

Aerospace and Defense Industry: Market Research Report

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Abstracts

This report analyzes the worldwide markets for Aerospace and Defense Industry in US\$ Million by the following Segments: Aircraft Products & Services (Airframe, Aircraft Engine, Aircraft Components, Commercial Avionics, Military Avionics, In-flight Entertainment, & MRO), Missiles (Air-to-Air, Air-to-Surface, Air Defense, Surface-to-Surface, Antiship, Antitank, Bombs, Intelligent Munitions, & Others), Aircraft Training & Simulation (CBT & E-Learning, Commercial Flight Simulation, & Military Flight Simulation), C4ISR & Related (Unmanned Aerial Vehicle, Electronic Warfare, Mine Countermeasures, Naval Radar and Sonar, Chemical & Biological Agent Detectors, Infrared Imaging Systems and Components, Military Ground Communications, Land-Based Surveillance Radar, & Others), Space Equipment (Launch Vehicles, Communications Satellites, & Earth Observation Satellites), and GPS (Geotechnologies) (Commercial Satellite Imaging, Commercial Aerial Imaging, GIS Software, Commercial SAR Data, & Commercial SAR Software). The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America.

Annual estimates and forecasts are provided for the period 2016 through 2024.

Also, a five-year historic analysis is provided for these markets.

Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs.

The report profiles 326 companies including many key and niche players such as -

AAR CORP.

Airbus Group

Applied Radar, Inc.

Arianespace SA

BAE Systems Plc

Ball Aerospace & Technologies Corporation

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Aircraft Engine

Aircraft Components

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Military Avionics

In-flight Entertainment

MRO

Missiles

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Air-to-Surface Missile

Air Defense Missile

Surface-to-Surface

Antiship

Antitank

Bombs (Guided)

Intelligent Munitions

Others

Aircraft Training & Simulation

CBT & E-Learning

Commercial & Military Flight Simulation

C4ISR & Related

Unmanned Aerial Vehicle

Electronic Warfare

Mine Countermeasures

Naval Radar and Sonar

Chemical & Biological Agent Detectors

Infrared Imaging Systems and Components

Military Ground Communications
Land-Based Surveillance Radar
Others
Space Equipment
Launch Vehicles
Communications Satellites
Earth Observation Satellites
GPS (Geotechnologies)
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Commercial Aerial Imaging
GIS Software
Commercial SAR Data
Commercial SAR Software

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Artificial Intelligence Enabled Advanced Electronic Warfare (EW) Systems Help Airborne Platforms to Counter Threats from Adaptive Radars

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High Throughput Communication Satellites to Serve Unprecedented Demands for Video and Data Services

Market Outlook

2. PRODUCT OVERVIEW

Aircraft Products & Services

Airframe
Aircraft Engine
Aircraft Components
Commercial Avionics
Military Avionics
In-flight Entertainment
MRO
Missiles
Air-to-Air Missile
Air-to-Surface Missile
Air Defense Missile
Surface-to-Surface
Antiship
Antitank
Bombs (Guided)
Intelligent Munitions
Others
Specific Missiles
Air-Launched Surface-Attack Guided Missile (AGM)
AGM-88A/B/C High-speed Antiradiation Missile (HARM)
AGM-130 Missile (Weapons system)
AGM-154 Joint Standoff Weapon (JSOW)
AGM-65 Maverick
AGM-86B/C Air-Launched Cruise Missile
AGM-129A Advanced Cruise Missile
Airborne Tactical and Defense Missiles

AGM-142

Air-Launched Intercept-Aerial Guided Missile (AIM)
AIM-7 Sparrow
AIM-9 Sidewinder
AIM-120A Advanced Medium Range Air-to-Air Missile (AMRAAM)
Cluster Bomb Unit (CBU)
CBU-89 Gator
Enhanced Guided Bomb Unit (EGBU)
EGBU-15
Guided Bomb Units (GBU)
GBU-10 Paveway II

