

Global Piston Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/P4BBD9F745F6EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: P4BBD9F745F6EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Piston market size will reach 12,790 Million USD in 2025 and is projected to reach 18,312 Million USD by 2032, with a CAGR of 5.26% (2025-2032). Notably, the China Piston market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A piston is a component found in internal combustion engines and other reciprocating machinery. Typically cylindrical in shape, a piston moves back and forth within a cylinder under the influence of expanding gases produced during the combustion process. It is connected to a crankshaft through a connecting rod, and the reciprocating motion of the piston is transformed into rotary motion by the crankshaft. The top surface of the piston, known as the crown or head, is exposed to the combustion gases, while the bottom side is connected to the connecting rod. Pistons are critical for converting the energy generated by the combustion of fuel into mechanical motion, driving the engine's power and facilitating the operation of various vehicles and machinery. Pistons are manufactured from materials like aluminum or cast iron, and they undergo precise engineering to withstand high temperatures, pressure, and continuous movement within the engine cylinder.

The major global manufacturers of Piston include Mahle Group, Federal-Mogul, Aisin Seiki, Hitachi Automotive Systems, Rheinmetall Automotive, Binzhou Bohai Piston, Dong Yang Piston, Zynp Corporation, Cheng Shing Piston, Rizhao Shuanggang

Machinery Electronics, Chang'an Automobile Group, ARN Group, Zhejiang Jialaidun Piston Manufacture, Huamin Nanping Automobile Fittings Group, India Pistons, Honda Foundry, QuFu JinHuang Piston, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Piston. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Piston market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Piston market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Piston industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Piston Include:

Mahle Group

Federal-Mogul

Aisin Seiki

Hitachi Automotive Systems

Rheinmetall Automotive

Binzhou Bohai Piston

Dong Yang Piston

Zynp Corporation

Cheng Shing Piston

Rizhao Shuanggang Machinery Electronics

Chang'an Automobile Group

ARN Group

Zhejiang jialaidun Piston Manufacture

Huamin Nanping Automobile Fittings Group

India Pistons

Honda Foundry

QuFu JinHuang Piston

Piston Product Segment Include:

Cast Iron Piston

Steel Piston

Aluminium Alloy Piston

Combination Piston

Piston Product Application Include:

Passenger Vehicle

Commercial Vehicle

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