

Global Electric Machine Design and Analysis Software Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Electric Machine Design and Analysis Software market size is predicted to grow from US\$ 1133 million in 2025 to US\$ 2278 million in 2032; it is expected to grow at a CAGR of 10.7% from 2026 to 2032.

Electric Machine Design and Analysis Software refers to specialized engineering design and simulation tools used for the development of electric machines, electric drive systems, and related rotating electromagnetic equipment. It is mainly applied to permanent magnet synchronous motors, induction motors, switched reluctance motors, synchronous reluctance motors, brushless DC motors, generators, and special-purpose electric machines. Its core functions typically include electromagnetic field calculation, magnetic circuit design, winding design, torque and efficiency analysis, loss and temperature-rise evaluation, demagnetization assessment, noise and vibration analysis, mechanical strength verification, drive-control matching, duty-cycle simulation, and automated design optimization. The software can be used for rapid sizing and selection during the concept design stage, as well as 2D/3D finite element analysis, prototype validation, and pre-production engineering iteration during detailed design. The statistical boundary should focus on software used for modeling, designing, simulating, and optimizing electric machines and electric-drive-related performance. General CAD drafting tools, project management software, or pure production management systems should not be included in the core scope. With the growth of electric vehicles, industrial energy efficiency, robotics, aerospace electrification, and high-efficiency pump and fan systems, this software category is evolving from a single-purpose simulation tool into a digital R&D platform connecting materials, structure, control, thermal management, and manufacturing processes.

Electric Machine Design and Analysis Software is a high-knowledge-density product

with substantial R&D input. Its gross margin can generally be estimated at 65%–90%. Standard licensed software, subscription-based products, cloud simulation modules, and mature solver platforms usually achieve higher margins, typically in the 75%–90% range. Customized development, engineering consulting, model library construction, and system integration projects for large automotive, motor, aerospace, or industrial customers usually fall within the 35%–65% range because they require more delivery staff, longer validation cycles, and customer-specific adaptation. The upstream value chain includes electromagnetics, thermal science, structural mechanics, fluid dynamics, control algorithms, optimization algorithms, material databases, experimental test data, cloud/HPC resources, and software development tools. The midstream includes software architecture, finite element solvers, analytical design models, CAD/CAE interfaces, parametric modeling, automated optimization, AI-assisted design, digital twins, and license management. Downstream customers include EV and component manufacturers, industrial motor producers, appliance and compressor companies, robotics companies, wind power and power generation equipment manufacturers, aerospace electric propulsion teams, universities, and research institutes. Profitability is mainly determined by algorithm barriers, solver accuracy, engineering database accumulation, customer lock-in, subscription renewal rates, ecosystem compatibility, and industry qualification experience.

Market Development Opportunities & Main Driving Factors

The growth of Electric Machine Design and Analysis Software is driven by the shift from experience-based motor development to model-driven R&D. Electric vehicles, industrial energy efficiency, electric aviation, robotics, and high-efficiency appliances are pushing motors toward higher power density, higher efficiency, lower noise, lower cost, and stronger reliability. Traditional prototype-based trial-and-error methods are increasingly insufficient for rapid iteration. Policy requirements for high-efficiency motors, industrial energy saving, and electrified system efficiency continue to rise, requiring motor companies to complete electromagnetic, thermal, structural, control, and manufacturability validation at an earlier design stage. U.S. energy authorities identify motor-system energy-saving tools and high-efficiency equipment procurement as important levers for industrial energy efficiency, while electric vehicle development continues to strengthen demand for electric drive R&D. At the same time, digital twins, AI optimization, and cloud simulation are entering engineering workflows, upgrading software from standalone simulation tools into enterprise-level R&D data assets and platform capabilities.

Market Challenges, Risks, & Restraints

The core challenges of this market are high technical barriers, high customer switching costs, and long validation cycles. Electric machine design involves multidisciplinary coupling across electromagnetics, thermal behavior, structure, NVH, controllers, and manufacturing processes. The software must ensure solver accuracy while maintaining computing speed, usability, and engineering interpretability. If material databases, loss models, demagnetization models, winding models, or thermal boundary conditions are inaccurate, simulation results cannot reliably support production decisions. In addition, large customers usually already have established CAE workflows, internal model libraries, and engineering habits. New software must pass extensive benchmarking and project validation before entering core R&D processes. For software suppliers, continuous R&D investment, solver stability, industry template accumulation, after-sales engineering support, and localized service capability all affect commercialization speed. Competition will shift from individual feature comparison to integrated capability in multiphysics coupling, automated optimization, data closed-loop, and embedded engineering workflows.

Downstream Demand Trends

Downstream demand will continue to expand across electric vehicles, high-efficiency industrial motors, robotics, aerospace electric propulsion, and distributed energy equipment. EV customers focus more on co-optimizing the motor with the inverter, battery, thermal management system, and vehicle duty cycles. Industrial customers focus on efficiency compliance, lifecycle energy consumption, reliability, and rapid customization. Robotics, drones, and aerospace electric propulsion place stronger emphasis on lightweight design, high speed, high power density, and low noise. Continuous updates to motor efficiency standards in major economies will also encourage companies to conduct efficiency, loss, and compliance simulations earlier in the product development stage. Future purchasing logic will shift from buying a single simulation module to adopting a full R&D platform covering concept design, detailed simulation, optimization iteration, test validation, and digital twin deployment. Software products with AI-assisted optimization, multiphysics coupling, cloud collaboration, and industry-specific model libraries will be better positioned to enter premium electric drive and industrial energy-efficiency development systems.

LPI (LP Information)' newest research report, the "Electric Machine Design and Analysis Software Industry Forecast" looks at past sales and reviews total world Electric Machine Design and Analysis Software sales in 2025, providing a comprehensive analysis by region and market sector of projected Electric Machine

Design and Analysis Software sales for 2026 through 2032. With Electric Machine Design and Analysis Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electric Machine Design and Analysis Software industry.

This Insight Report provides a comprehensive analysis of the global Electric Machine Design and Analysis Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Electric Machine Design and Analysis Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electric Machine Design and Analysis Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electric Machine Design and Analysis Software and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Electric Machine Design and Analysis Software.

This report presents a comprehensive overview, market shares, and growth opportunities of Electric Machine Design and Analysis Software market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cloud-based

On-premises

Segmentation by Function:

Electromagnetic Design & Analysis Software

Thermal & Cooling Design Software

Structural, NVH & Mechanical Analysis Software

Others

Segmentation by Integration Level:

Standalone

Integrated

Segmentation by Application:

Industrial and Manufacturing

Aerospace & Defense

Automotive and Transportation

Energy and Utilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its

market penetration.

ANSYS (Synopsys)

JMAG (JSOL Corporation)

Altair (Siemens)

Siemens

Dassault Syst?mes

COMSOL

MathWorks

VEPCO Technologies

SimScale

EMWorks

Gamma Technologies

Plexim

E-Circuit Motors

Quickfield (Tera Analysis)

Alva Industries

Neural Concept

EMDtool (Smeklab)

KOMOTEK

ZWSOFT

PERA Global

INTESIM

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