



We build radomes

Enabling connectivity

Connectivity is a dominant topic influencing the on board customer experience. To offer more advanced solutions, Lufthansa Technik's product division Original Equipment Innovation (OEI) has teamed up with the company's in-house experts for composite structures and has founded a new competence center for radome development and production. Combined with its proven experience with certified tail-mount radomes, Lufthansa Technik is the partner of choice for the realization of radomes and radome-related parts of any type.

Benefits

More than 20 years of radome experience

Development, manufacturing and certification capabilities for radomes of any type

Ka-, Ku- and L-band expertise

Highly qualified and specialized experts for composite materials

Approvals as maintenance, design and production organization


Cooperations with renowned antenna manufacturers

State-of-the-art production facilities and equipment

Worldwide presence and production network



Lufthansa Technik



Worldwide expertise in composites
and radome manufacturing

Elegant and fuel-efficient

Radomes are a critical element in connectivity installations. Built from fiber-reinforced composites, antenna housings protect sensitive antenna systems against environmental influences, bearing high aerodynamic loads and offering maximum permeability for required radio frequencies. In alignment with specific customer needs Lufthansa Technik developed its own professional material lay-up to ensure the best permeability for satellite connectivity systems. Nearly 20 years after the introduction of the popular TIOS (Two-In-One-Solution) radome, Lufthansa Technik has been able to significantly advance the system. Called TIOS+ (Three-In-One Solution), it is a tri-band (L-band, Ku-band and Ka-band) system for antennas designed as an elegant and highly fuel efficient solution. It is mounted on the vertical tail of Boeing 737 VIP-aircraft. Lufthansa Technik developed this product and established the in-house manufacturing set-up in Hamburg within six months.

Technologies and experience

Following this success Lufthansa Technik has expanded its development and manufacturing capacities and has begun building radomes and radome related parts to the OEM market. The company's ARC (Airframe-Related Components) division in Hamburg has expertise in composite structures and fulfills the necessary technical, qualification, and certification requirements. The ARC division has decades of experience in repair and overhaul of nose radomes and other composite parts such as engine cowlings and flight controls. In addition to having comprehensive production facilities and equipment such as autoclaves, robotic systems and cold storage for material, Lufthansa Technik also offers a highly-qualified and experienced staff ready on site and is able to develop and manufacture radomes of any type and size for both tail-mount and fuselagemount connectivity systems.



Triple competence and market leadership

Lufthansa Technik is a worldwide MRO market leader. With the triple competence as a design, production and maintenance organization the company offers unique one-stop shop solutions around the globe. As a partner of choice for engineering, manufacturing, integration and certification projects, Lufthansa Technik brings connectivity to commercial aircraft, VIP & business jets as well as special mission aircraft.

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