JCB Aero SAS
Innovation and know-how
Auch, France

JCB AERO

AN AMAC AEROSPACE COMPANY

Commercial & Business Aviation

JCB Aero are specialists in VIP/Airline aircraft interior completion, refurbishment, serial production and maintenance, repair and overhaul (MRO) services. Our skilled team have produced for more than 40 years all components of cabin interiors, for the commercial sector as well as for VIP and private sectors.

AMAC Aerospace acquired JCB Aero in 2016 and brought the company under the umbrella of the AMAC Aerospace Group.

Aircraft Maintenance

We perform all levels of maintenance on narrow-body Airbus aircraft and can accommodate three single-aisle aircraft simultaneously. Our maintenance services include scheduled and unscheduled line and heavy base maintenance activities on airframe and power plant; managing major inspections, repairs and modifications; executing original equipment manufacturer (OEM), airworthiness directives (AD), customer bulletins (CB), services bulletins (SB), avionic repairs, installations and upgrades. While performing maintenance on aircraft, we can also manage upgrades, refurbishments and modifications during the same downtime period.

Commercial Aviation

JCB Aero are certified as a DOA and POA organization and have built on years of experience in the field of design, development, testing and certification of products for the aviation market. Our highly experienced and skilled teams assure that all products comply with the highest safety and quality standards.

Serial Production

Our back shell seats for business class, fully manufactured in our in-house workshops, are sought after. All machinery and capabilities for serial business seat production are in one place: manufacturing composite parts, paint and laminate application and the assembling of central back shell seats.

We have been manufacturing front row monuments for commercial aircraft since 2005. We are using custom-made composite panels, built 100% in-house. These monuments not only comply with weight restrictions, stress and certification but also excel with superior aesthetics. Having a large stock of raw material at hand,

we are capable to offer the shortest lead times for a wide range of customized aircraft cabin interiors such as partitions and dividers, windscreens, end caps, privacy panels and linings.

First class

JCB Aero is producing prestigious first class seat surrounds and monuments for Boeing B777-300ER/-900. This project comprises the completion of very exclusive, elegant and high-end elements (divider, credenza, FRM, partition & console). 25 aircraft have to be equipped on a regular production basis of 5 first class ship set per year along with various composite elements.

Helicopters

For over 15 years, we have been producing cabin and cockpit lining for 'Search and Rescue' as well as 'Oil and Gas' helicopters. We produce cabin and cockpit carbon composite lining panels, fully equipped with electrical harnesses and air conditioning, totaling more than 21 panels per month.

Following a 'plug & play' principle, each panel is pre-installed and tested in the mock-up before we deliver it to our clients.

Business Aviation

Over 200 employees work on site to deliver the highest quality for any kind of interior furnishing. We offer the full range of products from buffets, bars, beds, divans, to galleys, lavatories, tables, TV cabinets, stowage, showers, sidewalls and wardrobes.

Aircraft owners and operators rely on our comprehensive services for VIP seats and divans as well as new seats for completion or refurbishment. We offer a wide range of exclusive leathers and fabrics or a mix of both materials and any modifications as for example the installation of an iPad holder or USB charger.

We are proud to have gained a reputation for bespoke lavatory and shower solutions. Uniting under one roof a composite shop, machining shop, assembly, and a paint shop allows us to create complex and sophisticated designs and functions.

Our extensive engineering expertise are reflected in service areas. State-of-the-art galleys are simply outstanding: dishwashers, induction stoves or even an elegant bar allow for the highest comfort on-board, utilizing our minor/major STC catalogue.

External Radomes & Fairings

JCB Aero are entrusted with the manufacturing of several composite fairings for Boeing B737, Gulfstream G650 & Bombardier Global 7500 & Falcon special missions. We manufacture large dimension radomes made from a variety of material & build up: monolithic or sandwich, nomex core, different pre preg: quartz, Kevlar, carbon, to name but a few.

Composite Structural Class 2 and 3

JCB Aero are continuously striving to improve technical methodologies in their production capabilities. Today, JCB Aero have reached a composite structural class 2, which encompasses most parts of the cabin in terms of deliverables. Efficiency gains in Auch allow for composite structural class 3 production, such as structural fixed roof wings, cargo partitions and skin deflector.

Innovation

Our customers can choose from a large range of sandwich panels including a choice of honeycomb, aluminum or foam core with glass, carbon, aluminum, Kevlar, or a mix of e-glass and carbon fiber skin, along with a choice of phenolic or epoxy resin. We manufacture different thicknesses upon demand. With our own ‘A & B’ value testing facility, all panels are tested and approved before delivery.

Another innovative product of ours is gaining attention in the MRO market. A floorboard panel, developed in-house, and compliant BMS4-17/20/23, offers a substantial weight gain and can be installed on almost any (95% of) Boeing Cabins. Another plus is the decreased lead-time compared to OEM floorboard manufacturers. We are capable to deliver customized floorboards with multi-STC's.

Our substantial lightweight solution from aeronautical innovation (with a minimum of 35% weight win) meet the interest of the maritime sector. Recently we were selected by a French maritime company to support in the implementation of cabin molds, linings and with our sought after extensive knowledge of weight savings, seen through the investiture of our aviation activities.

Latest generation tools such as the HandySCAN 3D allow JCB Aero to control parts regarding shape and dimension(s) efficiently and to make reverse engineering feasible. The company profits from its 3D printing capabilities to realize parts in Ultem 9038. With a new 5-axis machine in place in 2023, manufacturing of large molds in 3D printing will expand the range of products.

Customized MES

JCB Aero have entered into Industry 4.0: by installing Manufacturing Execution Systems (MES) in production workshops, the company will digitalize all manufacturing orders and increase the general productivity.

