

Automotive Piston Pin Market by Vehicle Type (Passenger Car, LCV, HCV, and Agricultural), Fuel (Diesel, Gasoline, and Alternative Fuel), Material (Steel and Aluminum & Titanium), Coating Type, Sales Channel, and Region - Forecast to 2025

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Abstracts

The global piston pin market size is projected to reach USD 314 million by 2025, from an estimated USD 259 million in 2020, at a CAGR of 4.0%. Factors such as significant demand for high-performance vehicles with large engine options, and growing trend of CNG, LNG, hybrid, and plug-in hybrid vehicles will help the market to grow during the forecast.

Though according to industry experts, electric vehicles are the future of the automotive industry, ICE vehicles are still in focus with significant production and sales, especially in developing countries such as India and the majority of the Middle East & African countries. Also, OEMs and Tier I suppliers have been focusing on designing and developing long-lasting piston pins that can sustain or withstand all the loading or stresses applied as well as the wear and tear involved during engine operations. Thus, advancements in metallurgy and material science fields might help the piston pin market.

Apart from electric vehicle adoption, another major factor that might impact the piston pin market is the growing trend of engine downsizing. To reduce CO2 emissions, governments in several countries have imposed stringent emission norms. This has resulted in engine downsizing, with the market witnessing a shift from 8- and 6-cylinder engines to 4-cylinder engines. For instance, most of the small passenger cars in India are now available with 3-cylinder engines. This is expected to impact the growth of the piston pin market as compared to historical trends.

COVID-19 pandemic is expected to have a severe impact on the piston pin market. Both the production and sales of new vehicles have come to a halt across the globe as the whole ecosystem has been disrupted. Due to the COVID-19 pandemic, many countries had imposed a complete lockdown of more than two months, which, in turn, has impacted vehicle production. Manufacturing units around the world were shut down, and vehicle sales have taken a huge hit. Thus, the production suspension during the outbreak and lower demand post the pandemic might have an unprecedented impact on piston pin providers.

According to the China Association of Automobile Manufacturers, a decline of ~33% in the production of passenger cars in China was observed in the first quarter of 2020. Europe has observed production losses at around two million vehicles. The piston pin market is estimated to observe a decline post-COVID-19 due to the impact on vehicle production. Post the pandemic, the demand for new vehicles might decrease, as economies will recover slowly. However, a steady recovery post-2020 in vehicle production will support the growth of this market in the coming years.

“The steel segment is expected to be the largest material segment in the forecast.”

Piston pins are usually made of steel alloys (carburized steel), along with the addition of chromium, manganese, and nickel, for the necessary structure to withstand the stress and temperature. Majority of the piston pin manufacturers have been using steel as the primary material in producing piston pins for all types of vehicles. Also, the fact that titanium is more expensive than steel is a key factor in the growth of the steel segment in the piston pin market. The steel alloy piston pins can be made stronger or more capable through heat treatments and addition of other materials.

“DLC segment is expected to be the largest coating segment during the forecast period.”

Majority of the piston pin manufacturers have been using DLC as it provides excellent surface hardness and strength during high loads and stresses. DLC coating can be used over steel as well as titanium piston pins. Apart from this, DLC coating improves lubricity as well. The growth of the segment can be attributed to the large production volumes of ICE passenger vehicles. Most of these vehicles use DLC coated piston pins.

“LCV segment is expected to be the fastest-growing vehicle type segment in the forecast period.”

As per MarketsandMarkets analysis of vehicle production statistics till 2019, LCV production in Europe increased by 5% between 2018 and 2019, accounting for 2.5 million units. In North America, LCV production increased by 0.2% between 2018 and 2019, accounting for 4.7 million units. North America is expected to hold the largest share of the light commercial vehicle segment in the piston pin market. The primary reason being the popularity of pickup trucks in the region from OEMs such as Ford and General Motors. Most of these powerful pickup trucks are available with multiple engine options such as 4-cylinders, V6, and V8. For instance, the popular pickup truck, Ford F150, is available with V6 as well as V8 engine options.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in this market.

By Company Type: Tier I - 70%, Tier II - 10%, and OEMs - 20%

By Designation: C Level - 40%, Director Level - 45%, and Others - 15%

By Region: North America - 30%, Europe - 40%, Asia Pacific - 20%, and RoW – 10%

The piston pin market comprises major companies such as Burgess Norton (US), Tenneco (US), MAHLE (Germany), Art Metal (Japan), and Rheinmetall Corporation (Germany).

Research Coverage:

The study covers the piston pin market size and future growth potential across different segments such as by vehicle type, fuel type, material, coating, sales channel, and region. The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants in this market with information on the closest approximations of revenue numbers for the overall piston pin

market and its subsegments.

