

# Exhaust System Market by After-Treatment Device (DOC, DPF, LNT, SCR, GPF), Vehicle Type (PC, LCV, Trucks, Buses, Ag Tractor, Construction & Mining Equipment), Aftermarket, Component, Sensor, Application, Sales Channel and Region - Global Forecast to 2026

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## Abstracts

The exhaust system (OE) market, by vehicle type is projected to grow from USD 36.9 billion in 2021 to USD 47.9 billion by 2026, at a CAGR of 5.3% during the forecast period. Passenger cars, light commercial vehicles, and heavy commercial vehicles are classified as on-road vehicles. Most countries follow Euro standards such as Euro 5 and Euro 6. The particle mass and particle number standards for diesel cars in Euro 6 are the same as those in Euro 5. Limits on particle mass emissions for diesel cars have been reduced by large amounts since the Euro 1 standards were introduced. The Euro 6 particle mass limits for diesel cars represent a reduction of 96% from Euro 1 limits. Euro 6 is a significant advancement over Euro 5 with regard to NOX limits. The NOX limit declines from 0.18 g/km to 0.08 g/km, a reduction of 56%. Explicit NOX limits were introduced at the Euro 3 level, and in the Euro 6 standards, the NOX limit is 84% lower than the Euro 3 level. Emerging economies with higher vehicle production like India launched new standards of BS 6 emission standards on April 1, 2020; the diesel vehicle nitrogen oxide (NOx) limit was declined from 250 mg/Km in BS5 to 80 mg/km in BS6.

Countries adhering to the Paris Agreement for a reduction in vehicle emissions are planning to introduce more stringent emission regulations. Countries such as Brazil, Russia, and South Africa are planning to introduce emission regulations like Euro 5 and Euro 6 post-2023. This will result in more emission stringency and a reduction in vehicle weight. Manufacturers are shifting toward exhaust after-treatment devices through

advanced components and technologies to comply with the emission standards. Thus, this is expected to fuel the demand for exhaust systems in on-highway vehicles.

The Corporate Average Fuel Economy (CAFE) regulations have set standards related to fuel economy. These regulations mainly aim to lower fuel consumption (or improve fuel efficiency) of vehicles by lowering carbon dioxide (CO<sub>2</sub>) emissions, hence serving the twin purposes of reducing dependence on oil for fuel and controlling pollution.

The EPA and the Department of Transportation issued a proposed ruling that, if enacted, would roll back some of the goals set in 2012, in August 2018. This issue ruling-freezes the fuel economy goals to the 2021 target of 37 miles per gallon. China has Phase V standards with an average fleet target of 4.0 L/100 km (NEDC) by 2025 for passenger vehicles produced in or imported to China, a 20% reduction from the previous 5.0L/100 km target in 2020. In India, mandates that the average corporate CO<sub>2</sub> emission must be less than 130 gm per km till 2022 and below 113 gm per km thereafter as per the CAF? regulation.

Thus, the on and off-highway vehicle emission regulations combined with the stringent fuel economy regulations are expected to lead the automotive OEMs and exhaust system manufacturers to adopt and develop new components and systems as well as use after-treatment devices to minimize vehicle emissions and drive the exhaust system market during the forecast period.

“The passenger car segment is expected to lead the vehicle type segment due to the increased global vehicle production.”

The production of these vehicles is growing rapidly in emerging countries such as China and India. In China and India, the production of diesel vehicles is significant as consumers prefer gasoline and diesel vehicles. Automotive manufacturers are increasingly investing in these countries due to the availability of cheap labor, suitable infrastructure for production, and attractive government policies for the automotive industry. Key OEMs are Toyota, Volkswagen, Hyundai, General Motors, and Ford.

The passenger car market in the US is growing at a steady rate as consumers are switching to SUVs and pickup trucks. In the US, SUVs and pickup trucks are considered under LCVs.

The maximum share of passenger cars in global vehicle production is expected to drive this segment. According to OICA statistics, passenger cars accounted for 79% of

vehicle production in 2020, which is anticipated to grow at a significant rate during the forecast period.

Asia Pacific is projected to be the largest regional market

Asia Pacific is estimated to be the largest OE market for exhaust systems and after-treatment devices during the forecast period, followed by Europe. The growth of the exhaust system market in Asia Pacific is mainly attributed to the increasing vehicle production and constant upgradations in emission norms, especially in countries such as China, Japan, and India.

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

By Company Type: Tier1 – 40%, Tier2–30%, and OEMs – 30%

By Designation: C Level - 35%, Directors- 35%, and Others – 30%

By Region: Asia Pacific - 50%, Europe - 20%, North America –30%

Tenneco Inc.(US), Faurecia (France), Eberspacher (Germany), Friedrich Boysen GMBH & CO. KG (Germany), and BENTELER International (Austria) are the leading providers of an exhaust system in the global market.

Research Coverage:

The study segments the exhaust system market and forecasts the market size based on OE Market, by after-treatment device (DOC, DPF, SCR, LNT, and GPF), OE Market, by component (manifold, downpipe, catalytic converter, muffler, tailpipe, sensors, and hangers), OE Market, by vehicle type (passenger cars, LCVs, buses, and trucks), OE Market, by off-highway vehicle (agricultural tractor, mining equipment, and construction equipment), Application (on-highway vehicles and off-highway vehicles), Aftermarket, By vehicle type (LDV and HDV), Sensor Type (temperature sensors, oxygen sensors, NOx sensors, and PM sensors), Sales Channel (OEM and aftermarket), and Region (Asia Pacific, North America, Europe, and the Rest of the World).

