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Global Computer Aided Engineering Market by Component (Software (Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Multibody dynamics, Optimization & simulation), Services (Development Service, Training, Support & Maintenance)), By Deployment Mode (On-premises, Cloud), By End User (Automotive, Defense & Aerospace, Electronics, Medical Devices, Industrial equipment, Others), By Region, Competition, 2018-2028

https://marketpublishers.com/r/G02364E36CCFEN.html
Date: November 2023
Pages: 181
Price: US$ 4,900.00 (Single User License)
ID: G02364E36CCFEN

Abstracts

The global computer aided engineering market was valued at USD 8.41 billion by the end of 2022, with a compound annual growth rate (CAGR) of 10.13% during the forecast period. The global Computer-Aided Engineering (CAE) market is a transformative domain that empowers engineers across industries to design, simulate, and optimize complex products and systems. Utilizing advanced simulation and analysis tools, CAE aids in streamlining product development cycles by allowing virtual testing and validation before physical prototypes are created. This market's growth is driven by the increasing demand for efficient product design, cost reduction, and faster time-to-market. With its ability to predict performance, assess structural integrity, and analyze material behavior, CAE significantly enhances engineering efficiency and innovation. Moreover, advancements in cloud computing, artificial intelligence, and high-performance computing further propel the CAE market, enabling more accurate simulations, rapid analysis, and remote collaboration. As industries continue to innovate, the global CAE market remains a vital force in shaping the future of

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engineering practices and technological advancements.

Key Market Drivers

Increasing Product Complexity and Demand for Innovation

The relentless drive for innovation and the growing complexity of products across industries are powerful forces propelling the remarkable growth of the global Computer-Aided Engineering (CAE) market. In today's highly competitive landscape, businesses are under constant pressure to design and develop products that not only meet but exceed customer expectations in terms of performance, safety, and efficiency. This mandate for innovation, coupled with the increasing complexity of products like advanced automobiles, aircraft, electronic devices, and even pharmaceuticals, presents a formidable challenge.

CAE solutions are emerging as a critical enabler of innovation in product design and development. These tools harness the power of simulation, allowing engineers and designers to virtually prototype and test products before physical prototypes are built. This not only saves time and resources but also empowers engineers to explore a broader range of design possibilities. Whether it's optimizing the aerodynamics of an electric vehicle, simulating the behavior of a new drug compound, or ensuring the structural integrity of a complex building, CAE is at the forefront of these endeavors. One of the key drivers in this context is the demand for multifaceted simulation capabilities. As products become more intricate, so do the simulations required to ensure their reliability and performance. CAE tools have evolved to encompass a wide range of physics, from structural and thermal analysis to fluid dynamics, electromagnetics, and even systems-level simulations. This comprehensive simulation capability enables companies to tackle the most intricate and interconnected aspects of their products, fostering innovation and ensuring that products are optimized in terms of performance and safety.

Furthermore, CAE solutions play an integral role in collaboration and communication across design and engineering teams. These tools facilitate a digital twin approach, where a virtual model of a product mirrors its real-world counterpart throughout its lifecycle. This digital twin allows for real-time collaboration, enabling different teams to work cohesively and iterate rapidly, reducing time-to-market and enhancing product quality. As businesses across diverse sectors increasingly recognize the value of CAE in driving innovation and managing product complexity, the global CAE market is poised for sustained growth. These solutions not only accelerate product development but also

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enhance product reliability, thereby delivering tangible competitive advantages. In an era defined by the need for continuous innovation, CAE stands as a transformative technology, empowering organizations to push the boundaries of what's possible in product design and engineering.

Shortening Time-to-Market and Reducing Costs

The relentless pressure to reduce time-to-market while minimizing costs has become a driving force behind the global CAE market's growth. Traditional design and testing methods are time-consuming and expensive, often requiring multiple iterations and physical prototypes. CAE addresses these challenges by enabling engineers to digitally test and refine designs, thereby cutting down on expensive physical iterations. This results in faster product development cycles and substantial cost savings. As industries aim to bring products to market quicker and more cost-effectively, the adoption of CAE software becomes a strategic imperative. The efficiency gains achieved through CAE translate into competitive advantages, enabling companies to respond rapidly to market demands and stay ahead in today's fast-paced business landscape.

