Aerospace 3D Printing Market is anticipated to reach value of US$ 2117.4 Mn by 2022

3D printing is an additive technology, which leads to reduction in accumulation of smaller series of parts and wastes products.

NEW YORK CITY, NEW YORK, UNITED STATES, April 26, 2018 /EINPresswire.com/ -- Aerospace 3D printing is estimated to register US$ 2117.4 Mn by 2022. In accordance, to the Absolute Markets Insights offers its latest published report 'Aerospace 3D Printing Market by Material Type (Plastics, Metals, Ceramics, Others); by Material Application (Engine, Structural Components, Space Components); by Form (Filament, Powder, Liquid); by Process (Binder Jetting, Material Extrusion, Direct Energy Deposition, Powder Bed Fusion, Sheet Lamination, Material Jetting, Vat Photo-Polymerization); by Printers Technology (Stereo Lithography (SLA), Selective Laser Sintering (SLS), Fuse Deposition Modeling (FDM), Direct Metal Laser Sintering (DMLS), Polyjet Printing, Inkjet Printing, Laminated Object Manufacturing, Digital Light Processing (DLLP), Electron Beam Melting (EBM), Laser Metal Deposition (LMD), Continuous Liquid Interface Production (CLIP)); by Application (Aircraft, UAV, Spacecraft); by Regional Outlook (U.S., Rest of North America, France, UK, Germany, Spain, Italy, Rest of Europe, China, Japan, India, Southeast Asia, Rest of Asia Pacific, GCC Countries, Southern Africa, Rest of MEA, Brazil, Rest of Latin America) – Global Insights, Growth, Size, Comparative Analysis, Trends and Forecast, 2018-2026'. The author of the report analyzed that the Aerospace 3D Printing Market accounted for US$ 635.1 Mn in 2017. 3D printing is a direct process of manufacturing by which a material is solidified under computer control to form three dimensional models and is passed directly to the physical product unit.

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3D printing is an additive technology, which leads to reduction in accumulation of smaller series of parts and wastes products. Whereas, the traditional approach such as milling requires huge amount of energy to manufacture the product, thereby resulting in numerous wastes production. In addition, the current additive technology requires limited resources to develop parts and thus reduces the waste products as well as energy consumption. Hence, it shortens the time and simplifies the supply chain leading to rapid adoption in the aerospace industry. The market poses improper industrial guidelines and limited product design knowledge by the industrialists. Owing to the knowledge gap in framing out specific layered models, the market growth is restrained. However, the aerospace industry is rapidly adopting the technology and are investing in prototyping models to improve their aircraft wings and complex engine structures. This offers high growth opportunity to the aerospace 3D printing market to grow in the coming years.

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Engine and Fuse Deposition Modeling Anticipated to be the Dominant Segments During the Period 2018-2026.
The development of light weight, CO2, fuel efficient complex components has fueled the rise in engine application among other material application segment and is also anticipated to continue

the trend and grow further. Similarly, the fuse deposition modelling technique, which is widely used as a thermoplastic filament, dominates amongst other printer technology market segment.

Increase in Adoption of Lightweight Aircraft Components Anticipated to Drive the Market in North America

The North American region holds the largest market share for aerospace 3D printing among the other regions. The growth of the market in the North American region is ascribed to high adoption rate of 3D printing technology in the aerospace industry combined with growing monetary support from the government. The adoption of 3D printing technology in the aerospace industry in North America is gaining momentum due to the swift manufacturing process that this technology offers, which enables the engineer to authenticate prototype designs at a faster rate and thus speed up the aircraft improvement process.

Global Aerospace 3D Printing Market is Fragmented with the Presence of Number of Global and Regional Players.

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Some of the key players operating in the aerospace 3D market are Arcam AB, 3D Systems Corporation, EOS Gmbh, The Exone Company, Concept Laser, Envisiontec GmbH, Wuhan Bihu and SLM Solution. The aerospace 3D printing market witnesses' investments made by the companies in their research and developments works. During the year 2017, Aerojet Rocketdyne, subsidiary of Aerojet Rocketdyne Holdings, Inc., successfully tested their thrust chamber assembly which was manufactured by the additive process. The thrust chamber was built to integrate in the RL10 rocket engine and other propulsion systems. Such initiatives made by the companies in the industry has influenced the aerospace 3D printing market to grow.

- Global Aerospace 3D Printing Market – By Type
  - Plastics
  - Metals
  - Ceramics
  - Others

- Global Aerospace 3D Printing Market – By Material Application
  - Engine
  - Structural Components
  - Space Components

- Global Market – By Form
  - Filament
  - Powder
  - Liquid

- Global Market – By Process
  - Binder Jetting, Material Extrusion
  - Direct Energy Deposition
  - Powder Bed Fusion
  - Sheet Lamination
  - Material Jetting
  - Vat Photo-Polymerization

- Global Aerospace 3D Printing Market – By Printers Technology
  - Stereo Lithography (SLA)
  - Selective Laser Sintering (SLS)

- Fuse Deposition Modeling (FDM)
- Direct Metal Laser Sintering (DMLS)
- Polyjet Printing
- Inkjet Printing
- Laminated Object Manufacturing
- Digital Light Processing (DLLP)
- Electron Beam Melting (EBM)
- Laser Metal Deposition (LMD)
- Continuous Liquid Interface Production (CLIP)

- Global Aerospace 3D Printing Market – By Application
  - Aircraft
  - UAV
  - Spacecraft

- Global Market – By Region
  - North America
    - U.S.
    - Rest of North America
  - Europe
    - France
    - The UK
    - Spain
    - Germany
    - Italy
    - Rest of Europe
  - Asia Pacific
    - China
    - Japan
    - India
    - Southeast Asia
    - Rest of Asia Pacific
  - Middle East and Africa
    - GCC Countries
    - Southern Africa
    - Rest of Middle East and Africa
  - Latin America
    - Brazil
    - Rest of Latin America

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