

LEAP engine and module MRO

Customized MRO from the engine experts



MTU Maintenance is the global market leader in customized solutions and our team is made up of engine experts. Our intelligent services build on the engine expertise of over 20,000 shop visits in 40 years. As with the over 30 other engine types in our portfolio, we offer customers individual tailored and specialized solutions for LEAP engines – catered entirely to their needs.

Our facility MTU Maintenance Zhuhai, a 50/50 joint venture with China Southern Airline Holding Company Ltd, introduced the LEAP into its portfolio in 2019. As the largest engine facility in Asia, it was one of the first MRO shops worldwide to obtain full LEAP disassembly, assembly and test (DAT) capability. And was the

first MRO shop outside the OEM network that could provide quick-turn shop visits service to address any early technical issues in the LEAP fleet. We are EASA/FAA and CAAC approved on this engine type and ideally located in Asia's aviation hub.

Alongside LEAP engines, the facility also services CFM56, V2500 and soon, PW1100G-JM engines.

Our facility at a glance

- Largest engine MRO shop in Asia
- Capacity for 450 shop visits p. a.
- Over 3,000 shop visits in 20 years
- Largest independent CFM56 provider (130+ customers and 2,300+ shop visits)*
- Full quick turn and overhaul capabilities

*group figures



Your benefits

- Customized and cost-efficient MRO
- Competitive pricing structures
- Engine leasing options through MTU Maintenance Lease Services
- On-site and near wing support
- Short-term slot availability and induction
- Fast turnaround times



LEAP-1 A capabilities

	Workscope	QT	OSS*		Workscope	QT	OSS*
1	AGB repair	✓		13	HPC blades boro-blending	✓	✓
2	AGB replacement	✓	✓	14	HPT shroud stage 1 replacement	✓	
3	Booster module removal and installation	✓		15	IGB replacement	✓	
4	Core removal and installation	✓		16	LPC stage 1 vane replacement	✓	✓
5	EEC software updates	✓	✓	17	LPT module removal and replacement	✓	
6	Engine conversion (ID plug)	✓	✓	18	LPT stage 1 blade retainer ring replacement	✓	
7	Fan blade repair	✓		19	No. 1 & 2 bearing support module removal and installation	✓	
8	Fan blades set replacement	✓	✓	20	Powerplant QEC build	✓	✓
9	Fan case abradable repair	✓	✓	21	Receiving inspection + EOL check + stand inspection	✓	✓
10	Fan OGV replacement wit	✓	✓	22	TCF removal and installation	✓	
11	Fuel nozzle set removal/installation	✓	✓	23	TGB repair	✓	
12	Full BSI + video	✓	✓	24	TGB replacement	✓	✓

*On-site and near-wing capabilities

LEAP-1B capabilities

	Workscope	QT	OSS*		Workscope	QT	OSS*
1	AGB replacement	✓	✓	12	HPC blades boro-blending	✓	✓
2	Booster module removal and installation	✓		13	HPT shroud stage 1 replacement	✓	
3	Core removal and installation	✓		14	HPT stage 2 blades full set removal	✓	
4	EEC software updates	✓	✓	15	Inner RDS removal and replacement	✓	
5	Engine conversion (ID plug)	✓	✓	16	LPC stage 1 vane replacement	✓	✓
6	Engine mounts removal and installation	✓	✓	17	LPT module removal and replacement	✓	
7	Fan blades set replacement	✓	✓	18	Powerplant QEC build	✓	✓
8	Fan case abradable repair	✓	✓	19	Receiving inspection + EOL check + stand inspection	✓	✓
9	Fan OGV replacement	✓	✓	20	TCF removal and installation	✓	
10	Fuel nozzle set removal/installation	✓	✓	21	TGB replacement	✓	✓
11	Full BSI + video	✓	✓	22	TRV module removal and installation	✓	

*On-site and near-wing capabilities