Growing Emphasis on Sustainability and Regulatory Compliance

The burgeoning emphasis on sustainability and stringent regulatory compliance is a powerful driving force propelling the remarkable growth of the global Computer-Aided Engineering (CAE) market. In an era marked by increasing environmental concerns and a commitment to reducing the carbon footprint, businesses are under immense pressure to develop sustainable products and processes. Regulatory bodies worldwide are imposing stringent standards to address environmental impact, safety, and quality, necessitating a profound transformation in product design and development. CAE solutions are at the forefront of this transformative journey toward sustainability and regulatory compliance. These tools empower organizations to model and analyze the environmental and performance impact of their products at every stage of the development process. For instance, CAE can simulate the energy efficiency of a building, assess the aerodynamics of an electric vehicle, or optimize the environmental impact of a manufacturing process. This not only enables businesses to meet regulatory requirements but also fosters innovation in sustainable design.

Moreover, CAE plays a pivotal role in ensuring product safety and regulatory compliance across various industries, including automotive, aerospace, pharmaceuticals, and electronics. It enables rigorous testing and validation of products to meet safety standards and quality requirements. For instance, in the pharmaceutical

industry, CAE tools are used to model the behavior of drugs within the human body, ensuring efficacy and safety. The demand for CAE solutions that facilitate sustainability and compliance is further underscored by the rise of circular economy practices, where products are designed with reuse, recycling, and environmental impact in mind. CAE supports the evaluation of a product's entire lifecycle, aiding in eco-design and minimizing waste.

As organizations increasingly recognize the imperative of sustainability and regulatory compliance, the global CAE market is witnessing substantial growth. These solutions not only enhance product design and performance but also contribute to a more responsible and eco-conscious approach to business. CAE is pivotal in helping companies navigate the complex landscape of regulations while fostering innovation in sustainable, environmentally friendly products and processes, ensuring a more environmentally responsible future.

Advancements in Cloud Computing and High-Performance Computing

Advancements in cloud computing and high-performance computing (HPC) are pivotal drivers propelling the global CAE market forward. Cloud-based CAE solutions offer benefits such as remote collaboration, scalable resources, and reduced hardware costs. Engineers can access simulations from anywhere, enabling global teams to collaborate seamlessly on projects. Furthermore, HPC accelerates the computational speed of simulations, enabling complex analyses to be completed in a fraction of the time. This not only enhances engineering productivity but also allows engineers to explore a broader range of design alternatives. The convergence of cloud computing and HPC enhances the accessibility, scalability, and efficiency of CAE software, positioning it as a cornerstone of modern engineering practices in an increasingly connected and technologically advanced world.

Key Market Challenges

Complexity of Integration and Interoperability

Amid the rapid evolution of the global Computer-Aided Engineering (CAE) market, one of the most significant challenges is the complexity of integrating and ensuring interoperability among diverse CAE tools and software platforms. As the range of CAE solutions expands to accommodate various disciplines, industries, and stages of product development, engineers often find themselves working with a mix of specialized software. This diversity can hinder seamless data exchange and collaboration, resulting

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in compatibility issues, data loss, and fragmented workflows. Engineers must navigate complex integrations, manage data translation between different tools, and ensure that each piece of software aligns with the overall design process. Overcoming this challenge requires standardization efforts, open data formats, and collaborative platforms that facilitate the smooth exchange of data between different CAE tools. The industry's ability to address these integration and interoperability hurdles will determine the efficiency and effectiveness of CAE practices in the future.

