

Centrifugal Blowers Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The centrifugal blowers market is projected to register a CAGR of 4.5% during the forecast period. Rising government investments in critical infrastructure development projects and robust demand for rural housing are expected to support the growth of the studied market.

Key Highlights

Centrifugal blowers are industrial tools that are widely used for high-pressure applications. They are found in processing industries as an important element in air pollution control systems. An essential distinction between centrifugal blowers and other types of blowers or fans is their ability to provide airflow efficiently at a constant pressure. Centrifugal blowers offer several variations like airflow capacity, blower type, blower dimensions, and operating pressure. Regardless of the variations, centrifugal blowers can be customized and adapted to fit any kind of industrial application. The versatility of these blowers offers a significant advantage over other types of blowers.

The increasing cement consumption for building and construction purposes is anticipated to significantly boost the centrifugal blowers' growth. According to US Geological Survey, the total volume of cement production worldwide totaled an estimated 4.4 billion metric tons in 2021, an increase from 4.2 billion metric tons in 2020.

Furthermore, the growth in the steel industry is also augmenting the demand for centrifugal blowers. Several industries require steel materials like automobiles, railways, construction, etc. In the steel industry, various metals (pure or alloys) shape thin sheets, tubes, and semi-finished products. This process is variegated and complex, requiring significant energy and large-scale systems. Therefore a steel plant needs several industrial fans & blowers for multiple purposes like- drying & heating ore pellets, removing and cleaning waste gases, handling the undersized dust particles, providing combustion air to burn coke, exhausting waste by-products, cooling the product to remove heat, etc.

However, the operational maintenance of blowers could create several issues and, if not done correctly, could stop the whole

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manufacturing line. Fan systems are mechanical equipment that needs maintenance to ensure proper working. If clean air is not passed through the system, then contaminants present in the air could cause a system failure. This expensive and complicated maintenance mode could hamper the studied market's growth.

Further, geopolitical chaos and supply chain disruptions have impacted investor sentiment in today's stormy economic conditions and the challenges caused by the COVID-19 pandemic. Uncertainties in new project investment, apprehensions of low ROI, and increased operational expenses, particularly in the oil and gas upstream sector and the power generation, chemical process, and metals and mining industries, have affected centrifugal blower volume sales. These factors are expected to impede the growth of the studied market.

Centrifugal Blowers Market Trends

The Power Generation Segment is Expected to Hold a Major Market Share

The global population has been steadily increasing, boosting the demand for power generation units like nuclear power, coal, thermal, and hydropower plants. Such plants use industrial fans and blowers to supply air for combustion and heat transfer. The growing number of thermal power plants also contributes to the growth of the studied market as the boiler systems in thermal power plants employ different types of centrifugal blowers to supply air required for combustion, deliver fuel to the burners, circulate the gases for efficient heat transfer and remove exhaust gases. Based on the size of the boiler and airflow requirement, different fans are used with varied capabilities.

According to the Central Electricity Authority (CEA) of India, the highest energy capacity in India came from thermal energy, accounting for an installed capacity of around 235 thousand megawatts as of February 2022.

Approximately 70% of the country's electricity generation was from thermal power plants. Coal dominated the power supply with a contribution of over 86% through thermal power plants. Along with coal, thermal power is generated from lignite, diesel, and gas.

Additionally, according to BP, China was the leading country in terms of hydroelectricity generation in 2021, with 1,300 terawatt hours. According to the International Hydropower Association, the cumulative hydropower and pumped storage installed capacity worldwide increased from 1,330 gigawatts in 2020 to 1,360 gigawatts in 2021. The increasing installed base and output of hydropower plants are expected to drive the growth of the centrifugal blowers market.

The Asian-Pacific Region is Expected to Witness a High Market Growth

The centrifugal blowers market is driven by the rising construction, food & beverage, mining, and power generation industries in the Asia Pacific region. Many countries' extensive plans for infrastructure development are creating robust growth opportunities for the studied market. Infrastructure development is currently in full swing in developing countries of Asia-Pacific like India, China, Japan, etc. steel and cement production plants are also the primary users of these blowers in the region.

According to National Development and Reform Commission (China), the annual steel production volume in China increased from 1,205 million tons in 2019 to 1,337 million tons in 2021. Additionally, according to India Brand Equity Foundation, as of April 2022, India was the world's second-largest producer of crude steel, with an output of 10.14 MT. The increasing steel production in the Asian-Pacific region is anticipated to offer lucrative opportunities for the growth of the studied market.

The blowers are employed to eliminate gases and retain consistent airflow and temperature. In cement production, in particular, the blowers are employed for moving silica, calcium carbonate, alumina, and iron ore further in the processes.

According to India Brand Equity Foundation, in 2019, India was the second-largest cement producer globally. The country had about 8% of the global installed capacity that year. Consumption of cement in 2019 time stood at around 328 million metric tons.

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The cement consumption volume in India is estimated to reach 379 million metric tons in 2022. Furthermore, according to the National Bureau of Statistics of China, cement production in China amounted to 248.69 million metric tons in May 2020 and 243.07 million metric tons in May 2021. Such robust cement production activity in the region is anticipated to aid the expansion of the studied market.

Centrifugal Blowers Market Competitor Analysis

The centrifugal blowers market is a moderately fragmented market with prominent players like Howden Group, Illinois Blower Inc., Alfotech Fans, Aeromeccanica Stranich SpA, etc. The market players are striving to cater to their customers' evolving and complex requirements by way of continuous product innovations, collaborations/partnerships, and competitive pricing.

May 2021 - The C series multistage centrifugal blower, a new generation of high-efficiency and energy-saving blower developed by Shandong Dacheng Machinery Technology Co. Ltd, won the "director of small and medium enterprises Award," the highest award for energy-saving products for small and medium enterprises, issued by the Japanese Ministry of economy and industry.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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