The study also includes an in-depth competitive analysis of the major exhaust system

manufacturers 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 the market leaders/new entrants in this market with the information on the closest approximations of the revenue numbers for the overall exhaust system market and the sub-segments. 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 market's pulse and provides them information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES
- 1.2 MARKET DEFINITION
  - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 MARKET SCOPE
  - 1.3.1 YEARS CONSIDERED IN THE STUDY
- 1.4 CURRENCY CONSIDERED
- 1.5 SUMMARY OF CHANGES
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - FIGURE 1 RESEARCH DESIGN
  - FIGURE 2 RESEARCH METHODOLOGY MODEL
    - 2.1.1 SECONDARY DATA
      - 2.1.1.1 List of key secondary sources to estimate exhaust system market
      - 2.1.1.2 Key data from secondary sources
    - 2.1.2 PRIMARY DATA
      - FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY STAKEHOLDER, DESIGNATION, & REGION
        - 2.1.2.1 List of primary participants
  - 2.2 MARKET ESTIMATION METHODOLOGY
    - FIGURE 4 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING
      - 2.2.1 BOTTOM-UP APPROACH
        - FIGURE 5 EXHAUST SYSTEM MARKET SIZE: BOTTOM-UP APPROACH (AFTER-TREATMENT DEVICE AND REGION)
        - FIGURE 6 EXHAUST SYSTEM MARKET SIZE: BOTTOM-UP APPROACH (AFTERMARKET, BY VEHICLE TYPE)
      - 2.2.2 TOP-DOWN APPROACH
        - FIGURE 7 EXHAUST SYSTEM MARKET SIZE: TOP-DOWN APPROACH (COMPONENT)
        - TABLE 1 EXHAUST SYSTEM MARKET: RESEARCH DESIGN & METHODOLOGY
        - FIGURE 8 EXHAUST SYSTEM MARKET: RESEARCH METHODOLOGY ILLUSTRATION OF FAURECIA REVENUE ESTIMATION
        - 2.2.3 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND- AND SUPPLY-SIDE

## 2.3 DATA TRIANGULATION

FIGURE 9 DATA TRIANGULATION METHODOLOGY

## 2.4 FACTOR ANALYSIS

## 2.5 RESEARCH ASSUMPTIONS

### 2.5.1 ASSUMPTIONS

TABLE 2 ASSUMPTIONS

## 2.6 RESEARCH LIMITATIONS

# 3 EXECUTIVE SUMMARY

## 3.1 INTRODUCTION

### 3.1.1 PRE- VS POST-COVID-19 SCENARIO

FIGURE 10 PRE- & POST-COVID-19 SCENARIO: EXHAUST SYSTEM MARKET SIZE, 2019–2026 (USD MILLION)

TABLE 3 EXHAUST SYSTEM MARKET SIZE: PRE- VS. POST-COVID-19 SCENARIO, 2019–2026 (USD MILLION)

## 3.2 REPORT SUMMARY

FIGURE 11 EXHAUST SYSTEM MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2021 VS. 2026 (USD MILLION)

# 4 PREMIUM INSIGHTS

## 4.1 ATTRACTIVE OPPORTUNITIES IN THE EXHAUST SYSTEM MARKET

FIGURE 12 GROWING PENETRATION OF AFTER-TREATMENT DEVICES IN COMBINATIONS TO DRIVE THE EXHAUST SYSTEM MARKET

## 4.2 EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICES

FIGURE 13 SCR IS ESTIMATED TO LEAD THE MARKET IN 2021 (USD MILLION)

## 4.3 EXHAUST SYSTEM MARKET, BY VEHICLE TYPE

FIGURE 14 THE PASSENGER CARS SEGMENT IS PROJECTED TO DOMINATE THE MARKET DURING THE FORECAST PERIOD

## 4.4 EXHAUST SYSTEM MARKET, BY COMPONENT

FIGURE 15 THE TAILPIPE SEGMENT IS EXPECTED TO GROW AT THE HIGHEST CAGR FROM 2021 TO 2026

## 4.5 EXHAUST SYSTEM MARKET, BY SENSOR TYPE

FIGURE 16 NOX SENSORS PROJECTED TO ACCOUNT LEAD THE MARKET DURING FORECAST PERIOD

## 4.6 EXHAUST SYSTEM AFTERMARKET, BY VEHICLE TYPE

## 4.7 EXHAUST SYSTEM OE MARKET, BY OFF-HIGHWAY VEHICLE

FIGURE 17 MINING EQUIPMENT IS EXPECTED TO GROW AT THE HIGHEST

CAGR FROM 2021 TO 2026

4.8 EXHAUST SYSTEM MARKET, BY APPLICATION

FIGURE 18 THE ON-HIGHWAY VEHICLES SEGMENT IS ESTIMATED TO ACCOUNT FOR A LARGER SHARE OF THE MARKET IN 2021

4.9 EXHAUST SYSTEM MARKET, BY SALES CHANNEL

FIGURE 19 AFTERMARKET IS EXPECTED TO ACCOUNT FOR A LARGER SHARE BY 2026

4.10 EXHAUST SYSTEM MARKET, BY REGION

FIGURE 20 ASIA PACIFIC IS ESTIMATED TO ACCOUNT FOR THE LARGEST SHARE OF THE EXHAUST SYSTEM MARKET IN 2021

## 5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 21 EXHAUST SYSTEM MARKET: MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Growing vehicle emission is leading to stringent emission and fuel economy regulations

5.2.1.1.1 On-highway emission regulations

5.2.1.1.2 Off-highway (non-road mobile machinery) emission regulations

5.2.1.1.3 Fuel Economy Regulations

5.2.1.2 Growing penetration of after-treatment devices in Combinations

5.2.2 RESTRAINTS

5.2.2.1 Growing sales of clean vehicles

TABLE 4 FINANCIAL INCENTIVES FOR ELECTRIC VEHICLES, BY COUNTRY

FIGURE 22 SALES OF CLEAN VEHICLES, 2018-2026 (THOUSAND UNITS)

5.2.3 OPPORTUNITIES

5.2.3.1 Lightweight emission systems

5.2.3.2 Growing demand for gasoline particulate filters (GPF) in GDI engines

5.2.3.3 Advanced exhaust heat recovery systems

5.2.4 CHALLENGES

5.2.4.1 Impact of COVID-19 on Exhaust system market

5.2.4.2 Real drive emission test

5.3 PORTER'S FIVE FORCES ANALYSIS

TABLE 5 PORTER'S FIVE FORCES ANALYSIS

FIGURE 23 PORTER'S FIVE FORCES

5.3.1 THREAT OF NEW ENTRANTS

5.3.2 THREAT OF SUBSTITUTES



### 5.3.3 BARGAINING POWER OF SUPPLIERS

### 5.3.4 BARGAINING POWER OF BUYERS

### 5.3.5 INTENSITY OF COMPETITIVE RIVALRY

## 5.4 TRADE ANALYSIS

TABLE 6 IMPORT TRADE DATA, BY COUNTRY, 2020 (USD THOUSAND)

