

Aerospace Rivets Market Forecasts to 2030 – Global Analysis By Rivet Type (Solid Rivets, Blind Rivets, Tubular Rivets, Semi-Tubular Rivets, Drive Rivets, Split Rivets and Structural Rivets), Material Type, Aircraft Type, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Aerospace Rivets Market is accounted for \$293.99 million in 2024 and is expected to reach \$529.41 million by 2030 growing at a CAGR of 10.3% during the forecast period. Aerospace rivets are essential fasteners used in the construction of aircraft, spacecraft, and other aerospace components. Aerospace rivets are used extensively in primary and secondary structures, such as fuselages, wings, and engine mounts. The market for aerospace rivets is constantly changing due to advancements in manufacturing techniques and materials, which help create lighter, more durable, and fuel-efficient aerospace designs. Moreover, these rivets are made from high-strength materials like steel, titanium, or aluminum and are designed to securely join a variety of materials.

According to the Aerospace Industries Association (AIA), the U.S. aerospace and defense industry generated \$955 billion in total business output in 2023, with \$533 billion directly from the industry and nearly \$422 billion through the domestic supply chain.

Market Dynamics:

Driver:

Growth in the aerospace sector

Due to increased air travel, the need for more sophisticated aircraft, and growing space exploration activities, the global aerospace industry is expanding significantly. Aerospace rivets are especially needed in the commercial aviation industry, which is driven by the demand for both passenger and cargo aircraft. The increased production of new aircraft models and next-generation aircraft, like the Airbus A350 and Boeing 787, calls for strong and dependable fastening solutions like rivets. Additionally, the need for aerospace rivets has also increased due to the expansion of satellite launches and space exploration, since these rivets are necessary for the construction of spacecraft structures.

Restraint:

Expensive production costs

Aerospace rivets are produced using intricate manufacturing procedures, especially those composed of cutting-edge materials like titanium, high-strength aluminum alloys, and specialty composites. Expensive rivet production is the result of high raw material costs and the requirement for precise manufacturing to satisfy aerospace industry standards. In the aerospace supply chain, these high prices can be a major obstacle, particularly for small and mid-sized manufacturers. Furthermore, production costs are further raised by the requirement for specialized machinery and trained labor to maintain quality control, which may restrict some players' access to markets, particularly in areas or applications where costs are a concern.

Opportunity:

Growth in commercial satellites and space exploration

A significant opportunity exists for aerospace rivet manufacturers due to the growing interest in satellite deployment, space exploration, and commercial space operations on a global scale. As private companies like Blue Origin, SpaceX, and others continue to push the limits of space technology, high-performance fasteners that can endure the harsh conditions of space are needed. Because they must withstand high temperatures, radiation, and mechanical stresses, aerospace rivets are essential parts of spacecraft, launch vehicles, and satellite systems. Moreover, aerospace rivets have an exciting future in the expanding space industry, which includes the creation of low Earth orbit (LEO) satellites and the possibility of space tourism.

Threat:

Rivalry from other fastening technologies

The growing competition from alternative fastening technologies is one of the main threats to the aerospace rivets market. Although rivets have long been trusted for their strength and dependability, other fastening techniques like bolts, screws, and adhesive bonding are gradually replacing or enhancing them. Additionally, these substitutes have a number of benefits, such as simpler installation, reusability, and occasionally the possibility of weight reduction—a crucial factor in aerospace applications. For instance, adhesive bonding can completely do away with the need for rivets and holes, which lowers weight and assembly complexity.

Covid-19 Impact:

Due to the sharp drop in international air travel, which resulted in fewer aircraft being produced and maintained, the COVID-19 pandemic had a major effect on the aerospace rivets market. The need for new airplanes and the parts they require, like rivets, significantly declined as a result of numerous airlines grounding their fleets and aerospace manufacturers stopping or postponing production. The problems faced by rivet manufacturers were further exacerbated by disruptions in global supply chains, which resulted in raw material shortages and production schedule delays. Furthermore, the pandemic compelled many businesses to concentrate on cost-cutting strategies, which resulted in lower investments in R&D and slowed the rate of advancement in aerospace fastener technologies.