This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.

The report also helps stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 OBJECTIVES

1.2 PRODUCT DEFINITION

1.2.1 INCLUSIONS & EXCLUSIONS

TABLE 1 INCLUSIONS & EXCLUSIONS: AUTOMOTIVE PISTON PIN MARKET

1.3 MARKET SCOPE

FIGURE 1 AUTOMOTIVE PISTON PIN MARKET: MARKET SEGMENTATION

1.3.1 YEARS CONSIDERED FOR THE STUDY

1.4 LIMITATIONS

1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH DESIGN

FIGURE 3 RESEARCH METHODOLOGY MODEL

2.1.1 SECONDARY DATA

2.1.1.1 Key secondary sources for vehicle production

2.1.1.2 Key secondary sources for market sizing

2.1.1.3 Data from secondary sources

2.1.2 PRIMARY DATA

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, & REGION

2.1.2.1 Sampling techniques & data collection methods

2.1.2.2 Primary participants

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 5 BOTTOM-UP APPROACH - AUTOMOTIVE PISTON PIN MARKET, BY REGION, VEHICLE TYPE

2.2.2 TOP-DOWN APPROACH

FIGURE 6 TOP-DOWN APPROACH - AUTOMOTIVE PISTON PIN MARKET, BY MATERIAL TYPE

2.2.3 AUTOMOTIVE PISTON PIN MARKET: RESEARCH METHODOLOGY ILLUSTRATION OF COMPANY-BASED REVENUE ESTIMATION

2.3 MARKET BREAKDOWN & DATA TRIANGULATION

2.4 ASSUMPTIONS

TABLE 2 ASSUMPTIONS

3 EXECUTIVE SUMMARY

FIGURE 7 PISTON PIN MARKET: MARKET DYNAMICS

FIGURE 8 PISTON PIN MARKET, BY REGION, 2020–2025

FIGURE 9 PISTON PIN MARKET, BY VEHICLE TYPE, 2020 VS. 2025

FIGURE 10 COVID-19 IMPACT ON PISTON PIN MARKET, 2018–2025

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE PISTON PIN MARKET

FIGURE 11 SIGNIFICANT PRODUCTION VOLUMES OF ICE VEHICLES IN ASIA PACIFIC TO DRIVE THE MARKET

4.2 PISTON PIN MARKET GROWTH RATE, BY REGION

FIGURE 12 ASIA PACIFIC IS PROJECTED TO BE THE LARGEST MARKET

4.3 PISTON PIN MARKET, BY VEHICLE TYPE

FIGURE 13 PASSENGER CAR SEGMENT TO BE THE LARGEST, 2020 VS. 2030 (USD THOUSAND)

4.4 PISTON PIN MARKET, BY SALES CHANNEL

FIGURE 14 OEM SEGMENT EXPECTED TO BE THE LARGEST, 2020 VS. 2025 (USD THOUSAND)

4.5 PISTON PIN MARKET, BY FUEL TYPE

FIGURE 15 GASOLINE SEGMENT PROJECTED TO BE THE LARGEST, 2020 VS. 2025 (THOUSAND UNITS)

4.6 PISTON PIN MARKET, BY MATERIAL TYPE

FIGURE 16 STEEL SEGMENT PROJECTED TO BE THE LARGEST, 2020 VS. 2025 (THOUSAND UNITS)

4.7 PISTON PIN MARKET, BY COATING TYPE

FIGURE 17 DLC SEGMENT PROJECTED TO BE THE LARGEST, 2020 VS. 2025 (THOUSAND UNITS)

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 PISTON PIN MARKET: MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Substantial production and sales volumes of ICE vehicles

TABLE 3 GLOBAL AUTOMOTIVE PRODUCTION DATA (UNITS)

5.2.1.2 Significant demand for high performance & premium vehicles is compelling OEMs to incorporate bigger engines in vehicles

TABLE 4 SOME EXAMPLES OF BRANDS OFFERING VARIETY OF ENGINE OPTIONS**5.2.2 RESTRAINTS**

5.2.2.1 Much anticipated growth of electric vehicles

FIGURE 19 GLOBAL BEV SALES, 2017–2019, (THOUSAND UNITS)

5.2.2.2 Growing trend of engine downsizing

FIGURE 20 ENGINE DOWNSIZING TREND, BY CYLINDER TYPE, 2012–2020**5.2.3 OPPORTUNITIES**

5.2.3.1 Pistons pins will be required in CNG, LPG, hybrid, and plug-in hybrid vehicles

TABLE 5 TOP 5 MOST NGVS (CNG+LNG) SOLD IN EUROPE**TABLE 6 COMPRESSED NATURAL GAS (CNG) VEHICLE SALES, BY REGION, 2018–2027 (THOUSAND UNITS)**

