



Lufthansa Technik

Landing Gear Services UK



**Another first for Lufthansa Technik
Landing Gear Services UK**

In 2012 LTLGS signed an 84 aircraft agreement for the overhaul of the Landing Gears of the B777 fleet of Air France.

Included in this deal were the B777-300ER, the latest and heaviest version of this aircraft.

The Landing Gears for this B777-300ER version were redesigned to cope with the additional all up weight of the aircraft which has increased from 668,000 lbs to 778,000 lbs and this increase resulted in a totally new version of the Landing Gears and the purchase price has more than doubled from the original 7 Million USD price tag of the earlier versions.

As part of the AFR contract LTLGS purchased the spare set of B777-300ER Landing Gears from AFR and also were required to set up overhaul capability for this version in less than 3 months.

LTLGS are pleased to announce that the overhaul of the first set of B777-300ER Landing Gear was completed in February 2013 after a scheduled 45 day in house turn time.

The first B777-300ER Landing Gear Overhaul in the World.

The Dawning of a another new era ...



The 1st of March 2011 was a milestone for Hawker Pacific Aerospace Limited when the Company officially changed its name to Lufthansa Technik Landing Gear Services UK (LTLGS). The American sister company name of Hawker Pacific Aerospace in Los Angeles (HPSV) remains unchanged. LTLGS and HPSV both remain wholly owned subsidiaries of Lufthansa Technik and members of the Landing Gear Product Division.

LTLGS has established an extremely high level of service to Airlines globally. In addition to the expertise of the highly skilled and experienced workforce, LTLGS's advanced systems offer unequalled efficiency and economy.

LTLGS is a leading provider of landing gear overhaul, repair and maintenance services. The company repairs and overhauls landing gear, hydro-mechanical components, flap tracks and flap carriages mainly for Boeing aircraft.

Based near London, LTLGS's purpose built facility is just 15 minutes from Heathrow and is one of the most modern landing gear shops in the world. The business has expanded rapidly since it was established in 1998, steadily increasing its product range and has created a very broad global customer base.

LTLGS's capability includes the complete Boeing aircraft ranges and CRJ. Full in-house capability, combined with an extensive exchange asset base and spares inventory, allow LTLGS to support a high proportion of the world's largest fleets.

Services offered include full repair and overhaul from individual piece parts through to full ship sets, 24/7 global on-wing and AOG support and exchange and spares sales.



Landing Gear Bushings & Bushing-Like Parts

Time is money. As an aircraft OEM or MRO, you can't afford to have part delays hold up your overall schedule. That's why 2Source is always looking for better ways to reduce lead times and drive down costs for so we can pass on the savings to you!

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2Source has been licensed by Boeing to manufacture and sell a wide variety of PMA landing gear components directly to airlines and MROs worldwide (including 737, 747, 757, 767 and 777 parts)

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Our Products & Services

Landing Gears

Supports an aeroplane on the ground and absorbs vertical shocks on take-off and particularly, landing. The main part is a shock absorbing strut, comprising a piston and cylinder.

The cylinder is filled with high pressure nitrogen and hydraulic oil.

The Nitrogen acts as a spring and resists the piston being forced into the cylinder, contracting and expanding in response to external forces. Movement of the piston in the cylinder forces the hydraulic oil to flow through restricting orifices and slow the movement, removing any violent changes and making the movements comfortable for the passengers.

Typically, there are two or more large units (Main Landing Gears) in the middle of the aircraft, which are capable of supporting the full weight of the Aircraft; and a smaller one; at the front (Nose Landing Gear) basically intended to support the front of the aircraft and provide steering for manoeuvring within the tight confines of an Airport.

Flap Tracks

Working in close relationship with OEM Boeing, we have developed overhaul and repair plans for 737 and 747 carriages and 737,747 and 757 flap tracks.

In addition to our MRO services, we have substantial inventory for exchange components covering: Flap Tracks 737, 747, 757

Carriage Tracks

Working in close relationship with OEM Boeing, we have developed overhaul and repair plans for 737 and 747 carriages and 737,747 and 757 flap tracks.

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by Airlines and Handling Agents. Apart from IATA, we also hold a number of UK Government Licences that enables us to handle military and sensitive cargoes, provide shorter close out times for flights for all types UK Export cargoes and our own Customs Clearance Department for inbound cargoes.

