

Aerospace & Defense Fluid Conveyance Systems Market by Aircraft Type (Commercial Aircraft, Regional Aircraft, General Aviation, Helicopter, Military Aircraft, and Others), by Application Type (Fuel, Air, and Hydraulic), by Product Type (Hoses, Low-Pressure Ducts, and High-Pressure Ducts), by Material Type (Nickel & Alloys, Titanium & Alloys, Stainless Steel & Alloys, Composites, and Others), and by Region (North America, Europe, Asia-Pacific, and Rest of the World), Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2018-2023

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Abstracts

This is the ONGOING report. If ordered it could be delivered in 2-3 weeks timeframe.

This report, from Stratview Research, studies the global fluid conveyance systems market in the aerospace and defense industry over the trend period of 2012 to 2017 and the forecast period of 2018 to 2023. The report provides detailed insights into the market dynamics to enable informed business decision-making and growth strategy formulation based on the opportunities present in the market.

The Global Aerospace and Defense (A&D) Fluid Conveyance Systems Market:
Highlights

The global aerospace & defense fluid conveyance systems market is likely to grow at a healthy rate over the next five years to reach US\$ 4.3 billion in 2023. Increasing

production rates of commercial and regional aircraft, rising aircraft fleet size, increasing demand for lightweight fluid conveyance systems, and an advancement in fluid conveyance technology to address the emerging requirements for the development of high-thrust turbofan engines are major growth drivers of the market. The fluid conveyance system manages and distributes fluids in the low- as well as high-pressure and high-temperature areas of fixed-wing and rotary wing aircraft for civil and military applications.

The global aerospace & defense fluid conveyance systems market is segmented based on the aircraft type as Commercial Aircraft, Regional Aircraft, General Aviation, Helicopter, Military Aircraft, and Others. Commercial aircraft is projected to remain the largest and fastest-growing segment of the aerospace & defense fluid conveyance systems market during the forecast period, driven by increasing production rates of the best-selling aircraft, such as A320 family, B737, B787, and A350XWB and rising aircraft fleet size. Composite materials will continue to gain the market traction over the next five years by replacing metals, such as aluminum and stainless steel.

Based on the product type, the global aerospace & defense fluid conveyance systems market is segmented as Hoses, Low-Pressure Ducts, and High-Pressure Ducts. Hoses are designed to convey fluids to components, valves, actuators, and tools. A hose is typically flexible, often reinforced and usually constructed with several layers of reinforcement. Teflon, rubber, kevlar, thermoplastic, and stainless steel are the key materials used to manufacture hoses.

High-pressure ducts are deployed throughout the aircraft, from the engines, through the fuselage, to the leading edges of the wings. The major applications of high-pressure ducting systems are environmental control system (ECS systems), engine bleed air, thermal anti-ice systems, APU air intake/exhaust, fuel tank inerting systems, and engine starter duct systems. All the major players are using exotic metals, such as nickel and titanium to provide absolute optimum ducting system solutions.

Low-pressure ducts are used in low-temperature and low-pressure applications, such as cabin sidewall riser duct, transition duct, acoustic silencer, windscreen demisting, flight deck air distribution, flight deck instrumentation cooling, avionics ventilation, cabin recirculation, and air-conditioning supply. Composites and aluminum are the most preferred materials for low-pressure ducting.

Based on regions, North America is expected to remain the largest market for global aerospace & defense fluid conveyance systems over the next five years. The region is

the manufacturing capital of the aerospace & defense industry with the presence of several major players, such as Boeing, Lockheed Martin, and Bombardier and the presence of major fluid conveyance manufacturers. Asia-Pacific is likely to experience the highest growth, driven by the commencement of commercial and regional aircraft manufacturing in China and Japan, the introduction of offset policy, and increasing defense spending.

The supply chain of this market comprises raw material manufacturers, fluid conveyance system manufacturers, aircraft engine OEMs, aircraft OEMs, and airline companies. The key aerospace engine manufacturers are CFM, GE Aviation Engines, Pratt & Whitney, and Rolls-Royce. The key aircraft OEMs are Boeing, Airbus, Lockheed Martin, Bombardier, Embraer, ATR, Cessna, and Gulfstream. The key fluid conveyance system manufacturers for the aerospace & defense industry are Eaton Aerospace, Parker Hannifin Corporation, Senior Aerospace, PFW Aerospace, Zodiac Aerospace, ITT Aerospace, and Unison Industries. New product development, formation of long-term contracts, and collaboration with OEMs are the key strategies adopted by the major players to gain a competitive edge in the market.

Research Methodology

This report offers high-quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 1,500 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles have been leveraged to gather the data. More than 12 detailed primary interviews with the market players across the value chain in all four regions and industry experts have been executed to obtain both qualitative and quantitative insights.

Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis

Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

Market trend and forecast analysis

Market segment trend and forecast

Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.

Attractive market segments and associated growth opportunities

Emerging trends

Strategic growth opportunities for the existing and new players

Key success factors

The global aerospace & defense fluid conveyance systems market is segmented into the following categories.

Global Aerospace & Defense (A&D) Fluid Conveyance Systems Market by Aircraft Type:

Commercial Aircraft

Regional Aircraft

General Aviation

Helicopter

Military Aircraft

Others

Global Aerospace & Defense (A&D) Fluid Conveyance Systems Market by Application Type:

Fuel-based Systems

Air-based Systems

Hydraulic-based Systems

Global Aerospace & Defense (A&D) Fluid Conveyance Systems Market by Product Type:

Hoses

High-Pressure Ducts

Low-Pressure Ducts

Global Aerospace & Defense (A&D) Fluid Conveyance Systems Market by Material Type:

Nickel & Alloys

Titanium & Alloys

Stainless Steel & Alloys

Composites

Teflon

Others

Global Aerospace & Defense (A&D) Fluid Conveyance Systems Market by Region:

North America

Europe

Asia-Pacific

Rest of the World

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- 10.12. Stelia Aerospace
- 10.13. Triumph Group Inc.
- 10.14. Unison Industries
- 10.15. Zodiac Aerospace

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