5.2.3.2 Use of varied materials and compositions

5.2.4 CHALLENGES

5.2.4.1 Designing long-lasting & lightweight piston pins and dealing with complex lubrication & maintenance

5.2.5 IMPACT OF MARKET DYNAMICS**TABLE 7 PISTON PIN MARKET: IMPACT OF MARKET DYNAMICS****5.3 PORTER'S FIVE FORCES****FIGURE 21 PORTER'S FIVE FORCES: PISTON PIN MARKET****5.4 AVERAGE SELLING PRICE TREND****TABLE 8 AUTOMOTIVE PISTON PINS: PRICE RANGE ANALYSIS, 2019 (USD)****5.5 SUPPLY CHAIN ANALYSIS****FIGURE 22 PISTON PIN MARKET: SUPPLY CHAIN ANALYSIS****5.6 ECOSYSTEM****FIGURE 23 ECOSYSTEM: PISTON PIN MARKET****5.7 TECHNOLOGY ANALYSIS****5.7.1 INTRODUCTION****5.7.2 HEATING & QUENCHING****5.7.3 NITRIDING****5.7.4 CARBURIZING****5.8 PATENT ANALYSIS****TABLE 9 IMPORTANT PATENT REGISTRATIONS RELATED TO PISTON PIN MARKET****5.9 CASE STUDY****5.10 TRADE DATA (VEHICLE EXPORT AND IMPORT DATA OF KEY MARKETS)**

5.10.1 EUROPE (GERMANY AND SWEDEN)

TABLE 10 TOTAL IMPORT/EXPORT OF VEHICLES IN EUROPE, UNITS

5.10.2 JAPAN

TABLE 11 TOTAL IMPORT/EXPORT OF VEHICLES IN JAPAN, UNITS

5.10.3 CHINA

TABLE 12 TOTAL IMPORT/EXPORT OF VEHICLES IN CHINA, UNITS

5.10.4 US

TABLE 13 TOTAL IMPORT/EXPORT OF VEHICLES IN US, UNITS

5.11 REGULATORY OVERVIEW

5.11.1 CANADA

TABLE 14 EXISTING SUBSIDIES AND TAX STRUCTURE, CANADA

5.11.2 CHINA

TABLE 15 EXISTING SUBSIDIES AND TAX STRUCTURE, CHINA

5.11.3 FRANCE

TABLE 16 EXISTING SUBSIDIES AND TAX STRUCTURE, FRANCE

5.11.4 AUSTRIA

TABLE 17 EXISTING SUBSIDIES AND TAX STRUCTURE, AUSTRIA

5.11.5 GERMANY

TABLE 18 EXISTING SUBSIDIES AND TAX STRUCTURE, GERMANY

5.11.6 SPAIN

TABLE 19 EXISTING SUBSIDIES AND TAX STRUCTURE, SPAIN

5.12 INTRODUCTION TO COVID-19

5.13 COVID-19 HEALTH ASSESSMENT

FIGURE 24 COVID-19: THE GLOBAL PROPAGATION

FIGURE 25 COVID-19 PROPAGATION: SELECT COUNTRIES

5.14 COVID-19 ECONOMIC ASSESSMENT

FIGURE 26 REVISED GROSS DOMESTIC PRODUCT FORECASTS FOR SELECT G20 COUNTRIES IN 2020

5.14.1 COVID-19 ECONOMIC IMPACT—SCENARIO ASSESSMENT

FIGURE 27 CRITERIA IMPACTING THE GLOBAL ECONOMY

FIGURE 28 SCENARIOS IN TERMS OF RECOVERY OF THE GLOBAL ECONOMY

5.14.2 IMPACT ON PISTON PIN MARKET

5.15 PISTON PIN MARKET, SCENARIOS (2020–2025)

FIGURE 29 PISTON PIN MARKET – FUTURE TRENDS & SCENARIO, 2020–2025 (USD THOUSAND)

5.15.1 MOST LIKELY SCENARIO

TABLE 20 MOST LIKELY SCENARIO, BY REGION, 2020–2025 (USD THOUSAND)

5.15.2 OPTIMISTIC SCENARIO

TABLE 21 OPTIMISTIC SCENARIO, BY REGION, 2020–2025 (USD THOUSAND)

5.15.3 PESSIMISTIC SCENARIO

TABLE 22 PESSIMISTIC SCENARIO, BY REGION, 2020–2025 (USD THOUSAND)

