

Automotive Exhaust Emission Control Device Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Device Type (GPF, SCR, LNT, DOC, DPF, and TWC), By Material (Rhodium, Palladium, and Platinum), By Engine Type (Petrol, Diesel and Others), By Region, Competition, 2018-2028

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Abstracts

The Global Automotive Exhaust Emission Control Device Market size reached USD 11.74 Billion in 2022 and is expected to grow with a CAGR of 7.74% in the forecast period.

The Global Automotive Exhaust Emission Control Device Market is a critical segment within the automotive industry, playing a vital role in addressing environmental concerns and regulatory compliance. This market focuses on developing technologies and devices that mitigate harmful emissions from internal combustion engines, contributing to a cleaner and more sustainable automotive ecosystem.

Stringent emission regulations worldwide have significantly propelled the demand for exhaust emission control devices. These regulations, aimed at reducing pollutants like nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter, have spurred innovation in catalytic converters, diesel particulate filters (DPF), and selective catalytic reduction (SCR) systems. Original Equipment Manufacturers (OEMs) and aftermarket suppliers are engaged in continuous research and development to produce advanced emission control devices that meet or exceed these stringent standards.

Catalytic converters, a cornerstone of the market, play a pivotal role in converting

harmful gases into less harmful substances. The increasing emphasis on reducing greenhouse gas emissions has led to the integration of advanced materials and coatings in catalytic converters, enhancing their efficiency. Additionally, the rise of electric and hybrid vehicles has not diminished the importance of emission control devices; instead, it has driven the development of solutions for hybrid powertrains and range extenders.

In the aftermarket segment, a growing awareness of environmental issues and the need for vehicle owners to comply with emission standards has fueled the demand for retrofitting vehicles with advanced emission control technologies. The market also witnesses a trend toward the integration of connectivity and sensors in emission control devices, enabling real-time monitoring and diagnostics, contributing to efficient vehicle maintenance and performance.

The global shift toward electric and alternative fuel vehicles is influencing the Automotive Exhaust Emission Control Device Market. As the automotive industry undergoes a transformative phase, with an increasing focus on sustainable mobility, emission control devices are evolving to cater to the unique challenges posed by hybrid and electric powertrains.

In conclusion, the Automotive Exhaust Emission Control Device Market serves as a crucial component in the global effort to reduce vehicular emissions and promote sustainable transportation. Continuous technological advancements, regulatory pressures, and the industry's commitment to environmental stewardship collectively drive the growth and evolution of this market. As the automotive landscape undergoes further transformations, the role of emission control devices remains pivotal in shaping the future of cleaner and more efficient transportation.

Key Market Drivers

Stringent Emission Standards

The foremost driver is the imposition of stringent emission standards by regulatory bodies worldwide. Governments and environmental agencies are enforcing increasingly strict limits on pollutants emitted by vehicles, compelling automakers to invest in advanced emission control technologies.

Environmental Concerns and Sustainability

Growing environmental consciousness and concerns about air quality have heightened the demand for emission control devices. Consumers, governments, and industries are aligning with sustainability goals, driving the adoption of technologies that reduce harmful emissions from vehicles.

Technological Advancements

Rapid advancements in emission control technologies are a significant driver. Continuous research and development efforts focus on enhancing the efficiency and performance of catalytic converters, diesel particulate filters, and selective catalytic reduction systems, ensuring compliance with evolving emission standards.

Rise of Electric and Hybrid Vehicles

The surge in electric and hybrid vehicles has not diminished the importance of emission control devices; rather, it has led to the development of solutions tailored for hybrid powertrains. As the automotive landscape shifts towards electrification, emission control technologies evolve to address the unique challenges posed by diverse powertrain systems.

Aftermarket Demand

A robust aftermarket demand for emission control devices is driven by vehicle owners seeking to retrofit their existing vehicles to comply with emission standards. Awareness of environmental issues and the need for regulatory compliance contribute to a thriving aftermarket segment for emission control components.

Urbanization and Air Quality Concerns

Increasing urbanization and concerns about air quality in metropolitan areas fuel the demand for effective emission control solutions. Urban environments, grappling with air pollution challenges, are pushing for cleaner transportation options, driving the adoption of advanced emission control technologies.

