

Global Hydrogen Turboexpander Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Hydrogen Turboexpander market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The hydrogen energy industry is a rapidly evolving sector that focuses on the production, storage, and utilization of hydrogen as a clean and versatile energy carrier. Hydrogen is considered a promising solution for decarbonizing various sectors and achieving a transition to a low-carbon economy.

A hydrogen turboexpander is a device that utilizes the expansion of high-pressure hydrogen gas to produce mechanical work. It is a type of turbine specifically designed to operate with hydrogen as the working fluid.

The principle of operation of a hydrogen turboexpander is based on the Joule-Thomson effect, which states that a gas experiences a temperature change when it expands through a restriction while maintaining constant enthalpy. In the case of a turboexpander, high-pressure hydrogen is passed through a series of nozzles or blades, causing it to expand rapidly. This expansion converts the pressure energy of the hydrogen into kinetic energy, which drives a turbine rotor.

The turbine rotor is connected to a shaft and, in turn, drives a generator or other mechanical equipment. As the hydrogen expands and flows through the turbine, it loses pressure and temperature. The exhaust hydrogen gas is typically cooled and compressed before being fed into another process or recycled.

This report studies the global Hydrogen Turboexpander production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Turboexpander, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen Turboexpander that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen Turboexpander total production and demand, 2018-2029, (Units)

Global Hydrogen Turboexpander total production value, 2018-2029, (USD Million)

Global Hydrogen Turboexpander production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Hydrogen Turboexpander consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Hydrogen Turboexpander domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Turboexpander production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Hydrogen Turboexpander production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Hydrogen Turboexpander production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Hydrogen 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 Baker Hughes, Chart Industries, Turboden, Sapphire Technologie, Cryostar, Atlas Copco, Siemens Energy, Linde and Elliott Group, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen Turboexpander market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Hydrogen Turboexpander Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Turboexpander Market, Segmentation by Type

High-Pressure Turboexpanders

Low-Pressure Turboexpanders

Global Hydrogen Turboexpander Market, Segmentation by Application

Hydrogen Liquefaction

Cryogenic Air Separation

Hydrogen Recovery and Purification

Power Generation

Others

Companies Profiled:

Baker Hughes

Chart Industries

Turboden

Sapphire Technologie

Cryostar

Atlas Copco

Siemens Energy

Linde

Elliott Group

MAN Energy Solutions

Rotoflow

Wartsila

Key Questions Answered

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

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