6 PISTON PIN MARKET, BY VEHICLE TYPE

6.1 INTRODUCTION

FIGURE 30 PISTON PIN MARKET, BY VEHICLE TYPE, 2020 VS. 2025

TABLE 23 PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 24 PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

6.2 OPERATIONAL DATA

TABLE 25 GLOBAL PASSENGER CAR PRODUCTION DATA, 2016-2019, MILLION UNITS

6.2.1 ASSUMPTIONS

6.2.2 RESEARCH METHODOLOGY

6.3 PASSENGER CAR

TABLE 26 PASSENGER CAR: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 27 PASSENGER CAR: PISTON PIN MARKET, BY REGION, 2018–2025 (USD THOUSAND)

6.4 LIGHT COMMERCIAL VEHICLE (LCV)

TABLE 28 LIGHT COMMERCIAL VEHICLE: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 29 LIGHT COMMERCIAL VEHICLE: PISTON PIN MARKET, BY REGION, 2018–2025 (USD THOUSAND)

6.5 HEAVY COMMERCIAL VEHICLE (HCV)

TABLE 30 HEAVY COMMERCIAL VEHICLE: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 31 HEAVY COMMERCIAL VEHICLE: PISTON PIN MARKET, BY REGION, 2018–2025 (USD THOUSAND)

6.6 AGRICULTURAL EQUIPMENT (TRACTOR)

TABLE 32 AGRICULTURAL EQUIPMENT (TRACTOR): PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 33 AGRICULTURAL EQUIPMENT (TRACTOR): PISTON PIN MARKET, BY REGION, 2018–2025 (USD THOUSAND)

6.7 KEY INDUSTRY INSIGHTS

7 PISTON PIN MARKET, BY FUEL TYPE

7.1 INTRODUCTION

FIGURE 31 PISTON PIN MARKET, BY FUEL TYPE, 2020 VS. 2025

TABLE 34 PISTON PIN MARKET, BY FUEL TYPE, 2018–2025 (THOUSAND UNITS)

7.2 OPERATIONAL DATA

FIGURE 32 MARKET SHARE OF GASOLINE VS. DIESEL PASSENGER CARS IN EUROPE, 2017–2020 (%)

7.2.1 ASSUMPTIONS

7.2.2 RESEARCH METHODOLOGY

7.3 DIESEL

TABLE 35 DIESEL: PISTON PINS MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

7.4 GASOLINE

TABLE 36 GASOLINE: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

7.5 ALTERNATIVE FUEL

TABLE 37 ALTERNATIVE FUEL: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

7.6 KEY INDUSTRY INSIGHTS

8 PISTON PIN MARKET, BY MATERIAL TYPE

8.1 INTRODUCTION

FIGURE 33 PISTON PIN MARKET, BY MATERIAL, 2020 VS. 2025

TABLE 38 PISTON PIN MARKET, BY MATERIAL TYPE, 2018–2025 (THOUSAND UNITS)

8.2 OPERATIONAL DATA

TABLE 39 ASIA PACIFIC PASSENGER CAR PRODUCTION DATA, 2016-2019, THOUSAND UNITS

8.2.1 ASSUMPTIONS

8.2.2 RESEARCH METHODOLOGY

8.3 ALUMINUM & TITANIUM

TABLE 40 ALUMINUM & TITANIUM: PISTON PINS MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

8.4 STEEL

TABLE 41 STEEL: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

8.5 KEY INDUSTRY INSIGHTS

9 PISTON PIN MARKET, BY COATING TYPE

9.1 INTRODUCTION

TABLE 42 PERFORMANCE OF PINS WITH DIFFERENT COATINGS WITH SN 50 BASE OIL

TABLE 43 PERFORMANCE OF PINS WITH DIFFERENT COATINGS WITH 1950N OF LOAD AND 20W50 ENGINE OIL

FIGURE 34 PISTON PIN MARKET, BY COATING TYPE, 2020 VS. 2025

TABLE 44 PISTON PIN MARKET, BY COATING TYPE, 2018–2025 (THOUSAND UNITS)

9.2 OPERATIONAL DATA

TABLE 45 EUROPE PASSENGER CAR PRODUCTION DATA, 2016-2019, THOUSAND UNITS

9.2.1 ASSUMPTIONS

9.2.2 RESEARCH METHODOLOGY

9.3 CRN

TABLE 46 CRN: PISTON PINS MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

9.4 DLC

TABLE 47 DLC: PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

9.5 KEY INDUSTRY INSIGHTS

10 PISTON PIN MARKET, BY SALES CHANNEL

10.1 INTRODUCTION

FIGURE 35 PISTON PIN MARKET, BY SALES CHANNEL, 2020 VS. 2025

TABLE 48 PISTON PIN MARKET, BY SALES CHANNEL, 2018–2025 (THOUSAND UNITS)