Government Incentives and Subsidies

Governments worldwide are offering incentives and subsidies to both manufacturers and consumers to promote the adoption of cleaner vehicles and emission control technologies. These policy measures act as catalysts, encouraging investments in

research, development, and widespread implementation.

Connectivity and Smart Emission Control

The integration of connectivity and smart technologies in emission control devices is a notable driver. Real-time monitoring, data analytics, and sensor-based diagnostics contribute to efficient vehicle maintenance and performance, aligning with the broader trend of connected and intelligent automotive systems.

Collectively, these drivers underscore the pivotal role of the Automotive Exhaust Emission Control Device Market in addressing environmental challenges, meeting regulatory requirements, and fostering the transition towards cleaner and more sustainable transportation solutions.

Key Market Challenges

Evolving Regulatory Landscape

The continuously evolving and varied emission standards across regions pose a significant challenge. Adapting to new regulations requires substantial investments in research and development to ensure compliance while maintaining cost-effectiveness.

Cost Constraints

The integration of advanced emission control technologies often comes with elevated manufacturing and material costs. Striking a balance between meeting stringent emission standards and offering cost-effective solutions poses a challenge, especially in markets where price sensitivity is high.

Rapid Technological Changes

The rapid pace of technological advancements poses a challenge for market players. Constant innovations in emission control technologies necessitate ongoing investments and a proactive approach to stay ahead in a competitive landscape.

Rise of Electric Vehicles

The increasing popularity of electric vehicles (EVs) poses a challenge to the traditional Automotive Exhaust Emission Control Device Market. The shift towards electrification

reduces the reliance on internal combustion engines, impacting the demand for traditional emission control components.

Durability and Longevity

Emission control devices face challenges related to durability and longevity. Operating in harsh conditions, such as extreme temperatures and exposure to corrosive elements, can affect the performance of these devices over time, necessitating constant improvements in materials and design.

Complexity of Diesel Emission Control

Diesel engines present specific challenges due to their unique emission characteristics. Developing effective diesel emission control technologies, such as diesel particulate filters (DPF) and selective catalytic reduction (SCR) systems, involves addressing complex issues related to efficiency and maintenance.

Consumer Perception and Awareness

While there is a growing awareness of environmental issues, educating consumers about the importance and benefits of emission control technologies remains a challenge. Improving public perception and understanding can influence the adoption of advanced emission control solutions.

Global Economic Uncertainties

Economic uncertainties, geopolitical tensions, and market fluctuations can impact the automotive industry's overall health, affecting investments in emission control technologies. Market players must navigate these uncertainties while maintaining a focus on long-term sustainability.

Successfully addressing these challenges requires a collaborative effort from manufacturers, policymakers, and other stakeholders in the automotive ecosystem. Striving for innovation, cost-efficiency, and environmental sustainability will be crucial for the Automotive Exhaust Emission Control Device Market to overcome these hurdles and contribute to cleaner and more sustainable transportation solutions.

Key Market Trends

Electrification Integration

A prominent trend is the integration of emission control technologies into hybrid and electric vehicles. While electric vehicles produce fewer tailpipe emissions, the market is witnessing innovations in emission control systems for hybrid powertrains and range extenders, ensuring comprehensive environmental stewardship.

Advancements in Catalytic Converter Technology

Catalytic converters are undergoing continuous advancements to enhance efficiency and performance. Innovations include the use of advanced catalyst materials, improved coatings, and optimized designs to further reduce emissions and extend the life of these critical components.

Connectivity and Smart Emission Control

The industry is embracing connectivity and smart technologies in emission control devices. Real-time monitoring, data analytics, and sensor-based diagnostics enable predictive maintenance, improving overall system efficiency and contributing to the development of intelligent and connected vehicle ecosystems.

Lightweight Materials and Design Optimization

Manufacturers are exploring lightweight materials and design optimization strategies to improve the overall efficiency of emission control devices. This trend focuses on reducing the weight of components without compromising performance, contributing to fuel efficiency and addressing the automotive industry's broader push towards lightweighting.

Selective Catalytic Reduction (SCR) Systems for NOx Control

With a growing emphasis on controlling nitrogen oxides (NOx) emissions, SCR systems are gaining prominence. This trend involves the use of urea-based solutions to selectively reduce NOx emissions, particularly in diesel engines, aligning with increasingly stringent emission standards.

