

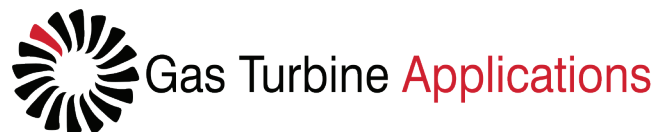


Trusted

Since 1984, a trusted **independent** service provider for Solar[®] gas turbines.

Centaur[®]

Saturn[®]



About Gas Turbine Applications

Founded in 1984 and based in Calera, OK, GTA is an independent service provider specializing in the Saturn® and Centaur® industrial gas turbines (Solar® Turbines products). GTA provides overhaul, repair and testing services for a longstanding customer base, primarily operating within the upstream and midstream sector.

This is all delivered from a 16,000 sq. ft. workshop which includes a Saturn® and Centaur® test facility as well as a fully equipped machine shop. The workshop has two overhead cranes (up to 7 T capability) and build stands for both the Saturn® and Centaur® engines. In addition, GTA has a 9,600 sq. ft. building that is being developed as a new test facility and storage area.

GTA provides competitively priced overhauls of Solar®, Saturn® and Centaur® products. Each turbine is disassembled, cleaned, inspected, repaired, balanced and assembled to the highest quality standards.

- Saturn® gas producers, power turbines and accessory drive
- Centaur® gas producers, power turbines and accessory drives

Compressor Overhauls

We perform gas compressor overhauls for all Solar® product models.

- C-160
- C-165
- C-167
- C-168
- C-284
- C-304
- C-304

Accessory and Component Repair

All package-related accessories can be repaired either in our shop or at one of our vendors.

- Accessory Drives
- Starters
- Governors
- Lube Oil Pump
- Control Monitors
- Actuators
- Gear Boxes

GTA has vast experience on the following engines, having accomplished in excess of 40 Centaur® and 50 Saturn® complete overhauls in the last 10 years.

Centaur® (HED) Complete Engine (GP, PT and AD)

T4002 / T4502 Complete Engine Exchange
T4702 Complete Engine Exchange

Centaur® (CED) Complete Engine

T4001 / T4501 Complete Engine Exchange
T4701 Complete Engine Exchange

Saturn® Split Shaft Complete Engine (GP, PT & AD)

T1102 Complete Engine Exchange (MKI / MKII Style)
T1202 Complete Engine Exchange (MKI / MKII Style)
T1302 Complete Engine Exchange (MKI / MKII Style)

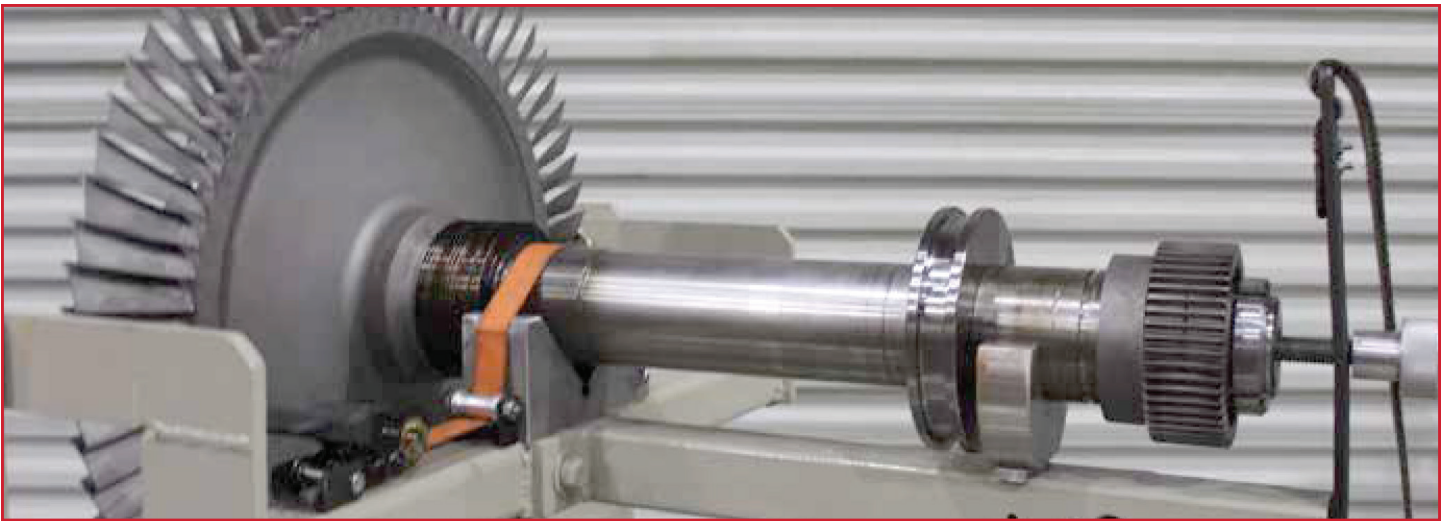
Saturn® 3 Wheel Complete Engine

T1201 Complete Engine Exchange (MKI / MKII Style)
T1301 Complete Engine Exchange (MKI / MKII Style)



Most overhaul and repair operations are performed in-house on our machines to high-quality standards.

- Lathe Work
- Mill Work
- Hell-Arc Welding
- Balancing
- Flow Benches
- Electronic Testing



Full Performance Testing

All overhauled turbines are full load tested in our modern test facilities. Complete performance test certificates are provided for each turbine. Testing can be done on the actual service fuel.

- Saturn® Sleeve Bearing 2-shaft
- Left-hand or right-hand rotation
- Saturn® Sleeve Bearing 1-shaft
- Natural Gas
- Centaur® 2-shaft hot-end drive
- Centaur® 1-shaft cold-end drive

Complete Package Refurbishment

GTA will completely refurbish your used equipment or locate equipment for refurbishment and resale.

All product improvements are incorporated into each refurbishment where possible and custom modifications to meet special applications can be added. Control modifications from the relay logic to programmable controller is an option. Field modification or retrofit of some product improvements is available and can be quoted upon request.

Spare Parts and Field Service

A complete inventory of service spare parts is available for shipment anywhere in the world 24 hours a day.

GTA will pick up and deliver major components with our own trucks to help you avoid down time delays. The service trucks are fully equipped with all necessary tools for service and test equipment for trouble calls. Our service personnel will do the work you request and assist your personnel with training, if desired.

Compressor Re-Staging/Reapplications

GTA is the leading global, independent service provider on completely engineered C16, C28 & C30 turbine packages.

Whether it's a new project, reapplication or you just need to re-optimize your changing gas pipeline, GTA can completely re-stage your C16, C28 & C30 compressors.

Services	Centaur® T4002 / T4502	Centaur® T4702	Centaur® T4001 / T4501	Centaur® T4701	Saturn® T1102	Saturn® T1202	Saturn® T1302	Saturn® T1201	Saturn® T1301	Saturn® T1601	Saturn® T1602	Saturn® 10 MK I	Saturn® 10 MK II
Long Term Service & Agreements (LTSA)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Overhaul & Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Global Customer Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Service	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GP & RGB Testing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Turbine Controls	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Component Repair	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GP, AGB & RGB Overhauls	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Modifications & Upgrades	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Package Life Extension	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rotor Balancing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Product Training	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-engineering & Relocation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Service Exchange GP & RGB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lease & Sales	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Site Audits	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spare Part Supply	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air Inlet Filtration Retrofit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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