We are Australia’s aerospace company.
our FOCUS

QUALITY, SAFETY AND SERVICE

TAE Aerospace is an Australian-owned and headquartered company with a global focus. We deliver quality aerospace products and services to Defence and Commercial customers around the world.

Our dedication to quality and safety sees us maintain a broad suite of regulatory approvals, strong partnerships with multiple OEMs, and a technical workforce at the top of its game.

Our commitment to keeping you flying drives our 24/7 response times, efficient parts supply and customer service levels that set the industry standard.

Whether local or global, we aim to surpass the expectations of our Defence and Commercial customers every time we connect.

“I have been dealing with companies similar to TAE Aerospace for a long time. Never have I come across one that is as easy to deal with, and knows what they are doing, as much as the team at TAE Aerospace. I give them 10 out of 10 for service and understanding our needs.”

Dave Porter, Chief Engineer, Seair
TAE Aerospace commenced operation as a Defence contractor in Australia in the year 2000, having won a major F-111 aircraft maintenance contract for the Royal Australian Air Force (RAAF).

Successful execution of the first F-111 contract led to subsequent work on the F404/F414 engines of the Classic Hornet and Super Hornet. We have worked in partnership with GE Aviation on these engines since 2008.

In 2008–2009, we expanded into the commercial aviation industry with the purchase of Masling Industries, a Honeywell Authorised Warranty and Repair Station (AWARS) and Tenix Aviation, a Honeywell Authorised Service Centre for TPE331 engines. The following year, we acquired NAS Services, part of Cobham, further expanding our engine components and APU capabilities. Along with our large aircraft wheels, tyres and brakes facility in Brisbane, we now offer Australia’s broadest range of engine and component services to the commercial aviation market.

In 2014, we moved further into the Defence space, crossing over into land platforms to service the AGT1500 engines of the Australian Army’s Abrams tanks. Then in 2017, we were selected as Asia-Pacific’s MRO&U provider for the Pratt & Whitney F135 engine of the F-35 Joint Strike Fighter. Today we also manufacture parts for the global F-35 program and the demand for our advanced manufacturing capability continues to grow rapidly.

In 2018, we entered the Fire Protection and Rescue market for Defence and Commercial customers, acquiring the assets of Kidde Aerospace Australia from United Technologies Aerospace Systems. Then in 2019, our expansion continued in the United States. We established a repair centre for AGT1500 engine fuel controls in Texas and acquired two US companies, one in Kansas City, Missouri and one in Phoenix, Arizona. These acquisitions allow us to significantly expand our TPE331 engine and fuel control MRO services for Defence and Commercial operators, while increasing our global footprint to ensure we are accessible to our customers worldwide.

“We rate TAE Aerospace very highly for technical excellence.”

Paul Bayly, F404/F414 Program Manager, GE Aviation
From 6 employees to 320, our sustained growth is the result of both organic expansion and targeted acquisition.
Our customers include the militaries in Asia-Pacific, airlines, commuters, general aviation and agricultural operators around the world.

We are proud to have earned a reputation for quality and technical excellence among the biggest names in the industry.

Commercial airlines such as Qantas, global aerospace companies like General Electric, Pratt & Whitney, Honeywell, Harris Corporation and Boeing, and military forces such as the Royal Australian Air Force, the Australian Army, the Royal Malaysian Air Force and Royal Thai Navy, choose to send their work to us.

Our customers rely on us for a wide range of services including gas turbine engine and component MRO, specialised engineering and logistics, engine test facilities, advanced aerospace manufacturing, aircraft wheel and brake MRO, and fire protection and rescue.

We are committed to supporting our customers 24/7 with technical expertise and outstanding after-sales support.

“TAE Aerospace has set the standard for customer service, efficiency of parts supply and AOG support, constantly going above and beyond to surpass our expectations. Their knowledge, experience and expertise is second-to-none and they deliver a result on every occasion.”

Ryan Roche, General Manager Fixed-Wing Aircraft (Aus), Experience Co (formerly Skydive the Beach)
Our regulatory approvals support the quality and safety of the product we deliver.