High Computational Demands and Scalability

The global CAE market is grappling with the challenge of managing high computational demands and achieving scalability as simulations become more complex and data-intensive. As industries increasingly rely on CAE for comprehensive product analysis and optimization, simulations require substantial computing power to deliver accurate results in a reasonable timeframe. Complex simulations, such as those involving fluid dynamics, structural analysis, or multi-physics interactions, demand significant computational resources. However, procuring and maintaining the required hardware infrastructure can be expensive and resource intensive. Furthermore, the need for scalability poses a challenge as project sizes vary and computational demands fluctuate. Cloud-based solutions offer a potential answer by providing on-demand access to scalable computing resources, but security concerns, data privacy, and latency issues may hinder widespread adoption. Addressing these challenges requires a delicate balance between computational capacity, cost-effectiveness, and scalability, while also embracing emerging technologies like parallel processing, high-performance computing, and distributed computing to handle increasingly intricate simulations.

Key Market Trends

Integration of Artificial Intelligence and Machine Learning

The global Computer-Aided Engineering (CAE) market is experiencing a transformative shift driven by the integration of artificial intelligence (AI) and machine learning (ML) technologies. These cutting-edge capabilities are revolutionizing the way engineers interact with CAE software, enabling more efficient simulations and analyses. AI and ML algorithms can automatically optimize designs, predict performance outcomes, and identify trends in large datasets, allowing engineers to focus their expertise on critical decision-making rather than manual processes. Furthermore, AI-driven generative design empowers engineers to explore a multitude of design possibilities, enhancing innovation and creativity. As AI and ML continue to evolve, the CAE market is

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witnessing a trend towards intelligent software that adapts, learns, and assists engineers in making informed design choices, ultimately streamlining workflows, and driving productivity.

Simulation-Driven Product Lifecycle Management (PLM)

Simulation-driven Product Lifecycle Management (PLM) is a prominent trend reshaping the global CAE market. Traditionally, CAE tools were utilized primarily in the design phase; however, they are increasingly being integrated across the entire product lifecycle. Simulation-driven PLM involves using CAE to guide decision-making at every stage, from conceptualization and design to manufacturing, testing, and maintenance. This trend fosters collaboration between engineering and other departments, resulting in products that are optimized for performance, cost, and reliability. By incorporating CAE insights into PLM processes, companies can minimize design iterations, reduce physical prototypes, and ensure products meet desired specifications throughout their lifecycle. As industries seek more comprehensive and efficient approaches to product development, simulation-driven PLM emerges as a strategic trend that enhances collaboration, accelerates innovation, and maximizes product value.

Democratization of Simulation and Cloud-Based Solutions

The democratization of simulation tools and the rise of cloud-based solutions are reshaping the global CAE market by expanding accessibility and collaboration. Traditionally, complex CAE tools were confined to specialized engineering teams due to their technical complexity and resource requirements. However, the trend of democratization aims to make CAE tools more accessible to a wider range of users, including designers, analysts, and even non-engineering stakeholders. This is achieved through user-friendly interfaces, simplified workflows, and automation features. Additionally, cloud-based CAE solutions are gaining traction due to their scalability, reduced hardware requirements, and remote collaboration capabilities. Engineers can access simulations and collaborate on projects from anywhere, breaking down geographical barriers and enabling global teams to work seamlessly. The democratization of simulation and cloud-based solutions aligns with the modern trend towards inclusivity, enabling a broader range of professionals to contribute to product development and innovation.

Segmental Insights

Deployment Mode Insights

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Based on deployment mode, the on-premises segment emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. The on-premises deployment mode entails housing CAE software and infrastructure within an organization's premises, offering greater control over data security and customization. This dominance can be attributed to industries' sensitivity to data privacy and their preference for maintaining critical engineering data within their infrastructure. As engineering simulations become increasingly integral to product development across sectors, the on-premises deployment mode continues to resonate as a reliable and secure choice. Its steadfast influence underscores the significance of localized control and tailored solutions in the evolving landscape of CAE adoption, shaping the trajectory of the market's deployment trends with enduring authority.

