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Global Hybrid Additive Manufacturing Market Size study & Forecast, by Material (Titanium, Aluminum, Steel, Nickel, Others) by End-use (Aerospace, Tooling and Mold, Medical, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Hybrid Additive Manufacturing Market is valued approximately USD 191.3 million in 2022 and is anticipated to grow with a healthy growth rate of more than 22.2% over the forecast period 2023-2030. Hybrid Additive Manufacturing (HAM) is a combination of different additive manufacturing (AM) processes with other manufacturing techniques, such as subtractive manufacturing or traditional machining. It involves integrating multiple manufacturing processes into a single system to leverage the advantages of each method and create complex and functional parts. In traditional additive manufacturing, such as 3D printing, objects are built layer by layer using various materials, including plastics, metals, and ceramics. While additive manufacturing provides numerous advantages like design flexibility, rapid prototyping, and reduced material waste, it may have limitations in terms of surface finish, accuracy, and material properties. The key factors driving the market growth are growing demand in aerospace and medical sectors, growing demand for customized products, development of new and improved technologies and materials, and relatively lower production cost for rapid manufacturing that is anticipated to support the market growth during the forecast period 2023-2030.

Moreover, the growing military aircraft and aerospace manufacturing market has a significant impact on the growth of the Hybrid Additive Manufacturing (AM) market. The military aircraft and aerospace industries often require the production of complex and customized parts with intricate designs. Hybrid AM technologies offer the capability to produce these complex parts by combining subtractive and additive processes. Additive

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manufacturing allows for the creation of intricate geometries and lightweight structures, while subtractive manufacturing can be used for precision finishing. The ability to produce complex parts efficiently makes Hybrid additive manufacturing a valuable solution for the military and aerospace sectors. Thus, the growing military aircraft and aerospace manufacturing is anticipated to support the market growth. According to Statista, in 2020 the global military aircraft and aerospace manufacturing market was valued at USD 243 billion and the market is increased significantly and reached USD 255.76 billion in 2021. Additionally, growing industrialization, and rising technological advancement is anticipated to create a lucrative opportunity for the market during the forecast period. However, the lack of standardized equipment and process control stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Hybrid Additive Manufacturing Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the presence of key market players, growing high disposable incomes, rapid product development, low cost of manufacturing, and supportive government initiatives. Whereas, the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as growing industrialization, increasing demand for advanced manufacturing technologies, government initiatives and support, and rapid technological advancements in the region.

Major market player included in this report are:

Materialise NV

H?gan?s AB

GENERAL ELECTRIC

Renishaw plc.

3D Systems, Inc.

GKN Powder Metallurgy

Sandvik AB

ExOne

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voxeljet AG

CRS Holdings, LLC

Recent Developments in the Market:

In February 2021, the Newly Upgraded VARIAXIS i-800 NEO 5-Axis Machine was unveiled by Mazak. With a powerful CNC, faster machining cycle times, increased workpiece capacities, and additional automation possibilities, the VARIAXIS i-800 NEO Vertical Machining Centre offers an improved version of a well-liked 5-axis machine.

Global Hybrid Additive Manufacturing Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Material, End-use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

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The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Material:

Titanium

Aluminum

Steel

Nickel

Others

By End-use:

Aerospace

Tooling And Mold

Medical

Others

By Region:

North America

U.S.

Canada

Europe

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UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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CHAPTER 9. RESEARCH PROCESS

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