- ISO9001:2015
- AS9100D for Aerospace Manufacturing and Aerospace Engineering
- DASR Part 145 and Part 21
- CASA Part 145
- FAA Part 145
- EASA Part 145
- Approved Maintenance Organisation approvals from CAA (Sri Lanka), DGCA (Indonesia), CAAN (Nepal) and CAA (Taiwan)
DEFENCE
our SERVICES

We provide the following quality services to global Defence markets:

- Aerospace engine MRO
- Military wheel and brake MRO
- Aerospace engine test cell design and upgrade
- Specialised engineering
- Advanced manufacturing
- Fire protection and rescue systems

The quality of our work and our commitment to excellent service has resulted in many awards over the past decade, including the prestigious Defence Contractor of the Year, and the Essington Lewis Award for the Land 907-1 Tank Replacement Project with the Australian Army.

“We are excited to partner with TAE Aerospace on the F135 engine program. We have always been very impressed by their engineering and maintenance capabilities.”

Kevin Kirkpatrick, Vice President Military Engine Sustainment Operations, Pratt & Whitney
TAE Aerospace was Australia’s first provider of military gas-turbine engine performance-based Total Logistics Support (TLS).
AEROSPACE ENGINE MRO

As a leading provider of engine services to Asia-Pacific’s Defence forces, we understand the military operating environment and the needs of our Defence customers.

Militaries including The Royal Australian Air Force, the Australian Army, the Royal Malaysian Air Force and the Royal Thai Navy all trust the quality of our aerospace engine services.

We offer a complete repair, overhaul and test capability for military gas-turbine engines including:

- GE F404/F414 engines of the RAAF’s Classic Hornet, Super Hornet and Growler
- Honeywell AGT1500 engines of the Australian Army’s Abrams Main Battle Tank
- Pratt & Whitney F135 engines of the F-35 Joint Strike Fighter

Our turn-key engine solutions comprise:

- engine module heavy maintenance, repair and overhaul services (DASR Part 145)
- intermediate maintenance and computer controlled engine testing at the customer’s base
- engine fleet management and engine life optimisation
- design engineering (DASR Part 21.J)
- training
- material recovery and repair
- warehousing and logistics services
- program management for the AGT1500

Through a combination of strong OEM alignment, world-class engineering, asset management, and quality engine build philosophies, we have been able to significantly improve aircraft safety by reducing the Non Recoverable In Flight Shut Down Rate (NRIFSD) and Mission Aborts (MA) for engines we service.

By using data to drive continuous improvement, our engine solutions have led to higher reliability outcomes, faster repair turn times and a reduction in our customer’s fleet sustainment costs.
We have delivered turn-key engine solutions for the Abrams Main Battle Tank since 2014.
ENGINE COMPONENT REPAIR
We can repair almost any part we need, either in-house or using qualified repair vendors.

Our capability includes:
• bearing refurbishment
• approved cleaning processes
• Non-Destructive Testing (NDT) and inspection

• automated shot-peening
• heat treatment
• aerospace welding
• precision machining and grinding
• vacuum brazing
• painting
• support equipment design and manufacture
MILITARY WHEEL AND BRAKE MRO

We understand the importance of wheels and brakes to Defence operations, and we have many years of experience in delivering wheel and brake maintenance services to the highest quality standards.

TAE Aerospace’s DASR Part 145 approved repair and overhaul capability for military aircraft wheels and brakes maintenance includes:
• KC30A Multi-role Tanker Transport
• C-27J Spartan Aircraft
• C-130J Hercules

Our modern workshop in Brisbane has been purpose-designed for aircraft wheel and brake maintenance, ensuring full compliance with OEM and customer expectations including full end-to-end process capability in-house for:
• automatic cleaning
• brake hydraulic testing
• eddy current, fluorescent penetrant and ultrasonic NDT inspections
• repainting
• anti-corrosion coating replacement
AEROSPACE ENGINE TEST CELLS

Our team is experienced in all aspects of military turbine engine test cell design and associated data acquisition systems. We can adapt and upgrade your existing facility for new or multi-OEM engine types, or develop a new turn-key facility and provide ongoing in-service support.

