

Automotive Three-Way Catalytic Converter Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/A8392BEEABCCEN.html>

Date: December 2024

Pages: 180

Price: US\$ 4,850.00 (Single User License)

ID: A8392BEEABCCEN

Abstracts

The Global Automotive Three-Way Catalytic Converter Market, valued at USD 11.2 billion in 2024, is set to expand at a robust CAGR of 6.2% from 2025 to 2034. This growth is fueled by increasing vehicle production and sales worldwide as demand for automotive components such as catalytic converters continues to soar. The widespread use of internal combustion engine (ICE) vehicles has intensified the need for advanced emission control systems to meet stringent environmental standards. Moreover, the rising preference for personal mobility and transportation services is further propelling market demand.

Stringent emissions regulations globally are a major driver behind market growth. Governments are implementing tougher policies to combat air pollution and curb greenhouse gas emissions. These mandates require significant reductions in harmful pollutants like carbon monoxide, nitrogen oxides, and hydrocarbons. As a result, manufacturers are focusing on innovative, efficient, and durable catalytic converters that comply with increasingly rigorous performance standards.

By material type, the market is categorized into platinum-based, palladium-based, and rhodium-based converters. In 2024, platinum-based catalytic converters held a significant 40% share, with projections to generate USD 7 billion by 2034. The exceptional catalytic properties of platinum make it integral to effective emission control systems, enabling compliance with stringent regulatory requirements. Platinum's high-performance capabilities in treating exhaust gases and the growing focus on environmental sustainability are driving its adoption in key markets.

In terms of vehicle type, passenger vehicles dominated the market in 2024 with a

commanding 74% share. Increasing consumer demand for fuel-efficient and environmentally friendly vehicles is a key factor in the segment growth. Rising awareness of emissions and sustainability is encouraging automakers to develop low-emission technologies, leading to cleaner and more efficient catalytic converters for passenger vehicles.

The U.S. market for automotive three-way catalytic converters captured an impressive 80% share in 2024. Regulatory mandates focused on reducing vehicle emissions are spurring manufacturers to adopt cutting-edge catalyst technologies. Innovations in materials, substrate designs, and heat-resistant components are enhancing the efficiency and durability of converters, ensuring compliance with evolving environmental standards. Federal incentives and investments in clean technologies are further accelerating growth in the region.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data collection methods
- 1.2 Base estimates & calculations
 - 1.2.1 Base year calculation
 - 1.2.2 Key trends for market estimation
- 1.3 Forecast model
- 1.4 Primary research and validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market scope & definition

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Raw material providers
 - 3.1.2 Component suppliers
 - 3.1.3 Manufacturers
 - 3.1.4 Distribution channel
 - 3.1.5 End users
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Technology & innovation landscape
- 3.5 Patent analysis
- 3.6 Key news & initiatives
- 3.7 Regulatory landscape
- 3.8 Cost analysis
- 3.9 Impact forces
 - 3.9.1 Growth drivers
 - 3.9.1.1 Rapid investment in R&D and new product development
 - 3.9.1.2 Increasing environmental regulations

- 3.9.1.3 Technological advancements in catalytic converters
- 3.9.1.4 Rising demand for fuel-efficient vehicles
- 3.9.1.5 Growing vehicle demand in emerging markets
- 3.9.2 Industry pitfalls & challenges
 - 3.9.2.1 High manufacturing costs
 - 3.9.2.2 Regulatory hurdles and compliance issues
- 3.10 Growth potential analysis
- 3.11 Porter's analysis
- 3.12 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY MATERIAL, 2021 - 2034 (\$BN, UNITS)

- 5.1 Key trends
- 5.2 Platinum-based
- 5.3 Palladium-based
- 5.4 Rhodium-based

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY VEHICLE, 2021 - 2034 (\$BN, UNITS)

- 6.1 Key trends
- 6.2 Passenger vehicles
 - 6.2.1 Hatchback
 - 6.2.2 Sedan
 - 6.2.3 SUVs
- 6.3 Commercial vehicles
 - 6.3.1 Light Commercial Vehicles (LCVs)
 - 6.3.2 Heavy Commercial Vehicles (HCVs)

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY PROPULSION, 2021 - 2034 (\$BN, UNITS)

7.1 Key trends

7.2 Gasoline

7.3 Diesel

7.4 Others

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021 - 2034 (\$BN, UNITS)

8.1 Key trends

8.2 OEM

8.3 Aftermarket

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$BN, UNITS)

9.1 Key trends

9.2 North America

9.2.1 U.S.

9.2.2 Canada

9.3 Europe

9.3.1 UK

9.3.2 Germany

9.3.3 France

9.3.4 Italy

9.3.5 Spain

9.3.6 Russia

9.3.7 Nordics

9.4 Asia Pacific

9.4.1 China

9.4.2 India

9.4.3 Japan

9.4.4 ANZ

9.4.5 South Korea

9.4.6 Southeast Asia

9.5 Latin America

9.5.1 Brazil

9.5.2 Mexico

9.5.3 Argentina

9.6 MEA

9.6.1 UAE

9.6.2 South Africa

9.6.3 Saudi Arabia

CHAPTER 10 COMPANY PROFILES

10.1 BASF SE

10.2 Benteler

10.3 BorgWarner

10.4 Bosal

10.5 Calsonic

10.6 Corning

10.7 Delphi

10.8 Denso

10.9 Eberspächer

10.10 Faurecia

10.11 Haldex

10.12 Johnson Matthey

10.13 Magna

10.14 Marelli

10.15 Sango

10.16 Tenneco

10.17 Umicore

10.18 Valeo

10.19 Walker Exhaust Systems

10.20 Yutaka

I would like to order

Product name: Automotive Three-Way Catalytic Converter Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

Product link: <https://marketpublishers.com/r/A8392BEEABCCEN.html>

Price: US\$ 4,850.00 (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/A8392BEEABCCEN.html>