

Selective Laser Melting In Mining Market Size, Share & Trends Analysis Report By Component (Equipment, Materials, Services, Others), By Region, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/SB017EC70507EN.html>

Date: November 2025

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: SB017EC70507EN

Abstracts

The global selective laser melting in mining market size was estimated at USD 84.5 million in 2024 and is projected to reach USD 235.8 million by 2033, at a CAGR of 12.3% from 2025 to 2033. Selective Laser Melting (SLM) in mining involves using high-powered lasers to fuse metal powders layer by layer, creating complex components for mining equipment.

This technology enhances part durability, reduces material waste, and supports on-site manufacturing efficiency. The growth of the market is driven by the increasing need for on-demand manufacturing of metal spare parts at remote mining locations. Mining operations frequently encounter challenges related to equipment downtime, often stemming from delays in part replacement and logistical limitations. SLM technology enables the on-site or near-site production of complex components, thereby minimizing inventory requirements and reducing repair timelines. This flexibility improves operational efficiency and reduces costs associated with equipment maintenance and transportation.

Advancements in materials science and printing precision are strengthening the adoption of SLM in the mining sector. Improvements in metal powders, laser power, and process stability have enhanced the mechanical strength and durability of printed parts. Mining companies are now utilizing SLM to produce wear-resistant tools, drilling components, and pump parts that can withstand extreme conditions. The technology's capability to produce high-quality, functional components has increased trust among mining engineers and equipment manufacturers, encouraging wider industrial

deployment.

Another significant driver is the design flexibility that SLM offers compared to traditional manufacturing. It enables engineers to create parts with complex internal geometries, optimized weight distribution, and integrated functions. This design freedom helps in reducing overall equipment weight and energy consumption while improving performance. Mining machinery and vehicles benefit from such innovations, as lighter and more efficient components contribute to longer equipment life and reduced fuel usage during operations.

Global Selective Laser Melting In Mining Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global selective laser melting in mining market report based on component and region:

Component Outlook (Revenue, USD Million, 2021 - 2033)

Equipment

Materials

Services

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Finland

Sweden

Poland

Russia

Asia Pacific

China

India

Australia

Latin America

Brazil

Middle East & Africa

South Africa

Iran

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Data Analysis Models
 - 1.3.3. Market Formulation & Data Visualization
 - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Outlook
- 3.2. Industry Value Chain Analysis
- 3.3. Technology Overview
- 3.4. Regulatory Framework
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
- 3.6. Industry Trends
 - 3.6.1. ESG Analysis
 - 3.6.2. Economic Trends
- 3.7. Porter's Five Forces Analysis
 - 3.7.1. Bargaining Power of Suppliers
 - 3.7.2. Bargaining Power of Buyers
 - 3.7.3. Threat of Substitution
 - 3.7.4. Threat of New Entrants
 - 3.7.5. Competitive Rivalry
- 3.8. PESTLE Analysis

- 3.8.1. Political
- 3.8.2. Economic
- 3.8.3. Social Landscape
- 3.8.4. Technology
- 3.8.5. Environmental
- 3.8.6. Legal

CHAPTER 4. SELECTIVE LASER MELTING IN MINING MARKET: COMPONENT ESTIMATES & TREND ANALYSIS

- 4.1. Selective Laser Melting in Mining Market: Component Movement Analysis, 2024 & 2033
- 4.2. Equipment
 - 4.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.3. Materials
 - 4.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.4. Services
 - 4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
- 4.5. Others
 - 4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 5. SELECTIVE LASER MELTING IN MINING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 5.1. Regional Analysis, 2024 & 2033
- 5.2. North America
 - 5.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.2.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.2.3. U.S.
 - 5.2.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.2.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.2.4. Canada
 - 5.2.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.2.4.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.2.5. Mexico
 - 5.2.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.2.5.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.3. Europe
 - 5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

- 5.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.3.3. Finland
 - 5.3.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.3.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.3.4. Sweden
 - 5.3.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.3.4.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.3.5. Poland
 - 5.3.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.3.5.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.3.6. Russia
 - 5.3.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.3.6.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.4. Asia Pacific
 - 5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.4.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.4.3. China
 - 5.4.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.4.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.4.4. India
 - 5.4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.4.4.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.4.5. Australia
 - 5.4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.4.5.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.5. Latin America
 - 5.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.5.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.5.3. Brazil
 - 5.5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.5.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
- 5.6. Middle East & Africa
 - 5.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.6.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.6.3. South Africa
 - 5.6.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)
 - 5.6.3.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)
 - 5.6.4. Iran
 - 5.6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

