
Description: This report studies the global aerospace & defense fluid conveyance systems market over the period 2010 to 2021. The report provides detailed insights on the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Global Aerospace & Defense Fluid Conveyance Systems Market: Highlights

The fluid conveyance system manages and distributes the fluids in the low as well as high pressure & temperature areas of fixed winged and rotary winged aircraft, for both civil and military applications. Fluid conveyance systems comprises hoses & tubes, high pressure ducting system, low pressure ducting system and other components.

Hoses and tubes 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 hose.

High pressure ducting systems 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 system 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 high temperature metals, such as titanium and stainless steel as well as composites to provide absolute optimum ducting system solutions.

Low pressure ducts are used in the 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 conditioned supply. Composites and aluminum are the most preferred materials for the low pressure ducting systems.

The aerospace & defense fluid conveyance systems market offers a robust growth of 5.8% CAGR during the forecast period of 2016 to 2021 and reach $3.9 billion in 2021. Commercial aircraft is expected to remain the growth engine of the global aerospace & defense fluid conveyance systems market during the forecast period. Composite materials will continue to gain market traction over the next five years by replacing the metals.

North America is expected to remain the largest market for global aerospace & defense fluid conveyance systems over the next five years. Asia-Pacific region is likely to experience the fastest growth, driven by demand of ducting system in emerging economies, such as China and India.

The supply chain of this market comprises raw material manufacturers, fluid conveyance system manufacturers, Engine OEM, and aircraft OEMs, and airline companies. The key aerospace engine manufacturers are CFM, GE Aviation Engines, and Pratt & Whitney and key aircraft OEMs are Boeing, Airbus, Lockheed Martin, Bombardier, Embraer, ATR, Cessna, and Gulfstream.

The key fluid conveyance system manufacturers for aerospace & defense industry are Eaton Aerospace, Park Hannifin, Senior Aerospace, Zodiac Aerospace, ITT Aerospace, Flexfab, and Unison Industries. New product development, long term contracts, and collaboration with OEMs are the key strategies adopted by the key players to gain competitive edge in the market.

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