

Global Tri-Lobe Roots Blower Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Tri-Lobe Roots Blower market size was valued at US\$ 1014 million in 2024 and is forecast to a readjusted size of USD 1235 million by 2031 with a CAGR of 2.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A tri-lobe roots blower is a type of positive displacement rotary blower that uses two rotors, each with three lobes, to move air or gas. It's widely used in various industrial applications, particularly where a steady flow of air or gas at low pressure is needed.

Improving efficiency and reducing energy consumption are the main development trends of Roots blowers. The impeller is the core component of the Roots blower. The change in the cross-sectional shape of the impeller has a significant impact on the air volume, energy consumption and noise of the blower. The energy consumption can be well reduced by optimizing the design of the impeller.

Increasing the speed is one of the important ways to miniaturize the blower, which can achieve obvious effects of reducing volume and weight while improving efficiency. However, increasing the impeller speed has higher requirements for the impeller material, sealing system, bearing system and rotor stability of the Roots blower, which is a problem that needs to be studied and solved in the development process of the Roots blower.

The noise of the Roots blower is one of the sources of noise pollution in industrial production. The noise of the fan is mainly aerodynamic noise. The noise problem of large Roots blowers is prominent. Its speed is low, the noise frequency is low, the wavelength is long, and it is not easy to block and eliminate. At present, the research on silencing and noise reduction of Roots blowers is constantly deepening, such as the design of various air outlet shapes of the casing, the use of backflow silencing, resonance silencing, etc.

With the continuous expansion of the scale of various industrial devices, the requirements for production process control have developed from the past single working condition parameter control to multiple working condition parameter control to better meet the requirements of the production process. Using PLC, single chip microcomputer or PC can effectively control the various operating parameters of the blower, automatically adjust the operating parameters of the blower in real time according to the changes in the working condition parameters to meet the requirements of the process, and can protect the safe operation of the blower by monitoring parameters such as pressure, temperature, vibration, etc.

This report is a detailed and comprehensive analysis for global Tri-Lobe Roots Blower market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tri-Lobe Roots Blower market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Tri-Lobe Roots Blower market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Tri-Lobe Roots Blower market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Tri-Lobe Roots Blower market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Tri-Lobe Roots Blower

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Tri-Lobe Roots Blower market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Gardner Denver (Ingersoll Rand), Shandong Zhangqiu Blower, Aerzen, Howden (Ingersoll Rand), B-Tohin Machine, Changsha Blower, Anlet, ITO, TAIKO KIKAI, Haifude, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Tri-Lobe Roots Blower market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Helical Lobe

Straight Lobe

Market segment by Application

Wastewater Treatment

Chemical

Cement

Metallurgy

Electricity

Others

Major players covered

Gardner Denver (Ingersoll Rand)

Shandong Zhangqiu Blower

Aerzen

Howden (Ingersoll Rand)

B-Tohin Machine

Changsha Blower

Anlet

ITO

TAIKO KIKAI

Haifude

Everest Blowers

Unozawa

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 Tri-Lobe Roots Blower product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tri-Lobe Roots Blower, with price, sales quantity, revenue, and global market share of Tri-Lobe Roots Blower from 2020 to 2025.

Chapter 3, the Tri-Lobe Roots Blower competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tri-Lobe Roots Blower breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Tri-Lobe Roots Blower market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Tri-Lobe Roots Blower.

Chapter 14 and 15, to describe Tri-Lobe Roots Blower sales channel, distributors, customers, research findings and conclusion.

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