

# Global CAE 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 CAE market size was valued at USD 6250.5 million in 2023 and is forecast to a readjusted size of USD 10440 million by 2030 with a CAGR of 7.6% during review period.

Computer-aided engineering (CAE) is the use of computer software to simulate performance in order to improve product designs or assist in the resolution of engineering problems for a wide range of industries. This includes simulation, validation and optimization of products, processes, and manufacturing tools.

The growing penetration of IoT, tablets, and smartphones are expected to boost the CAE market growth. Owing to the growth of IOT, wearable devices, used in the fields of medicine, fitness, transportation, education, entertainment, and gaming, are increasing; paving way for growth of the CAE market. Miniaturization of electronic devices and sensors and persuasive connectivity with lowered costs have immensely contributed to the growth of wearable technology devices.

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

Regionally, the report analyzes the CAE 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 CAE market,

with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the CAE 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 CAE 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., Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD)).

**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 CAE market.

**Regional Analysis:** The report involves examining the CAE 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 CAE market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to CAE:

**Company Analysis:** Report covers individual CAE 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 CAE This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive Industry, Aerospace

and Defense Industry).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the CAE 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

CAE 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

Finite Element Analysis (FEA)

Computational Fluid Dynamics (CFD)

Multibody Dynamics

Optimization & Simulation

#### Market segment by Application

Automotive Industry

Aerospace and Defense Industry

Electrical and Electronics Industry

Others

Market segment by players, this report covers

ANSYS

Dassault Syst?mes

Hexagon

PTC

Siemens PLM Software

Altair

Applied Math Modeling

Ceetron

COMSOL

ESI

Exa

NUMECA

Simerics

Symscape

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 CAE product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the CAE 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 CAE 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 CAE.

Chapter 13, to describe CAE research findings and conclusion.

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