End User Insights

Based on end user, the automotive segment emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. The automotive industry's reliance on CAE tools for designing, simulating, and optimizing various aspects of vehicles is unparalleled. From structural integrity and crash simulations to aerodynamics and fuel efficiency analyses, CAE plays a pivotal role in enhancing vehicle performance, safety, and innovation. As the automotive sector continues to evolve with advancements in electric and autonomous vehicles, the demand for sophisticated CAE solutions escalates. This segment's robust dominance reflects its unwavering commitment to engineering excellence and its instrumental role in steering the global CAE market's trajectory towards the future of automotive innovation.

Regional Insights

North America firmly establishes itself as a commanding presence within the global Computer Aided Engineering market, affirming its preeminent position, and highlighting its pivotal role in shaping the industry's course. With a robust blend of technological innovation, thriving industries, and a culture of engineering excellence, North America has emerged as a powerhouse of CAE adoption and innovation. The region's commitment to pushing the boundaries of product design, simulation, and analysis aligns seamlessly with the capabilities offered by CAE tools. As North America continues to drive advancements in aerospace, automotive, manufacturing, and other sectors, the demand for cutting-edge CAE solutions intensifies. The region's influence is further accentuated by its contribution to technological research and development,

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fostering a climate of innovation that resonates globally. This commanding presence solidifies North America's stature as a dominant force in the CAE market, steering the course of the industry's evolution and shaping the future of engineering practices on a global scale.

Key Market Players

Autodesk Inc.

Siemens AG

SolidCAM Ltd.

CNC Software, LLC.

Hexagon AB

3D Systems, Inc.

HCL Technologies Limited

NTT DATA Corporation

OPEN MIND Technologies AG

BobCAD-CAM

Report Scope:

In this report, the global computer aided engineering market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Computer Aided Engineering Market, By Component:

Software

Finite Element Analysis (FEA)

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Computational Fluid Dynamics (CFD)

Multibody Dynamics

Optimization & Simulation

Services

Development Service

Training, Support & Maintenance

Global Computer Aided Engineering Market, By Deployment Mode:

On-premises

Cloud

Global Computer Aided Engineering Market, By End User:

Automotive

Defense & aerospace

Electronics

Medical Devices

Industrial Equipment

Others

Global Computer Aided Engineering Market, By Region:

North America

Europe

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South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Computer Aided Engineering Market.

Available Customizations:

Global Computer Aided Engineering market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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Contents

1. SERVICE OVERVIEW

1.1. Market Definition
1.2. Scope of the Market
  1.2.1. Markets Covered
  1.2.2. Years Considered for Study
  1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

2.1. Objective of the Study
2.2. Baseline Methodology
2.3. Key Industry Partners
2.4. Major Association and Secondary Sources
2.5. Forecasting Methodology
2.6. Data Triangulation & Validation
2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL COMPUTER AIDED ENGINEERING MARKET

5. VOICE OF CUSTOMER

6. GLOBAL COMPUTER AIDED ENGINEERING MARKET OVERVIEW

7. GLOBAL COMPUTER AIDED ENGINEERING MARKET OUTLOOK

7.1. Market Size & Forecast
  7.1.1. By Value
7.2. Market Share & Forecast
  7.2.1. By Component (Software, Services)
    7.2.1.1. By Software (Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Multibody dynamics, Optimization & simulation)
    7.2.1.2. By Services (Development Service, Training, Support & Maintenance)
  7.2.2. By Deployment Mode (On-premise, Cloud)

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7.2.3. By End User (Automotive, Defense & Aerospace, Electronics, Medical Devices, Industrial equipment, Others)
7.2.4. By Region
7.3. By Company (2022)
7.4. Market Map

