



MTU Maintenance Zhuhai

Your aero engine maintenance experts in Asia

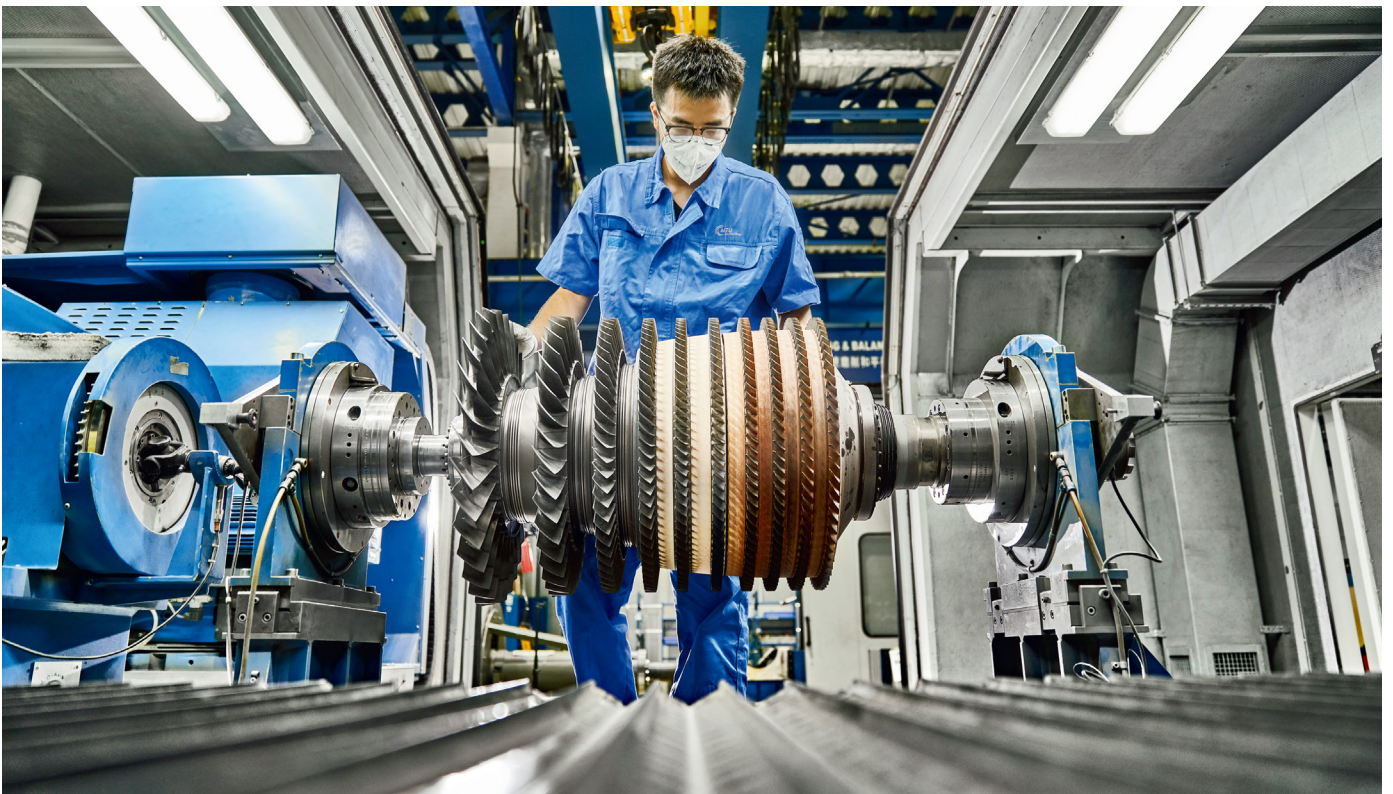
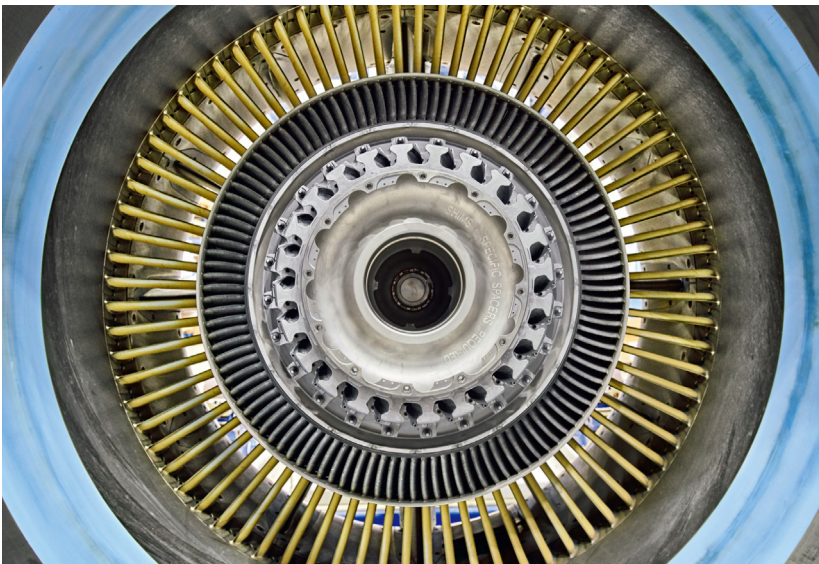


