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Computer-Aided Engineering Market Report by Type (Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Multibody Dynamics, Optimization & Simulation), Deployment Type (On-premises, Cloud-based), End-Use Industry (Automotive, Defense & Aerospace, Electronics, Medical Devices, Industrial Equipment, and Others), and Region 2024-2032

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Abstracts

The global computer-aided engineering market size reached US$ 10.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 22.9 Billion by 2032, exhibiting a growth rate (CAGR) of 9.10% during 2024-2032. The growing demand for simulation-based design, rising need to simulate and analyze complex systems, and increasing focus to reduce costs and the need for physical prototypes are some of the major factors propelling the market.

Computer-aided engineering (CAE) is an integral component of modern engineering processes. It comprises a wide range of computer-based tools and techniques that are designed to assist engineers in the design, analysis, and optimization of products and systems. It allows engineers to make informed decisions and predictions. It also enables engineers to virtually test prototypes, assess structural integrity, analyze fluid dynamics, and perform other critical evaluations, which saves time and resources in the product development cycle. As it facilitates the identification of design flaws and performance early in the process, the demand for CAE is increasing worldwide.

At present, the rising adoption of CAE to enhance product quality and reliability is contributing to the growth of the market. In line with this, the increasing employment of CAE, as it optimizes designs, reduces costs, and ensures the overall success of

engineering projects, is strengthening the growth of the market. Moreover, the rising demand for CAE in the automotive sector to enhance safety, reduce emissions, and improve fuel efficiency is bolstering the growth of the market. In addition, the increasing development of eco-friendly products in various sectors is offering lucrative growth opportunities to industry investors. Furthermore, the rising adoption of CAE tools for analyzing battery performance and vehicle aerodynamics is supporting the growth of the market. Apart from this, the increasing focus on automation and data exchange in manufacturing is propelling the growth of the market.

Computer-Aided Engineering Market Trends/Drivers:
Rising need to simulate and analyze complex systems

The rising adoption of CAE due to the increasing complexities in modern products is bolstering the growth of the market. Various industries, such as automobiles, consumer electronics, and industrial machinery, have intricate designs and multiple integrated systems. CAE tools enable engineers to simulate and analyze these complex systems comprehensively. In line with this, it can evaluate factors like structural integrity, thermal performance, and fluid dynamics, that assist in identifying potential design flaws early in the development process. This capability not only saves time but also reduces the likelihood of costly errors and recalls. Additionally, there is an increase in the need to create innovative and differentiated products in several sectors.

Increasing focus to reduce the need for physical prototypes

The rising adoption of CAE due to the increasing focus on reducing the need for physical prototypes is contributing to the growth of the market. In line with this, CAE tools offer significant cost and time savings in product development. Traditionally, physical prototyping and testing consume a lot of time and money. Apart from this, CAE replaces or supplements these processes with virtual simulations that reduce the need for physical prototypes. Engineers can conduct numerous design iterations quickly and inexpensively and optimize product designs for performance and efficiency. In addition, this cost-effectiveness is particularly crucial for industries with tight budgets, such as startups and small-to-medium enterprises.

Growing demand for simulation-based design

The growing demand for simulation-based design across various industries is offering a positive market outlook. It involves using CAE tools to simulate product behavior under various conditions and refine designs based on these simulations. In line with this, it

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allows engineers to predict and address issues before physical prototypes are built that, benefit in improving overall product quality and performance. Apart from this, simulation-based design is especially beneficial in industries where safety and reliability are concerned, such as aerospace and healthcare. By simulating real-world scenarios and stress testing, engineers can ensure that products meet stringent quality and safety standards, which is supporting the growth of the market.

Computer-Aided Engineering Industry Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type, deployment type and end-use industry.

Breakup by Type:

Finite Element Analysis (FEA)
Computational Fluid Dynamics (CFD)
Multibody Dynamics
Optimization & Simulation

Finite element analysis (FEA) represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the type. This includes finite element analysis (FEA), computational fluid dynamics (CFD), multibody dynamics, and optimization and simulation. According to the report, finite element analysis (FEA) represented the largest segment. Finite element analysis (FEA) is a widely used simulation technique in CAE. It involves dividing complex structures or systems into smaller, finite elements or components, and then analyzing the behavior of these elements under different conditions. This method is invaluable for understanding how materials and structures respond to forces, heat, vibrations, and other physical effects. FEA plays a critical role in industries, such as aerospace, automotive, civil engineering, and manufacturing. It enables engineers to simulate real-world scenarios, assess stress distribution, predict failure points, and optimize designs for improved performance and safety.