TABLE 49 PISTON PIN MARKET, BY SALES CHANNEL, 2018–2025 (USD THOUSAND)

10.2 OPERATIONAL DATA

TABLE 50 GLOBAL LIGHT COMMERCIAL VEHICLE PRODUCTION DATA, 2017-2019, THOUSAND UNITS

10.2.1 ASSUMPTIONS

10.2.2 RESEARCH METHODOLOGY

10.3 OEM

TABLE 51 OEM: PISTON PINS MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 52 OEM: PISTON PINS MARKET, BY REGION, 2018–2025 (USD THOUSAND)

10.4 AFTERMARKET

TABLE 53 AFTERMARKET: PISTON PIN MARKET, BY REGION, 2018–2025
(THOUSAND UNITS)

TABLE 54 AFTERMARKET: PISTON PIN MARKET, BY REGION, 2018–2025 (USD
THOUSAND)

10.5 KEY INDUSTRY INSIGHTS

11 PISTON PIN MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 36 PISTON PIN MARKET, BY REGION, 2020 VS. 2025

TABLE 55 PISTON PIN MARKET, BY REGION, 2018–2025 (THOUSAND UNITS)

TABLE 56 PISTON PIN MARKET, BY REGION, 2018–2025 (USD THOUSAND)

11.2 ASIA PACIFIC

11.2.1 HIGH PRODUCTION VOLUMES OF ICE VEHICLES TO DRIVE THE MARKET

11.2.2 ASIA PACIFIC: VEHICLE PRODUCTION

TABLE 57 ASIA PACIFIC: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

FIGURE 37 ASIA PACIFIC: PISTON PIN MARKET SNAPSHOT

TABLE 58 ASIA PACIFIC: PISTON PIN MARKET, BY COUNTRY, 2018–2025
(THOUSAND UNITS)

TABLE 59 ASIA PACIFIC: PISTON PIN MARKET, BY COUNTRY, 2018–2025 (USD
THOUSAND)

11.2.3 CHINA

11.2.3.1 China: Vehicle Production Data

TABLE 60 CHINA: VEHICLE PRODUCTION DATA (THOUSAND UNITS)

11.2.3.2 China: Vehicle Production Comparison

TABLE 61 CHINA: VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS.
2020

11.2.3.3 China: Vehicle Sales Comparison

TABLE 62 CHINA: VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.3.4 Highest production of vehicles in the country will drive the market

TABLE 63 CHINA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 64 CHINA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.2.4 JAPAN

11.2.4.1 Japan: Vehicle Production Data

TABLE 65 JAPAN: VEHICLE PRODUCTION DATA (THOUSAND UNITS)

11.2.4.2 Japan: Decline in vehicle production due to COVID-19

TABLE 66 JAPAN: VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.4.3 Japan: Decline in vehicle sales due to COVID-19

TABLE 67 JAPAN: VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.4.4 Presence of leading passenger car OEMs will drive the market

TABLE 68 JAPAN: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 69 JAPAN: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.2.5 SOUTH KOREA

11.2.5.1 South Korea: Vehicle Production Data

TABLE 70 SOUTH KOREA: VEHICLE PRODUCTION DATA (THOUSAND UNITS)

11.2.5.2 South Korea: Decline in vehicle production due to COVID-19

TABLE 71 SOUTH KOREA: VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.5.3 South Korea: Vehicle sales after Covid-19

TABLE 72 SOUTH KOREA: VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.5.4 Increasing exports of hybrid models to drive the market in South Korea

TABLE 73 SOUTH KOREA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 74 SOUTH KOREA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.2.6 INDIA

11.2.6.1 India: Vehicle Production Data

TABLE 75 INDIA: VEHICLE PRODUCTION DATA (THOUSAND UNITS)

11.2.6.2 India: Decline in vehicle production due to COVID-19

TABLE 76 INDIA: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.6.3 India: Decline in vehicle sales due to COVID-19

TABLE 77 INDIA: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.6.4 Increase in demand for gasoline vehicles to drive the market

TABLE 78 INDIA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 79 INDIA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.2.7 REST OF ASIA PACIFIC

11.2.7.1 Rest of Asia Pacific: Vehicle Production Data

TABLE 80 REST OF ASIA PACIFIC: VEHICLE PRODUCTION DATA (THOUSAND UNITS)

