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Aerospace Supply Chain & Logistics Market Forecasts to 2034 - Global Analysis By Supply Chain Stage (Raw Material Procurement, Component & Subsystem Manufacturing, Final Assembly & Integration, Distribution & Warehousing and Aftermarket & MRO Logistics), Logistics Function, Mode of Transport, Technology & Solutions, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Aerospace Supply Chain & Logistics Market is accounted for $122.1 billion in 2026 and is expected to reach $191.7 billion by 2034 growing at a CAGR of 5.8% during the forecast period. Aerospace supply chain and logistics involve managing the procurement, movement, storage, and delivery of aircraft parts, materials, systems, and associated products. These operations demand exceptional coordination due to stringent quality requirements, technical specifications, safety regulations, and time-sensitive deliveries. Modern logistics platforms enhance supply chain visibility among suppliers, aircraft manufacturers, maintenance organizations, and airlines. Technologies such as digital tracking, predictive analytics, automated inventory systems, and data integration strengthen operational performance. Efficient supply chain practices minimize disruptions, improve inventory utilization, lower expenses, and support continuous aerospace manufacturing and maintenance operations.

According to the FAA, the U.S. commercial aircraft fleet is forecast to increase from 7,387 aircraft in 2024 to 10,607 in 2045, representing an average annual growth rate of 1.7%. The FAA identifies increasing air-travel and air-cargo demand as key factors supporting fleet expansion, which consequently increases demand for aerospace supply chain and logistics activities.

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Market Dynamics:

Driver:

Growing air travel and aircraft production

Rising air passenger traffic and higher aircraft manufacturing activity are significantly supporting the aerospace supply chain and logistics market. Airlines continue to expand their fleets, while manufacturers increase output to address substantial aircraft demand. This growth strengthens the need for efficient sourcing, inventory management, transportation, warehousing, and component distribution. Logistics providers are required to handle specialized aerospace materials while meeting demanding quality and delivery standards. Increasing aircraft complexity further emphasizes the importance of reliable supply networks capable of supporting production programs, maintenance requirements, spare-parts distribution, and ongoing airline fleet operations.

Restraint:

High regulatory compliance and quality requirements

Strict safety regulations and demanding quality standards represent a significant restraint for the aerospace supply chain and logistics market. Aerospace parts and materials require extensive certification, documentation, testing, inspection, and traceability before reaching their intended destinations. Companies must also comply with complex transportation and handling regulations across different jurisdictions. Maintaining these requirements throughout interconnected supply networks can increase administrative workloads and operating expenses. Furthermore, lengthy approval processes may delay shipments and component availability, creating challenges for manufacturers, suppliers, logistics providers, and maintenance organizations that depend on timely deliveries.

Opportunity:

Adoption of advanced digital logistics solutions

The growing implementation of sophisticated digital logistics technologies creates substantial growth opportunities for the aerospace supply chain and logistics market. Solutions based on artificial intelligence, IoT, blockchain, cloud platforms, and predictive analytics can strengthen shipment tracking, inventory control, demand planning, and supplier collaboration. Such capabilities allow companies to detect supply chain issues more quickly while improving transportation and storage efficiency. Enhanced digital connectivity also facilitates real-time communication throughout extensive aerospace supplier networks. As industry participants seek greater visibility, transparency, and

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operational control, technology-driven logistics services can gain wider adoption.

Threat:

Geopolitical instability and trade restrictions
Political tensions and geopolitical uncertainty can substantially threaten aerospace supply chain and logistics operations due to the industry's reliance on global suppliers and international transportation networks. Armed conflicts, sanctions, trade disagreements, export limitations, and regulatory changes can disrupt the availability and movement of aerospace components and materials. These conditions may raise logistics expenses, prolong delivery times, and restrict access to important suppliers. Companies may need to diversify sourcing arrangements, establish backup suppliers, and maintain additional inventory to manage disruptions, potentially increasing costs and making global aerospace supply networks more difficult to coordinate.
Covid-19 Impact:
COVID-19 created substantial challenges for aerospace supply chain and logistics operations through declining passenger traffic, reduced aircraft manufacturing, and disrupted global transportation networks. Government restrictions, closed production facilities, border controls, and labor shortages affected the sourcing and distribution of aerospace materials and components. Airlines scaled back operations and postponed fleet investments, reducing supply chain activity. Meanwhile, fewer passenger services reduced available cargo space for urgent shipments. Nevertheless, air freight continued supporting global logistics by transporting vaccines, medical equipment, and essential products, helping sustain parts of the aviation supply network during the pandemic.
The distribution & warehousing segment is expected to be the largest during the forecast period
The distribution & warehousing segment is expected to account for the largest market share during the forecast period, supported by the industry's need for dependable storage, inventory control, and component delivery. It facilitates the movement of aircraft parts, materials, equipment, and assemblies between suppliers, manufacturers, airlines, and maintenance providers. Effective warehousing and distribution systems help maintain component availability, streamline order fulfillment, and coordinate transportation activities. Because aerospace products require specialized handling, traceability, and precise delivery, efficient distribution networks are essential for maintaining smooth manufacturing, maintenance, and operational processes.
The space agencies segment is expected to have the highest CAGR during the forecast period
Over the forecast period, the space agencies segment is predicted to witness the highest growth rate, driven by expanding government-led space programs, satellite

