

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Wankel Engines Market 2018, Forecast to 2023

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## Abstracts

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.

Scope of the Report:

This report focuses on the Wankel Engines in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report

categorizes the market based on manufacturers, regions, type and application. In the last several years, global market of Wankel Engines developed rapidly, with an average growth rate of 8%. In 2016, the actual production is about 900 Unit.

The global average price of Wankel Engines is in the fluctuation trend, from 35.8 K USD/Unit in 2012 to 33 K USD/Unit in 2016. With the situation of global aero industry, prices will be in fluctuation trend in the following five years.

The classification of Wankel Engines includes Water Cooled and Air Cooled and the proportion of Water Cooled in 2016 is about 70%, and the proportion is in decreasing trend from 2012 to 2016.

Wankel Engines is widely used in Unmanned Aerial Vehicle, Airplanes, and Other. The most proportion of Wankel Engines is Unmanned Aerial Vehicle.

Europe is the largest supplier of Wankel Engines, with a production market share nearly 77% in 2016. North America is the second largest supplier of Wankel Engines, enjoying production market share nearly 16% in 2016.

China has great consumption growth rate, Market competition is very intense. UAV Engines and Austro Engine are the two leaders of the industry, and they hold key technologies and market, with high-end customers; have been formed in the large market share in the industry.

The worldwide market for Wankel Engines is expected to grow at a CAGR of roughly 8.0% over the next five years, will reach 51 million US\$ in 2023, from 32 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

UAV Engines

Austro Engine

LiquidPiston

Rotron Power

AIE

Mistral Engines

Aixro

Orbital Power

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Water Cooled

Air Cooled

Market Segment by Applications, can be divided into

Unmanned Aerial Vehicle

Airplanes

There are 15 Chapters to deeply display the global Wankel Engines market.

Chapter 1, to describe Wankel Engines Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Wankel Engines, with sales, revenue, and price of Wankel Engines, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Wankel Engines, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Wankel Engines market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Wankel Engines sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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