

Global Lattice Generation Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lattice Generation Software market size is expected to reach \$ 789 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Lattice generation software is specialized engineering software for additive manufacturing, advanced structural design, and digital materials engineering. It is used to create, parameterize, edit, optimize, verify, and output three-dimensional lattices, cells, and porous structures. This type of software is typically based on beam elements, truss elements, periodic surfaces, three-period minimal surfaces, Voronoi structures, random foam structures, or hybrid cells. It generates uniform, conformal, gradient, or performance-driven lattices within solid components, surfaces, or specified design domains using implicit functions, distance fields, voxels, graphical structures, finite element meshes, or parametric element libraries. Its key capabilities include control over unit size, rod diameter, wall thickness, porosity, relative density, orientation, connection method, and gradient law, as well as adjusting local structures according to stress, temperature, flow rate, pressure, energy absorption, or biological bone ingrowth requirements.

From a demand structure perspective, aerospace and medical remain the primary paying markets for high-value lattice software because these sectors require significant weight reduction, bone ingrowth, or thermal management benefits and are willing to invest substantial software budgets in simulation, quality traceability, and certification. The footwear and consumer goods markets offer a greater number of designs and faster product iteration speeds, driving the development of cloud-based conformal lattices, automated parameterization, and material-structure joint databases; while the automotive, energy, and industrial equipment markets are more focused on energy

absorption, heat exchange, filtration, and mass production costs. Demand growth will not only come from new software slots, but more importantly, from individual customers upgrading from proof-of-concept to enterprise-level workflows, cloud computing, automated design, and multiphysics verification. The US and Western Europe remain the primary sources of revenue. Applications in the industrial AM, aerospace, medical device, and new energy vehicle sectors in the Chinese market will increase demand for localized software. However, current independent domestic supply remains limited, and in the short term, the market will continue to see competition between international integrated platforms and local AM CAx software.

This report studies the global Lattice Generation Software demand, key companies, and key regions.

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

Highlights and key features of the study

Global Lattice Generation Software total market, 2021-2032, (USD Million)

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

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

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

Global Lattice Generation Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Lattice Generation Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Lattice Generation 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 nTopology, Inc., Siemens AG, Dassault Systèmes SE, Autodesk, Inc., Synopsys, Inc., PTC Inc., Materialise NV, Carbon, Inc., Oqton NV, Hexagon AB, 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 Lattice Generation 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 Lattice Generation Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lattice Generation Software Market, Segmentation by Type:

Local Deployment

Cloud-based

Global Lattice Generation Software Market, Segmentation by Target Structure:

Regular Mechanical Lattice

Polycrystalline Structure

Global Lattice Generation Software Market, Segmentation by Output Application:

Direct Printing

Simulation Analysis

Visualization/Educational

Global Lattice Generation Software Market, Segmentation by Application:

Aerospace

Automotive

Medical Devices

Sports Consumer Goods

Other

Companies Profiled:

nTopology, Inc.

Siemens AG

Dassault Systèmes SE

Autodesk, Inc.

Synopsys, Inc.

PTC Inc.

Materialise NV

Carbon, Inc.

Oqton NV

Hexagon AB

Hyperganic Group

CoreTechnologie GmbH

Math2Market GmbH

Dyndrite Corporation

LuxCreo, Inc.

Spherene AG

VoxelDance

Solo Lattices Company Ltd.

TETMET BV

Forward AM Technologies GmbH

Key Questions Answered

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

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

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