

# Global and China Automotive Exhaust System Industry Report, 2014-2015

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## Abstracts

Global and China Automotive Exhaust System Industry Report, 2014-2015 covers the following:

1. Overview of Global Automotive Market and Industry;
2. Analysis on China's Automotive Market and Industry;
3. Analysis on Global Automotive Exhaust System Market and Industry;
4. Analysis on China's Automotive Exhaust System Market and Industry;
5. Analysis on China's Automotive Emission Regulations;
6. Research on 13 automotive exhaust system manufacturers, 3 substrate manufacturers and 7 catalyst manufacturers.

In 2009, the average price for the exhaust system of each gasoline engine-powered vehicle reached approximately USD250. However, as the environmental protection policies became increasingly strict, this figure climbed to USD280 in 2014. Comparatively, the exhaust system of diesel engine-powered vehicles was much more expensive, with the price for each unit totaling USD350 in 2009 and USD530 in 2014.

In September 2014, the Euro 6B standard for light-duty vehicles officially came into force, which, combined with a sharp rise in vehicle sales volume in the United States and China, helped prompt the global auto exhaust system market to increase by 3.2% to USD33.1 billion, which was a little faster than 2.3% in 2013.

In 2017, Europe will begin to put Euro 6C standard into effect while China may implement Euro 6A standard for gasoline vehicles. It is expected, therefore, that by 2016 the automotive exhaust system market will expand significantly by 7%. However, it is very likely that only a small number of new standards would go into effect in 2015,

and China's high-speed growth will become a past. Thus, we project that the market size of global automotive exhaust system will rise 2.1%.

China's diesel engine-driven vehicle exhaust system market may continue to be disappointing. As early as May 2005, the Chinese government announced the national IV standard would come into effect on January 1, 2011, which was delayed for 5 times. It was on January 1, 2015 that the standard was put into effect. But in 2015, with China's economic downturn and declined commercial vehicle sales volume, the competition from commercial vehicles boils down to price competition. The national IV standard will be not implemented at all and therefore most vehicles will still take national III standard.

In 2014, the sales volume of trucks in China totaled 3.18 million units in 2014, down 8.9% year on year. Among them, affected by the factors including the increased costs caused by the national IV standard and the automakers' inadequate production, only 1.66 million light-duty trucks were sold, decreasing by 240,000 units from 1.9 million units in 2013, a full-year 12.9% drop. We predict that this rate will rise in 2015.

In China, more than 4-ton vehicles use high pressure common rail + SCR while less than 4-ton models take high pressure common rail + EGR. However, China now lacks special gas stations that can fill urea and will not have. The operating costs of trucks are extremely high and truck owners can only get low profits, thus forcing them into bringing down costs. Hence, they are reluctant to fill urea. Meanwhile, out of a motive of environmental protection, very few trucker owners choose to buy the national IV standard vehicles.

The upstream sectors of automotive exhaust system, substrate and catalyst in particular, are the most profitable. In terms of substrate, the combined market share of the top 3 global enterprises—NGK, Corning, and Ibiden exceeded 96%. NGK and Corning viewed China as the most important market, especially Corning, which achieved a nearly 20% growth in 2014. Ibiden thoroughly focused on the European and American markets and scored poor performance in China, thereby leading its revenue to continuously decline.

With regard to catalyst, the market size of automotive catalyst reached as much as USD11.7 billion in 2014, up 8.0% from 2013. The total market share of the top three manufacturers exceeded 80%, with the competition mainly concentrated in China. The top three players—BASF, Johnson Matthey, and Umicore successively extended their presence into mainland China. Umicore, once lagged behind, doubled its capacity in

2014 and will very likely achieve good performance in 2015.

## Contents

### **1. GLOBAL AND CHINA AUTOMOTIVE MARKET AND INDUSTRY**

- 1.1 Global Automotive Market
  - 1.1.1 US Automotive Market
  - 1.1.2 Japanese and Brazilian Automotive Market
  - 1.1.3 German, UK, and French Automotive Markets
  - 1.1.4 South Korean and Italian Automotive Markets
- 1.2 Global Automotive Brands
  - 1.2.1 Volkswagen
  - 1.2.2 Mercedes-Benz and BMW
  - 1.2.3 Volvo, PSA, and Fiat
  - 1.2.4 General Motors and Hyundai
  - 1.2.5 Toyota
  - 1.2.6 Renault-Nissan

