More mobility for the world

Lufthansa Technik

Landing Gear Services

On strong legs
After overhaul of the individual parts, they are put together in the final assembly bay.
regions, the world’s most sophisticated database and a distinctively lean structure enable us to provide our customers with the value-to-money ratio they need to prosper in an ever more cost-sensitive global market. But that’s not all. Breakthroughs in research and development, major investments in state-of-the-art equipment, and a continual dedication to enhancing our staff’s skills and knowledge are all part of ensuring customer confidence in our services, tomorrow as well as today.

Cleared to land
At Lufthansa Technik Landing Gear Services, we understand the magnitude of the object – one landing gear shipset can easily cost as much as a dozen residential homes. That’s why part of what we offer is our integration with the Lufthansa Technik Group, itself a subsidiary of Lufthansa. We are deeply embedded in one of the world’s leading airlines, which allows us unparalleled access to a launching customer and developing partner in many of today’s successful aircraft programs. A constant stream of state-of-the-art inside knowledge results from these connections. It provides us with a distinctive advantage over the competition, and combined with our fascination for technology it adds up to a unique expertise in the “art of landing.”

Checking a reamed bushing on an Airbus sliding piston
Keeping your world on its legs
To understand what makes the overhaul of landing gear so challenging, keep in mind that you are looking at a vast array of technologies. A landing gear combines a multitude of parts, large and small, all of them intricately meshed, so working on it requires a process chain with an outstanding degree of coordination among all participants.

Since no carrier can afford ground time for repairing or overhauling landing gear, a set going into overhaul is immediately replaced by a spare. But while that sounds simple, it comes with a hitch: the price for a single shipset for one aircraft type can easily amount to several million dollars, and most airlines have several aircraft types in their fleets.

That’s why the most economically sound decision is Lufthansa Technik’s exchange-gear pool of hundreds of spares – a capital-intensive service that, in conjunction with our sophisticated logistics, keeps your aircraft in the sky and brings your budget down to earth.

Spot landing in a dynamic market
Whether times are good or bad – in our experience, overhauls are routinely postponed until the last permissible date. In a climate of global competition that favors business models for ultra low-cost carrying, this comes as no surprise.

Our solution lies in the systematic management of change, whether that’s the geographical structure of repair and overhaul facilities or the continuous optimization of the information flow for every single employee involved in the repair process. As a result, our customers have a realistic picture of the overhaul situation from the very beginning; they know from the start what they are buying from us.

When it comes to delivering performance as promised, our customers prefer professional openness to the strained deadlines and budgets that result from over-optimistic turnaround times and cost estimates.

All bases covered
If you asked them to name Lufthansa Technik Landing Gear Services’ most important advantage over the competition, our customers and staff alike would probably agree on our unique in-house process capability. It isn’t literally in one house; it’s spread across three continents. And the structure is best imagined in 3-D: Horizontally, each workshop takes care of a certain region. But vertically, depending on the size and complexity of the job, we concentrate certain aircraft types in certain locations to offset the high initial investment in tooling.

Your benefit: any landing gear, anywhere in the world, can be plugged into this matrix for the optimal ratio between the appropriate technology and the lowest transport costs. Once we’ve decided which location is right, your landing gear moves through a steady, industrialized track of predetermined stages in a low turnaround time that leads the industry.
Preparing an A330/A340 landing gear for shipment
Pressure test on Airbus Main Landing Gear
Instead, Lufthansa Technik Landing Gear Services understands itself as a solution provider: you name the problem, we find a way to solve it, from a single overhaul to the all-encompassing 24/7 guaranteed services of our integrated Total Landing Gear Support (TLS™) to accompany your aircraft’s landing gears over their entire life cycle. TLS™ starts the moment the landing gear is put on your plane: we monitor operational times, track life-limited parts, plan and schedule AOG events and LRU support, process overhauls (including exchange units) and even provide leasing and loan plans to carry you all the way to the final resale.

*Landing Gear Services capabilities worldwide*

Whether you need a single repair task or Total Landing Gear Support (TLS™): with everything we do, we live up to our promise to get your planes up where they belong – and keep the costs on the ground.

### Landing Gear Services capabilities

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<thead>
<tr>
<th>Airservices</th>
<th>Boeing</th>
<th>Narrowbody</th>
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<tbody>
<tr>
<td><strong>Airbus</strong></td>
<td>727, 737 Classic, 737NG, 747, 757, 767, 777, DC 9, DC-10, MD-11, MD-80, MD-90</td>
<td>BAe 146, Avro RJ, ERJ 130, ERJ 135, ERJ 145, ERJ 170, ERJ 175, ERJ 190, ERJ 195, CRJ700, CRJ900, Gulfstream</td>
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<tr>
<td><strong>Narrowbody</strong></td>
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<td><strong>In preparation</strong></td>
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Lufthansa Technik Logistik’s experience in aviation logistics ensures that a shipset, a strut or a spare is available when and where it’s needed.

**Pack and go**
But there’s more: Lufthansa Technik has developed a proprietary transport system for a number of landing gear types. This system consists of a specially designed transport platform that holds a complete shipset and offers two distinct advantages: first of all, the cost of transporting the shipset is reduced, because the space required on a freighter aircraft is kept to a minimum. At the same time, the possibility of damage during shipment is drastically diminished, because the landing gear struts are secured to the transport platform.

**Approved for a wide array of services**
With its triple competence – EASA, FAA, JCAB and CAAC certifications as a maintenance, design and production organization – Lufthansa Technik is far more capable than your average MRO shop. Our experience and expertise enable the development of proprietary alternative repair methods, the production of highly individual spares such as bushings, and a host of other efficiency-enhancing measures.

**Other certifications:**
- EN 9100/9110
- ISO 14001:2004
- ISO 18001:2007 OHSAS
- NANDTB-G_R010/011

**Efficient and safe logistics**
Landing gears aren’t comparable to other aircraft components, and that for more reasons than just their size. The best example is the task of transporting a shipset to a customer location on another continent. Through its subsidiary Lufthansa Technik Logistik, Lufthansa Technik can deliver a landing gear to any location a customer requires.
The proprietary landing gear platform transports a complete shipset.
Just one leg away.
A world of landing gear services.

With facilities in the USA, Europe and Asia, Lufthansa Technik’s Landing Gear Division is close to the customer everywhere. Its combination of state-of-the-art shops, experienced personnel and modern equipment results in almost 100 percent in-house capability. In addition, customers can count on the support of our experienced professionals when it comes to operational problems, troubleshooting or equipment modifications.