11.2.7.2 Thailand vehicle production data

TABLE 81 THAILAND VEHICLE PRODUCTION (THOUSAND UNITS)

11.2.7.3 Thailand: Decline in vehicle production due to COVID-19

TABLE 82 THAILAND: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.7.4 Thailand: Decline in vehicle sales due to COVID-19

TABLE 83 THAILAND: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.2.7.5 Increasing vehicle production will drive the market

TABLE 84 REST OF ASIA PACIFIC: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 85 REST OF ASIA PACIFIC: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.3 NORTH AMERICA

11.3.1 NORTH AMERICA: VEHICLE PRODUCTION

TABLE 86 NORTH AMERICA: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

FIGURE 38 NORTH AMERICA: PISTON PIN MARKET SNAPSHOT

TABLE 87 NORTH AMERICA: PISTON PIN MARKET, BY COUNTRY, 2018–2025 (THOUSAND UNITS)

TABLE 88 NORTH AMERICA: PISTON PIN MARKET, BY COUNTRY, 2018–2025 (USD THOUSAND)

11.3.2 US

11.3.2.1 US: Vehicle production Data

TABLE 89 US: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.3.2.2 US: Decline in vehicle production due to COVID-19

TABLE 90 US: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.3.2.3 US: Decline in vehicle sales due to COVID-19

TABLE 91 US: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.3.2.4 Increase in light commercial vehicle production to drive the market

TABLE 92 US: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 93 US: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.3.3 CANADA

11.3.3.1 Canada: Vehicle Production Data

TABLE 94 CANADA: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.3.3.2 Canada: Decline in vehicle production due to COVID-19

TABLE 95 CANADA: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS),
2019 VS. 2020

11.3.3.3 Canada: Decline in vehicle sales due to COVID-19

TABLE 96 CANADA: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS.
2020

11.3.3.4 Rising focus toward gasoline engines to drive the market

TABLE 97 CANADA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 98 CANADA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.3.4 MEXICO

11.3.4.1 Mexico: Vehicle Production Data

TABLE 99 MEXICO: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.3.4.2 Mexico: Decline in vehicle production due to COVID-19

TABLE 100 MEXICO: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS),
2019 VS. 2020

11.3.4.3 Mexico: Decline in vehicle sales due to COVID-19

TABLE 101 MEXICO: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS.
2020

11.3.4.4 Growing demand for HCV to drive the Mexican piston pin market

TABLE 102 MEXICO: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 103 MEXICO: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.4 EUROPE

11.4.1 EUROPE: VEHICLE PRODUCTION DATA

TABLE 104 EUROPE: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

FIGURE 39 EUROPE: PISTON PIN MARKET, 2020 VS. 2025 (USD THOUSAND)

TABLE 105 EUROPE: PISTON PIN MARKET, BY COUNTRY, 2018–2025
(THOUSAND UNITS)

TABLE 106 EUROPE: PISTON PIN MARKET, BY COUNTRY, 2018–2025 (USD
THOUSAND)

11.4.2 GERMANY

11.4.2.1 Germany: Vehicle production

TABLE 107 GERMANY: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.4.2.2 Germany: Decline in vehicle production due to COVID-19

TABLE 108 GERMANY: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS),
2019 VS. 2020

11.4.2.3 Germany: Decline in vehicle sales due to COVID-19

TABLE 109 GERMANY: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019
VS. 2020

11.4.2.4 Presence of major players to drive the German market

TABLE 110 GERMANY: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 111 GERMANY: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.4.3 FRANCE

11.4.3.1 France: Vehicle Production Data

TABLE 112 FRANCE: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.4.3.2 France: Decline in vehicle production due to COVID-19

TABLE 113 FRANCE: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS),
2019 VS. 2020

11.4.3.3 France: Decline in vehicle sales due to COVID-19

TABLE 114 FRANCE: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS.
2020

11.4.3.4 Increase in production of LCVs will drive the market

TABLE 115 FRANCE: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 116 FRANCE: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.4.4 UK

11.4.4.1 UK: Vehicle production

TABLE 117 UK: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.4.4.2 UK: Decline in vehicle production due to COVID-19

TABLE 118 UK: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS.
2020

11.4.4.3 UK: Decline in vehicle sales due to COVID-19

TABLE 119 UK: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.4.4.4 Light commercial vehicle segment will witness growth in the UK market

TABLE 120 UK: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 121 UK: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.4.5 SPAIN

11.4.5.1 Spain: Vehicle production

TABLE 122 SPAIN: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.4.5.2 Spain: Decline in vehicle production due to COVID-19

TABLE 123 SPAIN: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.4.5.3 Spain: Decline in vehicle sales due to COVID-19

