

# Global Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD) market size was valued at USD 1514.6 million in 2023 and is forecast to a readjusted size of USD 3052 million by 2030 with a CAGR of 10.5% during review period.

CFD is a software application that helps end-users analyse the flow, turbulence, and pressure distribution of liquids and gases, and their interaction with structures. It also helps in predicting fluid flow, mass transfer, chemical reactions, and related phenomena. CFD uses high-speed computers, and various numerical methods and solvers to simulate the flow of fluids (gases and liquids). Simulation refers to the digital prototype of the real-world scenario. This helps detect errors in design before proceeding to production. CFD finds wide ranging applications in industries such as automotive, aerospace and defence, electrical and electronics, and energy. CFDs are used to design fuel systems, engine core compartments, cockpit and cabin ventilation, missiles, submarines, and evaluate aerodynamics in the aerospace and defence industry. This report considers the revenue generated from the offerings of CFD services and products.

Global CFD key players include ANSYS, Siemens, Dassault Syst?mes, PTC, Altair Engineering, etc. Global top five manufacturers hold a share about 70%. North America is the largest market, with a share about 32%, followed by Europe and Asia-Pacific, both have a share over 58 percent. In terms of product, Maintenance and Service is the largest segment, with a share over 50%. And in terms of application, the largest application is Aerospace & Defense, followed by Automotive Industry, etc.

The Global Info Research report includes an overview of the development of the Computational Fluid Dynamics (CFD) industry chain, the market status of Aerospace and Defense (Software Subscription, Maintenance and Service), Automotive Industry (Software Subscription, Maintenance and Service), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Computational Fluid Dynamics (CFD).

Regionally, the report analyzes the Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD) 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., Software Subscription, Maintenance and Service).

**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 Computational Fluid Dynamics (CFD) market.

**Regional Analysis:** The report involves examining the Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD) market. This

may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Computational Fluid Dynamics (CFD):

**Company Analysis:** Report covers individual Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Aerospace and Defense, Automotive Industry).

**Technology Analysis:** Report covers specific technologies relevant to Computational Fluid Dynamics (CFD). It assesses the current state, advancements, and potential future developments in Computational Fluid Dynamics (CFD) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Computational Fluid Dynamics (CFD) 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

Computational Fluid Dynamics (CFD) 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

Software Subscription

Maintenance and Service

## Market segment by Application

Aerospace and Defense

Automotive Industry

Electrical and Electronics

Others

## Market segment by players, this report covers

ANSYS

Siemens

Dassault Syst?mes

PTC Inc.

Altair Engineering

NUMECA International

Convergent Science

Hexagon AB

ESI Group

Autodesk

## 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 Computational Fluid Dynamics (CFD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Computational Fluid Dynamics (CFD), with revenue, gross margin and global market share of Computational Fluid Dynamics (CFD) from 2019 to 2024.

Chapter 3, the Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD) 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 Computational Fluid Dynamics (CFD).

Chapter 13, to describe Computational Fluid Dynamics (CFD) research findings and conclusion.

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