Advanced Machine Capabilities

Striving to provide innovative solutions for enhanced customer satisfaction, and thanks to France Plan de Relance, JCB Aero invested in state-of-the-art equipment for continuing & improving quality and on-time delivery. Their new large-scale 3D printing & 5 axis CNC machine allows large scale additive manufacturing (LSAM) such as large moulds and tools (3,5x4x1,4m) in recyclable materials (thermoplastic PC, ABS…) and short cycle manufacturing, following their promise of "Innovation and know-how".

Hangars and Facility

JCB Aero is located near Toulouse in Auch, situated next to a private airport, meaning our clients have direct access to JCB Aero facilities.

The facilities cover an area of 5,000 m². Open space offices and modern workshops are under one roof; we keep our work processes as lean and as efficient as possible.

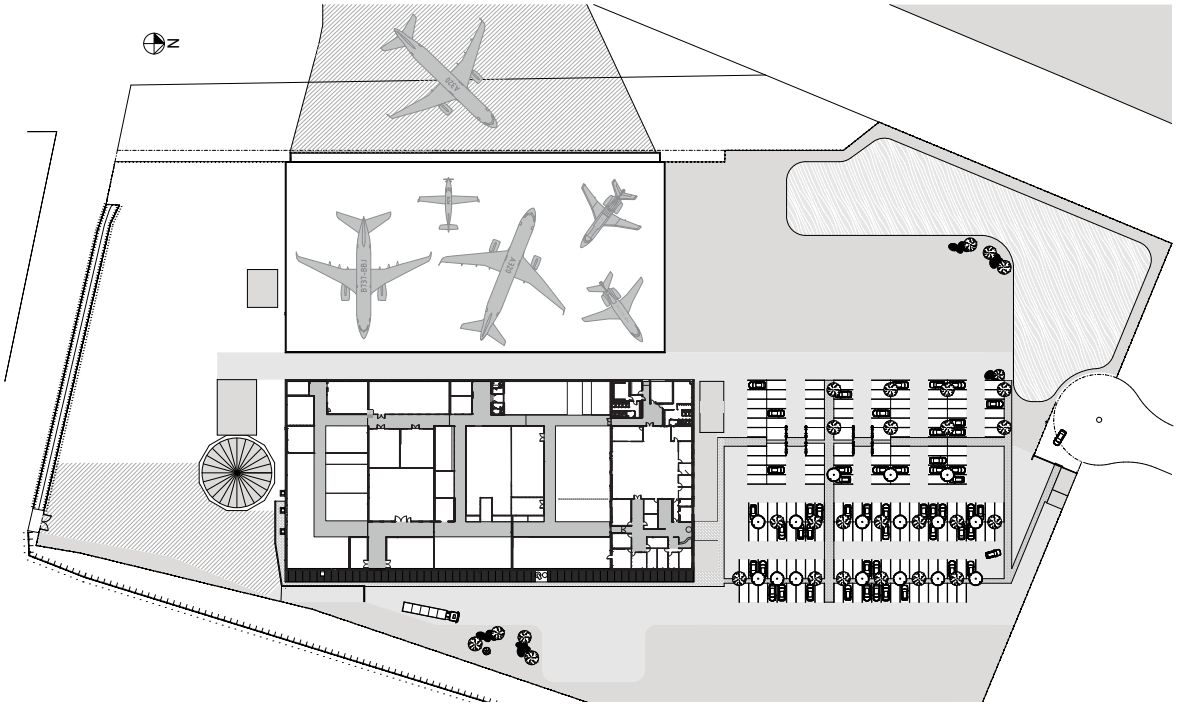
The narrow-body hangar of 5,000 m². accomodates in one bay a B737 (full series), A320 (full series) or Falcon 6X.

Overview of our workshops:

- Computer Numerical Control (CNC) Machines (5-axis/3-axis)
- Composite shop
- Wood shop
- Laminate shop
- Upholstery
- Painting & Varnishing
- Metal & Systems
- Electrical systems & IFE

Bienvenue à Auch

We offer as a new service Aircraft Parking in our Narrow-Body Hangar. Enjoy our services while parking!



Approvals

With certificates for Part 21G, Part 145, 21J we have all of the approvals and experience for every type of refurbishment and completion project for both VIP/ commercial airlines as well as for H175 helicopters.

We are certified EN9100 to demonstrate our commitment to On-Time Delivery (OTD) and On-Quality Delivery (OQD). Whether the project is for a minor or major cabin modification, we will provide the airworthiness certification and justification required.

JCB Aero is a qualified supplier for Safran Seats France, Airbus Helicopters, Dassault, Stelia and many more.

- AFAQ EN9100
- DGAC PART21G
- DGAC PART145
- EASA PART21J
- AFAQ ISO9001

JCB Aero holds an EASA design organization approval: **EASA.21J.427**.

Our Design Organization Approval (DOA) covers supplemental type certificate (STC) for minor and major repairs and changes to:

- Cabin Interiors
- Cargo Compartment
- Electrical Cabin Systems
- External Schemes, Placards and Markings
- Flight Deck Interiors
- Structure Fuselage
- Structure Support for External Equipment

JCB Aero holds a Production Organization Approval: **FR.21G.0016**.

Our production organization work scope covers the following areas:

the manufacturing of

- Composite sandwich panels with various processes (Vacuum bags, press, Autoclave…)
- Complex shaped composite structures extending to external fairings and radomes
- All kind of interior monuments (VIP and Commercial) with a large variety of finishing (paint, veneer, corian…)
- VIP showers with integrated water system
- Electrical harness
- Metallic structures and mechanisms
- Seats and monument upholstery

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