Breakup by Deployment Type:

On-premises
Cloud-based

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On-premises account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the deployment type. This includes on-premises and cloud-based. According to the report, on-premises represented the largest segment. On-premises deployment refers to the installation and operation of CAE software and infrastructure within the physical data centers or servers of an organization. In this setup, the software and hardware are maintained and managed directly by the information technology (IT) team of an organization. It provides organizations with greater control and customization options over their CAE environment, allowing them to tailor it to their specific needs and security requirements. Additionally, it can be suitable for industries or organizations with strict data privacy and compliance regulations, as they can maintain data within their own controlled environment.

Breakup by End-Use Industry:

Automotive
Defense & Aerospace
Electronics
Medical Devices
Industrial Equipment
Others

Automotive holds the biggest market share

The report has provided a detailed breakup and analysis of the market based on the end-use industry. This includes automotive, defense and aerospace, electronics, medical devices, industrial equipment, and others. According to the report, automotive represented the largest segment. CAE tools are widely used by automotive manufacturers and suppliers for various purposes. It assists in designing and optimizing vehicle components and systems. Engineers use CAE to simulate and analyze factors like structural integrity, crashworthiness, aerodynamics, and thermal performance. These simulations enable them to enhance vehicle safety, reduce weight, improve fuel efficiency, and meet regulatory standards. Moreover, CAE aids in the development of electric and autonomous vehicles. It plays a crucial role in analyzing battery performance, optimizing electric drivetrains, and simulating autonomous driving scenarios.

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Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

North America exhibits a clear dominance, accounting for the largest computer-aided engineering market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

North America held the biggest market share due to the increasing number of CAE software developers and technology companies. Apart from this, the rising development

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of advanced CAE solutions is contributing to the growth of the market in the region. In line with this, the increasing focus on automation in several industries is propelling the growth of the market. Besides this, the rising preference to ensure product quality is bolstering the growth of the market in the North America region.

Competitive Landscape:
Major players are investing in research and development (R&D) activities to enhance their software offerings. They are working on improving user interfaces, adding new features, and optimizing algorithms to make their tools more powerful, user-friendly, and efficient. In addition, many companies are integrating their software with emerging technologies, such as artificial intelligence (AI) and machine learning (ML), to enable predictive modeling, automation of repetitive tasks, and more accurate simulations. Besides this, major manufacturers are focusing more on cloud-based solutions that allow users to access their software and perform simulations from anywhere with an internet connection to offer enhanced scalability and flexibility to users.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Altair Engineering Inc.
Ansys Inc.
Aspen Technology Inc.
Autodesk Inc.
BenQ Asia Pacific Corp.
Bentley Systems Inc.
Casio Computer Co. Ltd.
Dassault Systemes
ESI Group
Exa Corporation
Mentor Graphics Corporation
MSC Software Corporation
NUMECA International
Seiko Epson Corporation
Siemens Digital Industries Software
(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Recent Developments:

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In 2022, Altair, a global leader in computational science and artificial intelligence (AI), acquired Concept Engineering, the leading provider of electronic system visualization software, to accelerate the development, manufacture, and service of complex electrical and electronic systems.
In February 2022, Ansys announced a strategic collaboration with Amazon Web Services, Inc. (AWS), to provide a browser-based, location-independent solution for Ansys customers. It allows customers to manage and advance their complete computer-aided engineering (CAE), advanced electronic design automation (EDA), and computer-aided design (CAD) product development in the cloud by leveraging scale, flexibility, and elasticity.
In July 2023, Siemens digital industries software expanded its strategic collaboration agreement (SCA) with Amazon Web Services (AWS) to focus on helping mutual integrated circuit (IC) and electronics design customers leverage AWS's advanced cloud services to shorten design cycles, optimize engineering resources and boost verification coverage.

Key Questions Answered in This Report

1. What was the size of the global computer-aided engineering market in 2023?
2. What is the expected growth rate of the global computer-aided engineering market during 2024-2032?
3. What are the key factors driving the global computer-aided engineering market?
4. What has been the impact of COVID-19 on the global computer-aided engineering market?
5. What is the breakup of the global computer-aided engineering market based on the type?
6. What is the breakup of the global computer-aided engineering market based on the deployment type?
7. What is the breakup of the global computer-aided engineering market based on the end-use industry?
8. What are the key regions in the global computer-aided engineering market?
9. Who are the key players/companies in the global computer-aided engineering market?

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