Integration of Particulate Matter Filters

Addressing particulate matter emissions, especially from diesel engines, is a key trend.

Particulate matter filters, including advanced diesel particulate filters (DPF), are being integrated to capture and reduce harmful particulates, ensuring cleaner emissions from internal combustion engines.

Continuous Research in Alternative Fuels

Research and development efforts are focused on emission control solutions tailored for vehicles powered by alternative fuels. The exploration of cleaner fuel options, such as hydrogen and natural gas, necessitates the development of compatible emission control technologies to address the unique challenges posed by these fuels.

Stricter On-Board Diagnostics (OBD) Requirements

Stricter OBD requirements are becoming a trend, necessitating more sophisticated diagnostic capabilities in emission control systems. This trend ensures that vehicles can effectively monitor the performance of emission control devices, facilitating timely maintenance and compliance with regulatory standards.

These trends collectively reflect the industry's commitment to advancing emission control technologies, addressing environmental concerns, and staying abreast of evolving regulatory landscapes. The integration of smart technologies, optimization strategies, and innovations in materials underscores the automotive industry's dedication to sustainable and environmentally conscious practices in the Global Automotive Exhaust Emission Control Device Market.

Segmental Insights

By Device Type

Gasoline Particulate Filters have gained prominence as a crucial emission control device, especially in gasoline-powered vehicles. GPFs are designed to capture and reduce particulate matter emissions from gasoline engines, contributing to cleaner air quality. Their adoption is increasing in response to stringent regulations targeting particulate emissions.

SCR systems are instrumental in reducing nitrogen oxides (NOx) emissions from diesel engines. By introducing a urea-based solution, typically AdBlue, into the exhaust stream, SCR systems facilitate the conversion of NOx into harmless nitrogen and water vapor. This technology is vital for compliance with strict emission standards.

Lean NO_x Traps are designed to capture and store nitrogen oxides during lean-burn conditions in gasoline and diesel engines. LNTs play a critical role in reducing NO_x emissions, particularly during transient operating conditions. This technology contributes to meeting stringent emission standards while optimizing engine performance.

Diesel Oxidation Catalysts are employed in diesel engines to catalyze the conversion of harmful gases such as carbon monoxide (CO) and hydrocarbons into less harmful substances. DOCs are integral for achieving cleaner diesel engine emissions and are commonly found in exhaust systems.

Diesel Particulate Filters are pivotal in addressing particulate matter emissions from diesel engines. DPFs capture and trap soot particles, preventing them from being released into the atmosphere. Regular regeneration processes ensure the longevity and effectiveness of DPFs in reducing harmful particulate emissions.

Three-Way Catalytic Converters are a staple in gasoline-powered vehicles, operating by converting harmful gases like nitrogen oxides, carbon monoxide, and unburned hydrocarbons into less harmful substances. TWCs play a key role in achieving comprehensive emission control in gasoline engines.

Each device type contributes uniquely to the overall emission control strategy, reflecting the diverse technological solutions required for different engine types and emission profiles. The adoption and advancements in these device types align with the automotive industry's commitment to environmental sustainability and compliance with stringent emission regulations globally.

By Material

Rhodium is a precious metal widely utilized in catalytic converters, particularly in Three-Way Catalytic Converters (TWCs) for gasoline engines. Its unique catalytic properties make it effective in facilitating chemical reactions that convert harmful gases such as nitrogen oxides (NO_x), carbon monoxide (CO), and hydrocarbons into less harmful substances. Rhodium's efficiency in reducing emissions contributes to compliance with stringent emission standards.

Palladium is another precious metal extensively used in catalytic converters, especially in gasoline engine applications. As a key component of the catalyst, palladium facilitates the oxidation of carbon monoxide and hydrocarbons, aiding in the conversion of these

pollutants into less harmful byproducts. Palladium is valued for its ability to enhance the overall performance and efficiency of emission control devices.

Platinum is a fundamental material in catalytic converters, finding widespread use in both gasoline and diesel engine applications. In diesel engines, platinum is part of the catalyst used in Diesel Oxidation Catalysts (DOCs) and Diesel Particulate Filters (DPFs). In gasoline engines, platinum is a crucial component of TWCs. Platinum's catalytic properties are instrumental in facilitating chemical reactions that lead to the reduction of harmful emissions.

