

# TURBINEAERO

TurbineAero Engines Technics



## Component MRO Services

TurbineAero offers the following component repair and manufacturing to support APU customers across the world. TurbineAero's FAA approved facility specializing in repair development and production of Aerospace, Light Industrial, and Aero-derivative gas turbine component repairs. In addition, TurbineAero can build to print as required by the customer to manufacture high precision components such as; rotating, compressor, and hot section components and complex geometry machined components. With these advanced services and capabilities to offer repair, exchange, or new parts, TurbineAero is one of the leading APU aftermarket component companies in the world.

### Component Repair

FAA approved facility specializing in repair, development and production of Aerospace, Industrial Gas Turbine, and Aero-derivative gas turbine component repairs.



### Component Manufacture

Build to print manufacture of high precision components such as; rotating, compressor, and hot section components and complex geometry machined components (Component Manufacture Driven by OEM Demand)



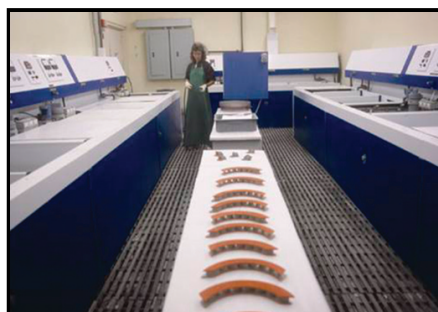
### Thermal Coatings

- Coating
  - Pack Aluminide / Platinum-Aluminide
  - Vapor Aluminide Coating
    - Internal & External
  - Al-Silicon slurry coating (similar to Serm J)
- Electroplating
  - Platinum
- Chemical coating removal
  - Internal stripping
  - External stripping



### Special Processes

- Floride Ion Cleaning (FIC)
- Thermal Spray
- Vacuum Furnace
- Brazing
- Electron Beam (EB) Welding



### MANUFACTURER ENGINE

GE Aviation	GE90
Allison	T56
Ethos	250-C20
Ethos	250-C30
Allison	501-T56
Honeywell	ALF502
Honeywell	LF507
Honeywell	LTP101
Honeywell	LTS101
Honeywell	T-53
Honeywell	T-55
Honeywell	TFE731
Honeywell	TPE331
Honeywell	ATS100
Honeywell	GTCP131
Honeywell	GTCP30
Honeywell	GTCP85
Honeywell	GTCP331
Honeywell	GTCP660
Honeywell	TSCP700
Honeywell	ATS-101
Pratt & Whitney	PT6
Pratt & Whitney	PW4000
Pratt & Whitney	PW901
Pratt & Whitney	JFD12
Pratt & Whitney	APS3200
Pratt & Whitney	APS2300
Pratt & Whitney	APS5000
Pratt & Whitney	126XXX
Pratt & Whitney	3211942
Pratt & Whitney	3289630
Pratt & Whitney	384022
Pratt & Whitney	898626
Pratt & Whitney	978710
Pratt & Whitney	979078
Pratt & Whitney	719XXX
Pratt & Whitney	733XXX
Pratt & Whitney	739064
Pratt & Whitney	740900
Pratt & Whitney	763569
Pratt & Whitney	774469
Pratt & Whitney	782790
Pratt & Whitney	784750
Pratt & Whitney	785720
GE Aviation	Leap
GE Aviation	Passport
Honda	HF120
Vericor	TF Series
Solar	Energy Centaur
Solar	Mars
Solar	Taurus
Pratt & Whitney	JT3D
Pratt & Whitney	JT12/JTFD12
Pratt & Whitney	JT8D
Pratt & Whitney	JT15D
Pratt & Whitney	ST6

[www.turbineaero.com](http://www.turbineaero.com)

# TURBINEAERO



## Component MRO Services



### Why choose TurbineAero?

2015, 2016, 2017  
The145.com APU MRO  
Top Shop

Serviced more than  
10,000 APU

Serviced more than  
200,000 APU Accessories

Over 35 Years of Global  
APU MRO Services

TurbineAero has DERs  
on staff

TurbineAero's mean time  
between shop visit is  
greater than the original  
equipment  
manufacturers reported  
fleet times

Development of customized  
APU maintenance programs  
designed to lower operating  
costs and maximize  
on-wing reliability

APU line maintenance  
training at the TurbineAero  
facility

98% Customer Retention

### History

TurbineAero was originally founded in 1977 then known as Tiernay Manufacturing.

