

Global Wankel Engines Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Wankel Engines market size was valued at USD 46 million in 2023 and is forecast to a readjusted size of USD 79 million by 2030 with a CAGR of 7.8% during review period.

The Wankel engine is a type of internal combustion engine using an eccentric rotary design to convert pressure into rotating motion. In contrast to the more common reciprocating piston designs, the Wankel engine delivers advantages of simplicity, smoothness, compactness, high revolutions per minute, and a high power-to-weight ratio primarily due to the fact that it produces three power pulses per rotor revolution compared to one per revolution in a two-stroke piston engine and one per two revolutions in a four-stroke piston engine (although at the actual output shaft, there is only one power pulse per revolution, since the output shaft spins three times as fast as the actual rotor does, as can be seen in the animation below, making it roughly equivalent to a 2-stroke engine of the same displacement; this is also why the displacement only measures one face of the rotor, since only one face is working for each output shaft revolution). The engine is commonly referred to as a rotary engine, although this name also applies to other completely different designs, primarily aircraft engines with their cylinders arranged in a circular fashion around the crankshaft. All parts rotate consistently in one direction, as opposed to the common reciprocating piston engine, which has pistons violently changing direction. The four-stage cycle of intake, compression, ignition, and exhaust occur each revolution at each of the three rotor tips moving inside the oval-like epitrochoid-shaped housing, enabling the three power pulses per rotor revolution. The rotor is similar in shape to a Reuleaux triangle with sides that are somewhat flatter.

Global Wankel Engines key players include UAV Engines, Austro Engine, LiquidPiston,

Rotron Power, AIE etc. Global top five manufacturers hold a share over 50%.

Europe is the largest market, with a share over 40%, followed by North America and Asia-Pacific, both have a share over 50% percent.

In terms of product, Water Cooled is the largest segment, with a share over 70%. And in terms of application, the largest application is Unmanned Aerial Vehicle followed by Airplanes.

The Global Info Research report includes an overview of the development of the Wankel Engines industry chain, the market status of Unmanned Aerial Vehicle (Water Cooled, Air Cooled), Airplanes (Water Cooled, Air Cooled), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Wankel Engines.

Regionally, the report analyzes the Wankel Engines markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Wankel Engines market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Wankel Engines market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Wankel Engines industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Water Cooled, Air Cooled).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Wankel Engines market.

Regional Analysis: The report involves examining the Wankel Engines market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Wankel Engines market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Wankel Engines:

Company Analysis: Report covers individual Wankel Engines manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Wankel Engines. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Unmanned Aerial Vehicle, Airplanes).

Technology Analysis: Report covers specific technologies relevant to Wankel Engines. It assesses the current state, advancements, and potential future developments in Wankel Engines areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Wankel Engines market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Wankel Engines market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Water Cooled

Air Cooled

Market segment by Application

Unmanned Aerial Vehicle

Airplanes

Major players covered

UAV Engines

Austro Engine

LiquidPiston

Rotron Power

AIE

Mistral Engines

Aixro

Orbital Power

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 Wankel Engines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wankel Engines, with price, sales, revenue and global market share of Wankel Engines from 2019 to 2024.

Chapter 3, the Wankel Engines competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wankel Engines breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Wankel Engines market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Wankel Engines.

Chapter 14 and 15, to describe Wankel Engines sales channel, distributors, customers, research findings and conclusion.

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