+44 20 8123 2220
info@marketpublishers.com

Automotive Piston Pin Market by Material (Steel, Aluminium, Titanium), Coating Type (DLC (Diamond-Like Carbon) Coating, PVD (Physical Vapor Deposition)) Coating, Dry Film Lubricants, Thermal Coating/Thermal Barrier Coating, Oil Shedding, Powder Coating, and Others), Vehicle Type (Passenger Car, LCV, HCV, and Others), Fuel Type (Gasoline, Diesel, Alternative Fuel), Sales Channel (OEM, Aftermarket), and Region 2023-2028

https://marketpublishers.com/r/AD477818D147EN.html
Date: March 2023
Pages: 147
Price: US$ 2,499.00 (Single User License)
ID: AD477818D147EN

Abstracts

Market Overview:

The global automotive piston pin market size reached US$ 282.9 Million in 2022. Looking forward, IMARC Group expects the market to reach US$ 357.1 Billion by 2028, exhibiting a growth rate (CAGR) of 3.66% during 2023-2028. The growing production of various automobile products, the lack of suitable infrastructure and various shortcomings of electric vehicles compared to ICE vehicles, and the rising adoption of composite materials to minimize the weight of the piston pins and enhance durability represent some of the key factors driving the market.

An automotive piston pin, also known as the gudgeon pin, is a small, metal component that helps to connect the piston and crankshaft in a piston engine. It is typically made of steel and has a round, cylindrical shape. In internal combustion engines, piston pins connect the piston to the connecting rod, which functions as an auxiliary unit to support the piston's movement. The pins are designed to handle all the stresses and wear involved during operation as well as the loading stress. The most accepted materials for

the manufacturing of automotive piston pins are steel, titanium, and aluminium. In addition to oil shedding, thermal coating, and powder coating, different coatings improve piston pin wear resistance. Compared to the steel piston system, the aluminium piston system is lighter, but steel pistons provide a better support for more demanding systems.

Automotive Piston Pin Market Trends:

The global market is primarily driven by the expanding production of various automobile products, particularly the ICE vehicles. This can be attributed to the increasing sales of ICE vehicles which is leading to significant production volumes. In line with this, the lack of suitable infrastructure and various shortcomings of electric vehicles compared to ICE vehicles such as short-range and high initial cost is driving the demand for ICE vehicles, which, in turn, is propelling the market growth. Moreover, continual technological advancements in the development of effective cooling methods in piston technology are also creating lucrative growth opportunities in the market. Besides this, numerous product innovations, such as the rising adoption of composite materials to minimize the weight of the piston pins, enhance durability and withstand loading stresses, are fueling the market. The market is further driven by the presence of well-established aftermarket and the increasing number of OEMs and Tier I suppliers on the global level. However, stringent emission norms resulting in an augmenting demand for battery-operated vehicles is acting as a major factor that is hindering the market growth. On the contrary, the emergence of engines that use renewable oil and gas resources, such as CNG, LPG and ethanol, as well as the development of hybrid vehicles with traditional piston-cylinder assembly are creating a positive outlook for the market. Some of the other factors contributing to the market include the escalating demand for passenger cars, extensive research and development (R&D) activities in the metallurgy and material science sector, inflating disposable income levels, and rapid urbanization.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive piston pin market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on material, coating type, vehicle type, fuel type, and sales channel.

Material Insights:

Steel

+44 20 8123 2220
info@marketpublishers.com

Aluminium
Titanium

The report has provided a detailed breakup and analysis of the automotive piston pin market based on the material. This includes steel, aluminium, and titanium. According to the report, aluminium represented the largest segment.

Coating Type Insights:

DLC (Diamond-Like Carbon) Coating
PVD (Physical Vapor Deposition)) Coating
Dry Film Lubricants
Thermal Coating/Thermal Barrier Coating
Oil Shedding
Powder Coating
Others

The report has provided a detailed breakup and analysis of the automotive piston pin market based on the coating type. This includes DLC (Diamond-Like Carbon) coating, PVD (Physical Vapor Deposition)) coating, dry film lubricants, thermal coating/thermal barrier coating, oil shedding, powder coating and others.

Vehicle Type Insights:

Passenger Car
LCV
HCV
Others

The report has provided a detailed breakup and analysis of the automotive piston pin market based on the vehicle type. This includes passenger car, LCV, HCV, and others. According to the report, passenger car represented the largest segment.

Fuel Type Insights:

Gasoline

Diesel
Alternative Fuel

The report has provided a detailed breakup and analysis of the automotive piston pin market based on the fuel type. This includes gasoline, diesel, and alternative fuel. According to the report, gasoline represented the largest segment.

Sales Channel Insights:

OEM
Aftermarket

A detailed breakup and analysis of the automotive piston pin market based on the sales channel has also been provided in the report. This includes OEM and aftermarket. According to the report, OEM accounted for the largest market share.

Regional Insights:

North America

United States
Canada

Asia Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Europe

Germany
France

United Kingdom
Italy
Spain
Russia
Others

Latin America

Brazil
Mexico
Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Asia Pacific was the largest market for automotive piston pin. Some of the factors driving the Asia Pacific automotive piston pin market include the escalating demand for passenger cars, presence of well-established aftermarket, the increasing number of OEMs and Tier I suppliers, continual technological advancements, etc.

Competitive Landscape

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive piston pin market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Aisin Corporation, Art-Serina Piston Co. Ltd., Burgess-Norton Mfg. Co. Inc. (Amsted Industries Incorporated), Elgin Industries Inc., Excel Industries Rajkot, JE Pistons (Race Winning Brands Inc.), MAHLE GmbH (MAHLE-STIFTUNG GmbH), Ming Shun Industrial Co. Ltd., Rheinmetall AG, Ross Racing Pistons, Shriram Pistons & Rings Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global automotive piston pin market performed so far and how will it

+44 20 8123 2220
info@marketpublishers.com

perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive piston pin market?

What are the key regional markets?

Which countries represent the most attractive automotive piston pin markets?

What is the breakup of the market based on the material?

What is the breakup of the market based on the coating type?

What is the breakup of the market based on the vehicle type?

What is the breakup of the market based on the fuel type?

What is the breakup of the market based on the sales channel?

What is the competitive structure of the global automotive piston pin market?

Who are the key players/companies in the global automotive piston pin market?

Contents

7 MARKET BREAKUP BY COATING TYPE

8 MARKET BREAKUP BY VEHICLE TYPE

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Automotive Piston Pin Market by Material (Steel, Aluminium, Titanium), Coating Type (DLC (Diamond-Like Carbon) Coating, PVD (Physical Vapor Deposition)) Coating, Dry Film Lubricants, Thermal Coating/Thermal Barrier Coating, Oil Shedding, Powder Coating, and Others), Vehicle Type (Passenger Car, LCV, HCV, and Others), Fuel Type (Gasoline, Diesel, Alternative Fuel), Sales Channel (OEM, Aftermarket), and Region 2023-2028

Product link: https://marketpublishers.com/r/AD477818D147EN.html

Price: US$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/AD477818D147EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**All fields are required

Custumer signature ________________________________

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970