The best test cell design starts with understanding our customer’s needs.

As Australasia’s leading gas turbine MRO, we know the importance of a reliable test cell. Our team has designed and installed multiple test cells globally including Asia-Pacific’s only dual redundant F404/F414 afterburning gas turbine engine test cell.

Our experience gives us a strong appreciation of the issues that matter to Defence operators. We will work with you to resolve problems with efficient designs, collaborative installations and upgrades and prepare precise documentation on how to operate and maintain your new facility.

Together with our industry partners, we provide our Defence customers with quality test facilities and data acquisition systems that support all types of military gas turbine engine testing, including turbofan and turboshaft engines.
We are industry leaders in designing, upgrading, manufacturing and integrating turbine engine test cell solutions.
Our team includes Australia’s largest and most experienced propulsion engineering group.
SPECIALISED ENGINEERING

Our team consistently receives high assessments for technical and engineering competence in Australian Defence Company Scorecard results and can deliver remarkable engineering solutions for Defence.

PERFORMANCE & RELIABILITY PROGRAMS

Fundamental to supporting any in-service engine is understanding how it is behaving using real data. We use specialists to collect in-service engine data, then analyse and compare it against our performance models. We combine images and measurements collected during routine inspection with the wide range of part-usage and condition data we collect, and feed the information into our engine fleet reliability program.

Our analysis will automatically flag any potential issues to our customer, so we can take corrective action before a failure occurs. The result is reduced maintenance downtime and associated costs for our customer.

DESIGN & SAFETY

The data we collect allows us to see potential issues in their infancy. This allows us to develop solutions that provide customers with improved safety, availability and reliability of their engines, while reducing the total life cycle cost. Using our many years of engine experience and knowledge, coupled with Computer Aided Design and Finite Element Analysis, we can develop a range of design solutions to component inspection limits, maintenance policy, or repairs to damaged or worn parts.

All designs are validated against the same safety standards to which the engine was certified, ensuring they remain airworthy or roadworthy. Our Design and Safety team also use advanced statistical techniques and in-service data to provide part failure forecasts. These forecasts, in combination with the application of design solutions, let us quantify and mitigate any issues that might arise with an engine.

ENGINE & EQUIPMENT ASSET MANAGEMENT

Engine components and test equipment are managed by a skilled team who ensures the configuration of all engine components and associated support equipment are accurately controlled, and maintenance policies appropriately applied. Engines are built by matching a variety of sub-assemblies in order to optimise their time in operation.
ALUMINIUM VACUUM BRAZING

We have developed a niche aerospace manufacturing capability in Australia that supports the manufacture of liquid-cooled components and enclosures for the global F-35 program.

Our core manufacturing process uses the Aluminium Vacuum Brazing (AVB) technique, and we are one of only several companies in the world to provide this capability. Beyond aviation, AVB can be used in many space-based and terrestrial applications that require increased cooling in restricted spaces.

AVB is a manufacturing process for fusing aluminium components together, which results in:

• high strength products that can operate at higher pressures and deliver leak–tight joints enabling integral liquid flow and electromagnetic interference reduction
• improved heat transfer and product stiffness as micro channel fin stock can be included during the braze
• reduced weight when compared to traditionally manufactured components
• lower component costs through reduced part counts and assembly labour
• excellent electrical and thermal conductivity compared with an adhesive bonded or mechanically attached assembly
• improved product reliability
• greater design choice, especially for high performance products

We currently provide a number of Defence primes with:

• cooled electronic/avionics enclosures including liquid-cooled chassis
• cold plates
• heat exchangers

From raw materials to fully completed components, our customers benefit from a complete, end-to-end solution. This includes not only the brazing process but also the associated steps such as precision machining, heat treatment, conversion coating, painting, component assembly and any required proof pressure testing and/or flow testing. The entire process can be completed in-house to customer-specific requirements.
“I am impressed by the excellent quality product and commitment to the program that TAE Aerospace delivers.”

