

More mobility for the world



Lufthansa Technik



Services for the Boeing 747-8

Long live the Jumbo



Next-generation performance

More than any other commercial aircraft, the Boeing 747 – also affectionately known as the “Jumbo Jet” – captures the transformation of flying from the privilege of the few and wealthy to a form of mass transport.

In 1970, Lufthansa was the first European airline to step into a new era of aviation with a ‘giant’ airplane, one that set new standards in terms of passenger numbers, range and operating efficiency. Nearly four billion people have traveled in a Jumbo, and aircraft of this type have circled the earth around two million times.

The next generation in operation

Lufthansa’s engineering skills feature prominently in the continued success of the 747. As the first European airline to put the Jumbo Jet into service, Lufthansa and its maintenance arm – today’s global Lufthansa Technik Group – have accumulated decades of experience in the

operation and technical support of all types of Jumbo jets. Now, the skill and knowledge that have helped the company maintain and overhaul the popular 747-400 and its engines for two decades have been transferred seamlessly to the new 747-8 to ensure that its operators likewise benefit from a genuine “Jumbo experience”.

Turning a legend into profitable business

The experience it has gained during many years of supporting the introduction of new aircraft types makes Lufthansa Technik the partner of choice for the newest Jumbo generations too, including the 747-8.

Lufthansa Technik has been the Jumbo’s launch partner many times throughout its history, providing expert assistance from the very beginning and helping to turn the vision of a new aircraft into a working, profitable and enduring reality.



For more information:

www.lufthansa-technik.com/747-8

Worry-free operations from day one

As Lufthansa was the first European customer for the 747-400, Lufthansa Technik is the natural partner for a successful market introduction of the latest Jumbo generation.

Lufthansa Technik has heavily influenced the development of the Boeing success model at the end of the 1980s. After all, it has maintained and overhauled Lufthansa's 747-400s and their engines for almost 20 years. Thus, two decades of experience are now being transferred to the newest Jumbo generation.

The success story continues

Lufthansa was launching customer of the 747-8 Intercontinental. Yet Lufthansa Technik's input into the development and specification of this next-generation aircraft began long before the airline took its first new Jumbo into service. This approach put Lufthansa Technik in a position to increase the

747's technical reliability and performance even before it entered service – and to maintain the new Jumbo's freighter version for international customers with maximum reliability even before its own 747-8 fleet went into operation.

Advanced technology and operational harmony

Initial provisioning of spare parts for the 747-8 requires a high investment. The design of the fuselage may be close to that of the classic 747-400, but the new Jumbo has new structures and systems.

While the 747-8 is technically similar to the -400, and many components are already available in the Lufthansa Technik pool, additional in-house capabilities for new parts such as the cargo loading system have been developed. The full spectrum of component repair and overhaul capabilities for the new Jumbo has thus been available since its entry into service to secure maximum fleet reliability.



Jumbo experience – from day one

Lufthansa Technik is putting decades of experience in 747 maintenance, repair and overhaul to work for the newest Jumbo generation. Our goal: to ensure that the very best technical support for all 747-8 operators is in place right from the start.

Entry into service

- Aircraft Production Inspection
- Phase-in
- Transition

Modification

- Aircraft modification
- Cabin modification

Supplementary services

- Logistics
- Training

eServices

- MRO-related IT integration (incl. manage/m®)

747-8 Production Inspection

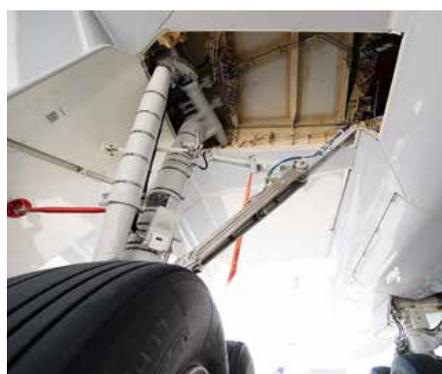
Lufthansa Technik offers 747-8 operators and owners an in-depth Aircraft Production Inspection Program (APIP). The early detection, documentation and rectification of production defects enhances reliability in later operation and ultimately adds to the value retention of the aircraft. Lufthansa Technik's highly experienced inspection staff is embedded in the manufacturer's production facilities.

747-8 Introduction Support

A reality in today's dynamic aviation industry is the parallel operation of new and existing fleets. This means familiar technology and established processes on the one hand, and new technologies, support processes and training on the other. The introduction of a new aircraft such as the 747-8 requires an integrator like Lufthansa Technik to ensure worry-free operation right from the start.

747-8 Component Services

Lufthansa Technik offers single-source component services that greatly reduce the complexities associated with the provision of spare parts. A unique combination of in-house repair capabilities and supply chain options, ranging from Single Component Maintenance (SCM) to Total Material Operations (TMO®), means that 747 fleets of any size enjoy cost benefits normally only achievable by the largest fleets.



Offering a complete portfolio of aircraft maintenance, engine and component services, Lufthansa Technik is the partner of choice for supporting the 747-8.



Operations

- Line/Base maintenance
- Material management
- Component repair/pooling
- Engine services
- Composite repairs (ARC®)
- Ground support equipment

Engineering

- Aircraft Engineering Services (AES)
- Engineering/Troubleshooting

Ad-hoc support

- AOG support
- On-wing services
- Airline Support Team (AST®)

GENx Engine Services

The 747-8's new GENx engine is at home at Lufthansa Technik. Our engine shops have extensive experience in all of the engine types powering the Boeing 747 family – Lufthansa Technik has repaired more than 1,600 GE CF6-80C2 engines since 1986 and has consistently achieved significantly higher mean times between shop visit (MTBSV) than the industry average.



A unique combination of in-house capabilities and supply chain options provides many benefits.

747-8 VIP Completion

The market leader in the completion of large privately-owned jets, Lufthansa Technik's Completion Center is fitting out the VIP version of the newest Jumbo generation.

Technical Training

Lufthansa Technical Training has a comprehensive Boeing 747 maintenance training program that is approved by the major aviation authorities in Europe and abroad.



747 freighter support

Lufthansa Technik has been looking after cargo airplanes for many years, including a wide variety of both production and out-of-production aircraft. Thus, Lufthansa Technik has a special place in its program for the 747 freighter.

In the early 1970s, Lufthansa was the first carrier worldwide to operate the Jumbo's cargo version, and the 747-200F was the backbone of the Lufthansa Cargo fleet for many years, with Lufthansa Technik delivering full-scale technical support for the aircraft, its engines and components. So naturally Lufthansa Technik will also offer 747-8F operators the support of a worldwide MRO network with unrivaled maintenance and operations know-how. The range of services and products ranges from the basics up to a Total Technical Support (TTS®). The portfolio includes the aircraft, its components and engines. To handle an unforeseen technical problem, Lufthansa Technik will supply any spare part needed within hours – for all systems, from an APU to a complete cargo loading system. What's more, Lufthansa Technik will send an Airline Support Team (AST®) as soon as requested. The teams have all equipment required to deal with damage immediately, wherever the aircraft is located and on a 24/7 basis.



For more information:

www.lufthansa-technik.com/747-8

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