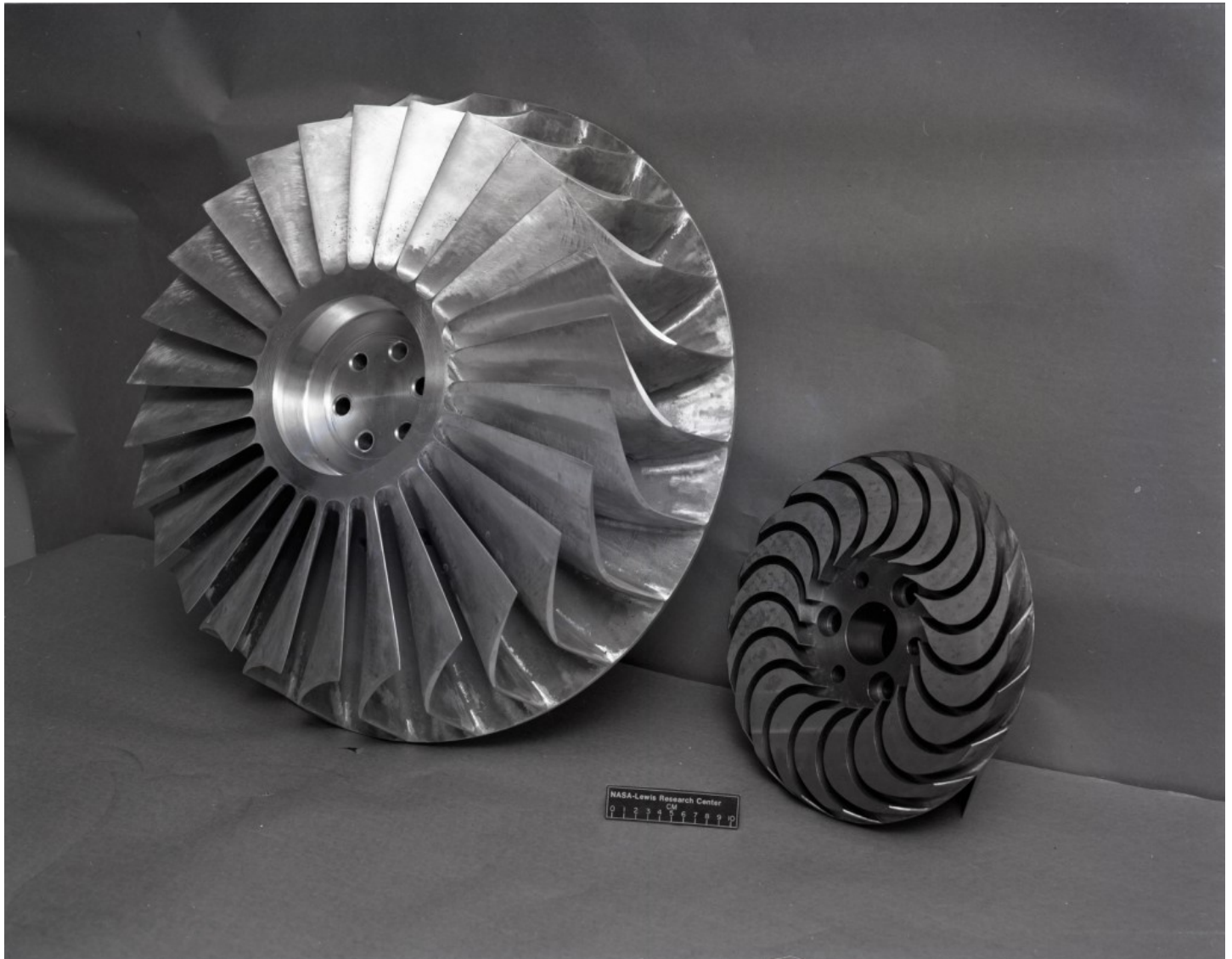


Turboexpanders Market – Global Industry Perspective, Comprehensive Analysis and Forecast, 2021 – 2028

Turboexpanders Market quickly expanding to reach at high CAGR of 6.7% by 2028



Kentucky, Ashland, Aug 18, 2021 ([Issuewire.com](https://www.issuewire.com)) - Market Overview

Turbo expanders are the expansion turbines used to capture the energy lost in natural gas facilities and refineries. The turboexpanders are widely used for energy recovery and power generation. These expanders convert the kinetic energy to useful energy/electricity with the turbines and electrical generators' help. The gas flows from the high-pressure stream into the turbo-expand and the turbine, the cogenerators' help generator that produces electricity. Turboexpanders are extensively used in cryogenic applications, including petrochemical, natural gas, and air separation industries.

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Market Dynamics

The market is driven by the rising demand for turboexpanders with a safe working environment in industrial facilities. The increasing awareness of the impact of air pollution, growing industrialization, and increasing environmental concern due to global warming shall boost further demand for Turbo Expanders.

