

# Global Structural Analysis Software Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Structural Analysis Software market size is expected to reach \$ 905 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Structural analysis software is an engineering simulation tool developed based on solid mechanics theory and numerical analysis algorithms. Its core function is to simulate the mechanical response of a structure under various loads such as static, dynamic, temperature, impact, and vibration by constructing a digital model of the structure, thereby enabling quantitative evaluation of structural performance, optimized design, and early warning of failure risks.

The upstream of the structural analysis software industry mainly includes high-performance computing hardware, servers and cloud computing resources, CPUs and GPUs, operating systems, and numerical computation and solver libraries, which determine computational efficiency, parallel capability, and stability. Downstream applications represent the main value creation area, with construction and infrastructure being the core markets, where the software is widely used for structural load analysis and safety assessment of buildings, bridges, tunnels, and rail transit, directly supporting regulatory compliance and lifecycle safety. Manufacturing is another key downstream sector, especially in automotive, aerospace, shipbuilding, and heavy equipment, where structural analysis software supports strength evaluation, fatigue life prediction, and lightweight design, reducing development cycles and testing costs. The energy and power sector relies heavily on these tools in wind power, nuclear power, oil and gas, and energy storage facilities to address complex loads and extreme operating conditions. Electronics and high-end equipment industries also generate steady demand in packaging structures, precision equipment, and reliability design. In terms of trends, structural analysis software is increasingly integrated with multiphysics simulation and digital twins, evolving toward cloud-based, parallel, and intelligent

solutions, with AI-assisted modeling and automated solvers improving engineering efficiency and tighter integration with CAD and PLM systems. Key drivers include sustained global infrastructure investment, upgrading and lightweighting in manufacturing, stricter safety regulations and standards, and the growing cost advantage of simulation over physical testing. Constraints include high license costs of advanced software, steep learning curves, high computing and data quality requirements for complex projects, and long validation cycles for alternative or localized solutions in some industries.

This report studies the global Structural Analysis Software demand, key companies, and key regions.

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

### **Highlights and key features of the study**

Global Structural Analysis Software total market, 2021-2032, (USD Million)

Global Structural Analysis Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Structural Analysis Software total market, key domestic companies, and share, (USD Million)

Global Structural Analysis Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Structural Analysis Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Structural Analysis Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Structural Analysis 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, Dassault Systèmes, Siemens Digital Industries Software, Altair, Hexagon, Bentley Systems, Autodesk, Computer and Structures, Inc., Dlubal Software, Trimble, 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 Structural Analysis 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 Structural Analysis Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Structural Analysis Software Market, Segmentation by Type:

Finite Element Method (FEA) Software

Boundary Element Method (BEM) Software

Discrete Element Method (DEM) Software

Rigid Body Dynamics Software

Topology Optimization Software

Global Structural Analysis Software Market, Segmentation by Functionality:

Static Analysis Software

Dynamic Analysis Software

Nonlinear Analysis Software

Fatigue Analysis Software

Stability Analysis Software

Global Structural Analysis Software Market, Segmentation by Deployment Method:

Cloud CAE/SaaS

On-Premise

Hybrid

Global Structural Analysis Software Market, Segmentation by Application:

Architecture and Civil Engineering

Mechanical Manufacturing

Aerospace and Defense

Automotive Industry

Mining

Other

**Companies Profiled:**

ANSYS

Dassault Syst?mes

Siemens Digital Industries Software

Altair

Hexagon

Bentley Systems

Autodesk

Computer and Structures, Inc.

Dlubal Software

Trimble

SCIA

SOFISTIK

MIDAS

Oasys

Strand7

GRAITEC

PTC

COMSOL

### Key Questions Answered

1. How big is the global Structural Analysis Software market?
2. What is the demand of the global Structural Analysis Software market?
3. What is the year over year growth of the global Structural Analysis Software market?
4. What is the total value of the global Structural Analysis Software market?
5. Who are the Major Players in the global Structural Analysis Software market?

6. What are the growth factors driving the market demand?

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