



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.

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

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 Cycleclean® Engine Wash* at one of the locations of our continuously growing regional Cycleclean® station network is also part of our InOPERATION offering for customers in EMEA.

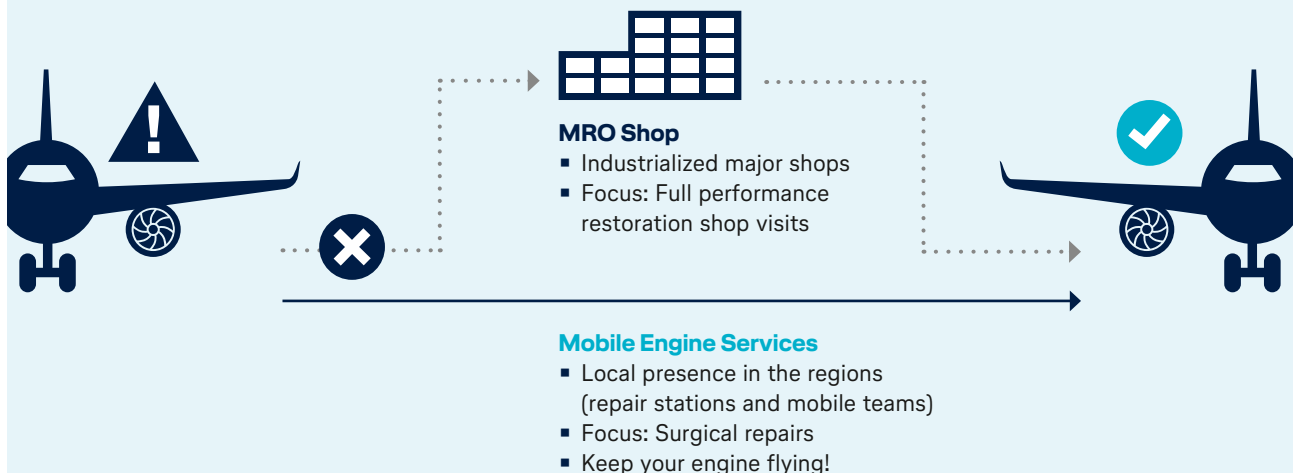
To avoid a shop visit, Lufthansa Technik's Mobile Engine Services has developed a procedure to replace the Fan Containment Case and/or the Fan Frame Shroud at the removed engine InFIELD at the aircraft's location. This procedure takes five days for the Fan Containment Case and nine days for the Fan Frame 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.

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.

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

Mobile Engine Services: Your solution-oriented approach



Lufthansa Technik capability list

	CFM56-5B/-7B	V2500	LEAP-1A
Engine 	Engine C-Check (Lufthansa Standard) 	Engine C-Check (Lufthansa Standard) 	Engine C-Check (Lufthansa Standard) 
	Engine Preservation 	Engine Preservation 	QEC Removal and Inspection 
	QEC Installation 	QEC Installation 	QEC Installation 
	QEC Removal and Inspection 	QEC Removal and Inspection 	Video Borescope Inspection (w/ 360 degree inspection of HPT Shrouds and HPT Nozzles) 
	Video Borescope Inspection and Report 	Video Borescope Inspection and Report 	
Fan Module 	Accessory Gearbox Replacement (AGB) 	Angle Gearbox Replacement (AGB) 	Fan Blade Replacement (incl. Fan Blade Mapping) 
	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 	Combustor Module Replacement 	Fuel Nozzle Replacement 
	Fuel Nozzle Replacement 	Combustor Panel Replacement 	HPC Boro Blend Repair 
	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 	



InFIELD (on-wing)

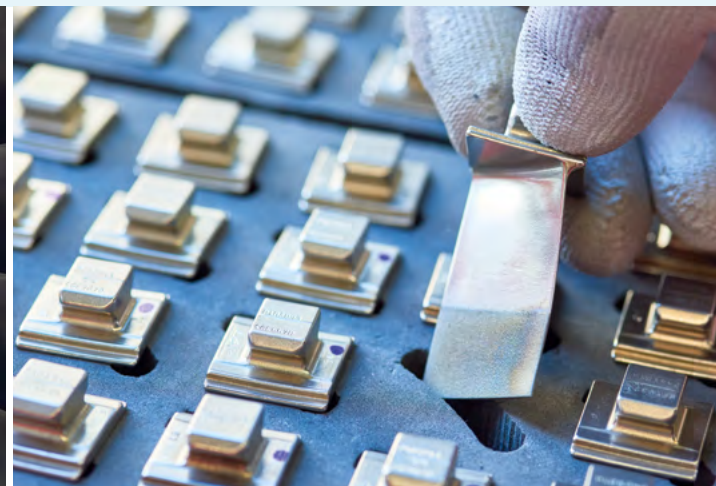


InFIELD (on-site)



InSTATION

Mobile Engine Services in EMEA



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