TABLE 7 EXPORT TRADE DATA, BY COUNTRY, 2020 (USD THOUSAND)

## 5.5 CASE STUDIES

### 5.6 PATENT ANALYSIS

### 5.7 SUPPLY CHAIN ANALYSIS

FIGURE 24 SUPPLY CHAIN ANALYSIS: EXHAUST SYSTEM MARKET

## 5.8 EXHAUST SYSTEM MARKET ECOSYSTEM

TABLE 8 ROLE OF COMPANIES IN EXHAUST SYSTEM MARKET ECOSYSTEM

## 5.9 EMISSION REGULATIONS, BY VEHICLE TYPE

### 5.9.1 ON-ROAD VEHICLES

TABLE 9 EURO-5 VS. EURO-6 VEHICLE EMISSION STANDARDS ON THE NEW EUROPEAN DRIVING CYCLE

TABLE 10 ON-ROAD VEHICLE EMISSION REGULATION OUTLOOK FOR PASSENGER CARS, 2016–2021

FIGURE 25 ON-ROAD VEHICLE EMISSION REGULATION OUTLOOK FOR HEAVY-DUTY VEHICLES, 2014–2025

### 5.9.2 NON-ROAD MOBILE MACHINERY

FIGURE 26 NON-ROAD MOBILE MACHINERY EMISSION REGULATION OUTLOOK, 2019–2025

## 5.10 FUEL ECONOMY NORMS

### 5.10.1 US

TABLE 11 US: CAFE STANDARDS FOR EACH MODEL YEAR IN MILES PER GALLON, 2012–2025

### 5.10.2 EUROPE

### 5.10.3 CHINA

### 5.10.4 INDIA

## 5.11 AVERAGE SELLING PRICE (ASP) ANALYSIS

TABLE 12 AVERAGE REGIONAL PRICE (ASP) TREND: AFTER-TREATMENT DEVICES (USD), 2021

TABLE 13 AVERAGE PRICE (ASP) TREND: VEHICLE TYPE (USD), 2021

## 5.12 EXHAUST SYSTEM: TECHNICAL ANALYSIS

### 5.12.1 INTRODUCTION

5.12.2 MAJOR COMPONENTS AND THEIR FUNCTIONS IN AN AUTOMOTIVE EXHAUST SYSTEM

FIGURE 27 WORKING ON AN AUTOMOTIVE EXHAUST SYSTEM



5.12.2.1 Exhaust manifold

FIGURE 28 VEHICLE EXHAUST MANIFOLD

5.12.2.2 Catalytic converter

5.12.2.2.1 Substrate

5.12.2.2.2 Wash-coat

5.12.2.2.3 Catalyst

FIGURE 29 CATALYTIC CONVERTER WORKING MODEL

5.12.2.3 Muffler

5.12.2.4 Tailpipe

5.12.2.5 Resonators

5.12.2.6 After-treatment devices

5.12.3 ACTIVE NOISE CANCELLATION (ANC)

FIGURE 30 WORKING OF AN ANC MUFFLER

5.13 EXHAUST SYSTEM MARKET SCENARIO

FIGURE 31 EXHAUST SYSTEM MARKET SCENARIO, 2019–2026 (USD MILLION)

5.13.1 REALISTIC SCENARIO

TABLE 14 EXHAUST SYSTEM MARKET (REALISTIC SCENARIO), BY REGION, 2019–2026 (USD MILLION)

5.13.2 LOW IMPACT SCENARIO

TABLE 15 EXHAUST SYSTEM MARKET (LOW IMPACT SCENARIO), BY REGION, 2019–2026 (USD MILLION)

5.13.3 HIGH IMPACT SCENARIO

TABLE 16 EXHAUST SYSTEM MARKET (HIGH IMPACT SCENARIO), BY REGION, 2019–2026 (USD MILLION)

## **6 RECOMMENDATIONS BY MARKET SAND MARKETS**

6.1 ASIA PACIFIC IS EXPECTED TO LEAD THE MARKET FOR EXHAUST SYSTEMS

6.2 GROWING DEMAND FOR GDI VEHICLES - KEY FOCUS AREAS

6.3 CONCLUSION

## **7 EXHAUST SYSTEM (OE) MARKET, BY AFTER-TREATMENT DEVICE**

7.1 INTRODUCTION

7.1.1 RESEARCH METHODOLOGY

7.1.2 ASSUMPTIONS

7.1.3 INDUSTRY INSIGHTS

FIGURE 32 EXHAUST SYSTEM (OE) MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2021 VS. 2026 (USD MILLION)

TABLE 17 EXHAUST SYSTEM (OE) MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 18 EXHAUST SYSTEM (OE) MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 19 EXHAUST SYSTEM (OE) MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 20 EXHAUST SYSTEM (OE) MARKET SIZE, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 7.2 DIESEL OXIDATION CATALYST (DOC)

TABLE 21 DOC (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 22 DOC (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 23 DOC (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 24 DOC (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 7.3 DIESEL PARTICULATE FILTER (DPF)

TABLE 25 DPF (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 26 DPF (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 27 DPF (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 28 DPF (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 7.4 LEAN NOX TRAP (LNT)

TABLE 29 LNT (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 30 LNT (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 31 LNT (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 32 LNT (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 7.5 SELECTIVE CATALYST REDUCTION (SCR)

TABLE 33 SCR (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 34 SCR (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 35 SCR (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 36 SCR (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 7.6 GASOLINE PARTICULATE FILTER (GPF)

TABLE 37 GPF (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 38 GPF (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 39 GPF (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 40 GPF (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

## 8 EXHAUST SYSTEM (OE) MARKET, BY VEHICLE TYPE

### 8.1 INTRODUCTION

#### 8.1.1 RESEARCH METHODOLOGY

#### 8.1.2 ASSUMPTIONS

### 8.1.3 INDUSTRY INSIGHTS

FIGURE 33 EXHAUST SYSTEM (OE) MARKET SIZE, BY VEHICLE TYPE, 2021 VS. 2026 (USD MILLION)

