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Global Engineering Software Market Size Study, by Component (Software, Services), by Deployment (Cloud, On-Premises), by Application (Design Automation, Product Design & Testing, Plant Design, Drafting & 3D Modeling, Others), by End Use (Automotive, Aerospace & Defense, Electronics, Medical Devices, Architecture, Engineering and Construction (AEC), Others), and Regional Forecasts 2022-2032

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Abstracts

The global engineering software market was valued at approximately USD 35.77 billion in 2023 and is projected to grow with a robust CAGR of 20.3% during the forecast period of 2024-2032. The industry is witnessing significant transformations driven by rapid digitalization and the increasing adoption of advanced technologies such as digital twins, 3D printing, and cloud computing. The engineering software market enables businesses to streamline operations, enhance design precision, and optimize processes, thus playing a pivotal role across industries such as automotive, aerospace, and construction.

The adoption of digital twin technology is a critical driver of this market, as industries increasingly rely on virtual replicas of physical systems to simulate, monitor, and optimize operations. Furthermore, the surge in demand for cloud-based solutions is reshaping the market landscape, allowing for real-time collaboration and enhanced scalability. These trends are particularly beneficial for small and medium-sized enterprises (SMEs) aiming to reduce operational costs while improving efficiency.

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The engineering software industry is also benefiting from the rise of 3D printing and additive manufacturing technologies. These technologies rely on advanced engineering software for designing intricate models and optimizing performance under various scenarios. Governments worldwide are supporting infrastructure modernization initiatives and smart city projects, further driving demand for advanced software solutions tailored to architecture, engineering, and construction (AEC) applications.

However, the market faces challenges, such as high implementation costs and data security concerns, particularly in cloud-based deployments. Despite these hurdles, the integration of artificial intelligence and machine learning into engineering solutions is opening new opportunities, enabling predictive maintenance and enhanced design optimization.

The competitive landscape of the engineering software market is characterized by innovations and strategic collaborations. Major players are focusing on integrating cloud capabilities and AI-driven tools to maintain a competitive edge. Additionally, emerging players are introducing cost-effective and niche-specific solutions to capture market share.

The key regions considered in this study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America leads the market due to its robust technological infrastructure and high adoption of advanced engineering tools. Meanwhile, Asia Pacific is expected to exhibit the fastest growth, driven by the burgeoning automotive and aerospace sectors and increasing investment in smart manufacturing.

Major companies in the engineering software market include ANSYS, Inc., Autodesk Inc., Bentley Systems, Incorporated, Dassault Syst?mes, Siemens, and ZWSOFT CO., LTD. These players are continuously innovating to offer more integrated and user-friendly solutions, focusing on cloud-based platforms, advanced modeling, and simulation capabilities.

Major market players included in this report are:

ANSYS, Inc.

Autodesk Inc.

Bentley Systems, Incorporated

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Dassault Syst?mes

Siemens

3D Systems Inc.

PTC

Hexagon AB

ZWSOFT CO., LTD.

Mastercam

The detailed segments and sub-segments of the market are explained below:

By Component:

Software

Computer-Aided Design (CAD) Software

Computer-Aided Manufacturing (CAM) Software

Computer-Aided Engineering (CAE) Software

Others

Services

Development Services

Training, Support & Maintenance

By Deployment:

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Cloud

On-Premises

By Application:

Design Automation

Product Design & Testing

Plant Design

Drafting & 3D Modeling

Others

By End Use:

Automotive

Aerospace & Defense

Electronics

Medical Devices

Architecture, Engineering, and Construction (AEC)

Others

By Region:

North America:

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Canada

Mexico

Europe:

UK

Germany

France

Asia Pacific:

China

India

Japan

South Korea

Australia

Latin America:

Brazil

Middle East & Africa:

Kingdom of Saudi Arabia (KSA)

UAE

South Africa

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Years considered for the study:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Regional level analysis for each market segment.

Competitive landscape with information on major players in the market.

Insights into key strategies and recommendations for future market approach.

Demand and supply-side analysis of the market.

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