

# Automotive Catalytic Converter Market Report by Product (Two-way Oxidation, Three-way Oxidation-reduction, Diesel Oxidation Catalyst), Material (Platinum, Palladium, Rhodium), Vehicle Type (Passenger Cars, Commercial Vehicles), and Region 2024-2032

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## Abstracts

The global automotive catalytic converter market size reached US\$ 14.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 25.2 Billion by 2032, exhibiting a growth rate (CAGR) of 6.2% during 2024-2032. The rising environmental concerns among the masses, the increasing need for reducing carbon emissions across the globe, and the shifting inclination toward electric vehicles (EVs) and internal combustion engine (ICE) vehicles represent some of the key factors driving the market.

An automotive catalytic converter is a crucial component of a vehicle's exhaust system that plays a significant role in reducing harmful emissions and protecting the environment. It is essentially a specialized device designed to convert toxic gases and pollutants produced by the combustion of fuel into less harmful substances before they are released into the atmosphere. Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), and unburned hydrocarbons (HC) are the three main pollutants that a catalytic converter is designed to help transform. The catalytic converter consists of a robust outer shell, typically manufactured of stainless steel, to withstand high temperatures and protect the internal components. Inside, there is a honeycomb-like structure composed of a ceramic or metallic substrate coated with precious metals, such as platinum, palladium, and rhodium. These metals act as catalysts to facilitate the chemical reactions that convert harmful gases into less harmful ones. To ensure efficient operation, the catalytic converter requires a specific temperature range for the chemical reactions to occur

optimally. This temperature is typically achieved within a few minutes of the engine starting once the converter reaches its operating temperature.

#### Automotive Catalytic Converter Market Trends:

Significant growth in the automotive sector majorly drives the global market. Coupled with the implementation of strict emission standards by governments across the globe to reduce air pollution and promote environmental sustainability, this is impelling the adoption of catalytic converters as they aid in reducing harmful emissions. Along with this, the rising awareness about environmental pollution, particularly related to air quality, is driving the demand for automotive catalytic converters across the globe. With the growing focus on sustainability, there is an increasing preference for vehicles that have minimal impact on the environment. This is encouraging the deployment of catalytic converters since they help to reduce harmful emissions, making them an essential component in addressing environmental concerns. In addition, the shifting inclination toward electric vehicles (EVs), and internal combustion engine (ICE) vehicles is also positively influencing the market. Additionally, the introduction of fuel cell vehicles, which also use catalytic converters, is another acting as growth-inducing factor. Furthermore, continual advancements in catalyst formulations, substrate materials, and coating technologies to improve the performance and durability of catalytic converters are creating a positive market outlook.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive catalytic converter market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on product, material, and vehicle type.

#### Product Insights:

Two-way Oxidation

Three-way Oxidation-reduction

Diesel Oxidation Catalyst

The report has provided a detailed breakup and analysis of the automotive catalytic converter market based on the product. This includes two-way oxidation, three-way oxidation-reduction, and diesel oxidation catalyst. According to the report, the three-way oxidation-reduction represented the largest segment.

#### Material Insights:

Platinum  
Palladium  
Rhodium

A detailed breakup and analysis of the automotive catalytic converter market based on the material has also been provided in the report. This includes platinum, palladium, and rhodium. According to the report, rhodium accounted for the largest market share.

Vehicle Type Insights:

Passenger Cars  
Commercial Vehicles

The report has provided a detailed breakup and analysis of the automotive catalytic converter market based on the vehicle type. This includes passenger cars and commercial vehicles. According to the report, the passenger cars represented the largest segment.

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, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe was the largest market for automotive catalytic converter. Some of the factors driving the Europe automotive catalytic converter market included raising awareness about environmental issues, the emerging trend of sustainability, rapid industrialization, etc.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive catalytic converter market. Also, detailed profiles of all major companies have been provided. Some of the companies covered include BASF SE, BENTELER International Aktiengesellschaft, BOSAL Nederland B.V., European Exhaust & Catalyst Ltd, HJS Emission Technology GmbH & Co. KG, Jetex Exhausts Ltd, Sango Co. Ltd., Tenneco Inc., 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 catalytic converter market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive catalytic converter market?

What is the impact of each driver, restraint, and opportunity on the global automotive catalytic converter market?

