Design and Innovation

Overview

Airbus in the Pacific’s innovation and design team excel at turning around a solution to any problem.

We offer highly advanced aircraft structural repair design and approval, structural testing, tooling and mechanical equipment design and certification and approval of design data.

These services are performed using sophisticated design software and technology, which when combined with our knowledge and experience, offers unrivalled design innovation, quality and workmanship.

Airbus fosters a deeply integrated relationship between our design team and on-site specialist services department, where repairs and manufacturing take place. Our customers can expect competitive pricing and on-time delivery.

All Airbus design and innovation services adhere to relevant current aviation standards. In New Zealand, our team is located in Blenheim. However, we can work off site, alongside your aircraft or team, or – with advanced notice – we can accommodate you at our facility.
Airbus engineers possess the advanced skills necessary to perform vital analyses on new and ageing aircraft. Working within our Design Support Network, this includes fatigue life analysis, composite repair, crack growth analysis, damage tolerance assessment, ASIMP (structural integrity planning) and other necessary procedures and services for through-life support.

Airbus’ design team will provide high quality, easy to follow, comprehensive and thorough design instructions and drawings so that maintenance or manufacture can be carried out off-site by our team or your preferred maintenance provider. Any repaired component, or newly manufactured replacement part, is precisely fitted in accordance with the design.

Airbus’ Finite Element Analysis (FEA) software allows us to digitally expose a part or product to real-life forces and stresses and closely analyse its response.

By creating sophisticated digital models and running analyses, our designers and engineers can ensure each part will perform and last under the physical forces it is normally exposed to.

Comprehensive digital testing takes place before the part is manufactured in Airbus’ on-site specialist services bay, ensuring a high quality product, optimal performance and fatigue life.

Airbus’ design team work very closely with the company’s specialist services team which manufactures the parts. Airbus completes the entire process on-site, creating a cost-effective, inclusive, convenient and timely service for our customers.

Airbus in Australia Pacific uses sophisticated design software Siemens NX10 for its product design engineering processes. Capabilities include convergent modelling, rapid manufacturing, drafting and documentation and rendering.

What this means for our customers is that the finest detail of their part or product can be virtually modelled and simulated in 3D, including digital testing for best performance. Models can be easily exported to ‘make files’ for CNC machines or converted to detailed manufacturing drawings. Airbus’ precise computerised method of design and engineering, along with our on-site specialist services manufacturing team, means our product development service is unrivalled for precision, efficiency and cost-effectiveness.

Airbus’ professional design engineers use the latest sophisticated software and technology to digitally design and test any part or product before it is manufactured at our on-site specialist services area in New Zealand.

Any part designed and manufactured by Airbus will be best fit for the aircraft. Our capabilities include through-life support and are compliant with relevant aviation standards as well as Airbus’ stringent quality standards.

Our clients can be confident that they are getting quality and the assurance of though life support.

Our team at Airbus in Australia-Pacific has a broad understanding of aircraft and tooling usage, gained from extensive and varied experience, including in-depth military and civil experience. This expert team includes a machinst, a flight engineer and former aircraft OEM engineers.

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