The Structural Rivets segment is expected to be the largest during the forecast period

The market for aerospace rivets is expected to be largest share by the structural rivets segment. These rivets are frequently used in the assembly of crucial aircraft structures, such as the fuselage, wings, and engine parts, and are especially made for high-strength applications. Moreover, structural rivets provide exceptional strength and dependability in demanding environments because they are composed of sturdy materials like steel, titanium, and aluminum. Because of their ability to tolerate high stress, temperature changes, and vibration, they are crucial to the longevity and safety of aerospace structures. Structural rivets' dominant market position is a result of their widespread preference in both commercial and military aerospace applications.

The Military Aircraft segment is expected to have the highest CAGR during the forecast period

In the market for aerospace rivets, the military aircraft segment is anticipated to grow at the highest CAGR. The demand for military aircraft is being driven by rising global defense spending and military fleet modernization, which in turn is increasing the need for dependable and high-strength rivets for crucial components. Because military aircraft must withstand harsh operating conditions, such as high altitudes and extremely high speeds, aerospace rivets are widely used in their assembly. Additionally, the need for specialty rivets that can maintain structural integrity in harsh environments is growing as defense forces worldwide concentrate on modernizing their aircraft with cutting-edge materials and technologies.

Region with largest share:

Due to the presence of major aerospace manufacturers like Boeing, Lockheed Martin, and General Electric, as well as a strong defense industry, the North American region is expected to hold the largest share of the aerospace rivets market. Because of the region's large aerospace and defense sector and substantial R&D expenditures, there is a need for high-quality rivets for the manufacture of both military and commercial aircraft. Furthermore, propelling the expansion of the rivets market is North America's established aerospace component supply chain. The region continues to dominate the global aerospace rivets market, due in part to its strong emphasis on defense spending, modernizing the aircraft fleet, and technological advancements.

Region with highest CAGR:

The aerospace rivets market is anticipated to grow at the highest CAGR in the Asia Pacific region. The demand for rivets and other aerospace components is being driven by the region's fast expansion in the defense and aerospace industries, especially in nations like China and India. The need for strong, long-lasting rivets is growing as a result of growing military modernization expenditures, growing commercial aviation fleets, and the creation of aerospace component manufacturing hubs. The region's strategic focus on improving domestic aircraft production capabilities and the rise of up-and-coming aerospace companies also support the market's strong expansion.

Key players in the market

Some of the key players in Aerospace Rivets market include TFI Aerospace Corporation, The Boeing Company, 3M Company, Parker Hannifin Corporation, Howmet Aerospace, LISI Aerospace, Stanley Black & Decker, Inc., B&B Specialties Inc,

Wesco Aircraft Holdings and Inc, TriMas Corporation, National Aerospace Fasteners Corporation (NAFCO), Precision Castparts Corp Co., Ltd., 3V Fasteners Company Inc., Ingersoll Rand and LAS Aerospace Ltd.

Key Developments:

In July 2024, Parker Hannifin Corporation announced it has signed an agreement to divest its North America Composites and Fuel Containment (CFC) Division to private investment firm SK Capital Partners. With the completion of this transaction the company will have successfully divested businesses and product lines over the past three years that total nearly \$450 million in annual sales. The transaction is subject to customary closing conditions.

In March 2024, 3M and HD Hyundai Korea Shipbuilding & Marine Engineering (KSOE) have signed a joint research project agreement to develop large liquid hydrogen storage tanks using Glass Bubbles from 3M – a high-strength, low-density hollow glass microsphere. The collaborative research will focus on developing a high-performance vacuum insulation system for liquified hydrogen storage and transportation.

In December 2023, Stanley Black & Decker Company announced it has entered into a definitive agreement to sell STANLEY Infrastructure, the Company's attachment and handheld hydraulic tools business, to Epiroc AB for \$760 million in cash.

Rivet Types Covered:

Solid Rivets

Blind Rivets

Tubular Rivets

Semi-Tubular Rivets

Drive Rivets

Split Rivets

Structural Rivets

Material Types Covered:

Aluminum

Steel

Stainless Steel

Composite

Other Material Types

Aircraft Types Covered:

Fixed Wing Aircraft

Commercial Aircraft

Narrow Body Aircraft

Wide Body Aircraft

Very Large Aircraft

Business Aircraft

General Aviation Aircraft

Military Aircraft

Rotary Wing Aircraft

Military Helicopters

Civil Helicopters

End Users Covered:

Original Equipment Manufacturer (OEM)

Maintenance, Repair, and Overhaul (MRO)

Commercial Aviation

Military Defense

Space Exploration

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030

- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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