



MTU Maintenance Zhuhai



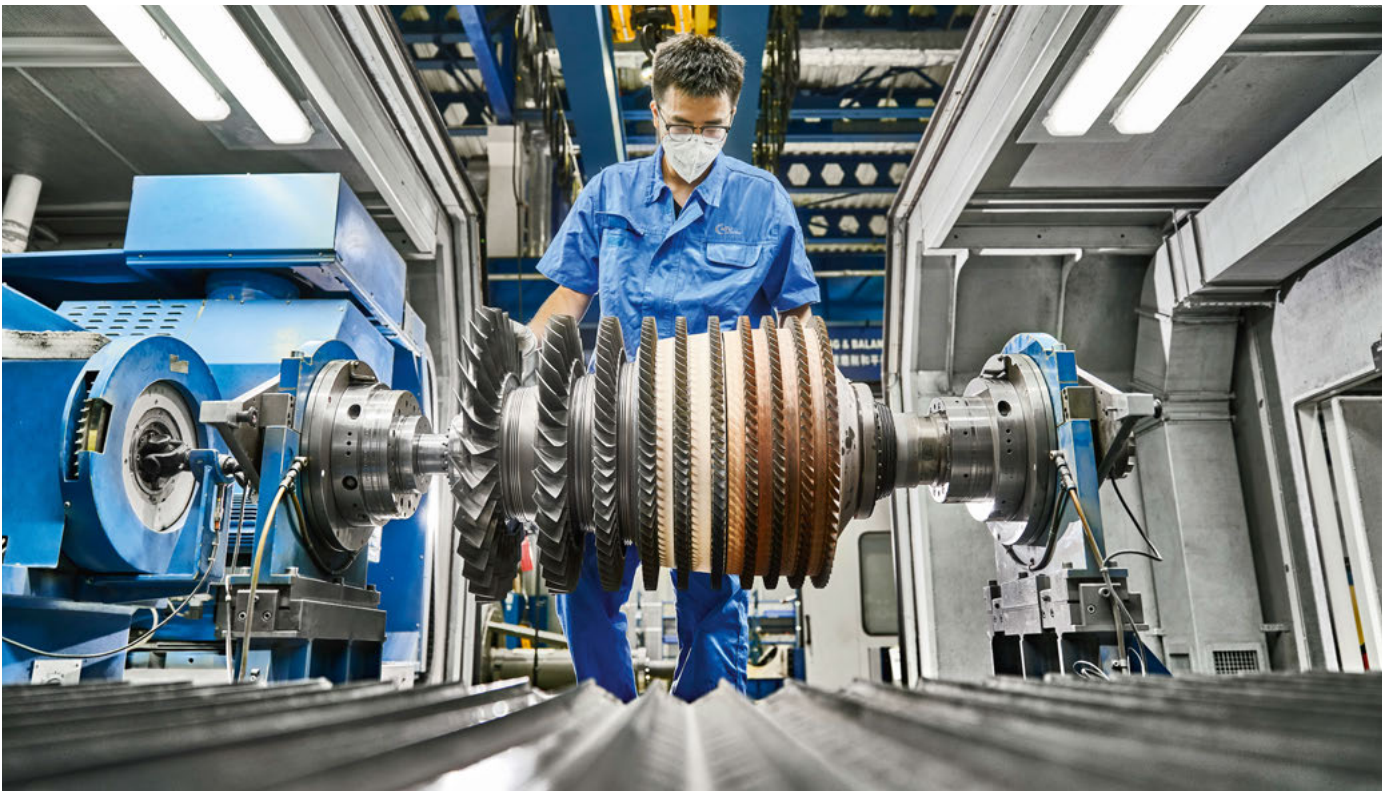
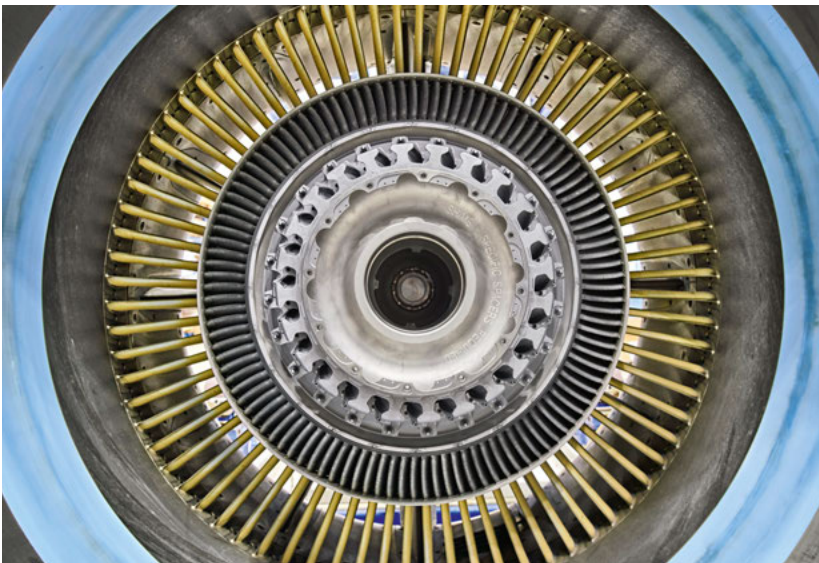
We are engine experts

