

Liebherr-Aerospace to Supply Main Gear Steering Equipment for Boeing's 777 and 777X

September 2018 – Boeing Commercial Airplanes has awarded Liebherr-Aerospace another contract for their 777 and 777X programs. Liebherr-Aerospace will deliver two electronic components of the main gear steering system for the two wide-bodies: the main gear steering control unit and the nose gear steering position transducer.

Relying on its unrivalled experience in landing gear systems, Liebherr-Aerospace will design and manufacture the main gear steering control unit, as well as the nose gear steering position transducer. Boeing's 777 and 777X aircraft utilize a steered aft axle on each of the main gears to minimize turning radius and reduce tire scrub. The main gear steering control unit receives signals from the two nose gear steering position transducers (one on the captain tiller and one on the first officer tiller) and controls the two power control actuators (one per each main landing gear aft axle). It assists normal taxi manoeuvres whenever the nose gear is steered greater than 13° and provides a locking mechanism to lock the aft axles in the centered position.

Liebherr-Aerospace Lindenberg GmbH, Lindenberg (Germany), Liebherr's center of excellence for flight control and landing gear systems will be in charge of developing and qualifying the units. The qualification as well as the manufacturing of the main gear steering control will be conducted in house at Liebherr-Elektronik GmbH, Lindau (Germany), center of excellence for electronic hardware development and manufacturing, in order to remain in control of this key electronic unit and to provide Boeing the high quality that Liebherr is known for. Liebherr-Aerospace will support the design and development also from its liaison office in Seattle to ensure a close interaction with Boeing.

Liebherr-Aerospace has won this new contract in addition to the ones received during the last three years covering the 777X folding wing tip system, the trailing edge actuation system as well as the power drive unit and the hydraulic motor for the leading

edge actuation system. This contract extends the portfolio of Liebherr to supply equipment for the 777.

In addition, this new contract underlines the relevance of Liebherr's strategy to rely on his wide experience in electronics to propose to the market a large array of standalone on-board electronics.

Liebherr-Aerospace is a leading supplier of systems for the aviation industry

Liebherr-Aerospace & Transportation SAS, Toulouse (France), is one of eleven divisional control companies within the Liebherr Group and coordinates all activities in the aerospace and transportation systems sectors.

Liebherr-Aerospace is a leading supplier of systems for the aviation industry and has more than five decades of experience in this field. The range of aviation equipment produced by Liebherr for the civil and military sectors includes flight control and actuation systems, gears and gearboxes, landing gear and air management systems as well as electronics. These systems are deployed in wide-bodied aircraft, single aisle and regional aircraft, business jets, combat aircraft, military transporters, military training aircraft, civil helicopters and combat helicopters.

Liebherr's aerospace and transportation systems division employs around 5,400 people. It has four aviation equipment production plants at Lindenberg (Germany), Toulouse (France), Guaratinguetá (Brazil) and Nizhny Novgorod (Russia). These production sites offer a worldwide service with additional customer service centers in Saline (Michigan/USA), Seattle (Washington/USA), Montreal (Canada), Hamburg (Germany), Moscow (Russia), Dubai (UAE), Bangalore (India), Singapore and Shanghai (People's Republic of China).

Caption

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The 777X program was launched by Boeing with the two variants 777-8 and 777-9.

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Contact person

Ute Braam

Corporate Communications

Phone: +49 (0)8381 46 4403

E-mail: ute.braam@liebherr.com

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www.liebherr.com