5.6.4.2. Market estimates and forecasts, by component, 2021 - 2033 (USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Recent Developments & Impact Analysis, By Key Market Participants

6.2. Company Categorization

6.3. Heat Map Analysis

6.4. Vendor Landscape

6.4.1. List of distributors

6.5. List of prospective end-users

6.6. Strategy Initiatives

6.7. Company Profiles/Listing

6.7.1. Nikon SLM Solutions AG

6.7.1.1. Company Overview

6.7.1.2. Financial Performance

6.7.1.3. Product Benchmarking

6.7.2. EOS GmbH

6.7.2.1. Company Overview

6.7.2.2. Financial Performance

6.7.2.3. Product Benchmarking

6.7.3. Renishaw plc

6.7.3.1. Company Overview

6.7.3.2. Financial Performance

6.7.3.3. Product Benchmarking

6.7.4. GE Additive

6.7.4.1. Company Overview

6.7.4.2. Financial Performance

6.7.4.3. Product Benchmarking

6.7.5. Trumpf GmbH + Co. KG

6.7.5.1. Company Overview

6.7.5.2. Financial Performance

6.7.5.3. Product Benchmarking

6.7.6. Additive Industries

6.7.6.1. Company Overview

6.7.6.2. Financial Performance

6.7.6.3. Product Benchmarking

6.7.7. DMG Mori AG

6.7.7.1. Company Overview

6.7.7.2. Financial Performance

- 6.7.7.3. Product Benchmarking
- 6.7.8. Farsoon Technologies
 - 6.7.8.1. Company Overview
 - 6.7.8.2. Financial Performance
 - 6.7.8.3. Product Benchmarking
- 6.7.9. 3T Additive Manufacturing
 - 6.7.9.1. Company Overview
 - 6.7.9.2. Financial Performance
 - 6.7.9.3. Product Benchmarking
- 6.7.10. Wipro 3D
 - 6.7.10.1. Company Overview
 - 6.7.10.2. Financial Performance
 - 6.7.10.3. Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 2 Selective laser melting in mining market estimates and forecasts, in equipment, 2021 - 2033 (USD Million)

Table 3 Selective laser melting in mining market estimates and forecasts, in materials, 2021 - 2033 (USD Million)

Table 4 Selective laser melting in mining market estimates and forecasts, in services, 2021 - 2033 (USD Million)

Table 5 Selective laser melting in mining market estimates and forecasts, in others, 2021 - 2033 (USD Million)

Table 6 North America selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 7 North America selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 8 U.S. selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 9 U.S. selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 10 Canada selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 11 Canada selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 12 Mexico selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 13 Mexico selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 14 Europe selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 15 Europe selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 16 Finland selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 17 Finland selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 18 Poland selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 19 Poland selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 20 Sweden selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 21 Sweden selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 22 Russia selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 23 Russia selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 24 Asia Pacific selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 25 Asia Pacific selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 26 China selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 27 China selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 28 India selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 29 India selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 30 Australia selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 31 Australia selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 32 Latin America selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 33 Latin America selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 34 Brazil selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 35 Brazil selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 36 Middle East & Africa selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 37 Middle East & Africa selective laser melting in mining market estimates &

forecasts, by component, 2021 - 2033 (USD Million)

Table 38 South Africa selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 39 South Africa selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

Table 40 Iran selective laser melting in mining market estimates & forecasts, 2021 - 2033 (USD Million)

Table 41 Iran selective laser melting in mining market estimates & forecasts, by component, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data analysis models
- Fig. 4 Market formulation and validation
- Fig. 5 Market snapshot
- Fig. 6 Segmental outlook
- Fig. 7 Competitive outlook
- Fig. 8 Selective laser melting in mining market outlook, 2021 - 2033 (USD Million)
- Fig. 9 Value chain analysis
- Fig. 10 Market dynamics
- Fig. 11 Porter's analysis
- Fig. 12 PESTEL analysis
- Fig. 13 Selective laser melting in mining market, by component: Key takeaways
- Fig. 14 Selective laser melting in mining market, by component: Market share, 2024 & 2033
- Fig. 15 Selective laser melting in mining market: Regional analysis, 2024
- Fig. 16 Selective laser melting in mining market, by region: Key takeaways

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