GBU-12 Paveway II
GBU-15
GBU-24 Paveway III
GBU-27
GBU-28
GBU-31/32 Joint Direct Attack Munitions (JDAM)
Mark (General Purpose Bomb)
MK-82
MK-83
MK-84
LGM - Silo-Launched Surface Attack Guided Missile
LGM-30G Minuteman III
LG-118A Peacekeeper
Air-to-Air Booster Cylinder
Tube Launched, Optically Tracked, and Wire Guided (TOW) Missile System
JDAM
Major Technologies in Air-to-Air Missiles Segment
Advanced Propulsion Technology
Ramjet
Solid-Fuel Ramjet
Integral Rocket Ramjet
Ducted Rocket Ramjet
Advanced Guidance/Seeker Technology
Active Radar
Imaging Infrared Focal Plane Array
Command-Inertial Guidance
Dual-Mode Seekers
Other Missile Technologies
Aircraft Training & Simulation
CBT & e-Learning
Military Training & Simulation
Commercial & Military Flight Simulation
Command, Control, Communications, Computers, Intelligence, Surveillance, and
Reconnaissance (C4ISR) & Related Systems
Unmanned Aerial Vehicles
UAV Tier Classification
Video Information Capability Enhancement System (VICE)
Electronic Warfare
Mine Countermeasures

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Chemical & Biological Agent Detectors
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Military Ground Communications
Land-Based Surveillance Radar
Others
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Satellite
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Burn
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The Communications Subsystem
The Structures Subsystem
The Thermal Control Subsystem
The Attitude Control Subsystem
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Commercial Satellite Imaging
Commercial Aerial Imaging
GIS Software
Commercial SAR Data
Commercial SAR Software
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Space-Based Earth Observation Systems
Major Remote Sensing Instruments and Satellites
Satellite Navigation System
The Galileo System
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Focus on Select Aircraft Types
Commercial Jets
Business Jets
Helicopters
Regional Jets
Aircraft – A Sneak Preview
An Aircraft Timeline
Commercial/Military Aircraft Models
Aircraft Categories
Military Aircraft
F-15E Strike Eagle (Fighter plane)
Armament

3. PRODUCT INTRODUCTIONS/INNOVATIONS

Bell Introduces Bell 407GX
Embraer Unveils the Phenom 300E Light Jet
Lockheed Martin Debuts New Satellite Buses Lineup
Boeing Launches 737 MAX 10 Airplane with High-Capacity LEAP-1B Engines
Airbus Launches Airbus Corporate Helicopters
Daher Announces TBM 910 Turboprop Aircraft
Embraer Rolls Out E195-E2 Aircraft

4. RECENT INDUSTRY ACTIVITY

TransDigm Acquires Extant Components Group
Philippine Airlines Selects Airbus Flight Hour Services for A350-900 Aircraft
Arianespace Signs Contract with Spaceflight to Launch Small Satellites on Vega SSMS POC Flight
CommutAir Selects EAMS as Heavy Maintenance Provider for ERJ-145 Aircraft
Derco Signs a Repair Agreement with Arkwin Industries
ATR Signs a Global Maintenance Agreement with Mandarin Airlines
Flynas Signs a Letter of Agreement with CFM International for the Purchase of 160 LEAP-1A Engines

American Airlines Selects GENx Engines to Power Boeing 787 Dreamliners

Bombardier and PSA Airlines Signs Extension of Heavy Maintenance Contract for the Airline's Fleet of CRJ Series Aircraft

JetBlue Selects Pratt & Whitney's GTF Engine to Power 45 Airbus A320neo Family Aircraft

Boeing Receives Order from Air Lease Corporation for 737 MAX 8 Airplanes

Lockheed Martin and Poland Signs an Agreement to Procure PAC-3 MSE Missile

The government of Poland Signs a Letter of Offer with the U. S. Government to Purchase IAMD Battle Command System

Kaman Composites – Vermont Expand its Manufacturing Capacity with ASC Autoclave

Airbus and the Luxembourg Government Signs a MoU to Establish a Framework on Aircraft Systems

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Lockheed Martin Receives a Contract from The U. S. Air Force to Provide Training Support Services for AFSOC

Rolls-Royce Wins an Order from Turkish Airlines for Trent XWB Engines

Lockheed Martin Receives Contract from The Missile Defense Agency for Modified Ballistic Re-Entry Vehicles

Sikorsky Enters into Equipment Distribution Agreement with HABCO Industries

Lockheed Martin Receives a Contract from The US Military Forces for PAC-3 Missiles

Emirates Signs an MoU to Acquire Up to 36 Additional A380 Aircraft

United Airlines Selects Multiple Honeywell Cockpit Technologies for 150 Boeing 737 MAX Airplanes