8. NORTH AMERICA COMPUTER AIDED ENGINEERING MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Component
8.2.1.1. By Software
8.2.1.2. By Services
8.2.2. By Deployment Mode
8.2.3. By End User
8.2.4. By Country
8.3. North America: Country Analysis
8.3.1. United States Computer Aided Engineering Market Outlook
8.3.1.1. Market Size & Forecast
8.3.1.1.1. By Value
8.3.1.2. Market Share & Forecast
8.3.1.2.1. By Component
8.3.1.2.1.1. By Software
8.3.1.2.1.2. By Services
8.3.1.2.2. By Deployment Mode
8.3.1.2.3. By End User
8.3.2. Canada Computer Aided Engineering Market Outlook
8.3.2.1. Market Size & Forecast
8.3.2.1.1. By Value
8.3.2.2. Market Share & Forecast
8.3.2.2.1. By Component
8.3.2.2.1.1. By Software
8.3.2.2.1.2. By Services
8.3.2.2.2. By Deployment Mode
8.3.2.2.3. By End User
8.3.3. Mexico Computer Aided Engineering Market Outlook
8.3.3.1. Market Size & Forecast
8.3.3.1.1. By Value

+44 20 8123 2220
info@marketpublishers.com

8.3.3.2. Market Share & Forecast
8.3.3.2.1. By Component
8.3.3.2.1.1. By Software
8.3.3.2.1.2. By Services
8.3.3.2.2. By Deployment Mode
8.3.3.2.3. By End User

9. EUROPE COMPUTER AIDED ENGINEERING MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Component
9.2.1.1. By Software
9.2.1.2. By Services
9.2.2. By Deployment Mode
9.2.3. By End User
9.2.4. By Country
9.3. Europe: Country Analysis
9.3.1. Germany Computer Aided Engineering Market Outlook
9.3.1.1. Market Size & Forecast
9.3.1.1.1. By Value
9.3.1.2. Market Share & Forecast
9.3.1.2.1. By Component
9.3.1.2.1.1. By Software
9.3.1.2.1.2. By Services
9.3.1.2.2. By Deployment Mode
9.3.1.2.3. By End User
9.3.2. United Kingdom Computer Aided Engineering Market Outlook
9.3.2.1. Market Size & Forecast
9.3.2.1.1. By Value
9.3.2.2. Market Share & Forecast
9.3.2.2.1. By Component
9.3.2.2.1.1. By Software
9.3.2.2.1.2. By Services
9.3.2.2.2. By Deployment Mode
9.3.2.2.3. By End User
9.3.3. France Computer Aided Engineering Market Outlook
9.3.3.1. Market Size & Forecast

+44 20 8123 2220
info@marketpublishers.com

9.3.3.1.1. By Value
9.3.3.2. Market Share & Forecast
9.3.3.2.1. By Component
9.3.3.2.1.1. By Software
9.3.3.2.1.2. By Services
9.3.3.2.2. By Deployment Mode
9.3.3.2.3. By End User
9.3.4. Spain Computer Aided Engineering Market Outlook
9.3.4.1. Market Size & Forecast
9.3.4.1.1. By Value
9.3.4.2. Market Share & Forecast
9.3.4.2.1. By Component
9.3.4.2.1.1. By Software
9.3.4.2.1.2. By Services
9.3.4.2.2. By Deployment Mode
9.3.4.2.3. By End User
9.3.5. Italy Computer Aided Engineering Market Outlook
9.3.5.1. Market Size & Forecast
9.3.5.1.1. By Value
9.3.5.2. Market Share & Forecast
9.3.5.2.1. By Component
9.3.5.2.1.1. By Software
9.3.5.2.1.2. By Services
9.3.5.2.2. By Deployment Mode
9.3.5.2.3. By End User

10. SOUTH AMERICA COMPUTER AIDED ENGINEERING MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Component
10.2.1.1. By Software
10.2.1.2. By Services
10.2.2. By Deployment Mode
10.2.3. By End User
10.2.4. By Country
10.3. South America: Country Analysis
10.3.1. Brazil Computer Aided Engineering Market Outlook