### **2. CHINA AUTOMOTIVE MARKET AND INDUSTRY**

- 2.1 Overview
- 2.2 Latest Developments
- 2.3 Market Analysis
- 2.4 Sales Volume of Typical Automakers

### **3. OVERVIEW OF AUTOMOTIVE EXHAUST SYSTEM**

- 3.1 Overview
- 3.2 Three-way Catalyst
  - 3.2.1 Ceramic Monolith
  - 3.2.2 Catalyst
  - 3.2.3 Liner
- 3.3 National IV Standard for Exhaust System of Diesel-driven Vehicles
- 3.4 Outlook of Global Emission Standards for Heavy Duty Diesel-Driven Vehicles
- 3.5 Timeline of Global Emission Standards
- 3.6 Development Trend in Exhaust System of Light-duty Vehicles
- 3.7 Development Trend in Exhaust System of Heavy-duty Vehicles
- 3.8 Vision for China's 2020 Automotive Emission Regulations

### **4. AUTOMOTIVE EXHAUST SYSTEM MARKET AND INDUSTRY**

- 4.1 Global Automotive Exhaust System Market
- 4.2 China Automotive Exhaust System Market
- 4.3 Global Automotive Exhaust System Industry
- 4.4 China Automotive Exhaust System Industry
- 4.5 Major Sedan-dedicated Three-way Catalyst Suppliers in China

## **5. AUTOMOTIVE EXHAUST SYSTEM MANUFACTURERS**

### **5.1 FAURECIA**

- 5.1.1 Faurecia (Changchun) Exhaust System
- 5.1.2 Wuhan Faurecia Tongda Exhaust System
- 5.1.3 Faurecia Emission Control Technologies Yantai

### **5.2 Tenneco**

- 5.2.1 Shanghai Tenneco Exhaust System
- 5.2.2 Tenneco Tongtai (Dalian) Exhaust System
- 5.2.3 Tenneco-Eberspaecher (Dalian) Exhaust System

### **5.3 Eberspaecher**

### **5.4 Sango**

- 5.4.1 Arvin sango

### **5.5 Futaba Industrial**

- 5.5.1 Tianjin Shuang Shye Mechanical Industrial
- 5.5.2 Tianjin Futaba Shye Chan Mechanical Industrial

### **5.6 Benteler**

### **5.7 Boysen**

### **5.8. YUTAKA**

- 5.8.1 Chongqing Jin Feng Mechanical
- 5.8.2 Wuhan Jin Feng Mechanical
- 5.8.3 Foshan Fengfu Auto Parts
- 5.8.4 Foshan Yutaka Auto Parts

### **5.9 Sejong Industrial**

- 5.9.1 Beijing Sejong Automobile Fittings
- 5.9.2 Yancheng Sejong Automobile Fittings