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missions, exploration initiatives, and scientific projects. Such programs create increasing requirements for specialized sourcing, transportation, warehousing, handling, and distribution of spacecraft systems and mission-critical equipment. Investments in launch facilities and advanced space technologies are further strengthening logistics demand. Additionally, the specialized nature of space missions requires dependable supply networks capable of meeting demanding technical specifications, security standards, quality controls, and precise delivery schedules.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to its mature aerospace industrial base, extensive supplier infrastructure, major aircraft manufacturers, and sophisticated transportation networks. Strong commercial aviation, military programs, aircraft manufacturing, and MRO activities contribute to sustained logistics requirements throughout the region. The United States provides a particularly extensive ecosystem of aerospace companies and suppliers, while Canada contributes specialized manufacturing, components, and maintenance capabilities. Together, these strengths support the continued expansion and integration of aerospace supply chain and logistics activities.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR as aviation activity, aircraft fleets, manufacturing capacity, and MRO operations continue expanding across the region. Rising aircraft deliveries in countries such as China, India, and Southeast Asian markets are increasing the need for efficient procurement, transportation, storage, and spare-parts distribution. Growing investments in aerospace production facilities, logistics infrastructure, and maintenance capabilities are also supporting supply chain development. These trends are strengthening demand for advanced, reliable, and specialized logistics solutions throughout the regional aerospace ecosystem.

Key players in the market

Some of the key players in Aerospace Supply Chain & Logistics Market include TVS Supply Chain Solutions, ALA Group, DHL, Kuehne+Nagel, UPS, DB Schenker, FedEx, CEVA Logistics, Yusen Logistics, Omni Logistics, LLC, SEKO Logistics, Crane Worldwide Logistics, Blue Water Shipping, B&H Worldwide, Dimerco, Aeromed Group, Northrop Grumman and Rocket Lab.

Key Developments:

In March 2026, FedEx is launching a same-day shipping program with last-mile delivery

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company OneRail, just after Amazon announced it will start offering quicker shipping times, CNBC has learned exclusively. The new partnership means customers now have a definite “by end-of-day offering,” according to Jason Brenner, FedEx’s senior vice president of digital.
In September 2025, UPS and American Express announced an expanded agreement to help small businesses grow and drive commerce in their communities. For the first time, UPS and American Express are rolling out new and exclusive offers to support small and medium-sized businesses (SMBs).
In August 2025, DHL Express and the Cathay Group have entered into a new sustainable aviation fuel (SAF) partnership that reinforces their shared commitment to reducing greenhouse gas emissions in the air cargo industry. Under the agreement, Cathay will supply DHL Express with 2,400 metric tons of SAF for international flights departing from three airports in Asia namely Seoul Incheon International Airport, Tokyo Narita International Airport, and Singapore Changi Airport.

Supply Chain Stages Covered:

Raw Material Procurement

Component & Subsystem Manufacturing

Final Assembly & Integration

Distribution & Warehousing

Aftermarket & MRO Logistics

Logistics Functions Covered:

Inbound Logistics

Outbound Logistics

Reverse Logistics

Last-Mile Delivery

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Mode of Transports Covered:

Air Freight

Sea Freight

Road Transport

Rail Transport

Technology & Solutions Covered:

Digital Supply Chain Platforms

IoT & Asset Tracking

Blockchain for Traceability

Robotics & Automation in Warehousing

AI & Predictive Analytics

End Users Covered:

OEMs

Tier-1 & Tier-2 Suppliers

Airlines & Operators

Defense Agencies

Space Agencies

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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

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- 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

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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

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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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