+44 20 8123 2220
info@marketpublishers.com

10.3.1.1. Market Size & Forecast
10.3.1.1.1. By Value
10.3.1.2. Market Share & Forecast
10.3.1.2.1. By Component
10.3.1.2.1.1. By Software
10.3.1.2.1.2. By Services
10.3.1.2.2. By Deployment Mode
10.3.1.2.3. By End User
10.3.2. Argentina Computer Aided Engineering Market Outlook
10.3.2.1. Market Size & Forecast
10.3.2.1.1. By Value
10.3.2.2. Market Share & Forecast
10.3.2.2.1. By Component
10.3.2.2.1.1. By Software
10.3.2.2.1.2. By Services
10.3.2.2.2. By Deployment Mode
10.3.2.2.3. By End User
10.3.3. Colombia Computer Aided Engineering Market Outlook
10.3.3.1. Market Size & Forecast
10.3.3.1.1. By Value
10.3.3.2. Market Share & Forecast
10.3.3.2.1. By Component
10.3.3.2.1.1. By Software
10.3.3.2.1.2. By Services
10.3.3.2.2. By Deployment Mode
10.3.3.2.3. By End User

11. MIDDLE EAST & AFRICA COMPUTER AIDED ENGINEERING MARKET OUTLOOK

11.1. Market Size & Forecast
11.1.1. By Value
11.2. Market Share & Forecast
11.2.1. By Component
11.2.1.1. By Software
11.2.1.2. By Services
11.2.2. By Deployment Mode
11.2.3. By End User
11.2.4. By Country

+44 20 8123 2220
info@marketpublishers.com

11.3. Middle East & America: Country Analysis
11.3.1. Israel Computer Aided Engineering Market Outlook
11.3.1.1. Market Size & Forecast
11.3.1.1.1. By Value
11.3.1.2. Market Share & Forecast
11.3.1.2.1. By Component
11.3.1.2.1.1. By Software
11.3.1.2.1.2. By Services
11.3.1.2.2. By Deployment Mode
11.3.1.2.3. By End User
11.3.2. Qatar Computer Aided Engineering Market Outlook
11.3.2.1. Market Size & Forecast
11.3.2.1.1. By Value
11.3.2.2. Market Share & Forecast
11.3.2.2.1. By Component
11.3.2.2.1.1. By Software
11.3.2.2.1.2. By Services
11.3.2.2.2. By Deployment Mode
11.3.2.2.3. By End User
11.3.3. UAE Computer Aided Engineering Market Outlook
11.3.3.1. Market Size & Forecast
11.3.3.1.1. By Value
11.3.3.2. Market Share & Forecast
11.3.3.2.1. By Component
11.3.3.2.1.1. By Software
11.3.3.2.1.2. By Services
11.3.3.2.2. By Deployment Mode
11.3.3.2.3. By End User
11.3.4. Saudi Arabia Computer Aided Engineering Market Outlook
11.3.4.1. Market Size & Forecast
11.3.4.1.1. By Value
11.3.4.2. Market Share & Forecast
11.3.4.2.1. By Component
11.3.4.2.1.1. By Software
11.3.4.2.1.2. By Services
11.3.4.2.2. By Deployment Mode
11.3.4.2.3. By End User

