

# **Global Computational Fluid Dynamics (CFD) Market 2025 by Company, Regions, Type and Application, Forecast to 2031**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Computational Fluid Dynamics (CFD) market size was valued at US\$ 1863 million in 2024 and is forecast to a readjusted size of USD 3777 million by 2031 with a CAGR of 10.7% 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.

This report is a detailed and comprehensive analysis for global Computational Fluid Dynamics (CFD) market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Computational Fluid Dynamics (CFD) market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Computational Fluid Dynamics (CFD) market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Computational Fluid Dynamics (CFD) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Computational Fluid Dynamics (CFD) market shares of main players, in revenue (\$ Million), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Computational Fluid Dynamics (CFD)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Computational Fluid Dynamics (CFD) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ANSYS, Siemens, Dassault Systèmes, PTC Inc., Altair Engineering, NUMECA International, Convergent Science, Hexagon AB, ESI Group, Autodesk, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### Market segmentation

Computational Fluid Dynamics (CFD) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### 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 and Rest of Asia-Pacific)

South America (Brazil, 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 2020 to 2025.

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 by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

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 2020 to 2025. and Computational Fluid Dynamics (CFD) market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, 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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