Hexcel to Acquire OPM's Aerospace & Defense Business

SpiceJet and CFM Sign an Agreement to Purchase LEAP-1B Engines

Bell Signs Purchase Agreement with Helisul Táxi Aéreo for Four Bell 505 Jet Ranger X Aircraft

The European Commission Approves Northrop Grumman's Acquisition of Orbital ATK

Bangkok Airways and ATR Signs a Contract for the Purchase of Four Additional ATR 72-600s

Daher Receives a Contract from Boeing to Provide Thermoplastic Composite Structural Parts for the Boeing 787 Airplanes

Hainan Airlines Signs a MOU with CFM for the Purchase of LEAP-1A Engines

Arianespace Enters into an Agreement with Intelsat to Launch Two Satellites

CFM Signs Agreement with Spring Airlines for the Purchase of 120 LEAP-1A Engines

Orbital ATK Signs a Cooperative R & D Agreement (CRADA) with the U. S. Air Force's Space and Missile Systems Center

Airbus Enters into a Purchase Agreement with Indigo Partners Family

Lockheed Martin Receives \$944 Million Contract for PAC-3 Missiles from The US

Military Forces

IAE Enters into 10-Year Maintenance Agreement with IAI for V2500 Engines

Thales to Acquire Gemalto

Qazaq Air Signs a Firm Purchase Agreement with Bombardier for Two New Q400

Turboprops

BAE Systems and the Government of Qatar Sign a Contract for the Supply of Typhoon Aircraft

Raytheon Establishes New Subsidiary - Raytheon Emirates

5. FOCUS ON SELECT GLOBAL PLAYERS

AAR CORP. (USA)

Airbus Group (Netherlands)

Applied Radar, Inc. (USA)

Arianespace SA (France)

BAE Systems Plc (United Kingdom)

Ball Aerospace & Technologies Corporation (USA)

Bombardier, Inc. (Canada)

CAE (USA)

CFM International Inc. (USA)

Dassault Aviation SA (France)

Delta TechOps (USA)

DigitalGlobe (USA)

Embraer SA (Brazil)

Esterline Technologies Corporation (USA)

FlightSafety International Inc. (USA)

GE Aviation (USA)

General Dynamics Corporation (USA)

Honeywell International, Inc. (USA)

Indra Sistemas, S. A. (Spain)

Israel Aerospace Industries Ltd (Israel)

Kaman Corporation (USA)

L3 Technologies, Inc. (USA)

L3 Link Training & Simulation (USA)

Leonardo S. p. A. (Italy)

Lockheed Martin Corporation (USA)

MBDA Missile Systems (USA)

Msp Aviation, Inc. (USA)

Northrop Grumman Corporation (USA)

Orbital ATK, Inc. (USA)
Planet Labs Inc. (USA)
Raytheon Company (USA)
Rockwell Collins, Inc. (USA)
Rolls-Royce Plc (United Kingdom)
RUAG AG (Switzerland)
Safran S. A. (France)
Space Exploration Technologies Corp (USA)
Textron Inc. (USA)
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A. Market Analysis

Outlook

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Procurement of Additional Ships, Aircraft and Investments in Key Technologies to Help Adapt to the Evolving Security Environment

Advances in US Air Force to Provide Precision Attack Capability against Current and Emerging Threats

US Army's Modernization Initiatives Aim at Reclaiming its Competitive Advantage to Counter Threats Posed by Near-peer Adversaries

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Department of Defense (DoD)

Federal Aviation Administration (FAA)

Department of Homeland Security (DHS)

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Environmental Regulations

Regulatory Framework for Defense Related Exports

Select Regulatory Bodies

The Office of Defense Trade Controls

The Bureau of Export Administration

Industry Structure

Challenges for Market Participants

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Rising Production Costs

Industry Structure Undergoing Transformation

Increasing Competition

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Product Launches

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Key Players

B. Market Analytics

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Bombardier, Inc. – A Key Canadian Player

B. Market Analytics

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Market Analysis

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A. Market Analysis

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Product Launch

Recent Industry Activity

B. Market Analytics

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A. Market Analysis

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B. Market Analytics

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A. Market Analysis

Recent Industry Activity

Key Players

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A. Market Analysis

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IV. COMPETITIVE LANDSCAPE

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Japan (14)
Europe (138)
 France (26)
 Germany (23)
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