12. ASIA PACIFIC COMPUTER AIDED ENGINEERING MARKET OUTLOOK

+44 20 8123 2220
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12.1. Market Size & Forecast
12.1.1. By Value
12.2. Market Share & Forecast
12.2.1. By Component
12.2.1.1. By Software
12.2.1.2. By Services
12.2.2. By Deployment Mode
12.2.3. By End User
12.2.4. By Country
12.3. Asia Pacific: Country Analysis
12.3.1. China Computer Aided Engineering Market Outlook
12.3.1.1. Market Size & Forecast
12.3.1.1.1. By Value
12.3.1.2. Market Share & Forecast
12.3.1.2.1. By Component
12.3.1.2.1.1. By Software
12.3.1.2.1.2. By Services
12.3.1.2.2. By Deployment Mode
12.3.1.2.3. By End User
12.3.2. Japan Computer Aided Engineering Market Outlook
12.3.2.1. Market Size & Forecast
12.3.2.1.1. By Value
12.3.2.2. Market Share & Forecast
12.3.2.2.1. By Component
12.3.2.2.1.1. By Software
12.3.2.2.1.2. By Services
12.3.2.2.2. By Deployment Mode
12.3.2.2.3. By End User
12.3.3. South Korea Computer Aided Engineering Market Outlook
12.3.3.1. Market Size & Forecast
12.3.3.1.1. By Value
12.3.3.2. Market Share & Forecast
12.3.3.2.1. By Component
12.3.3.2.1.1. By Software
12.3.3.2.1.2. By Services
12.3.3.2.2. By Deployment Mode
12.3.3.2.3. By End User
12.3.4. India Computer Aided Engineering Market Outlook

+44 20 8123 2220
info@marketpublishers.com

12.3.4.1. Market Size & Forecast
12.3.4.1.1. By Value
12.3.4.2. Market Share & Forecast
12.3.4.2.1. By Component
12.3.4.2.1.1. By Software
12.3.4.2.1.2. By Services
12.3.4.2.2. By Deployment Mode
12.3.4.2.3. By End User
12.3.5. Australia Computer Aided Engineering Market Outlook
12.3.5.1. Market Size & Forecast
12.3.5.1.1. By Value
12.3.5.2. Market Share & Forecast
12.3.5.2.1. By Component
12.3.5.2.1.1. By Software
12.3.5.2.1.2. By Services
12.3.5.2.2. By Deployment Mode
12.3.5.2.3. By End User

13. MARKET DYNAMICS

13.1. Drivers
13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Autodesk Inc.
15.1.1. Business Overview
15.1.2. Key Financials & Revenue
15.1.3. Key Contact Person
15.1.4. Headquarters Address
15.1.5. Key Product/Service Offered
15.2. Siemens AG
15.2.1. Business Overview
15.2.2. Key Financials & Revenue
15.2.3. Key Contact Person
15.2.4. Headquarters Address
15.2.5. Key Product/Service Offered

+44 20 8123 2220
info@marketpublishers.com

15.3. SolidCAM Ltd.
15.3.1. Business Overview
15.3.2. Key Financials & Revenue
15.3.3. Key Contact Person
15.3.4. Headquarters Address
15.3.5. Key Product/Service Offered
15.4. CNC Software, LLC.
15.4.1. Business Overview
15.4.2. Key Financials & Revenue
15.4.3. Key Contact Person
15.4.4. Headquarters Address
15.4.5. Key Product/Service Offered
15.5. Hexagon AB
15.5.1. Business Overview
15.5.2. Key Financials & Revenue
15.5.3. Key Contact Person
15.5.4. Headquarters Address
15.5.5. Key Product/Service Offered
15.6. 3D Systems, Inc.
15.6.1. Business Overview
15.6.2. Key Financials & Revenue
15.6.3. Key Contact Person
15.6.4. Headquarters Address
15.6.5. Key Product/Service Offered
15.7. HCL Technologies Limited
15.7.1. Business Overview
15.7.2. Key Financials & Revenue
15.7.3. Key Contact Person
15.7.4. Headquarters Address
15.7.5. Key Product/Service Offered
15.8. NTT DATA Corporation
15.8.1. Business Overview
15.8.2. Key Financials & Revenue
15.8.3. Key Contact Person
15.8.4. Headquarters Address
15.8.5. Key Product/Service Offered
15.9. OPEN MIND Technologies AG
15.9.1. Business Overview
15.9.2. Key Financials & Revenue

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15.9.3. Key Contact Person
15.9.4. Headquarters Address
15.9.5. Key Product/Service Offered
15.10. BobCAD-CAM
15.10.1. Business Overview
15.10.2. Key Financials & Revenue
15.10.3. Key Contact Person
15.10.4. Headquarters Address
15.10.5. Key Product/Service Offered

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