What are the key regional markets?

Which countries represent the most attractive automotive catalytic converter market?

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

Which is the most attractive product in the automotive catalytic converter market?

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

Which is the most attractive material in the automotive catalytic converter market?

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

Which is the most attractive vehicle type in the automotive catalytic converter market?

What is the competitive structure of the global automotive catalytic converter market?  
Who are the key players/companies in the global automotive catalytic converter market?

## Contents

### 1 PREFACE

### 2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### 3 EXECUTIVE SUMMARY

### 4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

### 5 GLOBAL AUTOMOTIVE CATALYTIC CONVERTER MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### 6 MARKET BREAKUP BY PRODUCT

- 6.1 Two-way Oxidation
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Three-way Oxidation-reduction
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Diesel Oxidation Catalyst

6.3.1 Market Trends

6.3.2 Market Forecast

## **7 MARKET BREAKUP BY MATERIAL**

7.1 Platinum

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Palladium

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Rhodium

7.3.1 Market Trends

7.3.2 Market Forecast

## **8 MARKET BREAKUP BY VEHICLE TYPE**

8.1 Passenger Cars

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Commercial Vehicles

8.2.1 Market Trends

8.2.2 Market Forecast

## **9 MARKET BREAKUP BY REGION**

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

- 9.2.2.2 Market Forecast
- 9.2.3 India
  - 9.2.3.1 Market Trends
  - 9.2.3.2 Market Forecast
- 9.2.4 South Korea
  - 9.2.4.1 Market Trends
  - 9.2.4.2 Market Forecast
- 9.2.5 Australia
  - 9.2.5.1 Market Trends
  - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
  - 9.2.6.1 Market Trends
  - 9.2.6.2 Market Forecast
- 9.2.7 Others
  - 9.2.7.1 Market Trends
  - 9.2.7.2 Market Forecast
- 9.3 Europe
  - 9.3.1 Germany
    - 9.3.1.1 Market Trends
    - 9.3.1.2 Market Forecast
  - 9.3.2 France
    - 9.3.2.1 Market Trends
    - 9.3.2.2 Market Forecast
  - 9.3.3 United Kingdom
    - 9.3.3.1 Market Trends
    - 9.3.3.2 Market Forecast
  - 9.3.4 Italy
    - 9.3.4.1 Market Trends
    - 9.3.4.2 Market Forecast
  - 9.3.5 Spain
    - 9.3.5.1 Market Trends
    - 9.3.5.2 Market Forecast
  - 9.3.6 Russia
    - 9.3.6.1 Market Trends
    - 9.3.6.2 Market Forecast
  - 9.3.7 Others
    - 9.3.7.1 Market Trends
    - 9.3.7.2 Market Forecast
- 9.4 Latin America