Josh Nichols, Program Manager, F-35 Supply Chain, Harris Corporation
**AEROSPACE MANUFACTURING**

Other specialist aerospace manufacturing capabilities we offer under our AS9100 Rev D approval include:

- computer controlled automatic shot peening
- heat treatment including titanium heat treatment
- component painting
- Non-Destructive Testing (NDT)
- extensive aerospace welding capability including high strength super alloys and titanium components

Our advanced manufacturing activities are supported by a dedicated project management and engineering team to ensure the product we deliver meets the highest quality standards.

In addition to manufacturing, we also have the capability to assist in the design and prototyping of components using this process.
DEFENCE FIRE PROTECTION AND RESCUE

We are the Collins Aerospace authorised representative for Kidde Aerospace fire protection equipment and a range of other Collins Aerospace OEM products in Australia, New Zealand and much of Asia. We provide sales, product support and maintenance, and repair and overhaul (MRO) services for Kidde fire protection equipment and suppression systems.

Our experienced team in Melbourne supports a range of Defence aerospace platforms and military ground vehicles including:

- C-130J Hercules
- C-17A Globemaster
- C-27J Spartan
- KC-30A MRTT
- F/A-18F Super Hornet
- EA-18G Growler
- E-7A Wedgetail
- P-8A Poseidon
- M1 Abrams
- Bushmaster
- HAWKEI
- M88 Hercules
- ASLAV
- NZLAV
- Boxer

We are also the Regional Service Centre for Winslow life rafts, providing Defence customers with MRO, sales and product support for aviation and maritime rafts.
COMMERCIAL
We provide the following quality services to global aviation markets:

- Turboprop engine MRO and test cells
- Airline wheel and brake MRO
- Fuel controls and components
- Avionics component MRO
- Parts supply and sales
- Fire protection and rescue systems

We understand the commercial aviation market and our customers’ need for fast turn times and responsive technical support 24/7.

“Thrush Aircraft and Australian Ag operators hold TAE Aerospace in high regard for the high quality and timely work they perform.”

Eric Rojek, Vice President, Thrush Aircraft Inc
COMMERCIAL ENGINE MRO

As Australia’s largest engine maintainer, we have the knowledge, tooling, resources, parts inventory, spare engine rental pool, rotatable pools and asset base to turn your engine around quickly while maintaining high quality standards.

We offer a complete repair, overhaul and test capability for turboprop engines including:
- Honeywell TPE331
- Pratt & Whitney PT6A
- GE H80/M601

We are a CASA, FAA and EASA Part 145 approved repair station and we hold key OEM approvals as a Honeywell Authorised Service Centre for the TPE331 engine and a GE Aviation Designated Repair Centre for the H80/M601 engine.

Our range of engine services and support includes:
- engine repair and overhaul for TPE331 worldwide, with facilities in Adelaide, Australia and Phoenix, USA
- PT6A and H80/M601 MRO
- CAM inspections (TPE331 only)
- hot section inspections
- gearbox inspections
- AGB repairs
- power section repairs
- boroscope inspections
- exhaust duct replacement
- engine performance runs in dynamometer test cell
- service bulletin and airworthiness directive compliance
- field service repairs
- 24 hour customer help line
- engine trouble shooting
- exchange line replaceable units including fuel nozzles
- part sales for PT6A and TPE331 engines
To complement our engine maintenance activity, we have the region’s largest engine rental pool of TPE331 and PT6A engines available to support your operations.

AUXILIARY POWER UNITS (APUs)
We are Asia-Pacific’s only OEM Authorised Repair Facility (ARF) for the Pratt & Whitney (formerly Hamilton Sundstrand) APS500 APUs fitted to Dash 8, as well as the APS1000 fitted to the Fokker 50 and BAE146 aircraft.

“In our business we can’t afford to sit on the ground. TAE Aerospace has taken the time to understand the Ag business and what is important to us. We choose to work with TAE Aerospace because of the excellent relationship, service and turn times.”

