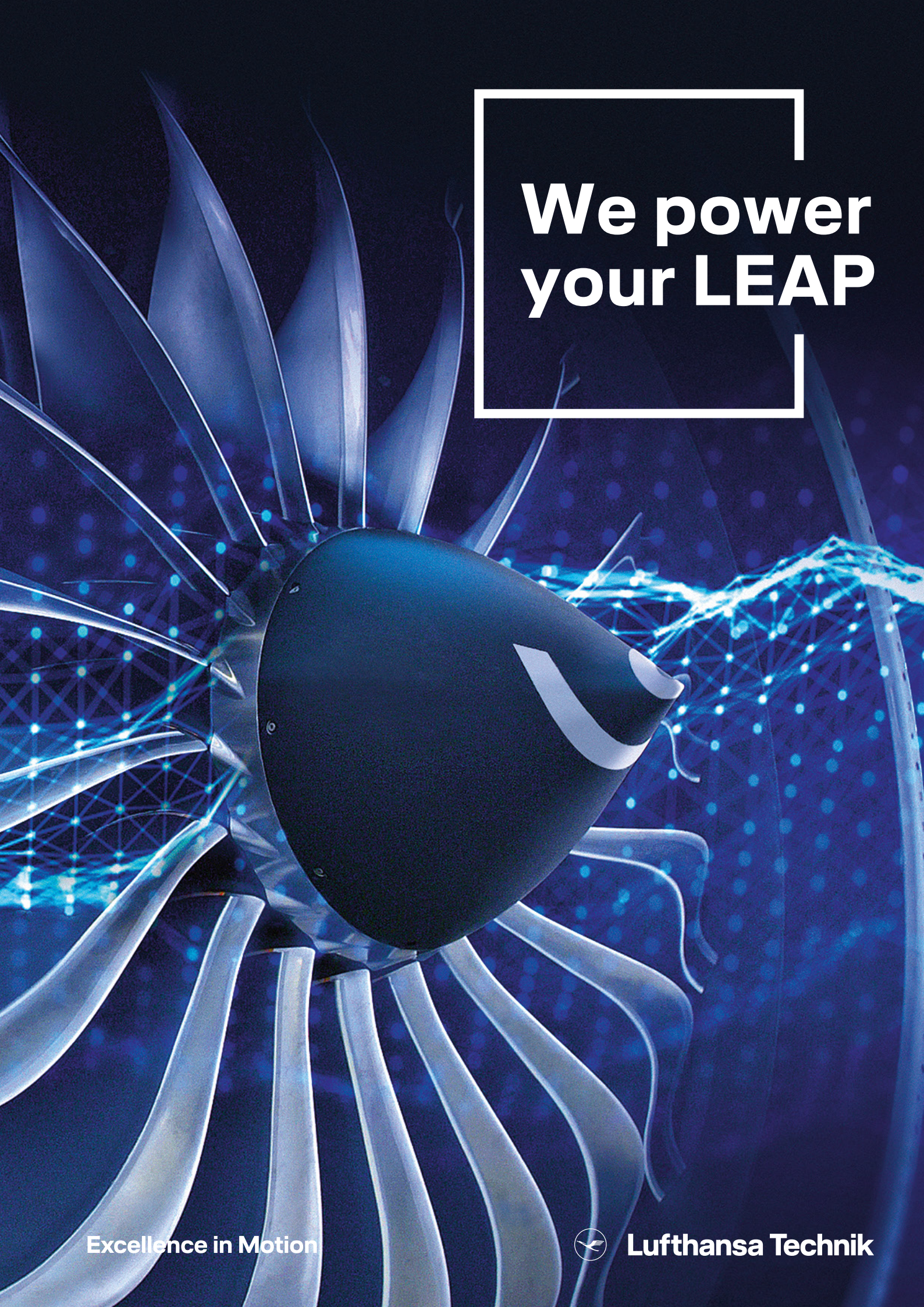




**We power
your LEAP**

Excellence in Motion



Lufthansa Technik



We are ready to support your LEAP engine operations, representing the next generation of aircraft engines. Having recently extended our capabilities, we now offer the full spectrum of MRO services, ranging from Mobile Engine Services to full performance restoration shop visits up to piece part level for your LEAP engines.

The foundation for developing capabilities for these state of the art engines was laid in February 2018, when Lufthansa Technik became the first independent MRO provider to join the LEAP-1A overhaul network. In January 2022, we continued to expand our product portfolio by adding the LEAP-1B. Thereby making Lufthansa Technik the first independent MRO provider being a partner in both overhaul networks. Our decades of experience, highly skilled mechanics and airline perspective enable us to offer customized services for all phases of your engine's lifecycle. Our tailored solutions and in-house repair capabilities guarantee outstanding quality with short turnaround times. We offer the widest range of services to optimize your total cost of ownership and to support your operations.

Services

Lufthansa Technik offers a comprehensive MRO portfolio to optimize the lifecycle of your engines. This is based on the development of new technologies and processes tailored to your needs and includes multiple individual contract and pricing models.

