



B747-series main deck powered cargo system incl. Central Maintenance Computer (CMC)



B767-300BCF main deck powered cargo system including 16ft, 20ft and 463L pallets and CMC



New A330/A340-series lower deck powered cargo system



B747-series lower deck powered cargo system

## Reaching New Heights in Cargo-Handling



The air transport industry exists today because of its rich history of innovation and engineering. But to reach new heights in the future takes more. Companies supporting this industry need to uniquely help airframe original equipment manufacturers (OEMs) and airlines find ways to succeed financially, while succeeding themselves.

To achieve this, TELAIR International has developed the one-stop shop for the design, manufacture and support of cargo-handling products.

TELAIR is building a company that can serve customers as a virtual extension of themselves in moving cargo with new efficiency, lower cost and enhanced safety. TELAIR has assembled all the pieces to be the single source for Complete Cargo Competence™.

TELAIR is a leading innovator of complete lightweight advanced powered and mechanical on-board baggage and cargo-handling systems for both wide- and narrow-body commercial aircraft and military aircraft.

TELAIR is an OEM for both AIRBUS and BOEING, in addition to supporting all carriers worldwide by maintaining full-service support centers in Germany, Sweden, Singapore, Beijing, Dubai and the United States.

Components are positioned above floor, which translates to safe and easy maintenance. Fully automated digital drive- and control systems employ latest state-of-the-art digital bus technology including advanced features like remote maintenance provided by TELAIR's Operation Control Center (OPCON) located at the design, certification and production headquarters in Miesbach, Germany.

TELAIR powered systems excel in their ease of use, with a crew of just two handling an entire wide body main deck load quickly and safely enabling turn-times below 60 minutes. Systems can be quickly configured and deployed to accommodate operator specific ULD configurations and mission requirements.

## Innovation and Engineering Excellence in Air Cargo-Handling Systems

TELAIR's cargo-handling systems and components combine aerospace experience with innovative technology. The systems and products are designed to maximize weight savings, which can help realize increased payload capacity, improved range and enhanced fuel efficiency.

All components are tested for performance and durability to establish true service life. What's more, because of the modular construction of many of our systems, all of TELAIR's major components can be replaced quickly and cost-effectively within minutes.

Components utilize software that allows to rapidly customize products to meet specific customer needs as well as solve unique problems.

CAD animation systems and full-scale simulators give customers the opportunity to perform actual operational tests well in advance of first system deliveries.

This capability portfolio, coupled with over 300 design patents and 40 years of experience in providing solutions to air carriers worldwide, positions TELAIR as the single source for the design, manufacture and support of both wide- and narrow-body on-board baggage and cargo-handling systems.

## Aftermarket Services

TELAIR Customer Support Centers – strategically located to meet operator daily business requirements – provide a broad range of customer support services, ranking us among the leaders in the industry.

TELAIR Support Centers maintain a complete inventory of spare parts – including a large pool of rotatable exchange units – that can be delivered quickly and efficiently.

TELAIR also offers customized component stocking and maintenance service programs designed to reduce operator inventories and offering rapid turn times for products needing maintenance or repair.

TELAIR installation teams, supported on-site by product design engineering, work with customers to ensure that factory and retrofit installations are performed on time. On-site support teams are located at the Airbus factories in Germany and France, the Boeing factory in Seattle and the B747-400BCF and B767-300BCF Boeing conversion lines in Singapore and Xiamen / China.

TELAIR maintains open dialogues with the operator and uses this feedback to help address operating challenges presented by competitive legacy equipment.

## Narrow Body Systems

TELAIR provides the industry's only powered systems for loading bulk freight in narrow-body planes including the patented Sliding Carpet Loading System™.

TELAIR narrow-body systems enable significant cost savings by providing the optimum methods for handling baggage and cargo in this type of aircraft. The systems increase the efficiency of loading and unloading, therefore reducing the time an aircraft is required to be on the ground.

TELAIR narrow-body systems increase the load stacking capacity, safeguard baggage during loading and flight, and protect the walls and floor of the cargo compartment.

## Unit Load Devices

To complete the "One-Stop Shop" portfolio, TELAIR also offers standard aluminum containers and pallets in virtually all sizes and applications. TELAIR also offers low-weight non-metallic containers through our Nordisk Aviation Products division that help reduce fuel burn and CO<sup>2</sup> emissions.

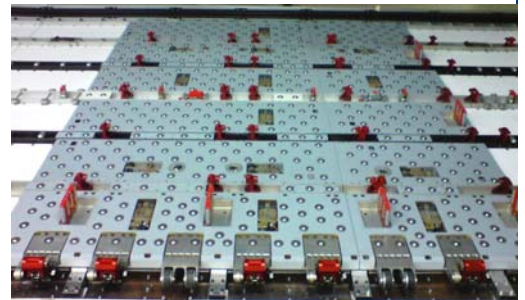
## Research and Technology - TELAIR leads the industry by patented technology

Ongoing research in new technologies is TELAIR's key strength.

- Modular Cargo Systems (MODCAR) allowing customizing of lower deck cargo holds during as short as overnight stops with new ULD layouts, additional non-common ULD sizes, lower deck amenities, lower deck galleys, crew rest containers and / or even auxiliary fuel tanks or additional water / waste tank volumes pending on routes and operational seasons
- CFRP and other composites for primary and secondary structure within the cargo system for weight reduction and corrosion elimination
- Remote Maintenance of the cargo systems with TELAIR's patented Operations Control Center (OPCON) technology
- RFID based ULD, baggage and cargo tracking including ULD availability management
- Advanced main deck cargo system & component design technologies for the upcoming large category freighter aircraft



A350-900XWB FWD Cargo Compartment Mockup



A350-900XWB FWD Cargo Compartment Ball Mat Area



TELAIR proprietary Modular Cargo System (MODCAR) Technology using CFRP floorbeams, roller tracks and continuous side guides

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