Campbell Briggs, Owner, Statewide Aviation
We operate Australia’s only OEM correlated, multi-engine dynamometer equipped test cell with a load rating of up to 2,500 SHP, ensuring the reliable performance of each engine we service.
We understand the importance of wheels and brakes to commercial aircraft operation and offer fixed-priced solutions for specific wheel and brake types, ranging from a simple tyre change to full component overhaul. For larger fleet holders, we can also offer cost-per-aircraft-landing solutions for your wheels and brakes.

Our CASA Part 145 approved repair and overhaul capability for commercial aircraft wheel and brake maintenance includes:

**WIDE BODY**
- A330
- A380

**NARROW BODY & LIGHT**
- Dash 8 1/2/3/400
- B737
- ATR-72

Our modern workshop in Brisbane has been purpose-designed for aircraft wheels and brakes maintenance, ensuring full compliance with OEM and customer expectations including full end-to-end process capability in-house for:

- automatic cleaning
- brake hydraulic testing
- eddy current, fluorescent penetrant and ultrasonic NDT inspections
- repainting
- anti-corrosion coating replacement
FUEL CONTROLS AND COMPONENTS

Operating in Adelaide, Australia and Kansas City, Missouri, we offer a wide range of MRO services for fuel controls and governors with a reputation for world-class turn times, quality and customer service.

We operate the only Licensed Repair Services Facility in the world for Honeywell and Woodward fuel controls.

HONEYWELL AUTHORISED WARRANTY & REPAIR STATION (AWARS)

Fuel Control Units and Power Turbine Governors are the mainstay of the fuel system components we maintain. We support hundreds of fixed and rotary-wing customers around the world with:

- Honeywell LTS101 components from the 600 HP to 850HP
- Pratt & Whitney PT6A series from -11 to -62 and all the T3 and T6 series
- Torque controls and limiters
- Rolls Royce M250 series I to IV, B15 to C30

WOODWARD CERTIFIED COMPONENTS

We are the only facility in the world authorised to carry out repairs and overhauls on the Honeywell TPE331 Main Fuel Control. We are also a Licensed Repair Services Facility for fuel controls for the Pratt and Whitney PT6A-52 to 60 and PT6A-64 to 67 engine series.

In addition, we support overspeed, combined and propeller governors as well as hydraulic governors for both the TPE331 and PT6A engine series.

“The TAE Aerospace team understand what we need and how we work, and they help us solve problems to keep our customers happy.”

Campbell Briggs, Owner, Statewide Aviation
We are the only company in the world with approvals for both Honeywell and Woodward fuel control MRO.
We operate leading engine component maintenance facilities for fixed and rotary wing aircraft in Australia and the US.
ENGINE COMPONENT MAINTENANCE

Our leading engine component maintenance facilities operate from Adelaide in Australia, and Phoenix, Arizona in the United States. As a Honeywell Authorised Warranty and Repair Station (AWARS) and Woodward Licensed Repair Services Facility (LRSF), with CASA, FAA and EASA Part 145 approval, our engine component repair facility is unique in the world with a broad capability that includes:

- turboprop and turboshaft fuel control units approved for Honeywell (TPE331 and LTS101), Pratt & Whitney Canada (PT6A, PT6T) and Rolls-Royce (M250)
- propeller governors
- power turbine governors
- constant speed units and overspeed governors
- torque limiters and torque control
- EEC and SRL computers
- Non-Destructive Testing

We can also exchange:

- fuel pumps
- flow divider valves
- start flow controls

FUEL NOZZLES

We are a CASA, EASA and FAA approved turbine fuel nozzle maintenance facility with capability for the Honeywell TPE331, Pratt & Whitney Canada PT6A and PT6T, as well as APU fuel nozzles.

STARTER GENERATORS

Customers throughout Asia-Pacific rely on us for OEM-backed maintenance, repair and overhaul of their starter generators. Due to our renowned quality and experience, our customers benefit from lower cost per overhaul and more flight time between scheduled services. We also offer outstanding after-sales support.

