

ON-SITE^{Plus}

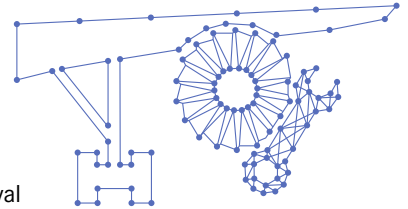
More than just on-site or near wing services.



Like the interneurons in the brain, we are smart, fast and network quickly to solve a problem. Whether it's a planned repair or an Aircraft On Ground (AOG), MTU's ON-SITE^{Plus} engine experts provide a wide range of engine services. These range from borescope inspection to module swaps on the largest engine portfolio worldwide.

We are reliable, independent and our expertise is based on over 40 years as a major MRO industry player. We intelligently customize solutions to ensure continued operations. And wherever possible we repair on or near-wing. In doing so, we minimize disruption, reduce overall cost and maximize usage. In fact, MTU Maintenance regularly engineers and obtains certification for newer, faster and less invasive procedures to access even more parts on or near wing.

Our specialists take care of all inspections and paperwork, giving the MTU stamp of approval before an engine is passed on. ON-SITE^{Plus} combines service, quality, reliability and efficiency with MTU expertise and intelligent solutions. Additionally, we can perform all worksopes within our network of shops and provide spare engines as required.



**Count on us.
Whenever, wherever and whatever.**

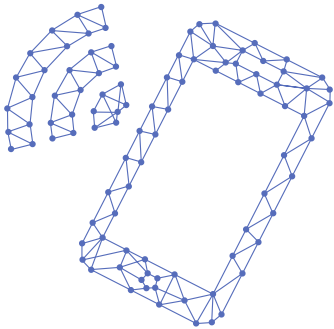
Why MTU?

- OEM, MRO and lessor expertise
- 40 years of experience
- Fast, intelligent response from an extensive global network
- Smart solutions leveraging all MTU services
- Financial strength and asset management for extensive material solutions (incl. buy back options)
- Worldwide material availability



Your benefits

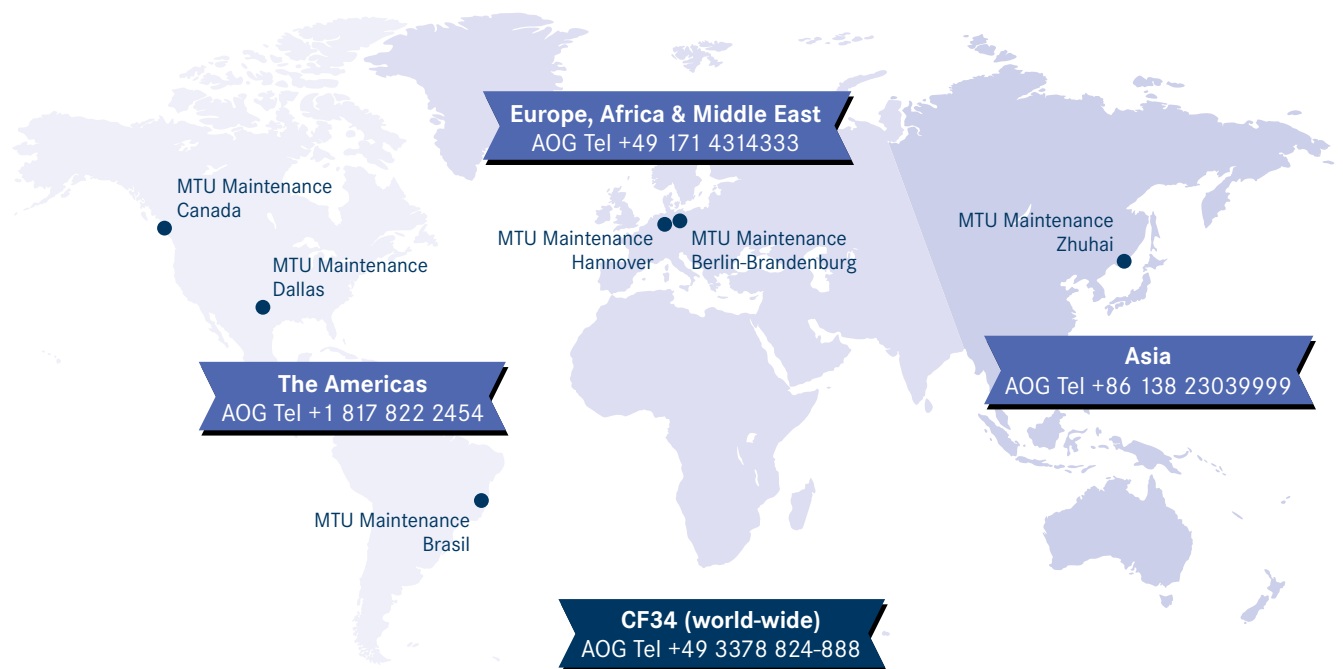
- Maximized engine utilization and operations
- Reduced cost through:
 - shop visit avoidance
 - minimum worksopes
 - preventive maintenance
 - reduced transportation needs
 - special procedures to reduce workscope creep
- AD and SB implementation



