

Global Digital Manufacturing (DM) in Electrical and Electronics Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDC4A55E9E83EN.html>

Date: April 2026

Pages: 141

Price: US\$ 4,480.00 (Single User License)

ID: GDC4A55E9E83EN

Abstracts

The global Digital Manufacturing (DM) in Electrical and Electronics market size is expected to reach \$ 2400 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Digital Manufacturing (DM) in Electrical and Electronics refers to the deep integration of product lifecycle management, manufacturing operations management, and industrial IoT technologies to build an end-to-end digital pipeline from electronic design automation to intelligent manufacturing equipment. This system breaks down information barriers between schematic design, PCB fabrication, component procurement, and surface mount technology (SMT) production by establishing a unified data model for electromechanical products. Its core lies in using digital twins to virtually debug electrical production lines, collecting real-time data from equipment such as pick-and-place machines and reflow ovens through a manufacturing execution system, enabling visualization and dynamic optimization of the production process. This not only significantly improves changeover efficiency and first-pass yield for multi-variety, small-batch orders but also ensures consistent quality throughout the entire process, from material traceability to final testing, driving the evolution of electrical and electronic manufacturing towards flexibility and lean manufacturing.

Digital Manufacturing (DM) in Electrical and Electronics is undergoing a profound evolution from automated production lines to data-driven smart factories.

Technologically, IoT-based production equipment is connected to the network for real-time data collection; Manufacturing Execution Systems (MES) are integrated with Product Lifecycle Management (PLM) and Enterprise Resource Planning (ERP) systems to build a digital backbone; Digital Twin technology supports process

simulation and virtual debugging; and AI-powered visual inspection is gradually replacing manual visual inspection. In terms of development trends, the industry is focusing on establishing seamless data links from automated electronic design to surface mount technology (SMT) production lines, enabling design-driven manufacturing, and increasingly utilizing edge computing for millisecond-level equipment control. Key drivers of this development include the pressure for flexible production due to the rapid pace of electronic product upgrades, the stringent precision requirements of component miniaturization, and customer compliance demands for end-to-end quality traceability. However, significant obstacles remain: electrical and electronic manufacturing involves numerous heterogeneous devices, and inconsistent communication protocols lead to difficulties in data acquisition; frequent line changes for highly mixed, low-volume orders pose extremely high flexibility challenges to automation; data security and intellectual property protection remain concerns in supply chain collaboration; and the shortage of skilled professionals with expertise in both electronic processes and data analysis further hinders the transformation.

This report studies the global Digital Manufacturing (DM) in Electrical and Electronics demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Digital Manufacturing (DM) in Electrical and Electronics, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Digital Manufacturing (DM) in Electrical and Electronics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Digital Manufacturing (DM) in Electrical and Electronics total market, 2021-2032, (USD Million)

Global Digital Manufacturing (DM) in Electrical and Electronics total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Digital Manufacturing (DM) in Electrical and Electronics total market, key domestic companies, and share, (USD Million)

Global Digital Manufacturing (DM) in Electrical and Electronics revenue by player, revenue and market share 2021-2026, (USD Million)

Global Digital Manufacturing (DM) in Electrical and Electronics total market by Type, CAGR, 2021-2032, (USD Million)

Global Digital Manufacturing (DM) in Electrical and Electronics total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Digital Manufacturing (DM) in Electrical and Electronics market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Autodesk, Siemens PLM Software, Dassault Systèmes, PTC, Bentley, MITSUBISHI ELECTRIC, znt-Richter, Zuken, Altium, Synopsys, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Digital Manufacturing (DM) in Electrical and Electronics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Digital Manufacturing (DM) in Electrical and Electronics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Digital Manufacturing (DM) in Electrical and Electronics Market, Segmentation by Type:

Design-centric Digital Manufacturing Technology

Control-centric Digital Manufacturing Technology

Management-centric Digital Manufacturing Technology

Global Digital Manufacturing (DM) in Electrical and Electronics Market, Segmentation by Life Cycle:

Digital R&D and Design

Digital Process and Planning

Digital Manufacturing and Execution

Digital Service and Traceability

Others

Global Digital Manufacturing (DM) in Electrical and Electronics Market, Segmentation by Intelligent:

Transparent Manufacturing

Predictable Manufacturing

Adaptive Manufacturing

Traceable Manufacturing

Others

Global Digital Manufacturing (DM) in Electrical and Electronics Market, Segmentation by Application:

Manufacturing Planning

Simulation

Quality Check

NC Programming

Others

Companies Profiled:

Autodesk

Siemens PLM Software

Dassault Syst?mes

PTC

Bentley

MITSUBISHI ELECTRIC

znt-Richter

Zuken

Altium

Synopsys

Keysight Technologies

Ansys

Infor

Rockwell Automation

Schneider Electric

Omron

Key Questions Answered

1. How big is the global Digital Manufacturing (DM) in Electrical and Electronics market?
2. What is the demand of the global Digital Manufacturing (DM) in Electrical and Electronics market?
3. What is the year over year growth of the global Digital Manufacturing (DM) in Electrical and Electronics market?
4. What is the total value of the global Digital Manufacturing (DM) in Electrical and Electronics market?
5. Who are the Major Players in the global Digital Manufacturing (DM) in Electrical and Electronics market?
6. What are the growth factors driving the market demand?

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