

Automotive Piston Market Piston Coatings (Thermal Barrier Coating, Dry Film Lubricating Coating)By 2025

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PORTLAND, OR, UNITED STATES, October 13, 2021 /EINPresswire.com/ -- The global automotive piston market was valued at \$8,685.0 million in 2017, and is projected to reach \$13,386.1 million by 2025, registering a CAGR of 5.4% from 2018 to 2025.

The automotive piston is an engine component cylindrical in shape, which slides back and forth in the cylinder bore due to force produced by the expansion of gas during the combustion process. Piston system comprises piston, piston rings, and piston pin; this system transfers the generated force to crankshaft through connecting rod. Piston generates mechanical energy that propels the crankshaft movement, which in turn, drives the wheels of the vehicle. Gasoline engine piston usually has less piston rings than diesel engine pistons due to high compression ratio of the latter. Most of the pistons are made up of aluminum & steel alloys to withstand high temperatures.

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Major Market Players:

- MAHLE GMBH
- FEDERAL-MOGUL
- KSPG AG
- AISIN-SEIKI
- HITACHI AUTOMOTIVE SYSTEMS
- INDIAN PISTON LIMITED
- SHRIRAM PISTON AND RINGS
- ARIAS PISTON
- APRICORN AUTOMOTIVE
- ROSS RACING PISTON

The demand for piston is increasing exponentially due to rise in the demand for vehicles and its production. Thus, the demand for piston is ultimately governed by automobile production. To improve the efficiency of engine, the lightweight piston is highly suitable. Hence, the need for continuous development of engine boosts the growth of the global market. Furthermore, the automobile sales across different segments such as four wheelers and two wheelers among others are growing and are expected to drive the growth of the global automotive piston market. Moreover, premium segment bikes in two wheelers market are inclined toward double cylinder engines over conventional single cylinder engines. Therefore, increase in production of premium segment bikes is anticipated to contribute to the growth of the global automotive piston market. Also, increase in demand for light and heavy commercial vehicles and passenger cars is expected to fuel the growth of the global market. The continuous R&D in the automotive sector to improve the fuel efficiency of engines may push the growth of the global automotive piston market.

Key Market Segments

- BY VEHICLE TYPE

- oTwo-Wheeler

- oPassenger Vehicle

- oCommercial Vehicle

- BY MATERIAL TYPE

- oSteel

- oAluminum

- BY PISTON TYPE

- oTrunk Piston

- oCrosshead Piston

- oSlipper Piston

- oDeflector Piston

- BY PISTON COATING TYPE

- oThermal Barrier Coating Piston

- oDry Film Lubricating Coating Piston

- oOil Shedding Coating Piston

However, increase in penetrations of electric vehicle to overcome harmful carbon emissions that result in pollution are anticipated to restrain the growth of the global market since electric vehicles do not possess conventional internal combustion engine. In addition, non-stop R&D is being carried on engines by researchers for improving the performance of engines. This results in downsizing of engines by reducing their weight and size. Therefore, the number of cylinders is reduced without compromising the output (power) of engines. Thus, technologies such as turbocharger and supercharger are being used to downsize the engines without affecting the output (power) of engines. Utilization of such technologies is anticipated to restrain the growth of the global market. Rapid industrialization resulting in growth of the global automotive sector is expected to provide lucrative opportunities for the growth of the global market. High wear and tear of engine components due to rise in the operating life of vehicles is expected to provide growth opportunities for the global automotive piston market.

Key Benefits for Automotive Piston Market:

- This study presents an analytical depiction of the global automotive piston market along with the current trends and future estimations to depict the imminent investment pockets.
- The overall market potential is determined to understand the profitable trends to gain a strong foothold.
- The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.
- Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.
- The report includes the market share and trends of the key players in the automotive piston market.

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