Military 3D Printing Market By Component (Technology, Material, Services), By Application (Tooling, jigs and fixtures, Prototyping, End-use parts, Others), By End-Use (Army, Navy, Airforce): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

3D printing, referred to as additive manufacturing, is a construction of a three-dimensional object by building one layer at a time from a computer-aided design (CAD) digital 3D model.□3D printing aids in reduction of lead time as well as cost for prototyping and manufacturing complex parts. No special tools such as cutting tool or molds are required for printing process. The materials utilized for 3D printing comprises of several types of polymers, metals, ceramics, and others. Certain 3D printers utilize several materials simultaneously according to requirements, thereby making manufacturing process easier.□At present, the defence industry has adopted the 3D printing technology to simplify the process of manufacturing of parts and components, as well as weapons and equipment. With the changes in battlefield requirements, the equipment that changes (shape or properties) in accordance with the environment is likely to help armies gain an upper hand.

Military weapons has gained traction across army due to the increased demand for advanced weapons to be present with the army across the globe. Numerous developments have been carried out by weapons manufacturers towards the development of smart weapons which creates ample opportunities for the growth of the market across the segment. In addition, in few countries, companies are collaborating with army to cater accommodation requirements of army using 3D printing technology, which fuels the growth of the segment. For instance, in 2022, Indian Army's Military Engineering Services (MES) in a collaboration with Tvasta, constructed two 3D printed houses within three weeks using Construction 3D printing technology. These new 3D printed houses is expected to be used to cater the growing accommodation requirements of the Indian Armed Forces.

The growth□of the global military 3D printing market is propelling, due to surge in military application, increase in investments by armed forces into technology, and rise in adoption of lightweight components. However, complex design of both hardware & software section and lack of standardization in process are the factors that hamper the growth of the market. Furthermore,

technological advancements is the factor expected to offer growth opportunities during the forecast period.
The military 3D printing market is segmented on the basis of component, application, end-use, and region. By component, it is fragmented into technology, materials, and services. By application, it is classified into tooling, jigs & fixtures, prototyping, end-use parts, and others. By end-use, it is categorized into army, navy, and airforce. By region, the report is analyzed across North America, Europe, Asia-Pacific, and LAMEA.
Key Benefits For Stakeholders
-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the military 3d printing market analysis from 2021 to 2031 to identify the prevailing military 3d printing market opportunities.
-The market research is offered along with information related to key drivers, restraints, and opportunities.
-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
-In-depth analysis of the military 3d printing market segmentation assists to determine the prevailing market opportunities.
-Major countries in each region are mapped according to their revenue contribution to the global market.
-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
-The report includes the analysis of the regional as well as global military 3d printing market trends, key players, market segments, application areas, and market growth strategies.
Key Market Segments
By Component
- Technology
- Material
- Services
By Application
- Tooling, jigs and fixtures
- Prototyping
- End-use parts
- Others
By End-Use
- Army
- Navy
- Airforce
By Region
- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Italy
- Rest Of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea

- Rest Of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- 3D Systems Inc.
- ExOne Company
- General Electric Company
- Markforged
- Materialise NV
- Stratasys, Ltd.
- Proto Labs, Inc.
- Autodesk Inc
- Dassault Systems
- Optomec, Inc
- Fracktal Works Private Limited
- Ultimaker BV

Table of Contents:

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