

Aerospace Bearings & Fasteners Market Forecasts to 2034 - Global Analysis By Product Type (Bearings and Fasteners), Material, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Aerospace Bearings & Fasteners Market is accounted for \$4.6 billion in 2026 and is expected to reach \$7.7 billion by 2034 growing at a CAGR of 6.8% during the forecast period. Aerospace bearings and fasteners play a vital role in maintaining aircraft functionality, structural strength, and dependable assembly. Bearings facilitate efficient, low-friction movement across engines, landing gear, control mechanisms, and rotating systems, whereas fasteners provide secure connections between airframe sections and essential components. Designed for challenging aerospace environments, these products must tolerate heat, vibration, pressure, corrosion, and substantial mechanical stresses. Growth in aircraft manufacturing, fleet replacement, maintenance, and lightweight aircraft development is driving demand for precision-engineered, durable, and advanced-material solutions that enhance operational reliability and longevity.

According to the Federal Aviation Administration (FAA), the U.S. commercial aircraft fleet is forecast to increase from 7,387 aircraft in 2024 to 10,607 aircraft in 2045, representing an average annual growth rate of 1.7%. Increasing air-travel and air-cargo demand is expected to support fleet expansion, creating sustained requirements for aircraft components, including bearings and fasteners.

Market Dynamics:

Driver:

Increasing aircraft production and fleet expansion

The expansion of aircraft manufacturing and fleet sizes is significantly increasing

demand for aerospace bearings and fasteners. These components are extensively used in engines, landing systems, flight controls, structural assemblies, and airframes, creating substantial requirements across new aircraft programs. Rising passenger traffic, military fleet upgrades, and the retirement of older aircraft are encouraging additional deliveries and component consumption. At the same time, aerospace manufacturers are pursuing lighter, stronger, and more durable structures, which are accelerating adoption of sophisticated bearings and fasteners designed to deliver dependable performance under demanding operating conditions.

Restraint:

High manufacturing and material costs

Elevated production and material expenses can constrain growth in the aerospace bearings and fasteners market. Aerospace-grade components require high-quality alloys, precision manufacturing, specialized surface treatments, extensive testing, and rigorous quality assurance to meet industry requirements. Expensive materials such as titanium, nickel alloys, and advanced stainless steels further increase manufacturing costs. Companies must also allocate substantial resources toward specialized machinery, inspection technologies, and certification. Consequently, higher production expenditures may increase component prices, restrict purchasing flexibility, and pressure manufacturers to balance affordability, performance, safety, and long-term reliability.

Opportunity:

Adoption of advanced materials and manufacturing technologies

The growing use of sophisticated materials and modern production methods is creating attractive growth opportunities for aerospace bearing and fastener suppliers. Technologies such as additive manufacturing, precision processing, surface treatments, and advanced coatings allow companies to produce components with improved strength, reduced weight, and greater durability. High-performance alloys, composites, and engineered coatings can enhance resistance to heat, corrosion, friction, and wear. Investment in these capabilities enables manufacturers to deliver customized designs, optimize material consumption, improve manufacturing efficiency, and meet increasingly demanding performance expectations throughout the aerospace industry.

Threat:

Supply chain disruptions and raw material volatility

Aerospace bearings and fastener manufacturers face risks from unstable supply chains

and fluctuations in material prices. Production relies heavily on specialized metals and engineered materials, including titanium, nickel-based alloys, and stainless steel, whose availability and costs can change significantly. Transportation problems, geopolitical conflicts, trade barriers, and supplier limitations can intensify these challenges. Consequently, disruptions may raise manufacturing expenses, delay component deliveries, and complicate production planning. Maintaining dependable material supplies and stable procurement channels is therefore becoming increasingly important for companies serving international aerospace manufacturers and programs.

Covid-19 Impact:

The COVID-19 pandemic adversely affected the aerospace bearings and fasteners market through lower aircraft manufacturing, reduced fleet utilization, postponed maintenance, and weaker airline investments. Restrictions on international travel and declining passenger traffic encouraged airlines to delay new aircraft acquisitions and maintenance activities, lowering requirements for aerospace components. The aviation supply chain also experienced workforce reductions, financial pressure, and manufacturing disruptions. Nevertheless, improving air travel activity and the gradual recovery of aircraft production supported renewed demand for bearings and fasteners as aerospace operations returned toward normal levels.

