

Global CFD in Automotive Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global CFD in Automotive market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Computational Fluid Dynamics (CFD) is a software application that helps end-users analyze the flow, turbulence, and pressure distribution of liquids and gases and their interaction with structures. It helps in predicting fluid flow, mass transfer, chemical reactions, and related phenomena.

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

The Global Info Research report includes an overview of the development of the CFD in Automotive industry chain, the market status of Passenger Cars (Gases, Liquids), Commercial Vehicles (Gases, Liquids), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications

and market trends of CFD in Automotive.

Regionally, the report analyzes the CFD in Automotive markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global CFD in Automotive market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the CFD in Automotive market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the CFD in Automotive industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Gases, Liquids).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the CFD in Automotive market.

Regional Analysis: The report involves examining the CFD in Automotive market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the CFD in Automotive market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to CFD in Automotive:

Company Analysis: Report covers individual CFD in Automotive players, suppliers, and

other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards CFD in Automotive. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Passanger Cars, Commercial Vehicles).

Technology Analysis: Report covers specific technologies relevant to CFD in Automotive. It assesses the current state, advancements, and potential future developments in CFD in Automotive areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the CFD in Automotive market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

CFD in Automotive market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Gases

Liquids

Market segment by Application

Passanger Cars

Commercial Vehicles

Market segment by players, this report covers

Ansys

CD Adapco Group

Mentor Graphics

AspenTech

Bentley Systems

Autodesk

COMSOL

Dassault Syst?mes

ESI Group

EXA

Flow Science

Numeca International

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe CFD in Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CFD in Automotive, with revenue, gross margin and global market share of CFD in Automotive from 2019 to 2024.

Chapter 3, the CFD in Automotive competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and CFD in Automotive market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of CFD in Automotive.

Chapter 13, to describe CFD in Automotive research findings and conclusion.

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