

Selective Laser Sintering Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/S1746B49BF02EN.html>

Date: September 2023

Pages: 146

Price: US\$ 2,499.00 (Single User License)

ID: S1746B49BF02EN

Abstracts

Market Overview:

The global selective laser sintering market size reached US\$ 2.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.1 Billion by 2028, exhibiting a growth rate (CAGR) of 20.8% during 2023-2028.

Selective laser sintering (SLS) refers to three-dimensional (3D), powder-based additive manufacturing (AM) technology that employs a high-powered laser to melt or fuse small particles of polymer and nylon powders into a solid structure. It aids in providing high mechanical load capacity, collecting detailed coordinates of the model from computer-aided design (CAD) software, and avoiding complex design failures during production processes, thus reducing operational costs. On account of these properties, SLS is extensively used by manufacturers and engineers in the commercial sector for prototyping functional components and producing small polymers. Currently, SLS is commercially available in varying material forms and laser types, such as solid and gas.

Selective Laser Sintering Market Trends:

The global SLS market is driven by the increasing need for effective printing solutions across various industrial verticals for manufacturing and designing heavy equipment parts at reduced costs and duration. For instance, in the aerospace industry, SLS is extensively deployed for melting metal and non-metallic powders for prototyping, shaping parts, manufacturing functional parts, and constructing building systems. Additionally, with the rapid expansion in the electronics sector, there has been a rising demand for consumer electronics. This, in turn, has facilitated the uptake of SLS to design global positioning systems (GPS) and dishwasher exterior bodies, which is

contributing to the market growth. Moreover, the introduction of direct metal laser sintering (DMLS) that uses a computer-operated, high-power laser beam to melt and fuse together layers of metallic powder are propelling the market growth. This industrial printing process assists in accelerating production and building fully functional, rapid metal prototypes, while reducing tooling and operational costs. Other factors, such as strategic collaborations amongst key players and continuous investments in the research and development (R&D) activities to manufacture advanced SLS production tools, such as molds and jigs, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global selective laser sintering market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and application.

Breakup by Type:

- Metal
- Plastic

Breakup by Application:

- Automotive
- Aerospace
- Defense
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3D Systems Inc., EOS GmbH Electro Optical Systems, Farsoon Americas Corp, Fathom Manufacturing, Formlabs Inc., Nexa3d Inc., Prodways Group, Renishaw plc, Ricoh Company Ltd., Sharebot S.r.l., Sinterit sp. z o.o and Sintratec AG.

Key Questions Answered in This Report

1. How big is the global selective laser sintering market?
2. What is the expected growth rate of the global selective laser sintering market during 2023-2028?
3. What are the key factors driving the global selective laser sintering market?
4. What has been the impact of COVID-19 on the global selective laser sintering market?
5. What is the breakup of the global selective laser sintering market based on the type?
6. What is the breakup of the global selective laser sintering market based on the application?
7. What are the key regions in the global selective laser sintering market?
8. Who are the key players/companies in the global selective laser sintering market?

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