

# **CAD in Industrial Machinery Market by Product (3D, 2D), Application (Special Purpose Machines, Production Equipment, Earth Moving Machinery, Printing/Packaging Machinery, Industrial Goods and Equipment, Automation and Robotics, and Others), and Region 2023-2028**

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## **Abstracts**

### Market Overview:

The global CAD in industrial machinery market size reached US\$ 9.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 13.4 Billion by 2028, exhibiting a growth rate (CAGR) of 6.05% during 2023-2028. The increasing demand for industrial machinery across the automotive, aerospace, and defense sectors, the emerging trends of Industry 4.0, the shifting preference for customized industrial machinery, and ongoing product advancements represent some of the key factors driving the market.

CAD, or computer-aided design, plays a crucial role in industrial machinery. It is used to create, modify, and optimize designs for industrial machinery by allowing engineers and designers to visualize their concepts and ideas in a digital environment, facilitating the exploration of different design alternatives and iterations. CAD software provides a range of features and tools that help create complex geometries, precise measurements, and accurate simulations. It also generates precise and detailed two- and three-dimensional (2/3D) models of machinery components, assemblies, and systems and performs virtual simulations and analyses, such as stress analysis, motion analysis, and fluid flow simulations. These simulations help identify potential issues, evaluate the performance of the machinery, and optimize its design before any physical

prototypes are built. This, in turn, improves productivity, reduces costs, and enhances the quality, functionality, performance, and manufacturability of machinery.

#### CAD in Industrial Machinery Market Trends:

The growing need for advanced and technologically sophisticated machinery in the automotive, aerospace, and manufacturing industries represents one of the prime factors driving the market growth. Besides this, the advent of the fourth industrial revolution (Industry 4.0) and the growing adoption of digitalization and automation in the industrial machinery sector are fueling the adoption of CAD systems for their digital design and simulation capabilities. Moreover, the extensive focus on product customization is creating a favorable outlook for the market, as CAD software is widely used in designing complex and customized machinery components and systems to meet specific customer requirements. Concurrent with this, the rise in various regulatory standard requirements and certifications and the increasing demand for cost-effective, energy-efficient, and sustainable equipment are propelling the market forward. In addition to this, the surging demand for rapid prototyping to speed up the product development cycle, enabling faster time-to-market for industrial machinery, is acting as another significant growth-inducing factor. Furthermore, ongoing technological advancements, such as cloud-based CAD software and the integration of other software applications, including product lifecycle management (PLM) and computer-aided manufacturing (CAM) systems to streamline processes, are contributing to the market growth. In line with this, the expanding adoption of 3D printing in the industrial machinery sector, which requires CAD software for designing and modelling purposes, is presenting remunerative growth opportunities for the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global CAD in industrial machinery market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on product and application.

#### Product Insights:

3D

2D

The report has provided a detailed breakup and analysis of the CAD in industrial machinery market based on the product. This includes 3D and 2D. According to the report, 3D represented the largest segment.

### Application Insights:

- Special Purpose Machines
- Production Equipment
- Earth Moving Machinery
- Printing/Packaging Machinery
- Industrial Goods and Equipment
- Automation and Robotics
- Others

A detailed breakup and analysis of the CAD in industrial machinery market based on the application has also been provided in the report. This includes special purpose machines, production equipment, earth moving machinery, printing/packaging machinery, industrial goods and equipment, automation and robotics, and others. According to the report, special purpose machines accounted for the largest market share.

### Regional Insights:

- 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

The 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 was the largest market for CAD in industrial machinery. Some of the factors driving the North America CAD in industrial machinery market included the advent of industry 4.0, the growing demand for customized machinery, and the rising popularity of cloud-based CAD software across various industries.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global CAD in industrial machinery market. Detailed profiles of all major companies have been provided. Some of the companies covered include Autodesk Inc., Bontex Srl, Bricsys NV (Hexagon), Browzwear Solutions Pte. Ltd., CAD International, Dassault Systemes, Gr?bert GmbH, Lectra, PTC Inc., Siemens Aktiengesellschaft, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global CAD in industrial machinery market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global CAD in industrial machinery market?

What is the impact of each driver, restraint, and opportunity on the global CAD in industrial machinery market?

What are the key regional markets?

Which countries represent the most attractive CAD in industrial machinery market?

What is the breakup of the market based on the product?

Which is the most attractive product in the CAD in industrial machinery market?

What is the breakup of the market based on the application?

Which is the most attractive application in the CAD in industrial machinery market?

What is the competitive structure of the global CAD in industrial machinery market?  
Who are the key players/companies in the global CAD in industrial machinery market?

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