

Press release

## Liebherr-Aerospace implements REACH compliant coating process at service centers in Asia

**After thorough testing and implementation within its Original Equipment Manufacturing (OEM) site in Toulouse (France), Liebherr-Aerospace has successfully industrialized REACH-compliant TCS/PACS advanced protection coating of aircraft heat transfer equipment components at its Maintenance, Repair, and Overhaul (MRO) site in Singapore. A significant leap forward regarding a more sustainable customer service.**

Singapore, January 2026 – Liebherr-Aerospace has reached a major milestone at its service center in Singapore: the industrialization of an advanced TCS/PACS protection coating process on heat transfer equipment components on board various aircraft programs.

TCS (Trivalent Chromium System) enhances corrosion resistance as well as paint adhesion and PACS (Post Application Conversion Sealer) seals and reinforces the protective layer for long-term durability. Together, they deliver performance on par with legacy coatings without the environmental drawbacks. This coating process complies with REACH, i.e. the Registration, Evaluation, Authorization and Restriction of Chemicals, a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals. Compliance requires the replacement of traditional chromium-based treatments by more environmentally friendly alternatives.

“Our Liebherr team has worked relentlessly together with our long-term partner ATC (Applied Total Control) to achieve this milestone,” said Joël Cadaux, General Manager Aerospace at Liebherr-Singapore Pte Ltd. “The integration of the REACH compliant TCS and the PACS coating process marks a significant step towards a more sustainable customer service and demonstrates our commitment to innovation and environmental responsibility for the benefit of our customers. We comply with the regulations applicable in the EU and in the APAC region, which avoids regulatory risks and delays in aircraft operation. In addition, with the new coatings we are anticipating future global regulations. Our customers avoid costly retrofits or recertification at a later date of the life cycle, as their components already meet future configuration standards today.”

In line with Liebherr-Aerospace's global customer service strategy, further service centers will follow, such as the facility in Shanghai (China), which is working on introducing REACH-compliant processes as well in the first quarter of 2026. This is also the case of third-party sites that repair Liebherr-Aerospace

products under license. These achievements demonstrate Liebherr long-term commitment to industrial excellence and regulatory leadership in the frame of cross-regional certification. Liebherr's continued focus on sustainability, in line with its customers' objectives, underlines the company's role as a trusted, future-oriented partner in the Asian aerospace ecosystem.

## 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

The Liebherr Group is a family-run technology company with a highly diversified product portfolio. The company is one of the largest manufacturers of construction equipment 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 2024, 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 staff have been pursuing the goal of achieving continuous technological innovation and bringing industry-leading solutions to its customers.

## Image



liebherr-heat-transfer-equipment-reach-compliance-copyright-liebherr.jpg

Celebrating the industrialization of REACH compliant TCS/PACS coating process at Liebherr in Singapore – © Liebherr

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