TABLE 41 EXHAUST SYSTEM (OE) MARKET SIZE, BY VEHICLE TYPE, 2019–2020 (THOUSAND UNITS)

TABLE 42 EXHAUST SYSTEM (OE) MARKET SIZE, BY VEHICLE TYPE, 2021–2026 (THOUSAND UNITS)

TABLE 43 EXHAUST SYSTEM (OE) MARKET SIZE, BY VEHICLE TYPE, 2019–2020 (USD MILLION)

TABLE 44 EXHAUST SYSTEM (OE) MARKET SIZE, BY VEHICLE TYPE, 2021–2026 (USD MILLION)

### 8.2 PASSENGER CARS

TABLE 45 PASSENGER CARS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 46 PASSENGER CARS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 47 PASSENGER CARS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (USD MILLION)

TABLE 48 PASSENGER CARS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (USD MILLION)

### 8.3 LIGHT COMMERCIAL VEHICLES

TABLE 49 LIGHT COMMERCIAL VEHICLES EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 50 LIGHT COMMERCIAL VEHICLES EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 51 LIGHT COMMERCIAL VEHICLES EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (USD MILLION)

TABLE 52 LIGHT COMMERCIAL VEHICLES EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (USD MILLION)

### 8.4 TRUCKS

TABLE 53 TRUCKS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 54 TRUCKS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 55 TRUCKS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (USD MILLION)

TABLE 56 TRUCKS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (USD MILLION)

### 8.5 BUSES

TABLE 57 BUS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020  
(THOUSAND UNITS)

TABLE 58 BUS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026  
(THOUSAND UNITS)

TABLE 59 BUS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2019–2020 (USD  
MILLION)

TABLE 60 BUS EXHAUST SYSTEM (OE) MARKET, BY REGION, 2021–2026 (USD  
MILLION)

## **9 EXHAUST SYSTEM AFTERMARKET, BY VEHICLE TYPE**

### 9.1 INTRODUCTION

#### 9.1.1 RESEARCH METHODOLOGY

#### 9.1.2 ASSUMPTIONS

#### 9.1.3 INDUSTRY INSIGHTS

FIGURE 34 EXHAUST SYSTEM AFTERMARKET SIZE, BY VEHICLE TYPE, 2021 VS.  
2026 (USD MILLION)

TABLE 61 EXHAUST SYSTEM AFTERMARKET SIZE, BY VEHICLE TYPE,  
2019–2020 (THOUSAND UNITS)

TABLE 62 EXHAUST SYSTEM AFTERMARKET SIZE, BY VEHICLE TYPE,  
2021–2026 (THOUSAND UNITS)

TABLE 63 EXHAUST SYSTEM AFTERMARKET SIZE, BY VEHICLE TYPE,  
2019–2020 (USD MILLION)

TABLE 64 EXHAUST SYSTEM AFTERMARKET SIZE, BY VEHICLE TYPE,  
2021–2026 (USD MILLION)

### 9.2 LIGHT-DUTY VEHICLES (LDVS)

TABLE 65 LDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2019–2020  
(THOUSAND UNITS)

TABLE 66 LDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2021–2026  
(THOUSAND UNITS)

TABLE 67 LDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2019–2020 (USD  
MILLION)

TABLE 68 LDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2021–2026 (USD  
MILLION)

### 9.3 HEAVY-DUTY VEHICLES (HDVS)

TABLE 69 HDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2019–2020  
(THOUSAND UNITS)

TABLE 70 HDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2021–2026  
(THOUSAND UNITS)

TABLE 71 HDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2019–2020 (USD MILLION)

TABLE 72 HDV EXHAUST SYSTEM AFTERMARKET, BY REGION, 2021–2026 (USD MILLION)

## **10 EXHAUST SYSTEM (OE) MARKET, BY COMPONENT**

### 10.1 INTRODUCTION

#### 10.1.1 RESEARCH METHODOLOGY

#### 10.1.2 ASSUMPTIONS

FIGURE 35 EXHAUST SYSTEM (OE) MARKET SIZE, BY COMPONENT, 2021 VS. 2026 (USD MILLION)

TABLE 73 EXHAUST SYSTEM (OE) MARKET SIZE, BY COMPONENT, 2019–2020 (THOUSAND UNITS)

TABLE 74 EXHAUST SYSTEM (OE) MARKET SIZE, BY COMPONENT, 2021–2026 (THOUSAND UNITS)

TABLE 75 EXHAUST SYSTEM (OE) MARKET SIZE, BY COMPONENT, 2019–2020 (USD MILLION)

TABLE 76 EXHAUST SYSTEM (OE) MARKET SIZE, BY COMPONENT, 2021–2026 (USD MILLION)

### 10.2 SENSORS

TABLE 77 SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 78 SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 79 SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 80 SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

### 10.3 CATALYTIC CONVERTER

TABLE 81 CATALYTIC CONVERTER (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 82 CATALYTIC CONVERTER (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 83 CATALYTIC CONVERTER (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 84 CATALYTIC CONVERTER (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

### 10.4 DOWNPIPE

TABLE 85 DOWNPIPE (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 86 DOWNPIPE (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 87 DOWNPIPE (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 88 DOWNPIPE (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.5 MANIFOLD

TABLE 89 MANIFOLD (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 90 MANIFOLD (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 91 MANIFOLD (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 92 MANIFOLD (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.6 MUFFLER

TABLE 93 MUFFLER (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 94 MUFFLER (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 95 MUFFLER (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 96 MUFFLER (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.7 TAILPIPE

TABLE 97 TAILPIPE (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 98 TAILPIPE (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 99 TAILPIPE (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 100 TAILPIPE (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.8 HANGERS

TABLE 101 HANGERS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 102 HANGERS (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 103 HANGERS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 104 HANGERS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

## **11 EXHAUST SYSTEM (OE) MARKET, BY SENSOR TYPE**

11.1 INTRODUCTION

11.1.1 RESEARCH METHODOLOGY

11.1.2 ASSUMPTIONS

FIGURE 36 EXHAUST SYSTEM (OE) MARKET SIZE, BY SENSOR TYPE, 2021 VS.

