



AERTEC



Aerospace Industry

➔ Engineering services
for the aircraft
industrial cycle

Let's talk **aeronautics**



→ Aerospace Industry

Engineering services for the aircraft industrial cycle



FAL A400 (Seville)
Spain

Our Services

- Aircraft design
- Facility & process design
- Manufacturing
- MRO
- General services



We participate in more than **17 aerospace programmes** with the main OEM's of the sector

#Aerospace
Industry



#TIER 1 for AIRBUS

Preferred strategic supplier EMES3

AERTEC is preferred strategic supplier EMES3 for Engineering, Manufacturing Engineering & Services Strategic Suppliers.



MRO

- Manufacturing engineering
- Planning and production control and coverage
- Jigs & tools
- Test systems engineering



Aircraft design

- Electrical systems and installations
- Simulators and test means
- Platform systems engineering
- Aeronautical software



Facility & process design

- Facility design
- Industrial process design



Manufacturing



- Manufacturing engineering
- Planning and production control and coverage
- Jigs & tools
- Quality services
- Test systems engineering

General services



- Project and programme management
- Software applications
- R&D projects
- Technology services

We participate in the following aerospace programmes:

- AIRBUS DS A400M / A330MRTT / CN235/295 / EUROFIGHTER / nEUROn / ATLANTE
- AIRBUS Beluga / A380 / A350XWB / A330neo / A321neo / A320neo / A320
- EMBRAER KC390 / E175-E2
- BOMBARDIER Global 7000/8000
- LEONARDO AW101



→ Our Services



An expert multidisciplinary team committed to the More Electric Aircraft (MEA) concept

Aircraft design

Electrical systems and installations

- Electrical design
- Harness design for manufacturing & Installation support
- Electrical systems analysis, V&V
- Testing for safety

Simulators and test means

- Technical specifications
- Engineering and design of ground support equipment
- Support to Test Bench MAIT and MRO
- Simulations: SW In the Loop, HW In the Loop

Plattform systems engineering

- Plattform systems specification support: flight control, electronic, actuation control, mission and PwP control systems
- Systems development verification/validation

Aeronautical software

- SW design / Architecture
- SW integration and testing



Facility & Process design

Industrialisation planning adapted to each client's specific requirements

Facility design

- Facility design
- Project management
- Construction works supervision

Industrial process design

- Facility layout design
- Logistics process definition
- Continuous Improvement
- Digital production simulation
- Digital processes simulation



Continuous improvement in aeronautical manufacturing

Manufacturing

Manufacturing engineering

- Processes industrialisation
- Configuration management
- Assembly, installations and production support
- Standardization and optimization of processes
- Data management

Planning and production control and coverage

- Master plan
- Operative plans
- Process standardization
- Performance of production activities
- Guarantee the supply chain of materials
- Control of the work order life cycle

Jigs & tools

- Tooling design, concept and layout
- 3D printing prototyping
- Tooling quality
- Automated systems
- On site Installation, commissioning and set up
- Project management
- Verification and validation
- Ergonomics and work process optimization
- Tooling end to end solution

Quality services

- Management of final inspections on the flight line
- Management of client inspections
- Registering, management and closure of faults in client information systems
- Prioritization of repeated faults
- Root cause analysis
- Initiation of corrective measures
- Customer acceptance delivery management support

Test systems engineering

- Bespoke test systems engineering
- Functional testing specification and integration tests
- Software for functional test management for production, maintenance and integration
- ICOTS equipment hardware integration
- Test means & autonomous systems end-to-end solutions
- Project management



Our expert knowledge of aerospace industry processes is fundamental in the design and development of bespoke solutions



Smarter Maintenance, Repair, and Overhaul

MRO

- Manufacturing engineering
- Planning and production control and coverage
- Jigs & tools
- Test systems engineering

FAL A400 (Seville)
Spain



Airbus (Hamburg)
Germany



Specialised engineering services aimed at improving processes, programme management and increasing the efficiency of the aeronautical industry

General services

Project and programme management

- Project set up
- Schedule, cost, resource and risk management
- Coordination of shared risk partners
- Monitoring and controlling of activities
- Project closure

Software applications

- Digitalization visual management tool
- Operative and master plan
- Material and tool management
- Management of pending actions and tasks
- Mass data management in a web environment
- Management of quality incidents with tablets

R&D projects

- Advanced aircraft concepts
- Optimization of electrical system
- Aircraft factory of the future
- Modular automation
- Automated part handling and positioning

Technology services

- i-Workbench
- Remote support
- Digitalization management tool (DMT)

Our added value lies in offering solutions that meet both aerospace industry and OEM's needs