Time Critical Services

We are proud to be a founder member of TCLA and we provide a range of services mainly for the Aerospace Industry, from routine through to AOG and we have an AOG Duty Officer on call 24/7-365.

We also provide climate controlled services for Hi-Tech Cargoes within this sector taking advantage of our ability to take the very latest close out for flight.

For AOG/NFO requirements, our own in house Customs Clearance Department means that we can ensure that complete customer satisfaction is delivered.

In addition to this we also provide an OBC service both outbound and inbound.

We are fully experienced within the Aerospace Sector from small shipments such as consumables, to larger ones



such as rotables through to engines and landing gears. All UK road movements of engines from a V2500 through to RB211's and the Trent 900 are moved on purpose built Aero Engine Trailers.



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Hydraulics

The Hydraulics department at Lufthansa Technik Landing Gear Services is the latest addition to the large number of services the company has to offer to its growing number of clients. It is a self contained department which manages the hydraulic components in and out of the workshop, allowing for overhaul requirements, S.B embodiment or functional testing for continual service.

LTLGS (Hydraulics department) has a extensive unit capability list, which is always growing helped by the fact we can manufacture required tooling within the factory to approved standards and drawings from relevant manufacturers, and the use of a state of the art touch screen Skydrol test stand. Please contact LTLGS for capability confirmation.

The department has a very high workload capability combined with extremely competitive turn times due to LTLGS's in-house Machining, Plating, N.D.T and Bush Manufacture capabilities making LTLGS an excellent choice for individual line replacement components as well as full landing gear overhauls.



LRU's

Line Replacement Units or Piece Parts are repaired or overhauled and provided with certification to release to service. Fast Turn Times come as standard and we aim to turn AOG linked LRU's within 24 hours wherever possible. We offer competitive rates and superior turn times in order to meet and exceed customer expectations.



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Spares

Nothing can keep an aircraft on the ground longer than parts that are impossible to locate. LTLGS stocks more than 40,000 different parts to assist operators in planning and controlling their maintenance budgets. Advanced software, coupled with modern warehousing techniques link our support sites for rapid response to our customers.

LTLGS uses bar coded routing to support a sophisticated computer tracking system. The system supports build time part movement, manpower loading, machine scheduling and labour inputs. This enables us to confidently track your spares on their route to the aircraft on the ground.

Our proprietary computer system, recognised as the industries most advanced, tracks all components through the repair or overhaul process and allows for "on the fly" adjustment of production schedules to meet the operators urgent requirements. By maintaining constant control, LTLGS can deliver the highest quality, fastest turnaround times and most responsive service.



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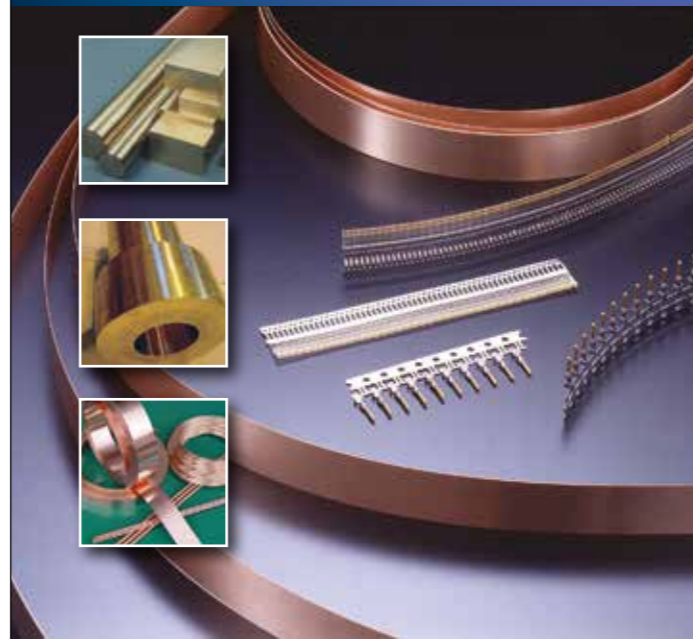
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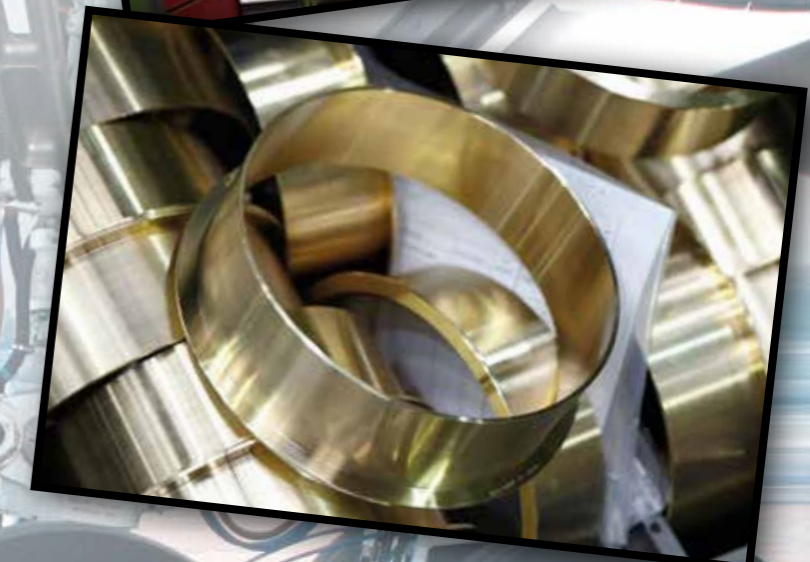
Lufthansa Technik Landing Gear Services UK offers the services of highly qualified technicians for landing gear repairs and seal changes. These designated teams are available around the clock for destinations worldwide.