Our experienced team supports starter generators in the 200/250/300 AMP range for engines including TPE331, PT6A, PW100, CT7, JT15D, and DHC8, with new capabilities being added regularly.
AVIONICS COMPONENT MRO

Our maintenance, repair and overhaul services for avionics components include repairs to card and board level.

We are CASA approved for avionics services as well as an FAA-certified repair station for Single Red Line (SRL) computers for a range of aircraft.

With multiple OEM partnerships, experienced technicians and advanced facilities, we offer repair and overhaul capability for:

- air data computers
- autopilot systems
- caution and warning systems
- compass systems
- electronic indicators
- fuel quantity
- gyroscopic instruments
- indicators
- pitot-static systems
- stall warning systems

RADIO

- analog and digital audio systems
- emergency locator systems
- handsets
- navigation systems ILS and VOR
- radio altimeters
- satellite navigation systems – GPS
- transponder and DME
- VHF, UHF and HF communications
- weather radars

ELECTRICAL

- alternators and generators
- electric motors, actuators and pumps
- electric power control and distribution
- emergency power supplies
- galley equipment
- generator control units – GCU
- lead acid batteries
- lighting systems
- magnetos
- nicad batteries
- power supplies and inverters
- starter generators
COMMERCIAL FIRE PROTECTION AND RESCUE

Based in Melbourne, our experienced fire protection and rescue team supports a wide range of commercial aviation customers including Australia’s major airlines.

TAE Aerospace is the Collins Aerospace authorised representative for Kidde Aerospace fire protection equipment and a range of other Collins Aerospace OEM products in Australia, New Zealand and much of Asia. We provide sales, product support and maintenance, repair and overhaul (MRO) services for Kidde fire protection equipment and suppression systems.

Our Kidde fire protection and suppression systems support the following aircraft types:

- A320
- A330
- B717
- B737
- B777
- B787
- Q400
- Saab 340

In addition to fire protection products for commercial aircraft, we are also the Regional Service Centre for Winslow life rafts, providing MRO, sales and product support for aviation and maritime rafts.

Winslow life rafts are fitted with Emergency Locator Transmitters (ELT) which automatically activate when the raft is in contact with water after opening.
### AUSTRALIA

#### QUEENSLAND
**AMBERLEY (Head Office)**
Hangar 71, Aviation Street
PO Box 133
RAAF Base
Amberley QLD 4306
**BRISBANE**
(Wheels & Brakes)
Building 1
50 Raubers Road
Banyo QLD 4014
**P** +61 (07) 3282 9911  
**F** +61 (07) 3282 9955  
**E** sales@taeaerospace.com

#### NEW SOUTH WALES
**WILLIAMTOWN**
Building 134
RAAF Base
Williamtown NSW 2314
PO Box 225
Medowie NSW 2318
**P** +61 (02) 4034 6302  
**F** +61 (02) 4034 6313  
**E** sales@taeaerospace.com

#### SOUTH AUSTRALIA
**ADELAIDE (BGA)**
2 Kel Barclay Avenue
Export Park
Adelaide Airport SA 5950
PO Box 185
Adelaide Airport SA 5950
**P** +61 (08) 8150 0200  
**F** +61 (08) 8150 0270  
**E** sales@taeaerospace.com

#### VICTORIA
**MELBOURNE (Fire Protection)**
Unit 2
13–14 National Drive
Hallam VIC 3803
**P** +61 (03) 9709 3601  
**F** +61 (03) 9709 3606  
**E** sales@taeaerospace.com

### NORTH AMERICA

#### MISSOURI
**KANSAS CITY (Fuel Controls)**
**P** +1 (816) 891 9093  
**F** +1 (816) 891 8594  
**E** cheryl.hawkins@taeaerospace.com

#### ARIZONA
**PHOENIX (TPE331 Engines, Components and Repairs)**
7879 E Beck Ln
Scottsdale AZ 85260
**P** +1 (480) 500 6677  
**F** +1 (480) 401 2030  
**E** sales@taeaerospace.com