*Exhaust System Market by After-Treatment Device (DOC, DPF, LNT, SCR, GPF), Vehicle Type (PC, LCV, Trucks, Buse...*



2026 (USD MILLION)

TABLE 105 EXHAUST SYSTEM (OE) MARKET SIZE, BY SENSOR TYPE, 2019–2020 (THOUSAND UNITS)

TABLE 106 EXHAUST SYSTEM (OE) MARKET SIZE, BY SENSOR TYPE, 2021–2026 (THOUSAND UNITS)

TABLE 107 EXHAUST SYSTEM (OE) MARKET SIZE, BY SENSOR TYPE, 2019–2020 (USD MILLION)

TABLE 108 EXHAUST SYSTEM (OE) MARKET SIZE, BY SENSOR TYPE, 2021–2026 (USD MILLION)

11.2 NOX SENSORS

TABLE 109 NOX SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 110 NOX SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 111 NOX SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 112 NOX SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11.3 OXYGEN SENSORS

TABLE 113 OXYGEN SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 114 OXYGEN SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 115 OXYGEN SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 116 OXYGEN SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11.4 TEMPERATURE SENSORS

TABLE 117 TEMPERATURE SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 118 TEMPERATURE SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 119 TEMPERATURE SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 120 TEMPERATURE SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11.5 PM SENSORS

TABLE 121 PM SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)



TABLE 122 PM SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026  
(THOUSAND UNITS)

TABLE 123 PM SENSORS (OE) MARKET SIZE, BY REGION, 2019–2020 (USD  
MILLION)

TABLE 124 PM SENSORS (OE) MARKET SIZE, BY REGION, 2021–2026 (USD  
MILLION)

## **12 EXHAUST SYSTEM MARKET, BY OFF-HIGHWAY VEHICLE**

### 12.1 INTRODUCTION

#### 12.1.1 RESEARCH METHODOLOGY

#### 12.1.2 ASSUMPTIONS

#### 12.1.3 INDUSTRY INSIGHTS

FIGURE 37 EXHAUST SYSTEM MARKET SIZE, BY OFF-HIGHWAY VEHICLE, 2021  
VS. 2026 (USD MILLION)

TABLE 125 EXHAUST SYSTEM MARKET SIZE, BY OFF-HIGHWAY VEHICLE,  
2019–2020 (THOUSAND UNITS)

TABLE 126 EXHAUST SYSTEM MARKET SIZE, BY OFF-HIGHWAY VEHICLE,  
2021–2026 (THOUSAND UNITS)

TABLE 127 EXHAUST SYSTEM MARKET SIZE, BY OFF-HIGHWAY VEHICLE,  
2019–2020 (USD MILLION)

TABLE 128 EXHAUST SYSTEM MARKET SIZE, BY OFF-HIGHWAY VEHICLE,  
2021–2026 (USD MILLION)

### 12.2 AGRICULTURE TRACTOR

TABLE 129 AGRICULTURE TRACTOR EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2019–2020 (THOUSAND UNITS)

TABLE 130 AGRICULTURE TRACTOR EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2021–2026 (THOUSAND UNITS)

TABLE 131 AGRICULTURE TRACTOR EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2019–2020 (USD MILLION)

TABLE 132 AGRICULTURE TRACTOR EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2021–2026 (USD MILLION)

### 12.3 CONSTRUCTION EQUIPMENT

TABLE 133 CONSTRUCTION EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2019–2020 (THOUSAND UNITS)

TABLE 134 CONSTRUCTION EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2021–2026 (THOUSAND UNITS)

TABLE 135 CONSTRUCTION EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY  
REGION, 2019–2020 (USD MILLION)

TABLE 136 CONSTRUCTION EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 12.4 MINING EQUIPMENT

TABLE 137 MINING EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 138 MINING EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 139 MINING EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 140 MINING EQUIPMENT EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

### **13 EXHAUST SYSTEM MARKET, BY APPLICATION**

#### 13.1 INTRODUCTION

##### 13.1.1 RESEARCH METHODOLOGY

##### 13.1.2 ASSUMPTIONS

FIGURE 38 EXHAUST SYSTEM MARKET SIZE, BY APPLICATION, 2021 VS. 2026 (USD MILLION)

TABLE 141 EXHAUST SYSTEM MARKET SIZE, BY APPLICATION, 2019–2020 (THOUSAND UNITS)

TABLE 142 EXHAUST SYSTEM MARKET SIZE, BY APPLICATION, 2021–2026 (THOUSAND UNITS)

TABLE 143 EXHAUST SYSTEM MARKET SIZE, BY APPLICATION, 2019–2020 (USD MILLION)

TABLE 144 EXHAUST SYSTEM MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

#### 13.2 ON-HIGHWAY VEHICLES

TABLE 145 ON-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 146 ON-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 147 ON-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 148 ON-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

#### 13.3 OFF-HIGHWAY VEHICLES

TABLE 149 OFF-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 150 OFF-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 151 OFF-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 152 OFF-HIGHWAY VEHICLES EXHAUST SYSTEM MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

## **14 EXHAUST SYSTEM MARKET, BY SALES CHANNEL**

### 14.1 INTRODUCTION

#### 14.1.1 RESEARCH METHODOLOGY

#### 14.1.2 ASSUMPTIONS

FIGURE 39 EXHAUST SYSTEM MARKET SIZE, BY SALES CHANNEL, 2021 VS. 2026 (USD MILLION)

TABLE 153 EXHAUST SYSTEM MARKET SIZE, BY SALES CHANNEL, 2019–2020 (THOUSAND UNITS)

TABLE 154 EXHAUST SYSTEM MARKET SIZE, BY SALES CHANNEL, 2021–2026 (THOUSAND UNITS)

TABLE 155 EXHAUST SYSTEM MARKET SIZE, BY SALES CHANNEL, 2019–2020 (USD MILLION)

TABLE 156 EXHAUST SYSTEM MARKET SIZE, BY SALES CHANNEL, 2021–2026 (USD MILLION)

### 14.2 AFTERMARKET

TABLE 157 EXHAUST SYSTEM AFTERMARKET MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 158 EXHAUST SYSTEM AFTERMARKET MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 159 EXHAUST SYSTEM AFTERMARKET MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 160 EXHAUST SYSTEM AFTERMARKET MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

