

Global Electric Motor Design Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Motor Design Software market size is expected to reach \$ 898 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

Electric Motor Design Software is a specialized industrial software category used for the design, simulation, optimization, and validation of electric motors, including permanent magnet synchronous motors, induction motors, synchronous reluctance motors, switched reluctance motors, axial flux motors, and high-speed machines. These tools typically integrate electromagnetic simulation, thermal analysis, structural analysis, vibration and noise assessment, efficiency mapping, loss calculation, demagnetization risk evaluation, winding design, material databases, control-system coupling, and multiphysics simulation. They enable engineers to predict performance and compare design alternatives before physical prototyping. Driven by rising demand from electric vehicles, industrial automation, robotics, aerospace electrification, wind power, and high-efficiency motors, electric motor design software has evolved from a calculation tool into a digital engineering platform connecting R&D, testing, manufacturing, and system integration. It has become a critical enabler for shortening development cycles, reducing prototyping costs, improving product reliability, and strengthening technological competitiveness.

Electric Motor Design Software is a high-value industrial software segment. Mature vendors typically combine perpetual licenses, subscriptions, cloud-based SaaS, enterprise licensing, technical support, training, and engineering services. Because software products have low marginal replication costs, established CAE and simulation software companies generally operate with relatively high gross margins, which can be broadly estimated at around 70%-90%. Standardized products with stable renewal

revenue and license- or subscription-based models usually enjoy higher margins, while customized development, localized deployment, consulting, and private-cloud implementation tend to dilute profitability. The upstream value chain includes electromagnetics, thermodynamics, structural mechanics, fluid mechanics, control algorithms, optimization algorithms, material databases, geometry kernels, solvers, cloud infrastructure, HPC/GPU computing, and operating environments. The midstream consists of software developers and simulation platform providers, with key activities including solver development, model library construction, user-interface design, data integration, AI optimization modules, validation frameworks, cloud deployment, and customer support. Downstream users are concentrated in electric vehicles, industrial motors, servo systems, robotics, aerospace, rail transit, wind power, home appliances, and research institutions. The industry's core competitiveness lies not merely in feature coverage, but in algorithm accuracy, engineering applicability, accumulated materials and use cases, workflow integration, and continuous product iteration.

Market Development Opportunities & Main Driving Factors

Electric Motor Design Software is entering a growth cycle driven by high-efficiency electrification, low-carbon manufacturing, and intelligent R&D. As the electric vehicle industry shifts from volume expansion to competition in performance, efficiency, and cost, motor manufacturers must rapidly balance torque density, efficiency, noise, thermal management, material cost, and reliability. Traditional development methods based on engineering experience and repeated prototyping are no longer sufficient for faster product iteration. Demand from industrial energy efficiency, robotic joint motors, aerospace electrification, wind power, and high-end equipment is also expanding the need for advanced motor design capabilities. At the same time, cloud computing, AI-driven optimization, digital twins, and model-based systems engineering are reshaping the value of software. Electric motor design software is no longer just a point-simulation tool; it is becoming an entry point into enterprise-level digital R&D. For motor manufacturers, automakers, and industrial equipment companies, advanced design software means faster time to market, lower trial-and-error cost, and stronger control over core technology.

Market Challenges, Risks, & Restraints

The key challenges in this market come from technical barriers, customer switching costs, and the strong ecosystem position of leading global software vendors. Motor design requires the coupling of electromagnetics, thermal behavior, structures, NVH, and control systems, while solver accuracy and engineering usability must be validated

through years of real-world industrial cases. Software vendors need continuous investment in algorithms, material databases, industry templates, and engineering support. For downstream users, premium software can be expensive, engineers require long training cycles, and once legacy models, data interfaces, and internal workflows are established, switching costs become significant. Cloud-based solutions lower the initial adoption threshold for small and mid-sized companies, but automotive, defense, and aerospace customers still face concerns over data security, model confidentiality, and computing cost. Domestic software vendors also need to overcome gaps in algorithm maturity, industrial case accumulation, global customer recognition, and ecosystem compatibility. Future competition will not be simple software substitution, but a long-term contest in accuracy, efficiency, security, ecosystem depth, and service capability.

Downstream Demand Trends

Downstream demand is expected to move from single-motor design toward electric-drive system optimization and full-lifecycle digital engineering. Electric vehicles will remain the core growth application, with traction motors, in-wheel motors, hairpin-winding motors, axial flux motors, and high-voltage high-speed motors driving more complex electromagnetic-thermal-structural-control co-simulation requirements. In industrial markets, stricter efficiency standards, equipment intelligence, and localization trends are accelerating the use of design software to improve motor efficiency and product consistency. Emerging applications such as robotics, drones, the low-altitude economy, and aerospace electrification require lighter weight, higher power density, and stronger reliability, supporting wider adoption of AI optimization, automated parameter search, and rapid modeling tools. Overall, electric motor design software is evolving from a professional R&D tool into a key infrastructure layer for product platformization, digital prototyping, and intelligent manufacturing.

This report studies the global Electric Motor Design Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Motor Design Software, 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 Electric Motor Design Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Motor Design Software total market, 2021-2032, (USD Million)
Global Electric Motor Design Software total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Electric Motor Design Software total market, key domestic companies, and share, (USD Million)
Global Electric Motor Design Software revenue by player, revenue and market share 2021-2026, (USD Million)
Global Electric Motor Design Software total market by Type, CAGR, 2021-2032, (USD Million)
Global Electric Motor Design Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Electric Motor Design Software 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 ANSYS (Synopsys), Siemens, Altair (Siemens), JMAG (JSOL Corporation), Dassault Systèmes, MathWorks, COMSOL, Plexim, Hangzhou Easitech, E-Circuit Motors, 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 Electric Motor Design Software 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 Electric Motor Design Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Motor Design Software Market, Segmentation by Type:

Cloud Based

On-Premises

Global Electric Motor Design Software Market, Segmentation by AI Optimization:

With AI Optimization

Without AI Optimization

Global Electric Motor Design Software Market, Segmentation by Business Model:

Perpetual License

Subscription Model

Global Electric Motor Design Software Market, Segmentation by Enterprise:

Large Enterprises

SMEs

Global Electric Motor Design Software Market, Segmentation by Application:

Industrial & Manufacturing

Aerospace & Defense

Automotive & Transportation

Energy & Utilities

Others

Companies Profiled:

ANSYS (Synopsys)

Siemens

Altair (Siemens)

JMAG (JSOL Corporation)

Dassault Systèmes

MathWorks

COMSOL

Plexim

Hangzhou Easitech

E-Circuit Motors

Gamma Technologies

EMWorks

MotorXP

SimScale

Quickfield (Tera Analysis)

Pera Corporation

MagneForce Software

INTESIM

EMDtool (Smeklab)

Neural Concept

ZWSOFT

KOMOTEK

Key Questions Answered

1. How big is the global Electric Motor Design Software market?
2. What is the demand of the global Electric Motor Design Software market?
3. What is the year over year growth of the global Electric Motor Design Software market?
4. What is the total value of the global Electric Motor Design Software market?
5. Who are the Major Players in the global Electric Motor Design Software market?
6. What are the growth factors driving the market demand?

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