The stainless steel segment is expected to be the largest during the forecast period

The stainless steel segment is expected to account for the largest market share during the forecast period due to its excellent combination of mechanical strength, corrosion resistance, durability, and dependable operating performance. Its ability to withstand environmental exposure and demanding conditions makes it suitable for components experiencing moisture, temperature changes, vibration, and continuous mechanical stresses. Specialized stainless steel grades provide the hardness and fatigue properties necessary for bearing applications, while also delivering secure and durable connections in fastening systems. These advantages allow stainless steel to serve diverse applications throughout aerospace equipment and aircraft structures.

The UAVs (unmanned aerial vehicles) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the UAVs (unmanned aerial vehicles) segment is predicted to witness the highest growth rate, supported by demand for lightweight, compact, dependable, and high-performance components. Bearings enable efficient motion across propulsion units, actuators, control mechanisms, landing systems, and rotating assemblies, whereas fasteners maintain secure airframe connections. Expanding UAV applications in defense, monitoring, delivery, infrastructure inspection, agriculture, and specialized operations are stimulating component innovation. Suppliers are developing products capable of handling vibration, changing temperatures, repeated stresses, and

challenging operating environments encountered by modern unmanned aircraft platforms.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to its mature aviation industry, significant aircraft manufacturing base, and substantial defense activities. The region has numerous aircraft and propulsion manufacturers, specialized component producers, sophisticated production facilities, and well-developed MRO infrastructure. Continued aircraft manufacturing, military fleet upgrades, aftermarket requirements, and component replacement contribute to sustained demand. Furthermore, advanced engineering capabilities, established aerospace supply networks, technological development, and rigorous quality requirements help reinforce North America's strong position within the global aerospace bearings and fasteners industry.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by increasing aircraft demand, defence modernization, and developing aerospace production capabilities. Countries including China, India, and Japan are investing in aircraft manufacturing, MRO facilities, and regional aerospace supply networks. Rising air passenger volumes and expanding airline fleets are stimulating demand for critical components. Furthermore, government support, investment in manufacturing infrastructure, and efforts to develop domestic aerospace industries are encouraging component production and strengthening the market opportunities available to bearings and fasteners manufacturers.

Key players in the market

Some of the key players in Aerospace Bearings & Fasteners Market include AB SKF, RBC Bearings Incorporated, The Timken Company, NTN Corporation, JTEKT Corporation, Schaeffler Group, Precision Castparts Corp, LISI Aerospace S.A.S, Howmet Aerospace, TriMas Corporation, NAFCO (National Aerospace Fasteners Corporation), Stanley Engineered Fastening, Shur-Lok International, Allfast, Inc., Monogram Aerospace Fasteners, KLX Inc., Wesco Aircraft Holdings, Inc. and B&B Specialties, Inc.

Key Developments:

In August 2026, Schaeffler and CATL have signed a MoU in the field of e-mobility. The agreement builds on an already secured customer project and covers the joint development of automotive Battery Management Systems (BMS) as well as “X-in-1”

IPB solutions. Through this collaboration, both companies are expanding their strategic partnership and combining their technological and industrial strengths to advance innovative electrification solutions for the European market and beyond.

In August 2026, RBC Bearings Incorporated announced that its Dodge Industrial, Inc. subsidiary has acquired the business assets of PSC Couplings, LLC ("PSC"), a manufacturer of disc coupling solutions, for a cash purchase price of \$24.2 million. PSC manufactures a wide range of high quality, standard and custom disc couplings for a variety of industrial applications that demand a high level of reliability and performance. PSC's net sales for the last 12 months were approximately \$15.1 million.

Product Types Covered:

Bearings

Fasteners

Materials Covered:

Stainless Steel

Titanium

Aluminum

Composites

Other Alloys

Applications Covered:

Commercial Aircraft

Military Aircraft

Helicopters

Spacecraft

UAVs (Unmanned Aerial Vehicles)

End Users Covered:

OEM (Original Equipment Manufacturer)

Aftermarket

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

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