TABLE 124 SPAIN: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.4.5.4 Light commercial vehicle segment will drive the market

TABLE 125 SPAIN: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 126 SPAIN: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.4.6 ITALY

11.4.6.1 Italy: Vehicle production

TABLE 127 ITALY: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.4.6.2 Italy: Decline in vehicle production due to COVID-19

TABLE 128 ITALY: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS), 2019 VS. 2020

11.4.6.3 Italy: Decline in vehicle sales due to COVID-19

TABLE 129 ITALY: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS. 2020

11.4.6.4 Increase in LCV production will drive the market

TABLE 130 ITALY: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 131 ITALY: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.4.7 RUSSIA

11.4.7.1 Russia: Vehicle production

TABLE 132 RUSSIA: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.4.7.2 Growing passenger car and HCV segment will drive the market

TABLE 133 RUSSIA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 134 RUSSIA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.4.8 REST OF EUROPE

11.4.8.1 Rest of Europe: Vehicle production

TABLE 135 REST OF EUROPE: VEHICLE PRODUCTION, BY VEHICLE TYPE,
2016–2019 (THOUSAND UNITS)

11.4.8.2 Increase in passenger car production will drive the market

TABLE 136 REST OF EUROPE: PISTON PIN MARKET, BY VEHICLE TYPE,
2018–2025 (THOUSAND UNITS)

TABLE 137 REST OF EUROPE: PISTON PIN MARKET, BY VEHICLE TYPE,
2018–2025 (USD THOUSAND)

11.5 REST OF THE WORLD

11.5.1 REST OF THE WORLD: VEHICLE PRODUCTION

TABLE 138 REST OF THE WORLD: VEHICLE PRODUCTION, BY VEHICLE TYPE,
2016–2019 (THOUSAND UNITS)

FIGURE 40 REST OF THE WORLD: PISTON PIN MARKET, 2020 VS. 2025 (USD
THOUSAND)

TABLE 139 REST OF THE WORLD: PISTON PIN MARKET, BY COUNTRY,
2018–2025 (THOUSAND UNITS)

TABLE 140 REST OF THE WORLD: PISTON PIN MARKET, BY COUNTRY,
2018–2025 (USD THOUSAND)

11.5.2 BRAZIL

11.5.2.1 Brazil: Vehicle Production Data

TABLE 141 BRAZIL: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019
(THOUSAND UNITS)

11.5.2.2 Brazil: Decline in vehicle production due to COVID-19

TABLE 142 BRAZIL: Q1 VEHICLE PRODUCTION DATA COMPARISON (UNITS),
2019 VS. 2020

11.5.2.3 Brazil: Decline in vehicle sales due to COVID-19

TABLE 143 BRAZIL: Q1 VEHICLE SALES DATA COMPARISON (UNITS), 2019 VS.
2020

11.5.2.4 Growing HCV segment will drive the market

TABLE 144 BRAZIL: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025
(THOUSAND UNITS)

TABLE 145 BRAZIL: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD
THOUSAND)

11.5.3 SOUTH AFRICA

11.5.3.1 South Africa: Vehicle Production Data

TABLE 146 SOUTH AFRICA: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.5.3.2 Overall growth in the automotive industry will drive the market

TABLE 147 SOUTH AFRICA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 148 SOUTH AFRICA: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

11.5.4 OTHERS

11.5.4.1 Vehicle Production in other countries

TABLE 149 OTHERS: VEHICLE PRODUCTION, BY VEHICLE TYPE, 2016–2019 (THOUSAND UNITS)

11.5.4.2 Positive initiatives toward emission control will drive the market for gasoline vehicles

TABLE 150 OTHERS: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (THOUSAND UNITS)

TABLE 151 OTHERS: PISTON PIN MARKET, BY VEHICLE TYPE, 2018–2025 (USD THOUSAND)

