

Press release

Innovative solutions by Liebherr at NBAA-BACE 2024

- Liebherr-Aerospace welcomes visitors at its booth no. 2213 in the North Hall
- Exhibits include electrification of aircraft systems as well as innovative solutions for increasing aircraft efficiency and enhanced passenger and crew comfort
- Liebherr is already presenting solutions today for tomorrow's aircraft platforms and is on its way to a model-based enterprise

At this year's NBAA-BACE, which takes place from October 22 to 24 in Las Vegas, NV (USA), Liebherr-Aerospace will be represented at booth 2213. On display will be state-of-the-art systems and components such as modular electro-mechanical actuators, a nose landing gear as well as air humidification technology for comfort on board.

Toulouse (France), October 2024 – Liebherr-Aerospace's presence at this year's NBAA-BACE demonstrates that the company is ready for the business aviation industry's challenges, which are characterized by an all-embracing transformation process.

Many years of experience in the design and integration of environmental control and thermal management systems, flight control and actuation, landing gears and in the field of signal and power electronics make Liebherr an indispensable partner to aircraft manufacturers.

Leader in the development of electromechanical actuators

Liebherr-Aerospace has always been a leader in the research and development of electromechanical actuators (EMA) for medium to large commercial aircraft. Now the company is also adding smaller actuators to its portfolio.

An all-new modular approach addresses business jets, helicopters, and specifically the emerging AAM (Advanced Air Mobility) sector. Liebherr's small EMA concept benefits from the experience gained through millions of flight hours in numerous aircraft programs with actuators and associated electronics over the past decades.

The development approach offers scalability for small installation envelopes, a favorable power-to-weight ratio and high reliability.

Air humidification systems for enhanced travel comfort

To avoid a low relative humidity level on board (less than 5%), Liebherr offers an air humidification system that constantly monitors and keeps the level between 20% and 25% at room temperature of around 20 °C to 24 °C. Human organs sensitive to air dryness are not stressed during flight. The system has multi-zone humidity control capability and is easy to maintain.

On the way to model-based enterprise

In addition, digital means are revolutionizing the way Liebherr designs, builds and maintains aircraft systems. On its way to becoming a model-based enterprise, Liebherr is driving the transformation of the entire company to a data centric organization. This will improve collaboration and efficiency throughout the whole product life cycle.

Aftermarket activities

The Liebherr-Aerospace Team is looking forward to welcoming customers, operators and partners from around the world at its booth to discuss trends in the business aviation industry including aftermarket activities.

In the USA, Liebherr's customer service organization is represented by Liebherr Aerospace Saline, Inc., based in Saline, Michigan. This service facility provides repair services, technical support and spares distribution, and operates a liaison office in Seattle, Washington. In Laval, near Montreal, (Canada), Liebherr-Aerospace operates another service facility, offering technical, logistics and engineering support.

About Liebherr-Aerospace & Transportation SAS

Liebherr-Aerospace & Transportation SAS, headquartered in Toulouse (France), is one of 13 product segments of the Liebherr Group and a first-tier provider of on-board solutions in the aerospace and transportation industry, contributing to a more sustainable transport through innovative products, best in class services and performance excellence.

The aerospace product portfolio offered to civil and defense customers includes environmental control and thermal management systems, flight control and actuation systems, landing gears as well as on-board electronics. For rail vehicles of all kinds Liebherr offers heating, ventilation and air conditioning systems, passive and active hydraulic systems for braking, damping, axle steering and levelling. Furthermore, Liebherr serves the commercial vehicle market with trailer cooling systems.

About the Liebherr Group – 75 years of moving forward

The Liebherr Group is a family-run technology company with a highly diversified product programme. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality, user-oriented products and services in a wide range of other areas. The Liebherr Group includes over 150 companies across all continents. In 2023, it employed more than 50,000 staff and achieved combined revenues of over 14 billion euros. Liebherr was founded by Hans Liebherr in 1949 in the southern German town of Kirchdorf an der Iller. Since then, the employees have been pursuing the goal of achieving continuous technological innovation and bringing industry-leading solutions to its customers. Under the slogan '75 years of moving forward', the Group celebrates its 75th anniversary in 2024.

Images



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On display at NBAA-BACE 2024: Liebherr's EMA family concept specifically addresses business jets, helicopters, as well as the emerging AAM (Advanced Air Mobility) sector. – © Liebherr



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3D printed heat exchanger by Liebherr – © Liebherr

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