Benefits

Flexible engine MRO solutions tailored to your needs

Focus on optimizing your total cost of ownership

Complete engine disassembly and assembly into piece part level

Worldwide support through Mobile Engine Services

In-house test capabilities in Hamburg

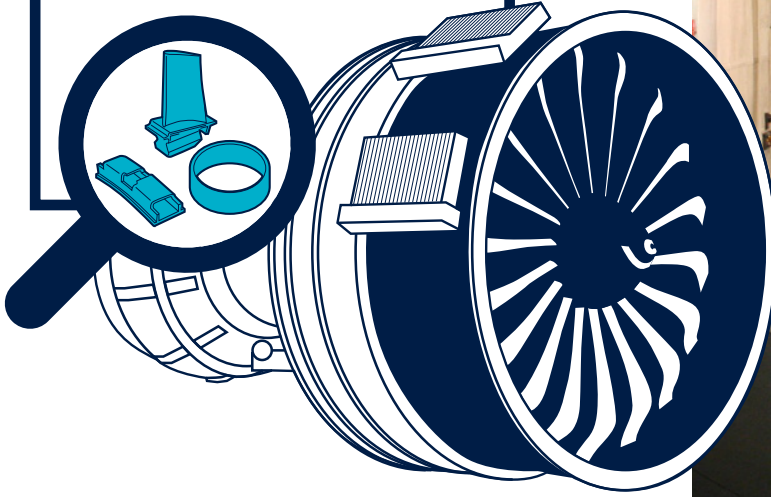
Combining long-standing MRO experience and airline know-how

Extensive experience with the introduction of new engine types

Digital support through AVIATAR: transparency and tracking of your MRO events and more

Your independent MRO provider for LEAP engines

Ranging from Mobile Engine Services to full performance restoration shop visits up to piece part level for your LEAP engines.



Lufthansa Technik is an authorized LEAP-1A and LEAP-1B Service Provider licensed by CFM International

Operational support

 **Mobile Engine Services**
InFIELD (Mobile Engine Services) & InSTATION various services e.g. HPC boro blend, QEC removal and installation, Fuel Nozzle replacement

 **Cycleclean® Engine Wash**
Present at more than 80 locations worldwide, countless mobile options, up to 80% time and man hour savings compared to AMM procedure, best in class EGT recovery and fuel flow reduction

 **Spare engine support**

 **Engine Health Monitoring**

 **AVIATAR**
Transparency and tracking of your MRO events, predictive maintenance applications and more visualization of data

 **Engineering services**
incl. AD/SB assessment, workscooping, engine maintenance planning, failure-analysis, lease transition, long-term product improvement and Design Organisation EASA Part 21J

 **Wing-to-wing services**
incl. engine removal, transport to shop, repair, replacement engine

Shop support

 **Full performance restoration shop visits**
incl. engine test capability

 **Quick Turns and minor shop visits**
incl. HPT Shroud replacement, LPT Blade Retainer replacement

 **Parts and component repair and component handling**
incl. Fan Blade repair, LLP repair

 **Warranty handling (warranty station)**
incl. SB Industry Support, Commitment Letter, New Parts and New Engine Warranty

 **Housekeeping services**
incl. Incoming BSI, Engine Preservation, Engine Storage etc.

 **SmartLIFE**

 **Virtual Engine Inspection**
provided via 5G network: virtual table inspection and virtual video boroscoping



Lufthansa Technik capability list up to piece part level

	Workscopes	In shop	In FIELD (Mobile Engine Services)
Engine 	Receiving inspection	✓	
	Shipping Stand inspection	✓	
	Full video BSI incl. virtual BSI	✓	✓
	C-Check	✓	✓
	QEC removal and installation	✓	✓
	Fwd./Aft. Mount removal and installation	✓	
	Engine Acceptance Test	✓	
	Cyclean® – Engine Water Wash	✓	✓
	Engine preservation	✓	
	Lease return and transition	✓	
	Engine Thrust rating alteration	✓	
	EEC software updates	✓	
	Fan Blades Set removal and installation	✓	✓
	Fan Blade repair	✓	
	AGB removal and installation	✓	
	AGB repair (esp. SB 72-00-0409)	✓	
	TGB removal and installation	✓	
	TGB repair (esp. retrofit SB 72-00-0337)	✓	
Fan Module 	IGB removal and installation (Quick Access Procedure)	✓	
	IGB repair (esp. Bearing No. 3 Housing Replacement)	✓	
	Fan and Booster Module disassembly & assembly	✓	
	Fan and Booster balancing	✓	
	No. 1 & No. 2 Bearing Support Module disassembly & assembly	✓	
	Fan Case Module disassembly & assembly	✓	
	Fan Frame Module disassembly & assembly	✓	
Core Module 	HPT Stage 1 Shroud replacement	✓	
	HPT Stage 1 Blade replacement	✓	
	HPC Rotor Module disassembly & assembly	✓	
	HPC Stator Module disassembly & assembly	✓	
	HPC Rotor balancing & grinding	✓	
	HPC Blisk & Blade boro blending	✓	✓
	Combuster Diffuser Module Nozzle disassembly & assembly	✓	
	Fuel Nozzle	✓	✓
	Combustion Chamber Module disassembly & assembly	✓	
	HPT Rotor Module disassembly & assembly	✓	
	HPT Stage 1 Nozzle Module disassembly & assembly	✓	
	HPT Stage 2 Nozzle Module disassembly & assembly	✓	
	HPT Rotor balancing	✓	
	HPT Rotor & Stator grinding	✓	
	TCF Module disassembly & assembly	✓	
	LPT Stage 1 Nozzle Module disassembly & assembly	✓	
LPT Module 	LPT Stage 1 Blade Retainer Ring replacement	✓	
	LPT Shaft Module disassembly & assembly	✓	
	LPT Rotor and Stator Module disassembly & assembly	✓	
	LPT Rotor balancing	✓	
	Turbine Rear Frame Module disassembly & assembly	✓	

Quick Turn procedures

Contact

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