Tiernay added repair and overhaul capabilities in 1978, which began the R&O service life of today's organization.

The first service work came from overhauling environmental control units for Cobra Helicopters for the US Army. The first APU was a Solar Titian Model T62-T39. Subsequently, the GTCP85 model as added which propelled the Company's growth in both the commercial and military market segments.

In the early 1980's the name was changed to Tiernay Turbines with the development of Tiernay's TT10 APU which also sold to the US military. In 1988, Alco Standard purchased the overhaul portion of the business and re-named it Triumph Air Repair. Then in 1993, Alco sold the R&O division to Triumph Group.

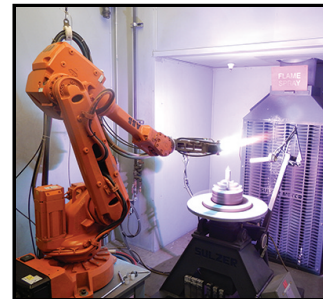
In 1996, Triumph Engines - Tempe joined the Triumph Group and began a campaign of major capabilities expansion including highly engineered component repairs, advanced thermal coatings, and low pressure plasma spray technologies.

### About

TurbineAero is the world's leading independent aerospace component maintenance, repair, and overhaul service providers focused on APUs and related products. The businesses provide military, commercial, and regional airline customers with a comprehensive maintenance solution for their legacy and new APU engine models. The combined entity provides global coverage from two modern facilities located in Chandler, Arizona, and Chonburi, Thailand. In addition, it is a provider of hot-section component manufacturing and repair services for original equipment manufacturers, aircraft operators, and repair and overhaul providers, offering extensive and unique capabilities, including complex machining, engineering, inspection, non-destructive testing, and thermal coatings in its Tempe, Arizona facility.

### Services

TurbineAero's world class engineering and services capabilities are designed to provide customers with customized solutions, tailored to each customer's unique needs. TurbineAero's operations, engineering and customer services teams strive to provide unique and agile custom solutions for operators of any size, regardless of their needs, with the most flexible pricing and packaging services options in the world.



### Certifications:

Regulatory Approvals  
Held: FAA, EASA, &  
CAAC Part 145

Certifications offered:  
FAA Form 8130-3 with /  
EASA Dual Release,  
CAAC Form AAC-038,  
&/OR Certificate of  
Conformance

Quality System  
Certifications: ISO9001 &  
AS9110

In house calibration  
services, compliant to  
MIL-STD-45662

On-Site NDT Level III  
Staff certificated under  
NAS 410

Industry leading FOD  
prevention and clean as  
you go practices

### Corporate Headquarters

TurbineAero, Inc.  
50 South 56th Street  
Chandler, AZ, 85226  
480-824-2700  
[www.turbineaero.com](http://www.turbineaero.com)

### Chandler TET Facility - Coatings

TurbineAero Engines Technics  
6520 W. Willis Road  
Chandler, AZ 85226 USA  
(TET - Chandler) • 480-449-5721

### Chandler TAR Facility

TurbineAero Repair - Chandler  
50 South 56th Street  
Chandler, AZ 85226 USA  
(TAR - Chandler) • 480-824-2700

### Chonburi Thailand Facility

TurbineAero Repair - Thailand  
700/160 Moo 1  
Chonburi, 20160 Thailand  
(TAR - Thailand) • +66 3 846 5070

### Tempe Facility

TurbineAero Engines Technics - Tempe  
2015 W. Alameda Drive  
Tempe, AZ 85282 USA  
(TET - Tempe) • 602-438-8760