FERCHAU

FERCHAU Aviation Group

Experience the N° 1 in Cabin

In the dynamic and ever-evolving aviation industry, having a reliable expert partner by your side is crucial. The FERCHAU Aviation Group, with decades of expertise in cabin and cargo engineering and cabin electronics, stands as your premier supplier for end-to-end cabin solutions. Our comprehensive know-how spans everything from conceptual development and architecture to certification and retrofitting, covering all visible and tactile components within aircraft interiors. Airlines, aviation training centers and institutions further benefit from our cutting-edge cabin simulators and demonstrators.

Cabin and Cargo Engineering

The FERCHAU Aviation Group covers the entire product lifecycle process for cabin and cargo systems and modules. These include in-flight entertainment, cabin connectivity and supply systems, galleys, toilets, seats, stowage, linings and overhead storage compartments, partitions and curtain systems as well as many other visible and non-visible electrical and non-electrical components. Complementing broad experience with innovative know-how, we support our customers with highest-quality work packages which encompass the complete range of engineering and design services.

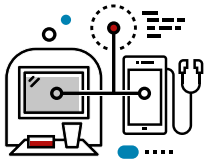
At a glance: our competences

- Architecture research and development
- New development and customised engineering
- In-service and retrofitting
- Requirements-based engineering
- Model-based systems engineering
- Detailed design, verification and certification
- Equipment integration and installation
- Technical vendor management
- End-to-end engineering with DOA-related technical delegation
- Data science and predictive maintenance
- Process analyses and improvements

The key to success

- More than 150 specialised engineers
- Several decades of experience in the cabin industry (cross-programme, cross-function)
- Full-scope coverage
- Large and established partner network
- Ready for the next level of digitalisation

Cabin Electronics



The FERCHAU Aviation Group is a preferred full service and product supplier for cabin systems end-to-end solutions. Benefitting from our long-term project experience not only in the aircraft industry, but also in the automotive, space, and industrial sectors, we provide state-of-the-art hardware and software products as well as test systems. We thereby serve the entire process from specification to development to manufacturing and in-service support for cabin electronics. Highest standards in development processes and methods allow us to deliver complex products which meet our customers' expectations.

The key to success

- More than 20 years of cross-sector experience in electronics and embedded engineering (aviation, automotive, space, industry)
- End-to-end product development
- DO178, DO160, DO254 conformity
- Highest quality according to ISO 15288, ISO 12207 and ISO 29110 (systems and software engineering)
- LabVIEW and ISTQB certified developer

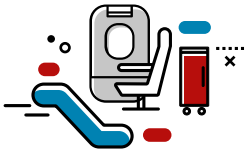
At a glance: our competences

Software
- Development (V-model and agile development)
- Dynamic and static software tests
- System modelling and simulation
- Verification and validation
- Process steering and monitoring

Hardware
- Specification
- End-to-end development
- Manufacturing
- Test and power on
- Certification and validation

Testing
- Test automation
- Development of test solutions
- Manufacturing of test racks and benches

Cabin Simulators and Demonstrators



As a well-known cabin specialist with several decades of experience, the FERCHAU Aviation Group provides airlines, aviation training centers and institutions with standardised as well as customised products. ***We develop, manufacture, service, and upgrade all kinds of cabin crew training devices, such as cabin emergency evacuation trainers, cabin service trainers as well as various individual simulators and mock-ups.*** Our unique combination of cabin and cargo engineering and cabin electronics know-how drives innovation for the cabin simulator and demonstrator market.

At a glance: our competences

- Door and overwing exit training devices
- Cabin emergency evacuation training devices
- Cabin service training devices
- Virtual reality simulators
- Maintenance training devices
- Mock-ups and demonstrators

The key to success

- AIRBUS and BOEING programme training devices
- More than 50 devices delivered
- All competences in-house
- Standard configurations as well as a variety of options
- 24/7 support and maintenance

More information about our expertise

ferchau.com/go/aviation

Connecting People and Technologies for the Next Level

Member of the
FERCHAU Aviation Group