### 14.3 OEM

TABLE 161 EXHAUST SYSTEM OE MARKET SIZE, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 162 EXHAUST SYSTEM OE MARKET SIZE, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 163 EXHAUST SYSTEM OE MARKET SIZE, BY REGION, 2019–2020 (USD MILLION)

TABLE 164 EXHAUST SYSTEM OE MARKET SIZE, BY REGION, 2021–2026 (USD

MILLION)

## 15 EXHAUST SYSTEM MARKET, BY REGION

### 15.1 INTRODUCTION

### 15.2 RESEARCH METHODOLOGY

FIGURE 40 EXHAUST SYSTEM MARKET, BY REGION, 2021 VS. 2026 (USD MILLION)

TABLE 165 EXHAUST SYSTEM MARKET, BY REGION, 2019–2020 (THOUSAND UNITS)

TABLE 166 EXHAUST SYSTEM MARKET, BY REGION, 2021–2026 (THOUSAND UNITS)

TABLE 167 EXHAUST SYSTEM MARKET, BY REGION, 2019–2020 (USD MILLION)

TABLE 168 EXHAUST SYSTEM MARKET, BY REGION, 2021–2026 (USD MILLION)

### 15.3 ASIA PACIFIC

FIGURE 41 ASIA PACIFIC: EXHAUST SYSTEM MARKET SNAPSHOT

TABLE 169 ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (THOUSAND UNITS)

TABLE 170 ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

TABLE 171 ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (USD MILLION)

TABLE 172 ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

#### 15.3.1 CHINA

15.3.1.1 SCR is expected to grow at the highest rate in China during the forecast period

TABLE 173 CHINA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 174 CHINA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 175 CHINA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 176 CHINA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.3.2 JAPAN

15.3.2.1 Japan is the second-largest market for after-treatment devices in Asia Pacific

TABLE 177 JAPAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE,

2019–2020 (THOUSAND UNITS)

TABLE 178 JAPAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 179 JAPAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 180 JAPAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

### 15.3.3 SOUTH KOREA

15.3.3.1 SCR is estimated to dominate the market in South Korea

TABLE 181 SOUTH KOREA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 182 SOUTH KOREA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 183 SOUTH KOREA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 184 SOUTH KOREA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

### 15.3.4 INDIA

15.3.4.1 BS-VI emission regulation fueled the demand for DOC and DPF in the country

TABLE 185 INDIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 186 INDIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 187 INDIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 188 INDIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

### 15.3.5 THAILAND

15.3.5.1 DOC is expected to lead the market by volume during the forecast period

TABLE 189 THAILAND: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 190 THAILAND: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 191 THAILAND: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 192 THAILAND: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

### 15.3.6 REST OF ASIA PACIFIC

15.3.6.1 SCR is expected to be the largest after-treatment device market by 2026  
TABLE 193 REST OF ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 194 REST OF ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 195 REST OF ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 196 REST OF ASIA PACIFIC: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4 EUROPE

FIGURE 42 EUROPE: EXHAUST SYSTEM MARKET SNAPSHOT

TABLE 197 EUROPE: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (THOUSAND UNITS)

TABLE 198 EUROPE: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

TABLE 199 EUROPE: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (USD MILLION)

TABLE 200 EUROPE: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

##### 15.4.1 GERMANY

15.4.1.1 Germany is expected to be the largest market for exhaust system with after-treatment device

TABLE 201 GERMANY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 202 GERMANY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 203 GERMANY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 204 GERMANY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

##### 15.4.2 FRANCE

15.4.2.1 SCR is projected to be the largest market for after-treatment devices by 2026

TABLE 205 FRANCE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 206 FRANCE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 207 FRANCE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)



TABLE 208 FRANCE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4.3 UK

15.4.3.1 SCR is expected to be the largest market in the UK as of 2020

TABLE 209 UK: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 210 UK: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 211 UK: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 212 UK: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4.4 SPAIN

15.4.4.1 DPF and DOC are expected to be the largest market by volume

TABLE 213 SPAIN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 214 SPAIN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 215 SPAIN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 216 SPAIN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4.5 TURKEY

15.4.5.1 DP, DOC, and SCR are projected to be potential market by volume during the forecast period

TABLE 217 TURKEY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 218 TURKEY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 219 TURKEY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 220 TURKEY: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4.6 RUSSIA

15.4.6.1 GPF is expected to register the highest growth rate due to increased sales of GDI vehicles

TABLE 221 RUSSIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 222 RUSSIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT



DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 223 RUSSIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 224 RUSSIA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.4.7 REST OF EUROPE

15.4.7.1 SCR is projected to be the largest market for after-treatment devices

TABLE 225 REST OF EUROPE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 226 REST OF EUROPE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 227 REST OF EUROPE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 228 REST OF EUROPE: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

#### 15.5 NORTH AMERICA

FIGURE 43 NORTH AMERICA: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021 VS. 2026 (USD MILLION)

TABLE 229 NORTH AMERICA: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (THOUSAND UNITS)

TABLE 230 NORTH AMERICA: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

TABLE 231 NORTH AMERICA: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (USD MILLION)

TABLE 232 NORTH AMERICA: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

##### 15.5.1 US

15.5.1.1 After-treatment devices such as DOC and DPF have a 100% adoption rate in diesel vehicles in the US

TABLE 233 US: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 234 US: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 235 US: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 236 US: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

##### 15.5.2 MEXICO

15.5.2.1 Mexico is estimated to be the second-fastest market in North America owing

to increased vehicle production

TABLE 237 MEXICO: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 238 MEXICO: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 239 MEXICO: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 240 MEXICO: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026(USD MILLION)

### 15.5.3 CANADA

15.5.3.1 SCR is estimated to be the largest after-treatment market by 2026

TABLE 241 CANADA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 242 CANADA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 243 CANADA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 244 CANADA: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

### 15.6 REST OF THE WORLD (ROW)

FIGURE 44 ROW: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021 VS 2026 (USD MILLION)

TABLE 245 ROW: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (THOUSAND UNITS)

TABLE 246 ROW: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (THOUSAND UNITS)

TABLE 247 ROW: EXHAUST SYSTEM MARKET, BY COUNTRY, 2019–2020 (USD MILLION)