Many years of experience, high training standards and specially adapted tools assure competitive pricing and shortest work-completion times.

The AOG / OWS Teams Landing Gear have repaired more than 500 landing gears during or outside line maintenance worldwide. Landing gear repair and seal changes are offered for B737, B747, B767, B757, B777, MD11, MD80/90, DC10 & CRJ700 around the clock for destinations worldwide.

Services range from investigative inspections, straight forward seal changes, axle / inner cylinder changes to gear assembly.

With 4 teams of Technicians and Technical Support on call 24 hours, 365 days a year, LTLGS UK can help support more than one airline at a time and generally can be on the route within 24 hours of the call to the location needed.





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Additional Services Offered by LTLGS UK

LTLGS UK is not only a world leader in the repair and overhaul of aircraft landing gear, flap track and flap carriage overhaul. We also have the expertise to offer services in the following disciplines:

Non-Destructive testing:

- Ultrasonic, Magnetic Particle, Ultrasound, Stresscan.

Machining:

- Internal and external grinding. Up to two metres swing, Planetary grinding, Surface grinding, Honing up to two metres, Jig boring, Turning, Milling.

Painting:

- Full paint shop for small or large batches in polyurethane etc.
- Full chemical paint strip, plastic media blasting and shot blasting.

Plating:

- Chrome, Nickel, Cadmium.

Specialist tasks:

- Flapper Peening, Nitrile Etch.

Product Development

LTLGS UK is committed to maintaining a full in-house capability. LTLGS has the ability to cover the complete spectrum from piece parts to the largest landing gear shipset.





The Environment

The Company will operate an environmental management system based on continual examination of its processes, and thereby eliminating any real and potential environmental impact.

The Company will comply with, and aim to exceed, all relevant statutory legislation such as Environmental Permitting Regulations (EPR), formally known as Pollution Prevention and Control (England and Wales) Regulations 2000. The Company will review legislative requirements, guidance notes, codes of practice and recommendations from relevant sources in order to update its environmental management programmes.

The Environmental Management System (EMS) shall use a system of management reviews and internal audits precipitating change and corrective action where required.

Continual improvement programmes will be developed utilising multi-disciplinary teams, employee feedback and the commitment of resources by management. These programmes will set targets for improvement and regularly review progress.

The Company's products, processes and operations will be continually examined to ensure the prevention of pollution.

Contact Us

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▲ A340 - Main Landing Gear (MLG)-
Outer cylinder



▲ B767 - Main Landing Gear (MLG)-
Outer cylinder



▲ B787 - Main Landing Gear (MLG)-
Truck beam



▲ A320 - Nose Landing Gear (NLG)-
Inner cylinder



▲ B737NG - Hanger Link



▲ B737 - Nose Landing Gear (NLG)-
Inner cylinder

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