The market is witnessing technological advancement for the development of the fabric filter. For instance, the advancement of the turboexpanders concerning the temperature and tough working conditions with standability, filtration efficiency improvement has led to the development of the Turbo Expanders with different surface finishes and characteristics. The introduction of micro-denier fibers, which are lightweight and high bulk water repellent, has led to efficient and durable fabrics concerning filtration efficiency. This has resulted in enhancing the efficiency of the Turbo Expanders. Several companies are developing turbo expanders with low-pressure filtration technology. This technology develops the turboexpanders with a cleaning pressure of 0.8 bar. Low-pressure filtration is achieved by using a physical flow model study / computational flow distribution study. The turboexpanders were developed using the low-pressure filtration technology to achieve low energy consumption, lower outlet emissions, extended bag life & overall reduced operational cost.

The rise in the launch of the novel filtration media shall stimulate market growth. For instance, in November 2018, Ahlstrom-Munksjö had launched the Ahlstrom-Munksjö Extia 1000, a breakthrough, highly durable filtration media designed to extend filtration lifetime for Air Pollution Control applications. The Ahlstrom-Munksjö Extia 1000 would be useful for protecting the people and the environment. It would extend the filtration lifetime by more than 40%. It has a unique design and is easier to convert into a filter on both knife and rotary pleating machines. It delivers highly effective removal of coarse particles at over 3 times lower levels of pressure drop.

However, the availability of the substitutes, especially the electrostatic precipitators (ESP). The electrostatic precipitators (ESP) are preferred over Turbo Expanders, especially for high-temperature applications like Clinker Cooler and flue gas treatment in the power plant.

Market Segmentation

By Loading Device

- Compressor
- Generator
- Oil Brake
- Others

By Application

- Hydrocarbon
- Air Separation
- Others

By End-Users

- Oil & Gas
- Manufacturing
- Power Generation
- Others

Geographical Presentation

By region, the global turbo expanders market is segmented into North America, South America, Europe, Asia-Pacific, Middle-East, and Africa. Among all of the regions, Asia-Pacific dominated the global turbo expanders market and is expected to grow at the highest CAGR during the forecasted period due to the high usage of turbo expanders to capture the energy lost facilities and refineries. The turboexpanders are used for power generation. Various industries involve the use of turboexpanders for achieving improved isentropic efficiency for higher productivities. The tub using the turboexpanders to achieve ng, cooling, and compressing LNG generates energy from excess gases in the fertilization process. The growing usage of natural gas for generating power shall stimulate market growth. Natural gas is widely used as a source of energy for heating, cooking, and electricity generation. It is also used as fuel for vehicles and as a chemical feedstock in plastics and other commercially important organic chemicals.

According to the United States Energy Information Administration, the annual natural gas consumption is expected to reach 120 billion cubic feet per day (Bcf/d) in Asian countries such as China, India, Bangladesh, Thailand, and Vietnam by 2025. There is a high investment in the refineries and expanding the production of natural gas. China accounts for the highest market share of XX% due to the high usage of the technologically advanced turbo-expanders in the petrochemical, natural gas, and air separation industries. There is the presence of several companies that are developing innovative turbo expanders comprising the compressor loaded, generator loaded, and hydraulic brake-loaded.

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Competitive Analysis

The global Turbo Expanders market is highly competitive with the presence of several international and local markets. Product diversification, revenue generation, and opportunities intensify the market competition. Atlas Copco, Baker Hughes Company, L.A. Turbine, ADC, LLC, Air Products and Chemicals, Cryostar SAS, PBS Group, Siemens, and Honeywell International Inc. are the leading market players with significant market share.

The major players are using product development, novel product launches, market expansion, contracts, and product diversification strategies for holding their position in the market. For instance, in November 2019, L.A. Turbine had commissioned the first ARES AMB Turboexpander-Compressor within a newly established natural gas liquid (NGL) processing plant Bakken Shale Play of North Dakota. The ARES AMB Turboexpander-Compressor machine features the industry's first skid-mounted AMB controller and PLC design. L.A. Turbine would continue to share turbo-expander and AMB controller performance data updates from the NGL installation site.

In April 2018, L.A. Turbine had announced that its L3000 turboexpander-compressor in a UOP Russell cryogenic natural gas processing plant in Eddy County, New Mexico, had exceeded its designed 200MMSCFD flowrate by 10 percent.

In May 2017, L.A. Turbine had awarded the turboexpander contract to provide the turboexpander units for gas processing and natural gas liquid (NGL) recovery within Honeywell UOP Russell modular gas plant installations. The turboexpander-compressor units are designed to handle a flow range of 60-200 million ft³/d for UOP Russell standard gas plants.

The companies are entering into collaborations, mergers, strategic partnerships, and acquisitions to increase the demand for turboexpanders and their expansion across the globe. For instance, in August

2018, Air Products acquired the roto flow turbo-expand business from Baker Hughes, a GE company. Air Products acquired all engineering and service capabilities to continue providing world-class service to Rotoflow customers. This acquisition would extend Air Products' existing world-scale industrial gas and liquefied natural gas (LNG) turboexpander capabilities into growing hydrocarbon, petrochemical, and energy segments.

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