The choice of these precious metals is driven by their unique catalytic characteristics and stability under the harsh operating conditions of automotive exhaust systems. These materials enable the efficient conversion of harmful pollutants into less harmful substances, contributing to cleaner vehicle emissions and compliance with stringent environmental regulations.

However, the market dynamics related to these materials are influenced by factors such as material availability, market pricing, and geopolitical considerations. Changes in material prices or availability can impact the manufacturing costs of emission control devices, influencing market trends and strategies within the Global Automotive Exhaust Emission Control Device Market.

The strategic use of rhodium, palladium, and platinum in emission control devices underscores the industry's commitment to balancing performance, durability, and environmental sustainability in the pursuit of cleaner and more efficient automotive technologies.

Regional Insights

North America, particularly the United States and Canada, is a significant market for automotive emission control devices. The region is characterized by stringent emission standards set by regulatory bodies, driving the adoption of advanced technologies. The market in North America is influenced by a strong focus on environmental sustainability, with demand for emission control devices shaped by both regulatory compliance and consumer preferences for cleaner vehicles.

Europe is a mature market for automotive emission control devices, marked by a history of strict emission regulations. The European Union (EU) continues to lead in implementing and updating emission standards, influencing the demand for advanced

catalytic converters and particulate filters. The region also sees a notable emphasis on research and development, with manufacturers striving to stay ahead of evolving regulatory requirements.

The Asia-Pacific region, led by countries such as China, Japan, and India, represents a dynamic and growing market for emission control devices. The region experiences a surge in vehicle production and sales, driven by economic growth and increasing urbanization. Stringent emission norms in countries like China contribute to the adoption of advanced emission control technologies, while emerging markets present opportunities for market expansion.

Latin America, including countries like Brazil and Mexico, showcases a market influenced by economic conditions and regulatory developments. While the adoption of emission control technologies is evident, it may vary across countries based on their economic prosperity and regulatory frameworks. The region's diverse landscapes and climatic conditions also influence the types of emission control devices in demand.

The Middle East, particularly the United Arab Emirates, displays a growing interest in emission control technologies, driven by affluence and a focus on sustainability. The market in Africa is influenced by economic conditions and the role of vehicles in agricultural and industrial applications. While regulatory standards are evolving, market dynamics vary across countries within the region.

Understanding regional insights is crucial for stakeholders in the Automotive Exhaust Emission Control Device Market to tailor their strategies according to specific market conditions, regulatory landscapes, and consumer preferences. As the global automotive industry moves towards cleaner and more sustainable practices, regional variations will continue to shape the demand for advanced emission control technologies.

Key Market Players

Denso Corporation

Johnson Matthey

Continental Emitech GmbH

Bosal (Belgium), CDTi Advanced

Eberspacher

Bosch Rexroth

Tenneco Inc.

Albonair GmbH

Faurecia

Report Scope:

In this report, the Global Automotive Exhaust Emission Control Device Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Exhaust Emission Control Device Market, By Device Type:

GPF

SCR

LNT

DOC

DPF

TWC

Automotive Exhaust Emission Control Device Market, By Material:

Rhodium

Palladium

Platinum

Automotive Exhaust Emission Control Device Market, By Engine Type:

Petrol

Diesel

Others

Automotive Exhaust Emission Control Device Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Automotive Exhaust Emission Control Device Market.

Available Customizations:

Global Automotive Exhaust Emission Control Device Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Automotive Exhaust Emission Control Device Market – Global Industry Size, Share, Trends Opportunity, and Forec...

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. INTRODUCTION

- 1.1. Product Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

4. IMPACT OF COVID-19 ON GLOBAL AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET

5. GLOBAL AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Device Type Market Share Analysis (GPF, SCR, LNT, DOC, DPF, and TWC)
 - 5.2.2. By Material Market Share Analysis (Rhodium, Palladium, and Platinum)

