



Lufthansa Technik

World of services

**Mobile Engine
Services
in EMEA**

Mobile Engine Services by Lufthansa Technik offers a broad spectrum of customized repair and maintenance solutions within Europe, Middle East and Africa. These specialized solutions keep your engines flying while avoiding costly shop visits. They range from individual borescope inspections to comprehensive engine fleet programs, from scheduled maintenance events at your site to emergency repairs.

Mobile Engine Services is Lufthansa Technik's fast track to avoid major shop visits. Depending on the requirements of the individual repair solution, the available options range from InFIELD services provided by our Airline Support Team (AST® Engines) to a number of quickturn events performed at our local repair stations in Dublin, Ireland and Frankfurt, Germany. A Cyclean® Engine Wash* at one of the locations of our continuously growing regional Cyclean® station network is also part of our InOPERATION offering for customers in EMEA.

An exemplary case for the InFIELD® Engines solutions

In standard operation on CFM56-7B engines, the Fan Containment Case and the Fan Frame Shroud are sensitive engine parts where unacceptable findings like scratches, corrosion or erosion can occur. If a repair is not possible anymore a replacement becomes necessary.

Customer advantages

Minimized impact on aircraft operation through short turnaround times

Sustainable reduction of total MRO cost

No shipping cost if event is performed on-wing/on-site

Surgical repair solutions with minimum workscopes

Fast SB and AD implementation

To avoid a shop visit, Lufthansa Technik's Mobile Engine Services has developed a procedure to replace the Fan Containment Case and/or the Fan Frame Shroud at the removed engine InFIELD at the aircraft's location. This procedure takes five days for the Fan Containment Case and nine days for the Fan Frame Shroud at most and can be carried out during a suitable layover, for example a C-Check. A serviceable Fan Case or Fan Frame Shroud gives the customer the chance to use the engine for its entire potential life.

* For more information about Cyclean® Engine Wash, please refer to a separate data sheet or visit our website www.lufthansa-technik.com/Cyclean

Mobile Engine Services: Your solution-oriented approach



Mobile Engine Services

- Local presence in the regions (repair stations and mobile teams)
- Focus: Surgical repairs
- Keep your engine flying!

Lufthansa Technik capability list

CFM56-5B/-7B		V2500	LEAP-1A
Engine 	Engine C-Check (Lufthansa Standard)		Engine C-Check (Lufthansa Standard)
	Engine Preservation		Engine Preservation
	QEC Installation		QEC Installation
	QEC Removal and Inspection		QEC Removal and Inspection
	Video Borescope Inspection and Report		Video Borescope Inspection and Report
Fan Module 	Accessory Gearbox Replacement (AGB)		Angle Gearbox Replacement (AGB)
	Brg. No. 3 Front Seal (270°) Replacement		External Gearbox Carbon Seals Replacement
	Brg. No. 3 Stationary Air Oil Seal Replacement		Fan Blade Replacement
	Fan Abradable Liner Replacement		Fan Case Attrition, Anti-Ice or Acoustic Panel Replacement
	Fan Blade Replacement		Fan Case Replacement
	Fan Containment Case Replacement		Fan Exit Guide Vane Replacement
	Fan Disk Replacement		Fan Hub Replacement
	Fan Frame Bearing Unit Replacement (2BU)		Fan Trim Balance
	Fan Frame Shroud Replacement		LPC Module Replacement
	Inlet Gearbox Replacement (IGB)		LPC Stg. 1.5 Blade Replacement
	LPC Blade Replacement		LPC 2.5 Bleed System Repair/Replacement
	LPC Module Replacement		Main Gearbox Replacement (MGB)
	Transfer Gearbox Replacement (TGB)		N1 Probe/Harness/Vibration Sensor Replacement
			No.3 Bearing Replacement
Core Module 	Combustion Chamber Replacement		Fuel Nozzle Replacement
	Fuel Nozzle Replacement		Combustor Panel Replacement
	HPC Boro Blend Repair		Fuel Nozzle Replacement
	HPC VSV Bushing Repair		HPC Module Replacement
	HPT Blade Replacement		HPC Stg. 3-8. Drum Replacement
	HPT Module Replacement		HPC Top Case Repair (Front Split Cases)
	HPT Front Rotating Air Seal Replacement		HPT Blade Replacement
	HPT NGV Module Replacement		HPT Module Replacement
	HPT Stg. 1 NGV Replacement		HPT T1/T2 Hub Replacement & USI
	IGV Actuation Ring Replacement		HPT Single Nozzle Guide Vane (NGV) Replacement
	LPT Stg. 1 NGV Replacement		M-Flange Diff-NGV-HPT Case Replacement
	Top Case Repair		
LPT Module 	Brg. No. 5 Replacement		Brg. No. 5 and Carbon Seal Replacement
	LPT Module Replacement		Brg. No. 5 Blind Cap Seal Replacement
	TRF Replacement		Brg. No. 5 Oil Coking



Mobile Engine Services in EMEA



Lufthansa Technik

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