Our fast global network

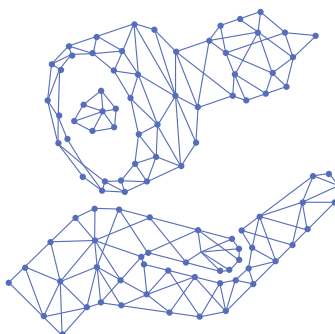
MTU Maintenance completes over **1,000 events annually** for more than **300 customers worldwide**.

We operate **24/7 worldwide** – from your home base to a remote location, in the hangar or on the apron. Our highly-qualified ON-SITE^{Plus} experts help remotely with troubleshooting or repair your engine on-site. We have **six on-site facilities** across the globe, over **120 authority approvals** and our growing team can travel to you on demand.



We have the largest portfolio

We have the largest engine type portfolio worldwide and support engines of all sizes from the CF34 all the way to the GE90-110/115. Our workscope capabilities range from small inspections up to hospital shop visits.



	CF34-3	CF34-8	CF34-10E	CFM56-3	CFM56-5B	CFM56-7	V2500-A5	PW2000	CF6-80	Leap 1A/1B	GE90-110/115
General tasks											
End of lease inspection	●	●	●	●	●	●	●	●	●	●	●
Engine change	●	●	●	●	●	●	●	●	●		●
Long term preservation in shipping stand	●	●	●	●	●	●	N/A	N/A	●	○	●
NDT services	●	●	●	●	●	●	●	●	●	○	●
Pre purchase inspection	●	●	●	●	●	●	●	●	●	●	●
QEC replacement	●	●	●	●	●	●	●	●	●	●	●
Video BSI	●	●	●	●	●	●	●	●	●	●	●
Repair worksopes											
Fan disk replacement	●	●	●	●	●	●	●	●	●		●
Fan liner repair/replacement	●	●	●	●	●	●	●	●	●	○	●
Fan case replacement	●	●	●	○	●	●	●	●	●		●
LPC module replacement	●	●	●	●	●	●	●	●	●		●
HPC blade boroblending	●	●	●	●	●	●	●	●	●	●	●
Top case	●	●	●	●	●	●	N/A	N/A	●	N/A	●
Top and bottom case	●	●	●	●	●	●	N/A	N/A	●	N/A	●
HPC VSV actuating system repair	●	●	●	●	●	●	●	●	●	○	●
Combustor replacement	●	●	●	○	●	●	○	○	●		○
HPT module replacement	●	●	●	○	●	●	○	○	●		○
HPT blade replacement	●	●	●	○	●	●	○	○	●		○
HPT/LPT nozzle replacement	●	●	●	○	●	●	○	○	●		○
LPT module replacement	●	●	●	○	●	●	○	○	●		○
LPT rear frame replacement	●	●	●	○	●	●	○	○	●		○
GBX replacement	●	●	●	●	●	●	●	●	●	●	●

● Full capability ○ Limited capability

If you have an issue you don't see solved here, challenge us to do more: on-site@mtu.de



We offer more

MTU Maintenance has a broad variety of services to reduce complexity for our ON-SITE^{Plus} customers. These include material solutions, engine exchanges and engine stand leasing, for instance.

MATERIAL SOLUTIONS

- + Extensive stock of exchange parts/modules
- + Supply of high cost parts
- + Full QEC kits (used)
- + LRU pooling support



ON-SITE^{Plus}

Customized workscopes
by our engine experts

IN-SHOP MRO

- Repair of exchange modules +
- Workscope upgrades* +
- Hospital shop visits +
- Performance test cell run +
- Specialized tooling +

HOUSEKEEPING (via TAMS)

- + Engine storage
- + Monitoring of preservation status
- + Re-preservation
- + Consultancy
- + Re-marketing of engines

COMPLEMENTARY SERVICES

- Engine installation/removal +
- Shipping stands +
- and module containers
- Logistic support +
- Engine trend monitoring +

*Only when necessary

We also pro-actively use on-site, near-wing and quick turn services as part of a customized MRO strategy to defer and perform shop visits in the most cost-effective way over the contract period. For more information, see **PERFORM^{Plus}** or our **engine trend monitoring** system, which enables preventative and/or condition-based maintenance.

For a list of our certifications, approvals and specific workscopes, please go to www.mtu.de/on-siteplus.

