

Global Oil-Free Screw Compressor Market Size study & Forecast, by Stage (Single stage, Multi stage), by Industry (Food & Beverage, Automotive, Semiconductor, Pharmaceutical & Chemical, Metal & Mining, Oil & Gas, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G60007145041EN.html>

Date: March 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G60007145041EN

Abstracts

Global Oil-Free Screw Compressor Market is valued at approximately USD 2.43 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.0 % during the forecast period 2023-2030. An oil-free screw compressor functions by compressing air solely through the screw mechanism, without the assistance of oil seals. It is manufactured using materials such as aluminium and steel, screw compressors incorporate components such as bearings, crankshafts, switches, gauges, rotors, and housings. Functioning as positive displacement compressors, their intermeshing rotors remain separated without contact. The maintenance of their relative positioning is ensured by lubricated timing gears located outside the compression chamber. The rise in energy consumption demands for energy-efficient compressors which serves as a primary driver for the Oil-Free Screw Compressor Market, as oil-free screw compressors have enhanced energy efficiency compared to traditional compressor systems. The operation cost and energy consumption of the oil-free screw compressor is minimized due to the various technological upgrade over the years which also drives the growth of this market.

The increasing energy consumption has necessitated the utilization of oil-free screw compressors in industries, owing to their efficient properties. According to Statista, in 2022, global primary energy consumption reached approximately 604 exajoules, marking a 1.1% increase from the previous year. The year 2020 saw a decline in

primary energy consumption to levels akin to 2016 because of the coronavirus pandemic on transportation fuel demand and overall economic activity. Following the normalization of the pandemic, there is a projected surge in demand, particularly driven by industrialization in growing economies. This demand necessitates efficient and sustainable manufacturing processes, where oil-free screw compressors provide cleaner air solutions and enhanced energy consumption efficiency. This trend presents a long-term opportunity for the market. However, Advancements in technology present opportunities for superior solutions to enter the market, offering low maintenance and energy consumption compared to oil-free screw compressors. However, industries' adherence to evolving quality standards in response to changing environmental factors may necessitate constant dynamic upgrades to meet requirements, posing a significant challenge in the market.

The key regions considered for the Global Oil-Free Screw Compressor Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the presence of the emerging economies which serve as the base for industrialization and urbanization creating a huge consumption and demand for energy along with the ongoing investments in the power and energy sector is also a major reason for the increased share of this region. North America is expected to grow significantly over the forecast period, owing to factors such as, the rise in consumer awareness regarding eco-friendly energy solutions, coupled with supportive government policies, serves as a driving force for enhanced market performance in the region during the forecast period.

Major market player included in this report are:

Elgi Equipments Limited

Atlas Copco AB

Sulliar, LLC

Ingersoll Rand

Kobe Steel Ltd

Howden Group

Aerzener Maschinenfabrik GmbH

Kaeser Kompressoren SE

FS-Curtis

Airpack

Recent Developments in the Market:

In February 2024, Elgi unveiled the groundbreaking PG 550-215 trolley-mounted portable screw air compressor at the 12th edition of India Stonemart 2024, This ELGi PG550-215 is meticulously crafted to elevate operational efficiency, reduce drilling expenses, and enhance fuel economy within the construction and mining industries.

In September 2022, Howden, in partnership with Azku Global Services of the Khudairi Group, secured a contract for supplying screw compressor packages to the Majnoon oilfield located near Basrah, Iraq. Howden is thrilled to help Azku Global Services decrease its carbon footprint and deliver greater sustainability.

In November 2021, ELGi broadens its range of innovative AB Series Oil-Free Screw Air Compressors. The newly introduced AB11-22 range fulfils the requirement for contaminant-free air in small to medium-sized operations within the Food & Beverage, Pharmaceutical, and sensitive industrial sectors.

Global Oil-Free Screw Compressor Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Stage, Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Stage:

Single stage

Multi stage

By Industry:

Food & Beverage

Automotive

Semiconductor

Pharmaceutical & Chemical

Metal & Mining

Oil & Gas

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

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Middle East & Africa

Saudi Arabia

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