We are engine experts

Founded in 2001, MTU Maintenance Zhuhai is a glowing success story. Since operations began, we have continued to expand the company in terms of size, capacity and portfolio in order to provide quality solutions for our customers. This is underlined by the more than 3,000 shop visits that have been carried out to date.

But the success story doesn't stop there. We completed our second expansion, taking capacity from 300 shop visits to 450 a year, in 2020. And we're planning a second facility in the Jinwan district by 2025. The new shop will have its own test cell and a capacity of 260 additional shop visits.

We are backed by experience: MTU Maintenance Zhuhai is a 50/50 joint venture between MTU Aero Engines AG and China Southern Airlines. As part of the MTU Maintenance network, the company serves customers from all around the world. In fact, over a third of all shop visits come from customers outside of China.



What we do

MTU Maintenance Zhuhai stands for quality and safety, reliable and individually tailored services as well as cost-efficient solutions that help make us competitive in the global MRO market. We serve around 90 customers including International Aero Engines, airlines and leasing companies across the globe and hold over 20 certifications from aviation authorities including CAAC, EASA, FAA and JCAB.

We perform maintenance repair and overhaul, parts and component repair and warranty processing and offer spare engine leasing and technical support – all highly customized and in line with the MTU Maintenance offering.

How we do it

MTU Maintenance Zhuhai offers customers a comprehensive range of repair capabilities within the MTU Maintenance network – be it for engine overhaul, as well as single engine components and accessories. We place extreme importance on repairing parts as a way of reducing material costs and pride ourselves on our significant expertise and ability to repair parts others might scrap.

In fact, we carry out 80% of repairs in-house at MTU, this helps us keep an overview of procedures, control cost and optimize turnaround times for customers.

Examples of our extensive in-house capabilities include:

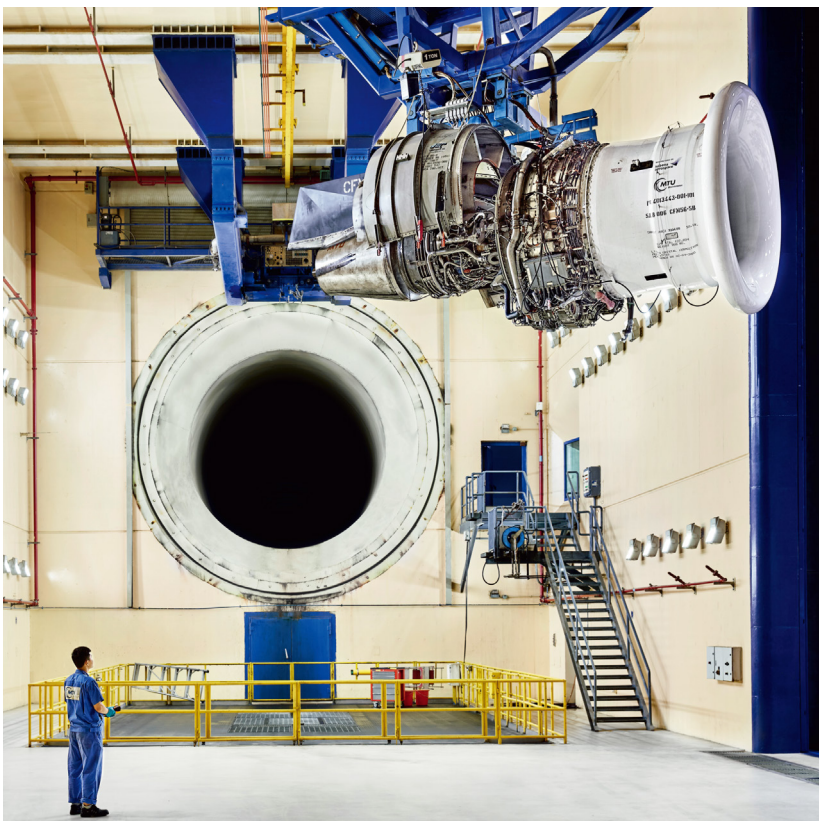
- Boroscope inspections
- Brazing and welding, including inductive preheating techniques for high-alloy materials and tungsten gas welding
- Engine component and parts cleaning system
- High-speed grinding of rotor blade tips
- Non-destructive testing
- Peening
- Plasma and flame spraying, including HVOF
- Plating and stripping, including high-pressure water stripping
- Thermal spraying
- Vacuum heat treatment
- Immersion ultrasonic inspection