- 5.2.3. By Engine Type Market Share Analysis (Petrol, Diesel and Others)
- 5.2.4. By Regional Market Share Analysis
 - 5.2.4.1. Asia-Pacific Market Share Analysis
 - 5.2.4.2. Europe & CIS Market Share Analysis
 - 5.2.4.3. North America Market Share Analysis
 - 5.2.4.4. South America Market Share Analysis
 - 5.2.4.5. Middle East & Africa Market Share Analysis
- 5.2.5. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2022)
- 5.3. Global Automotive Exhaust Emission Control Device Market Mapping & Opportunity Assessment
 - 5.3.1. By Device Type Market Mapping & Opportunity Assessment
 - 5.3.2. By Material Market Mapping & Opportunity Assessment
 - 5.3.3. By Engine Type Market Mapping & Opportunity Assessment
 - 5.3.4. By Regional Market Mapping & Opportunity Assessment

6. ASIA-PACIFIC AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Device Type Market Share Analysis
 - 6.2.2. By Material Market Share Analysis
 - 6.2.3. By Engine Type Market Share Analysis
 - 6.2.4. By Country Market Share Analysis
 - 6.2.4.1. China Market Share Analysis
 - 6.2.4.2. India Market Share Analysis
 - 6.2.4.3. Japan Market Share Analysis
 - 6.2.4.4. Indonesia Market Share Analysis
 - 6.2.4.5. Thailand Market Share Analysis
 - 6.2.4.6. South Korea Market Share Analysis
 - 6.2.4.7. Australia Market Share Analysis
 - 6.2.4.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
 - 6.3.1. China Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast

- 6.3.1.2.1. By Device Type Market Share Analysis
- 6.3.1.2.2. By Material Market Share Analysis
- 6.3.1.2.3. By Engine Type Market Share Analysis
- 6.3.2. India Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Device Type Market Share Analysis
 - 6.3.2.2.2. By Material Market Share Analysis
 - 6.3.2.2.3. By Engine Type Market Share Analysis
- 6.3.3. Japan Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Device Type Market Share Analysis
 - 6.3.3.2.2. By Material Market Share Analysis
 - 6.3.3.2.3. By Engine Type Market Share Analysis
- 6.3.4. Indonesia Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Device Type Market Share Analysis
 - 6.3.4.2.2. By Material Market Share Analysis
 - 6.3.4.2.3. By Engine Type Market Share Analysis
- 6.3.5. Thailand Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Engine Type Market Share Analysis
 - 6.3.5.2.2. By Material Market Share Analysis
 - 6.3.5.2.3. By Engine Type Market Share Analysis
- 6.3.6. South Korea Automotive Exhaust Emission Control Device Market Outlook
 - 6.3.6.1. Market Size & Forecast
 - 6.3.6.1.1. By Value
 - 6.3.6.2. Market Share & Forecast
 - 6.3.6.2.1. By Device Type Market Share Analysis
 - 6.3.6.2.2. By Material Market Share Analysis
 - 6.3.6.2.3. By Engine Type Market Share Analysis
- 6.3.7. Australia Automotive Exhaust Emission Control Device Market Outlook

- 6.3.7.1. Market Size & Forecast
 - 6.3.7.1.1. By Value
- 6.3.7.2. Market Share & Forecast
 - 6.3.7.2.1. By Device Type Market Share Analysis
 - 6.3.7.2.2. By Material Market Share Analysis
 - 6.3.7.2.3. By Engine Type Market Share Analysis

7. EUROPE & CIS AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Device Type Market Share Analysis
 - 7.2.2. By Material Market Share Analysis
 - 7.2.3. By Engine Type Market Share Analysis
 - 7.2.4. By Country Market Share Analysis
 - 7.2.4.1. Germany Market Share Analysis
 - 7.2.4.2. Spain Market Share Analysis
 - 7.2.4.3. France Market Share Analysis
 - 7.2.4.4. Russia Market Share Analysis
 - 7.2.4.5. Italy Market Share Analysis
 - 7.2.4.6. United Kingdom Market Share Analysis
 - 7.2.4.7. Belgium Market Share Analysis
 - 7.2.4.8. Rest of Europe & CIS Market Share Analysis
- 7.3. Europe & CIS: Country Analysis
 - 7.3.1. Germany Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Device Type Market Share Analysis
 - 7.3.1.2.2. By Material Market Share Analysis
 - 7.3.1.2.3. By Engine Type Market Share Analysis
 - 7.3.2. Spain Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Device Type Market Share Analysis
 - 7.3.2.2.2. By Material Market Share Analysis