12 COMPETITIVE LANDSCAPE

12.1 MARKET EVALUATION FRAMEWORK

FIGURE 41 MARKET EVALUATION FRAMEWORK

12.2 OVERVIEW

FIGURE 42 KEY DEVELOPMENTS BY LEADING PLAYERS IN THE PISTON PIN MARKET

12.3 MARKET SHARE AND MARKET RANKING ANALYSIS FOR PISTON PIN MARKET

FIGURE 43 MARKET SHARE ANALYSIS

12.4 MARKET RANKING ANALYSIS FOR PISTON PIN MARKET

FIGURE 44 MARKET RANKING ANALYSIS, 2019

12.5 MARKET EVALUATION FRAMEWORK: REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS

FIGURE 45 TOP PUBLIC/LISTED PLAYERS DOMINATING THE PISTON PIN MARKET IN LAST 3 YEARS

12.6 COMPETITIVE SCENARIO

12.6.1 COLLABORATIONS/JOINT VENTURES/SUPPLY CONTRACTS/PARTNERSHIPS/AGREEMENTS

TABLE 152 COLLABORATIONS/JOINT VENTURES/SUPPLY

CONTRACTS/PARTNERSHIPS/ AGREEMENTS, 2017–2020

12.6.2 NEW PRODUCT DEVELOPMENTS

TABLE 153 NEW PRODUCT DEVELOPMENTS, 2017–2020

12.6.3 MERGERS & ACQUISITIONS, 2017–2020

TABLE 154 MERGERS & ACQUISITIONS, 2017–2020

12.6.4 EXPANSIONS, 2017–2020

TABLE 155 EXPANSIONS, 2018S–2020

12.7 COMPETITIVE LEADERSHIP MAPPING FOR PISTON PIN MARKET

12.7.1 STARS

12.7.2 EMERGING LEADERS

12.7.3 PERVASIVE

12.7.4 EMERGING COMPANIES

FIGURE 46 PISTON PIN MARKET: COMPETITIVE LEADERSHIP MAPPING, 2019

12.8 STRENGTH OF PRODUCT PORTFOLIO:

FIGURE 47 PRODUCT PORTFOLIO ANALYSIS OF TOP PLAYERS IN PISTON PIN MARKET

12.9 BUSINESS STRATEGY EXCELLENCE:

FIGURE 48 BUSINESS STRATEGY EXCELLENCE OF TOP PLAYERS IN PISTON PIN MARKET

12.10 WINNERS VS. TAIL-ENDERS

TABLE 156 WINNERS VS. TAIL-ENDERS

13 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

13.1 BURGESS NORTON

FIGURE 49 BURGESS NORTON: SWOT ANALYSIS

13.2 TENNECO

FIGURE 50 TENNECO: COMPANY SNAPSHOT

FIGURE 51 TENNECO: SWOT ANALYSIS

13.3 MAHLE GMBH

FIGURE 52 MAHLE: COMPANY SNAPSHOT

FIGURE 53 MAHLE GMBH: SWOT ANALYSIS

13.4 ART METAL MFG., LTD.

FIGURE 54 ART METAL: SWOT ANALYSIS

13.5 RHEINMETALL AUTOMOTIVE AG

FIGURE 55 RHEINMETALL AUTOMOTIVE AG: COMPANY SNAPSHOT

FIGURE 56 RHEINMETALL AUTOMOTIVE AG: SWOT ANALYSIS

13.6 BOHAI AUTOMOTIVE SYSTEMS

FIGURE 57 BOHAI AUTOMOTIVE SYSTEMS: COMPANY SNAPSHOT

13.7 ROSS RACING PISTONS

13.8 MING SHUN INDUSTRIAL CO., LTD.

13.9 ELGIN INDUSTRIES

13.10 JE PISTONS

13.11 ART-SERINA

13.12 SHRIRAM PISTONS & RINGS LTD.

FIGURE 58 SHRIRAM PISTONS & RINGS: COMPANY SNAPSHOT

13.13 ADDITIONAL COMPANY PROFILES

13.13.1 ASIA PACIFIC

13.13.1.1 Dong Yang Piston

13.13.1.2 Menon Piston

13.13.1.3 Avon Industrial Corporation

13.13.1.4 Prabhat Engineering Corporation

13.13.1.5 SAMKRG Pistons and Rings Limited

13.13.2 EUROPE

13.13.2.1 Capricorn

13.13.2.2 Cosworth

13.13.2.3 Coker Engineering Ltd.

13.13.3 NORTH AMERICA

13.13.3.1 CP Carrillo, Inc.

13.13.3.2 Wiseco

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

14 RECOMMENDATIONS BY MARKET SAND MARKETS

14.1 JAPAN, KOREA, AND INDIA EMERGING AS PROMISING ALTERNATIVES TO CHINA FOR SUPPLY OF AUTOMOTIVE COMPONENTS

14.2 HIGH-PERFORMANCE PASSENGER CARS & LIGHT- AND HEAVY-DUTY VEHICLES CAN BE KEY FOCUS AREA FOR MANUFACTURERS

14.3 CONCLUSION

15 APPENDIX

15.1 KEY INSIGHTS OF INDUSTRY EXPERTS

15.2 DISCUSSION GUIDE

15.3 KNOWLEDGE STORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL

15.4 AVAILABLE CUSTOMIZATIONS

15.5 RELATED REPORTS

15.6 AUTHOR DETAILS

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