MTU Maintenance Zhuhai's test cell measures 100 meters long, 13 by 13 meters in cross-section and has intake and exhaust ducts 30 meters high. It can accommodate all commercial engine types up to a thrust of 150,000 pounds and is capable of testing 450 engines annually.

At MTU Maintenance Zhuhai, we are continually innovating our processes, such as through wireless work stations, a digital flowline, a fixed overhaul system and improved logistics. Digitalization is also a key focus for us: we introduced an AOG app for customers last year as well as an AGV robot fleet for optimized internal transportation. We are excited for the future and have numerous on-going and employee-driven digitization projects!

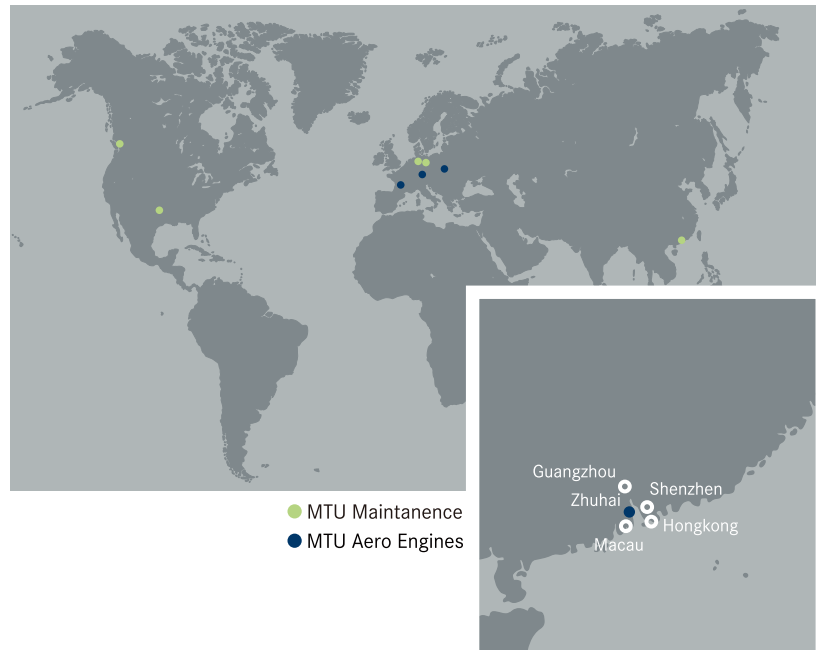
Our engine portfolio:

- CFM56-5B
- CFM56-7, including-7BE
- LEAP-1A
- LEAP-1B
- PW 1100G-JM
- V2500



Where we are

Our facility is located in Zhuhai's free trade zone and benefits from its proximity to major Chinese hubs such as Hong Kong, Guangzhou, Shenzhen and Macao. Our service teams can be dispatched to the customers in the region in no time and we are often called upon by customers for on-site services to keep their fleets flying in critical situations.



Our people make the difference

At MTU Maintenance Zhuhai, we employ more than 1,100 qualified professionals. These people are the backbone of the company and the reason we can say: we are engine experts.

To hire, retain and further educate talent, we have a wide range of excellent training programs:

- Initial training for new staff
- Computer literacy training
- English-language training
- Basic engine training
- Technical on-the-job training
- Teamwork training
- Specific training as required (e.g. maintenance and ERP software, project management, management training)

In addition to these programs, we invest significantly in training students and offer an apprenticeship program in co-operation with a local

technology school that has adopted the German dual system (a combination of theoretical and practical studies).

We are currently building our own training center to accommodate our growing staffing needs. Due for completion in 2023, the center will train 50 to 100 Chinese engineering graduates in aircraft engine mechanics per year.

We are also well networked with China's leading universities and technical schools and offer internships, study projects and much more to young and upcoming talents.





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