- 7.3.2.2.3. By Engine Type Market Share Analysis
- 7.3.3. France Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Device Type Market Share Analysis
 - 7.3.3.2.2. By Material Market Share Analysis
 - 7.3.3.2.3. By Engine Type Market Share Analysis
- 7.3.4. Russia Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Device Type Market Share Analysis
 - 7.3.4.2.2. By Material Market Share Analysis
 - 7.3.4.2.3. By Engine Type Market Share Analysis
- 7.3.5. Italy Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Device Type Market Share Analysis
 - 7.3.5.2.2. By Material Market Share Analysis
 - 7.3.5.2.3. By Engine Type Market Share Analysis
- 7.3.6. United Kingdom Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.6.1. Market Size & Forecast
 - 7.3.6.1.1. By Value
 - 7.3.6.2. Market Share & Forecast
 - 7.3.6.2.1. By Device Type Market Share Analysis
 - 7.3.6.2.2. By Material Market Share Analysis
 - 7.3.6.2.3. By Engine Type Market Share Analysis
- 7.3.7. Belgium Automotive Exhaust Emission Control Device Market Outlook
 - 7.3.7.1. Market Size & Forecast
 - 7.3.7.1.1. By Value
 - 7.3.7.2. Market Share & Forecast
 - 7.3.7.2.1. By Device Type Market Share Analysis
 - 7.3.7.2.2. By Material Market Share Analysis
 - 7.3.7.2.3. By Engine Type Market Share Analysis

8. NORTH AMERICA AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Device Type Market Share Analysis

8.2.2. By Material Market Share Analysis

8.2.3. By Engine Type Market Share Analysis

8.2.4. By Country Market Share Analysis

8.2.4.1. United States Market Share Analysis

8.2.4.2. Mexico Market Share Analysis

8.2.4.3. Canada Market Share Analysis

8.3. North America: Country Analysis

8.3.1. United States Automotive Exhaust Emission Control Device Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Device Type Market Share Analysis

8.3.1.2.2. By Material Market Share Analysis

8.3.1.2.3. By Engine Type Market Share Analysis

8.3.2. Mexico Automotive Exhaust Emission Control Device Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Device Type Market Share Analysis

8.3.2.2.2. By Material Market Share Analysis

8.3.2.2.3. By Engine Type Market Share Analysis

8.3.3. Canada Automotive Exhaust Emission Control Device Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Device Type Market Share Analysis

8.3.3.2.2. By Material Market Share Analysis

8.3.3.2.3. By Engine Type Market Share Analysis

9. SOUTH AMERICA AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Device Type Market Share Analysis

9.2.2. By Material Market Share Analysis

9.2.3. By Engine Type Market Share Analysis

9.2.4. By Country Market Share Analysis

9.2.4.1. Brazil Market Share Analysis

9.2.4.2. Argentina Market Share Analysis

9.2.4.3. Colombia Market Share Analysis

9.2.4.4. Rest of South America Market Share Analysis

9.3. South America: Country Analysis

9.3.1. Brazil Automotive Exhaust Emission Control Device Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Device Type Market Share Analysis

9.3.1.2.2. By Material Market Share Analysis

9.3.1.2.3. By Engine Type Market Share Analysis

9.3.2. Colombia Automotive Exhaust Emission Control Device Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Device Type Market Share Analysis

9.3.2.2.2. By Material Market Share Analysis

9.3.2.2.3. By Engine Type Market Share Analysis

9.3.3. Argentina Automotive Exhaust Emission Control Device Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Device Type Market Share Analysis

9.3.3.2.2. By Material Market Share Analysis

9.3.3.2.3. By Engine Type Market Share Analysis

10. MIDDLE EAST & AFRICA AUTOMOTIVE EXHAUST EMISSION CONTROL DEVICE MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Device Type Market Share Analysis

