



we keep *you* flying



MILITARY TURBINE ENGINES



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TAE is Australia's leading military turbine engine MRO operation, fully supported by a comprehensive engineering, repair and manufacturing capability that is second to none in the Australasian region.

Turbine engine MRO

TAE's turbine engine MRO operation provides complete overhaul and test capability for fast jet gas turbine engines, including pre-balancing equipment, bearing room facility, computer controlled engine test capability and extensive experience in knowledge-based fleet planning tools.

Supporting the turbine engine MRO operations, TAE has the unique ability to provide repair design solutions and reliability programs for turbine engine systems.

Our skilled engineering team uses innovative repair design techniques and methodologies to recover damaged components, combined with our knowledge of Finite Element Analysis (FEA) and materials testing to ensure the safety of all repairs.

Engine fatigue life management

TAE's engine fatigue life management experience also allows us to prepare robust engine lifing assessments to support both operators and maintainers.

Complementing the repair design capability, TAE has a mature reliability, availability and maintainability (RAM) program based on condition monitored maintenance principles that have been proven in service to significantly improve maintenance and performance outcomes.

Spectrometric oil analysis

TAE offers spectrometric oil analysis testing, wear debris analysis, remote visual inspections, materials testing and comprehensive vibration analysis and data logging. This capability directly assists with the complete health monitoring of gas-turbine engines.

Optimised fleet management

With extensive experience in knowledge-based fleet planning tools, TAE can optimise engine fleet availability and maintenance schedules.

Certified repairs

TAE also provides a wide range of in-house certified repairs to military, commercial and OEM standards. These include robotic controlled shot-peening and plasma coatings as well as heat treatment, vacuum brazing, TIG welding of aircraft parts and spot and gas welding for surface refurbishment.

Total logistics support

TAE and its partners are the total logistics support manager for the Royal Australian Air Force's (RAAF's) fleet of GE F404 engines, fitted to its F/A-18A/B Hornet aircraft, as well as the GE F414 engine, fitted to the RAAF's F/A-18F Super Hornet – demonstrating our proven capability in turbine engine MRO.

The TAE Group offers the broadest range of services in the aviation industry with a strong emphasis on responsive service, on-time delivery, product reliability and outstanding value.



TAE

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