The number one

Founded in 2001, MTU Maintenance Zhuhai is a glowing success story. Since operations began, we have grown the company to become the number one engine MRO and largest engine shop in China. And we are the number one in the Asian region for narrowbody engine shop visits.

But the success story doesn't stop there. We are expanding the facility for the second time: taking capacity from 300 shop visits per year currently, to 450 a year in 2021.

There is some serious weight backing us: we are a 50/50 joint venture between MTU Aero Engines AG and China Southern Airlines. China Southern is the largest airline group in Asia, and MTU is a world-class technology leader in the aviation industry. If that isn't impressive enough, we are part of the MTU Maintenance network, the largest independent engine MRO provider and global leader in customized solutions. In fact, over a third of shop visits at MTU Maintenance Zhuhai are on behalf of customers from outside 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 70 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 product offering.

How we do it

MTU Maintenance Zhuhai offer customers a comprehensive range of repair capabilities within the MTU Maintenance network – be it for engine overhaul or teardown, 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, 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

Furthermore, MTU Maintenance Zhuhai's test cell is one of the largest and most advanced in the world. It measures 100 meters long, 13 by 13 meters in cross-section and has intake and exhaust ducts 30 meters high. It could accommodate all commercial engine types up to a thrust of 150,000 pounds and is capable of testing 500 engines annually.

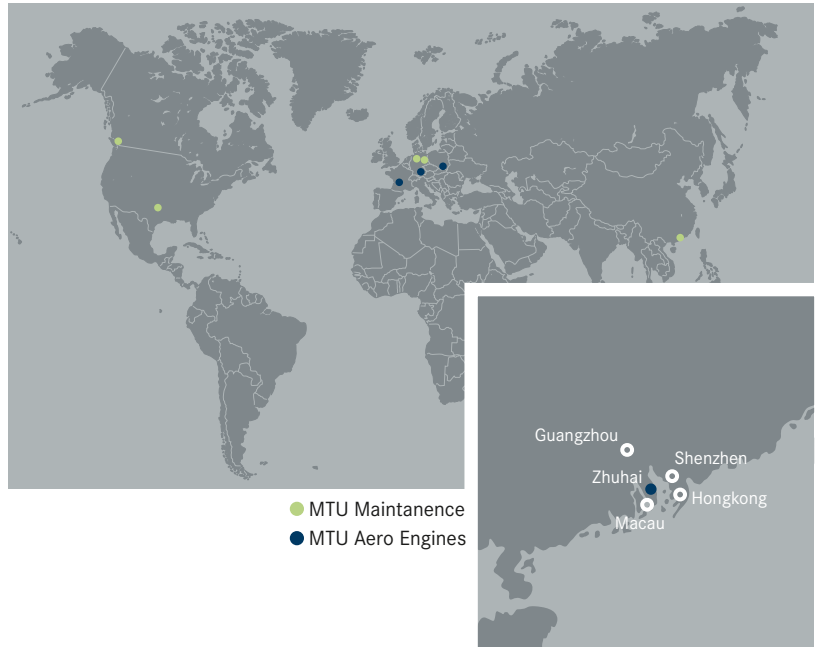
Our engine portfolio:

- V2500
- CFM56-3
- CFM56-5B
- CFM56-7, including -7BE



Where we are

Our facility covers a land area of 156,000 square meters, is located in Zhuhai's free trade zone and benefits from its proximity to Hong Kong, Guangzhou, Shenzhen and Macao. Our service teams can be dispatched to 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 around 910 qualified professionals¹. 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 and keep at the top of our game, 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).

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

¹ As of year end 2018





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