- 10.2.2. By Material Market Share Analysis
- 10.2.3. By Engine Type Market Share Analysis
- 10.2.4. By Country Market Share Analysis
 - 10.2.4.1. Turkey Market Share Analysis
 - 10.2.4.2. Iran Market Share Analysis
 - 10.2.4.3. Saudi Arabia Market Share Analysis
 - 10.2.4.4. UAE Market Share Analysis
 - 10.2.4.5. Rest of Middle East & Africa Market Share Africa
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Turkey Automotive Exhaust Emission Control Device Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Device Type Market Share Analysis
 - 10.3.1.2.2. By Material Market Share Analysis
 - 10.3.1.2.3. By Engine Type Market Share Analysis
 - 10.3.2. Iran Automotive Exhaust Emission Control Device Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Device Type Market Share Analysis
 - 10.3.2.2.2. By Material Market Share Analysis
 - 10.3.2.2.3. By Engine Type Market Share Analysis
 - 10.3.3. Saudi Arabia Automotive Exhaust Emission Control Device Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Device Type Market Share Analysis
 - 10.3.3.2.2. By Material Market Share Analysis
 - 10.3.3.2.3. By Engine Type Market Share Analysis
 - 10.3.4. UAE Automotive Exhaust Emission Control Device Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Device Type Market Share Analysis
 - 10.3.4.2.2. By Material Market Share Analysis
 - 10.3.4.2.3. By Engine Type Market Share Analysis

11. SWOT ANALYSIS

- 11.1. Strength
- 11.2. Weakness
- 11.3. Opportunities
- 11.4. Threats

12. MARKET DYNAMICS

- 12.1. Market Drivers
- 12.2. Market Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPETITIVE LANDSCAPE

- 14.1. Company Profiles (Up to 10 Major Companies)
 - 14.1.1. Denso Corporation
 - 14.1.1.1. Company Details
 - 14.1.1.2. Key Product Offered
 - 14.1.1.3. Financials (As Per Availability)
 - 14.1.1.4. Recent Developments
 - 14.1.1.5. Key Management Personnel
 - 14.1.2. Johnson Matthey
 - 14.1.2.1. Company Details
 - 14.1.2.2. Key Product Offered
 - 14.1.2.3. Financials (As Per Availability)
 - 14.1.2.4. Recent Developments
 - 14.1.2.5. Key Management Personnel
 - 14.1.3. Continental Emitech Gmbh
 - 14.1.3.1. Company Details
 - 14.1.3.2. Key Product Offered
 - 14.1.3.3. Financials (As Per Availability)
 - 14.1.3.4. Recent Developments
 - 14.1.3.5. Key Management Personnel
 - 14.1.4. Bosal
 - 14.1.4.1. Company Details
 - 14.1.4.2. Key Product Offered
 - 14.1.4.3. Financials (As Per Availability)

- 14.1.4.4. Recent Developments
- 14.1.4.5. Key Management Personnel
- 14.1.5. CDTi Advanced
 - 14.1.5.1. Company Details
 - 14.1.5.2. Key Product Offered
 - 14.1.5.3. Financials (As Per Availability)
 - 14.1.5.4. Recent Developments
 - 14.1.5.5. Key Management Personnel
- 14.1.6. Eberspacher
 - 14.1.6.1. Company Details
 - 14.1.6.2. Key Product Offered
 - 14.1.6.3. Financials (As Per Availability)
 - 14.1.6.4. Recent Developments
 - 14.1.6.5. Key Management Personnel
- 14.1.7. Bosch Rexroth
 - 14.1.7.1. Company Details
 - 14.1.7.2. Key Product Offered
 - 14.1.7.3. Financials (As Per Availability)
 - 14.1.7.4. Recent Developments
 - 14.1.7.5. Key Management Personnel
- 14.1.8. Tenneco Inc.
 - 14.1.8.1. Company Details
 - 14.1.8.2. Key Product Offered
 - 14.1.8.3. Financials (As Per Availability)
 - 14.1.8.4. Recent Developments
 - 14.1.8.5. Key Management Personnel
- 14.1.9. Albonair GmbH
 - 14.1.9.1. Company Details
 - 14.1.9.2. Key Product Offered
 - 14.1.9.3. Financials (As Per Availability)
 - 14.1.9.4. Recent Developments
 - 14.1.9.5. Key Management Personnel
- 14.1.10. Faurecia
 - 14.1.10.1. Company Details
 - 14.1.10.2. Key Product Offered
 - 14.1.10.3. Financials (As Per Availability)
 - 14.1.10.4. Recent Developments
 - 14.1.10.5. Key Management Personnel

15. STRATEGIC RECOMMENDATIONS

15.1. Key Focus Areas

15.1.1. Target Regions

15.1.2. Target Device Type

15.1.3. Target Engine Type

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