TABLE 248 ROW: EXHAUST SYSTEM MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

### 15.6.1 BRAZIL

15.6.1.1 DOC is estimated to be the largest market by volume as of 2021

TABLE 249 BRAZIL: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 250 BRAZIL: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 251 BRAZIL: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 252 BRAZIL: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT

**DEVICE, 2021–2026 (USD MILLION)****15.6.2 IRAN**

15.6.2.1 GPF is expected to register the highest CAGR during the forecast period

TABLE 253 IRAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 254 IRAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 255 IRAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 256 IRAN: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

**15.6.3 OTHERS**

15.6.3.1 DPF is estimated to be the largest market by 2026

TABLE 257 OTHERS: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (THOUSAND UNITS)

TABLE 258 OTHERS: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (THOUSAND UNITS)

TABLE 259 OTHERS: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2019–2020 (USD MILLION)

TABLE 260 OTHERS: EXHAUST SYSTEM MARKET, BY AFTER-TREATMENT DEVICE, 2021–2026 (USD MILLION)

**16 COMPETITIVE LANDSCAPE****16.1 OVERVIEW****16.2 EXHAUST SYSTEM MARKET SHARE ANALYSIS, 2020**

TABLE 261 EXHAUST SYSTEM MARKET SHARE ANALYSIS, 2020

FIGURE 45 EXHAUST SYSTEM MARKET SHARE, 2020

**16.3 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS**

FIGURE 46 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS, 2018-2020

**16.4 COMPANY EVALUATION QUADRANT: EXHAUST SYSTEM AND AFTER-TREATMENT DEVICE SUPPLIERS****16.4.1 STAR****16.4.2 EMERGING LEADERS****16.4.3 PERVASIVE****16.4.4 PARTICIPANTS**

TABLE 262 EXHAUST SYSTEM MARKET: COMPANY PRODUCT FOOTPRINT, 2020

TABLE 263 EXHAUST SYSTEM MARKET: COMPANY APPLICATION FOOTPRINT, 2020

TABLE 264 EXHAUST SYSTEM MARKET: COMPANY REGION FOOTPRINT, 2020  
FIGURE 47 COMPETITIVE EVALUATION MATRIX: EXHAUST SYSTEM AND AFTER-TREATMENT DEVICE SUPPLIERS, 2020