#Aerospace



For more information
aertecsolutions.com



Broughton
United Kingdom

→ Our worldwide presence

Our projects speak for us

GERMANY

- Electrical design: Harness Design and Verification for A350 Wing (Latécoère)
- Electrical Design: Design & Build of Flight Test Instrumentation Harnesses A350-1000 Wings (Latécoère)
- Jigs & Tools: Technical specification, Concept Creation, Design & PM – SA ACT Restbauplatz H260 Hamburg (Airbus OP-GmbH)
- Jigs & Tools: Technical Specification, Design & PM – A380 Access platform (Airbus OP-GmbH)
- Jigs & Tools: XXL-Tank-Installation Tooling inside the A350 -900 and -1000 conceptual Design (Airbus OP-GmbH)
- MRO Network A400M Manufacturing Engineering Activities, Wünsdorf Military Aircraft Base (Airbus DS-Spain)
- Project Management Support_ Step Change Project - Single Aisle Hamburg (Airbus OP-GmbH)
- R&D Aerocut 4.0. Digital Twin to enhance the productivity during the production of complex milling parts for the aviation industry (BMW, ZIM)

FRANCE

- Analysis beluga XL Loading Equipment (Airbus Meaulte, France)
- MRO Network A400M Manufacturing Engineering Activities, Orleans Military Aircraft Base (Airbus DS-Spain)
- Jigs and Tools Design, calculation studies and manuf dossier creation (Airbus France, St Eloi)

BELGIUM

- Aircraft Maintenance Technician A400M at Melsbroek Military Aircraft Base (Aerotech Pro)
- Material Support Services A400M at Melsbroek Military Aircraft Base (Aerotech Pro)
- CAMO (Continuing Airworthiness Management Organization) Support at A400M at Melsbroek Military Aircraft Base (Aerotech Pro)

UNITED KINGDOM

- Jig an& Tool design checking and Manufacturing management Drill Jigs Setting & Assembly Fixtures A320neo/A321Neo (Airbus OP-UK)
- Step Change Main Assembly Jig Recertification and Photogrammetry Design A320neo/A321Neo (Airbus OP-UK)
- A350XWB Tech Plateau (Design Support & G-Docs creation and Management) (Airbus OP-UK)
- A400M Wing Box Assembly tooling design. (Airbus OP-UK)
- A380 Program & Project Management Support for tender and J&T Project Sunset Focal Points (Airbus OP-UK)
- R&D / Future of Aircraft Factory: Digital Process Simulation (Airbus OP-UK)
- R&D / Wing of Tomorrow: Industrial simulation, Automation, robotics and advanced Jigs and tools (Airbus OP-UK)

POLAND

- Planning & Production Control Support to PZL Warszawa (Airbus Poland)

TURKEY

- MRO Network A400M Manufacturing Engineering Activities (Aerotech Pro)

CHINA

- Digital Production Simulation: Airbus Composite Manufacturing Centre (Harbin, China)

PORTUGAL

- Layout Design FISS Center. 5S Implementation (Augusta Westland)
- Digital Processes and Production Simulation: Embraer KC390 Sponsons and Elevators Assembly Lines. OGMA (Embraer)

SPAIN

- Facility layout design and internal logistics: A400M Final Assembly Line (Airbus DS-Spain)
- Analysis of the production flows and manufacturing layout review (Alestis Tecnobahia Composite)
- Digital Processes Simulation: Composite Manufacturing Centre at Aciturri (Valladolid, Spain) (Aciturri)
- Manufacturing Engineering Services A400M, MRTT & LTA Programmes (Airbus DS-Spain)
- Planning and Production Control A400M, LTA & MRTT Programmes (Airbus DS-Spain)
- Planning & Production Control MRO Network for A400M, LTA & MRTT Programmes (Airbus DS-Spain)
- Tooling engineering Military: A400M, MRTT & LTA (Airbus DS-Spain)
- Quality Management Service A400M Flight Line and Delivery Centre (Airbus DS-Spain)
- A400M Retrofit and MRO Manufacturing Engineering Activities (Airbus DS-Spain)
- A400M MSSR (Material Support Services Representative) at Zaragoza AF Base (Aerotech Pro)
- Digital Solutions, Industry 4.0: Digitalisation Management Tool, Remote Support, i-workbench (Airbus DS-Spain)

CANADA

- Program Management for the development of composites parts and assemblies for the Bombardier Global 7000-8000. Lunenburg (Elisen)

MRTT MISSIONS

- MRO Network MRTT Scheduled (heavy) maintenance. Royal Saudi Air Force (Airbus DS-Saudi Arabia)
- MRO Network MRTT Service Bulletins implementation. Republic of Singapore Air Force (Airbus DS-Singapore)
- MRO Network MRTT Scheduled (heavy) maintenance & Service Bulletins implementation. Republic of Korea Air Force (Airbus DS-Korea)





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