### **5.10 Baoding Yima Motor Vehicle Fitting**

### **5.11 Chongqing HITER Environmental Protection Group**

### **5.12 Katcon (Shanghai) Emission Control System**

### **5.13 BOSAL**

## **6. CERAMIC MONOLITH AND DPF MANUFACTURERS**

## 6.1 NGK

### 6.1.1 NGK Ceramics Suzhou

## 6.2 Corning

### 6.2.1 Corning Shanghai

## 6.3 IBIDEN

# 7. CATALYST MANUFACTURERS

## 7.1 Automotive Exhaust System Catalyst Industry

## 7.2 Johnson Matthey

## 7.2 Umicore

## 7.4 BASF

## 7.5 Cataler

## 7.6 Kunming Sino-Platinum Metals Catalyst

## 7.7 Wuxi Weifu Lida Catalytic Converter

## Selected Charts

### SELECTED CHARTS

Global Automobile Sales Volume, 2010-2015  
Output of Global Light-duty Vehicles by Region, 2003-2015  
China's Automobile Sales Volume, 2005-2015  
YoY Growth of China's Annual Auto Production by Type, 2008-2015  
Monthly Sales Volume of Passenger Vehicles in China, 2011-2014  
Monthly Sales Volume of Commercial Vehicles in China, 2011-2014  
Sales Volume of Passenger Vehicles in China, 2006-2014  
Sales Volume of Commercial Vehicles in China, 2006-2014  
BYD's Monthly Sales Volume, 2011-2014  
Great Wall's Monthly Sales Volume, 2011-2014  
Geely's Monthly Sales Volume, 2011-2014  
GAC's Monthly Sales Volume of Passenger Vehicles, 2011-2014  
DFG's Monthly Sales Volume of Passenger Vehicles, 2011-2014  
CNHTC's Monthly Sales Volume, 2012-2014  
BMW Brilliance's Monthly Sales Volume, 2011-2014  
Exhaust System of Diesel Engine  
Exhaust System of BMW M3  
Exhaust System Structure of Gasoline Engine  
Structure of Three-way Catalyst  
Tenneco's EGR System  
Bosch's SCR System  
Tenneco's SCR System  
HDD Emission Technological Trend  
Global Automotive Exhaust System Market Size, 2008-2016E  
Automotive Exhaust System Market by Type, 2025E  
Average Price for Exhaust System of Gasoline Engine and Diesel Engine, 2009 vs. 2014  
Exhaust System Market Size of Passenger Vehicles, 2009 vs. 2014  
Exhaust System Market Size of Commercial Vehicles, 2009 vs. 2014  
Automotive Exhaust System Market Size in China, 2009-2015  
ASP of Automotive Exhaust System in China, 2009-2015  
Diesel Engine Exhaust System Market Size in China, 2010-2015  
Ranking of Major Global Automotive Exhaust System Manufacturers by Revenue, 2013-2014  
Supply Proportion of FORD's Exhaust System Suppliers, 2014

Supply Proportion of GM's Exhaust System Suppliers, 2014  
Supply Proportion of VW's Exhaust System Suppliers, 2014  
Supply Proportion of TOYOTA's Exhaust System Suppliers, 2014  
Supply Proportion of RENAULT-NISSAN's Exhaust System Suppliers, 2014  
Supply Proportion of BMW's Exhaust System Suppliers, 2014  
Supply Proportion of BENZ's Exhaust System Suppliers, 2014  
Supply Proportion of Hyundai's Exhaust System Suppliers, 2014  
Sales Value of Major Exhaust System Manufacturers in China, 2010-2014  
Market Share of Major Automotive Exhaust System Manufacturers in China, 2014  
Three-Way Catalyst, Substrate, Catalyst Supply Relationship of Major Chinese Sedan Manufacturers  
Global FECT Distribution  
Faurecia's Revenue and Operating Margin, 2005-2014  
Faurecia's Revenue by Client, 2010  
Faurecia's Revenue by Client, 2011  
Faurecia's Revenue by Client, 2012  
Faurecia's Revenue by Client, 2014  
Faurecia's Revenue by Product, 2009-2014  
Supported Products of Faurecia's Exhaust System, 2015  
Faurecia's Revenue by Region, 2012-2014  
Faurecia's Revenue in China by Business, 2014  
Faurecia's Revenue in China by Client, 2009  
FECT's Revenue in China, 2010-2014  
FECT's Capacity in China, 2014  
FECT's Market share in China, 2013  
FECT in China by Client, 2014-2018E  
FECT in China by Factory, 2014-2018E  
FECT's Roadmap in China, 2014-2018E  
Financial Data of Faurecia (Changchun) Exhaust System, 2010-2013  
Financial Data of Faurecia (Chengdu) and Faurecia (Foshan) Exhaust Control Technology, 2013  
Tenneco's Revenue and EBIT Margin, 2005-2015  
Tenneco's Net Debt, 2000-2014  
Tenneco's Revenue by Business, 2009-2014  
Tenneco's Revenue by Channel, 2009-2014  
Tenneco's Revenue by Region, 2009-2014  
Tenneco's EBIT by Region, 2009-2014  
Tenneco's Top 20 Clients, 2011  
Tenneco's Top 20 Clients, 2012