FIGURE 48 DETAILS ON KEY DEVELOPMENTS BY LEADING PLAYERS

16.5 COMPETITIVE SCENARIO

16.5.1 NEW PRODUCT LAUNCHES

TABLE 265 PRODUCT LAUNCHES, 2018–2021

16.5.2 DEALS

TABLE 266 DEALS, 2018–2021

16.5.3 OTHER DEVELOPMENTS, 2018–2021

TABLE 267 OTHER DEVELOPMENTS, 2018–2021

16.6 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2018–2021

FIGURE 49 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENTS AND EXPANSIONS AS KEY GROWTH STRATEGIES, 2018–2021

16.7 COMPANY EVALUATION QUADRANT: EXHAUST COMPONENT MANUFACTURERS

16.7.1 STAR

16.7.2 EMERGING LEADERS

16.7.3 PERVASIVE

16.7.4 PARTICIPANTS

FIGURE 50 COMPETITIVE EVALUATION MATRIX, EXHAUST COMPONENT MANUFACTURERS, 2020

## **17 COMPANY PROFILES**

17.1 KEY PLAYERS

(Business overview, Products offered, Recent Developments, MNM view)\*

17.1.1 TENNECO INC.

TABLE 268 TENNECO INC.: BUSINESS OVERVIEW

FIGURE 51 TENNECO INC.: COMPANY SNAPSHOT

TABLE 269 TENNECO INC.: PRODUCTS OFFERED

TABLE 270 TENNECO INC.: NEW PRODUCT DEVELOPMENTS

TABLE 271 TENNECO INC.: DEALS

17.1.2 FAURECIA

TABLE 272 FAURECIA: BUSINESS OVERVIEW

FIGURE 52 FAURECIA: COMPANY SNAPSHOT

TABLE 273 FAURECIA: PRODUCTS OFFERED

TABLE 274 FAURECIA: DEALS

TABLE 275 FAURECIA: OTHER DEVELOPMENTS

### 17.1.3 EBERSP?CHER

TABLE 276 EBERSP?CHER: BUSINESS OVERVIEW

FIGURE 53 EBERSP?CHER: COMPANY SNAPSHOT

TABLE 277 EBERSP?CHER: PRODUCTS OFFERED

TABLE 278 EBERSP?CHER: NEW PRODUCT DEVELOPMENTS

TABLE 279 EBERSP?CHER: DEALS

TABLE 280 EBERSP?CHER: OTHER DEVELOPMENT

### 17.1.4 CONTINENTAL AG

TABLE 281 CONTINENTAL AG: BUSINESS OVERVIEW

FIGURE 54 CONTINENTAL AG: COMPANY SNAPSHOT

TABLE 282 CONTINENTAL AG: PRODUCTS OFFERED

TABLE 283 CONTINENTAL AG: NEW PRODUCT DEVELOPMENTS

TABLE 284 CONTINENTAL AG: OTHER DEVELOPMENTS

### 17.1.5 FUTABA INDUSTRIAL CO., LTD.

TABLE 285 FUTABA INDUSTRIAL CO., LTD.: BUSINESS OVERVIEW

FIGURE 55 FUTABA INDUSTRIAL CO., LTD.: COMPANY SNAPSHOT

TABLE 286 FUTABA INDUSTRIAL CO., LTD.: PRODUCTS OFFERED

TABLE 287 FUTABA INDUSTRIAL CO., LTD.: NEW PRODUCT DEVELOPMENTS

TABLE 288 FUTABA INDUSTRIAL CO., LTD.: OTHER DEVELOPMENTS

### 17.1.6 SANGO CO., LTD.

TABLE 289 SANGO CO., LTD.: BUSINESS OVERVIEW

FIGURE 56 SANGO CO., LTD.: COMPANY SNAPSHOT

TABLE 290 SANGO CO., LTD.: PRODUCTS OFFERED

TABLE 291 SANGO CO., LTD.: DEALS

### 17.1.7 FRIEDRICH BOYSEN GMBH & CO. KG

TABLE 292 FRIEDRICH BOYSEN GMBH & CO. KG: BUSINESS OVERVIEW

FIGURE 57 FRIEDRICH BOYSEN GMBH & CO. KG: COMPANY SNAPSHOT

TABLE 293 FRIEDRICH BOYSEN GMBH & CO. KG: PRODUCTS OFFERED

### 17.1.8 YUTAKA GIKEN COMPANY LIMITED

TABLE 294 YUTAKA GIKEN COMPANY LIMITED: BUSINESS OVERVIEW

FIGURE 58 YUTAKA GIKEN COMPANY LIMITED: COMPANY SNAPSHOT

TABLE 295 YUTAKA GIKEN COMPANY LIMITED: PRODUCTS OFFERED

TABLE 296 YUTAKA GIKEN COMPANY LIMITED: DEALS

TABLE 297 YUTAKA GIKEN COMPANY LIMITED.: OTHER DEVELOPMENTS

### 17.1.9 SEJONG INDUSTRIAL CO., LTD.

TABLE 298 SEJONG INDUSTRIAL CO., LTD.: BUSINESS OVERVIEW

FIGURE 59 SEJONG INDUSTRIAL CO., LTD.: COMPANY SNAPSHOT

TABLE 299 SEJONG INDUSTRIAL CO., LTD.: PRODUCTS OFFERED

TABLE 300 SEJONG INDUSTRIAL CO., LTD.: OTHER DEVELOPMENTS

#### 17.1.10 BOSAL

TABLE 301 BOSAL: BUSINESS OVERVIEW

TABLE 302 BOSAL: PRODUCTS OFFERED

TABLE 303 BOSAL: OTHER DEVELOPMENTS

\*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

#### 17.2 OTHER PLAYERS

##### 17.2.1 MARELLI HOLDINGS CO., LTD.

TABLE 304 MARELLI HOLDINGS CO., LTD.: COMPANY OVERVIEW

##### 17.2.2 HIROTEC CORPORATION

TABLE 305 HIROTEC CORPORATION: COMPANY OVERVIEW

##### 17.2.3 BENTELER INTERNATIONAL

TABLE 306 BENTELER INTERNATIONAL: COMPANY OVERVIEW

##### 17.2.4 KATCON GLOBAL

TABLE 307 KATCON GLOBAL: COMPANY OVERVIEW

##### 17.2.5 VIBRACOUSTIC SE

TABLE 308 VIBRACOUSTIC SE: COMPANY OVERVIEW

##### 17.2.6 ASMET

TABLE 309 ASMET: COMPANY OVERVIEW

##### 17.2.7 DINEX A/S

TABLE 310 DINEX A/S: COMPANY OVERVIEW

##### 17.2.8 MAGNAFLOW

TABLE 311 MAGNAFLOW: COMPANY OVERVIEW

##### 17.2.9 GRAND ROCK CO., INC.

TABLE 312 GRAND ROCK CO., INC.: COMPANY OVERVIEW

##### 17.2.10 EMINOX

TABLE 313 EMINOX: COMPANY OVERVIEW

##### 17.2.11 EUROPEAN EXHAUST AND CATALYST LTD

TABLE 314 EUROPEAN EXHAUST AND CATALYST LTD: COMPANY OVERVIEW

##### 17.2.12 CREFACT CORPORATION

TABLE 315 CREFACT CORPORATION: COMPANY OVERVIEW

##### 17.2.13 SHARDA MOTOR INDUSTRIES LTD.

TABLE 316 SHARDA MOTOR INDUSTRIES LTD.: COMPANY OVERVIEW

##### 17.2.14 EISENMANN EXHAUST SYSTEMS

TABLE 317 EISENMANN EXHAUST SYSTEMS: COMPANY OVERVIEW

##### 17.2.15 DENSO

TABLE 318 DENSO: COMPANY OVERVIEW

##### 17.2.16 HARBIN AIRUI EMISSIONS CONTROL TECHNOLOGY CO., LTD.

TABLE 319 HARBIN AIRUI EMISSIONS CONTROL TECHNOLOGY CO., LTD.:



## COMPANY OVERVIEW

17.2.17 CHONGQING HEIGHT AUTOMOBILE EXHAUST SYSTEM CO LTD  
TABLE 320 CHONGQING HEIGHT AUTOMOBILE EXHAUST SYSTEM CO LTD:  
COMPANY OVERVIEW

## 18 APPENDIX

### 18.1 INSIGHTS OF INDUSTRY EXPERTS

### 18.2 DISCUSSION GUIDE

### 18.3 KNOWLEDGE STORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

### 18.4 AVAILABLE CUSTOMIZATIONS

#### 18.4.1 EXHAUST SYSTEM COMPONENTS OE MARKET, BY VEHICLE TYPE

##### 18.4.1.1 Passenger Cars

##### 18.4.1.2 LCV

##### 18.4.1.3 Trucks

##### 18.4.1.4 Buses

#### 18.4.2 EXHAUST SYSTEM OE MARKET, BY FUEL TYPE

##### 18.4.2.1 Gasoline

##### 18.4.2.2 Diesel

#### 18.4.3 EXHAUST SYSTEM OE MARKET, IN HYBRID VEHICLE, BY AFTER-TREATMENT DEVICE

##### 18.4.3.1 LNT

##### 18.4.3.2 GPF

#### 18.4.4 AFTER-TREATMENT DEVICES OE MARKET, IN OFF-HIGHWAY VEHICLES, BY REGION

##### 18.4.4.1 Asia Pacific

##### 18.4.4.2 Europe

##### 18.4.4.3 North America

##### 18.4.4.4 RoW

#### 18.4.5 TWO & THREE-WHEELER VEHICLE EXHAUST SYSTEM OE MARKET, BY REGION

##### 18.4.5.1 Asia Pacific

##### 18.4.5.2 Europe

##### 18.4.5.3 North America

##### 18.4.5.4 RoW

#### 18.4.6 DETAILED ANALYSIS AND PROFILING OF ADDITIONAL MARKET PLAYERS (UPTO 3)

### 18.5 RELATED REPORTS

### 18.6 AUTHOR DETAILS



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