#### 9.4.1 Brazil

##### 9.4.1.1 Market Trends

##### 9.4.1.2 Market Forecast

#### 9.4.2 Mexico

##### 9.4.2.1 Market Trends

##### 9.4.2.2 Market Forecast

#### 9.4.3 Others

##### 9.4.3.1 Market Trends

##### 9.4.3.2 Market Forecast

#### 9.5 Middle East and Africa

##### 9.5.1 Market Trends

##### 9.5.2 Market Breakup by Country

##### 9.5.3 Market Forecast

### **10 DRIVERS, RESTRAINTS, AND OPPORTUNITIES**

#### 10.1 Overview

#### 10.2 Drivers

#### 10.3 Restraints

#### 10.4 Opportunities

### **11 VALUE CHAIN ANALYSIS**

### **12 PORTERS FIVE FORCES ANALYSIS**

#### 12.1 Overview

#### 12.2 Bargaining Power of Buyers

#### 12.3 Bargaining Power of Suppliers

#### 12.4 Degree of Competition

#### 12.5 Threat of New Entrants

#### 12.6 Threat of Substitutes

### **13 PRICE ANALYSIS**

### **14 COMPETITIVE LANDSCAPE**

#### 14.1 Market Structure

#### 14.2 Key Players

#### 14.3 Profiles of Key Players

- 14.3.1 BASF SE
  - 14.3.1.1 Company Overview
  - 14.3.1.2 Product Portfolio
  - 14.3.1.3 Financials
  - 14.3.1.4 SWOT Analysis
- 14.3.2 BENTELER International Aktiengesellschaft
  - 14.3.2.1 Company Overview
  - 14.3.2.2 Product Portfolio
- 14.3.3 BOSAL Nederland B.V.
  - 14.3.3.1 Company Overview
  - 14.3.3.2 Product Portfolio
- 14.3.4 European Exhaust & Catalyst Ltd
  - 14.3.4.1 Company Overview
  - 14.3.4.2 Product Portfolio
- 14.3.5 HJS Emission Technology GmbH & Co. KG
  - 14.3.5.1 Company Overview
  - 14.3.5.2 Product Portfolio
- 14.3.6 Jetex Exhausts Ltd
  - 14.3.6.1 Company Overview
  - 14.3.6.2 Product Portfolio
- 14.3.7 Sango Co. Ltd.
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
- 14.3.8 Tenneco Inc.
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
  - 14.3.8.3 SWOT Analysis

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

## List Of Tables

### LIST OF TABLES

Table 1: Global: Automotive Catalytic Converter Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Automotive Catalytic Converter Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: Automotive Catalytic Converter Market Forecast: Breakup by Material (in Million US\$), 2024-2032

Table 4: Global: Automotive Catalytic Converter Market Forecast: Breakup by Vehicle Type (in Million US\$), 2024-2032

Table 5: Global: Automotive Catalytic Converter Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Automotive Catalytic Converter Market: Competitive Structure

Table 7: Global: Automotive Catalytic Converter Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Automotive Catalytic Converter Market: Major Drivers and Challenges

Figure 2: Global: Automotive Catalytic Converter Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Automotive Catalytic Converter Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Automotive Catalytic Converter Market: Breakup by Product (in %), 2023

Figure 5: Global: Automotive Catalytic Converter Market: Breakup by Material (in %), 2023

Figure 6: Global: Automotive Catalytic Converter Market: Breakup by Vehicle Type (in %), 2023

Figure 7: Global: Automotive Catalytic Converter Market: Breakup by Region (in %), 2023

Figure 8: Global: Automotive Catalytic Converter (Two-way Oxidation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Automotive Catalytic Converter (Two-way Oxidation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Automotive Catalytic Converter (Three-way Oxidation-reduction) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Automotive Catalytic Converter (Three-way Oxidation-reduction) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Automotive Catalytic Converter (Diesel Oxidation Catalyst) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Automotive Catalytic Converter (Diesel Oxidation Catalyst) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Automotive Catalytic Converter (Platinum) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Automotive Catalytic Converter (Platinum) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Automotive Catalytic Converter (Palladium) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Automotive Catalytic Converter (Palladium) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Automotive Catalytic Converter (Rhodium) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Automotive Catalytic Converter (Rhodium) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Automotive Catalytic Converter (Passenger Cars) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Automotive Catalytic Converter (Passenger Cars) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Automotive Catalytic Converter (Commercial Vehicles) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Automotive Catalytic Converter (Commercial Vehicles) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: North America: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: North America: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: United States: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: United States: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Canada: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Canada: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Asia-Pacific: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Asia-Pacific: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: China: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: China: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Japan: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Japan: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: India: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: India: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: South Korea: Automotive Catalytic Converter Market: Sales Value (in Million

US\$), 2018 & 2023

Figure 39: South Korea: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Australia: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Australia: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Indonesia: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Indonesia: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Others: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Others: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Europe: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Europe: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Germany: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Germany: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: France: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: France: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: United Kingdom: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: United Kingdom: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Italy: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Italy: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Spain: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Spain: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Russia: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Russia: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Others: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Others: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Latin America: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Latin America: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Brazil: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: Brazil: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: Mexico: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Mexico: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Others: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Others: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Middle East and Africa: Automotive Catalytic Converter Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Middle East and Africa: Automotive Catalytic Converter Market: Breakup by Country (in %), 2023

Figure 72: Middle East and Africa: Automotive Catalytic Converter Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Global: Automotive Catalytic Converter Industry: Drivers, Restraints, and Opportunities

Figure 74: Global: Automotive Catalytic Converter Industry: Value Chain Analysis

Figure 75: Global: Automotive Catalytic Converter Industry: Porter's Five Forces Analysis



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