Proportion of Tenneco's Top 20 Clients, 2014  
Tenneco's Main Platform, 2014  
Tenneco's Commercial Truck and Off-Highway Diesel Aftertreatment Customers  
Tenneco's Technology Roadmap, 2012-2019  
Supported Products of Tenneco's Exhaust System, 2015  
Eberspaecher's Revenue and Net Income, 2006-2014  
Eberspaecher's R&D, Number of Employees, and Labor Costs, 2006-2013  
Eberspaecher's Revenue by Region, 2010-2014  
Supported Products of Eberspaecher's Exhaust System, 2015  
Sango's Number of Employees and Revenue, FY2000-FY2015  
Sango's Revenue by Product, FY2011-FY2014  
Arvinsango's Revenue, 1998-2010  
Futaba Industrial's Revenue and Operating Margin, FY2007-FY2015  
Futaba Industrial's Quarterly Revenue and Operating Margin, 2013Q1-2014Q4  
Futaba Industrial's Revenue by Region, FY2010-FY2015  
Futaba Industrial's Operating Income by Region, FY2011-FY2015  
Futaba Industrial's Revenue by Client, FY2011-FY2014  
Futaba Industrial's Revenue by Business, FY2012-FY2014  
Benteler's Revenue and Operating Income, 2012-2013  
Benteler's Revenue by Region, 2010  
Supported Products of Benteler's Catalytic Converters, 2015  
Boysen's Revenue, 2008-2014  
Yutaka's Revenue and Operating Margin, FY2009-FY2015  
Yutaka's Revenue by Region, FY2010-FY2014  
Sejong Industrial's Revenue and Operating Margin, 2009-2014  
Sejong Industrial's Client Distribution, 2014  
Sejong Industrial's Overseas Revenue by Region, 2014  
Global Presence of Sejong Industrial  
NGK's Revenue and Operating Margin, FY2007-FY2015  
NGK's Revenue by Segment, FY2007-FY2015  
Revenue of NGK's Ceramics Segment by Product, FY2012-FY2015  
Revenue and Operating Margin of NGK's Ceramics Segment, FY2008-FY2015  
Corning's Revenue and Gross Margin, 2006-2013  
Corning's Revenue by Business, 2011-2014  
Revenue and Net Income of Corning's Environmental Technologies Segment, 2005-2014  
Ibiden's Revenue and Operating Margin, FY2006-FY2015  
Ibiden's Revenue by Business, FY2006-FY2015  
Ibiden's Quarterly Revenue by Business, 2012Q2-2014Q2

Ibiden's Quarterly Operating Income by Business, 2012Q2-2014Q2  
Ibiden's CAPEX and Depreciation, FY2010-FY2015  
Revenue of Ibiden's Ceramic Segment by Product, FY2010-FY2015  
DPF's Market Size, 2010-2015  
Overview of Automotive Catalyst  
Business Model of Automotive Catalyst Manufacturer  
Cost Structure of Three-way Catalyst  
Market Shares of Major Global Automotive Catalyst Manufacturers, 2013-2014  
Johnson Matthey's Revenue and Operating Income, FY2009-FY2015  
Johnson Matthey's Revenue by Segment, FY2014  
Johnson Matthey's Sales by Destination, FY2014  
Johnson Matthey's Structure  
Revenue and Operating Income of Johnson Matthey's Environmental Technologies Segment, FY2009-FY2015  
Revenue of Johnson Matthey's Environmental Technologies Segment (Excluding Precious Metals), FY2009-FY2015  
Revenue of Johnson Matthey's Environmental Technologies Segment by Business, FY2012  
Revenue of Johnson Matthey's Environmental Technologies Segment by Business, FY2013  
Revenue of Johnson Matthey's Environmental Technologies Segment by Business, FY2014  
Revenue of Johnson Matthey's Environmental Technologies Segment by Region, FY2014  
Johnson Matthey's Global Market Position in LDV Catalyst  
Umicore's Organizational Structure  
Umicore's Revenue and EBIT Margin, 2005-2014  
Umicore's Revenue (Excluding from Metal) by Business, 2013-2014  
Umicore's EBIT by Business, 2013-2014  
Umicore's Catalyst Revenue and EBITDA, 2008-2014  
Global Presence of Umicore's Automotive Catalyst Business  
Organizational Structure of Umicore in China  
Presence of Umicore in China  
Revenue of Umicore by Product in China  
Revenue of BASF's Transportation Catalyst, 2009-2014  
Revenue of BASF's Moving Catalyst by Region, 2011  
Global Presence of BASF's Automotive Catalyst Business  
Global R&D Platforms of BASF's Automotive Catalyst Business  
Cataler's Revenue, FY2002-FY2014

Assets and Liabilities of Wuxi Weifu Lida Catalytic Converter, 2010-2014  
Revenue and Net Income of Wuxi Weifu Lida Catalytic Converter, 2005-2014

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