

Directed Laser Melting Deposition (DLMD) Three-Dimensional (3D) Printers Market Expected To Reach 12.8% CAGR By 2030

TBRC's Directed Laser Melting Deposition (DLMD) Three-Dimensional (3D) Printers Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

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/EINPresswire.com/ -- "The directed laser melting deposition ([DLMD](#)) [three-dimensional \(3D\) printers market](#)

is witnessing significant growth as industries increasingly adopt advanced metal additive manufacturing technologies. This segment is demonstrating strong potential due to its ability to produce intricate metal parts efficiently, meeting the evolving demands of sectors like aerospace and heavy industry. Let's explore the current market size, key growth drivers, regional outlook, and future trends shaping this innovative 3D printing market.

Current Market Size and Projected [Growth of the Directed Laser Melting Deposition 3D Printers Market](#)

The DLMD 3D printers market has seen rapid expansion recently, with its value expected to rise from \$0.17 billion in 2025 to \$0.19 billion in 2026, marking a compound annual growth rate (CAGR) of 12.6%. This growth during the past years has been fueled by increased use of metal additive manufacturing in aerospace, rising investments in industrial automation, a greater need for rapid prototyping of complex metal components, and the expansion of repair and remanufacturing activities in heavy industries. Additionally, advancements in high-power laser processing technology have played a crucial role.

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Looking ahead, the market is forecasted to grow at an accelerated pace, reaching \$0.31 billion by 2030 with a CAGR of 12.8%. Several factors will contribute to this rise, such as a growing demand for lightweight components in electric vehicles, wider adoption of automated smart factory



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production systems, and the development of multi-material metal deposition technologies. The healthcare sector's increasing use of customized implants, along with the integration of real-time process monitoring and predictive analytics, will also support market expansion. Key trends anticipated in the coming years include direct energy deposition for large-scale manufacturing, more widespread use of multi-material laser deposition systems, heightened demand for precise aerospace metal parts, the growing application of DLMD printers in repair and remanufacturing, and the rise of compact metal deposition printers tailored for prototype creation.

Understanding Directed Laser Melting Deposition 3D Printers and Their Capabilities

Directed laser melting deposition (DLMD) 3D printers are advanced additive manufacturing machines that employ a high-powered laser to melt and fuse metal powder or wire directly onto a substrate layer by layer. This process produces fully dense, high-quality 3D metal parts with excellent mechanical strength and minimal need for post-processing. The precise material deposition offered by DLMD technology enables the creation of complex geometries and high-performance components that are challenging to manufacture using traditional methods.

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Key Factors Propelling the Growth of the Directed Laser Melting Deposition 3D Printers Market

One of the primary forces driving the expansion of the DLMD 3D printers market is the growth of the aerospace industry. This sector, which encompasses the design, development, manufacturing, testing, and maintenance of aircraft, spacecraft, satellites, and related technologies, is expanding rapidly due to increasing air passenger traffic and demand for more aviation services. DLMD technology supports aerospace manufacturing by enabling precise, on-demand production and repair of metal parts, reducing material waste and allowing greater design flexibility.

For example, in January 2026, the International Trade Administration reported that the UK civil aerospace sector generated a turnover of about \$38 billion in 2023, with exports making up roughly \$25 billion. This robust activity in aerospace manufacturing significantly boosts the demand for DLMD 3D printing solutions, which in turn drives market growth.

Regional Market Outlook for Directed Laser Melting Deposition 3D Printers

In 2025, North America held the largest share of the DLMD 3D printers market. However, the Asia-Pacific region is expected to be the fastest-growing market throughout the forecast period. The geographic scope of the directed laser melting deposition three-dimensional 3D printers market report covers major regions including Asia-Pacific, Southeast Asia, Western Europe, Eastern Europe, North America, South America, and the Middle East and Africa, providing a comprehensive global perspective on market trends and growth opportunities.

Key enhancements in our 2026 market reports include:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
- Key technologies and future trend analysis
- Updated graphics and tables

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