THE NEXT GENERATION OF GAS TURBINE PARTS AND SERVICES
Genex Turbine Technologies uses state-of-the-art techniques to inspect and refurbish combustion, compressor and turbine section components manufactured by GE, Siemens, Alstom, Mitsubishi and others. Our Staff has considerable knowledge in the repair of heavy industrial gas turbine components and our global presence ensures a quick response to your individual needs.

Our repair process includes a thorough inspection and detailed condition assessment. Metallurgical testing is often employed on components that exhibit material fatigue or have been operated near to or beyond OEM recommendations. Customers find that our inspection fixtures and repair methods have been thoughtfully engineered. Our high-tech manufacturing business enables us to develop and manufacture intricate tooling with ease.

Our component repair recommendations and straightforward pricing is documented in our inspection reports. We are also able to recommend technical enhancements to your components.

Replacement capital parts are very expensive! Take full advantage of REJUVINEX™, our proprietary superalloy rejuvenation process used to extend the life of your hardware and mitigate the risk of mechanical alloy failures in turbine airfoils.
Repair Capabilities

Genex repairs fuel nozzles, combustion baskets, transition pieces, turbine blades and vanes, interstage seals, diaphragms, shroud blocks and ring segments.

We have extensive experience with the following industrial gas turbine models:

**General Electric:**
- Frame 5 / 6B - 6FA / 7B - 7FA / 9E - 9FA

**Siemens:**
- 251 B8 - 12 / 501 D - D5A / 501 F - FD3
- V64.3 / V84.2 / V94.2 / V94.3 - 3A2 / V94.3 - 3A2

**Mitsubishi:**
- 701D - DA

Upgrades / Uprates

Genex can assist owners and operators in the implementation of various enhancements to General Electric gas turbine models MS6001, MS7001 and MS9001. There are numerous modifications and upgrades (uprates) that can be made to improve the performance and output of your gas turbine. Such enhancements may involve a combination of changes with parts, control curve alterations, rotor modifications and the incorporation of advanced sealing techniques. Uprates are typically performed during a major inspection of the equipment in order to reduce overall cost and improve the return on investment.
REPLACEMENT CAPITAL PARTS

Utilizing our high-tech reverse engineering methods and manufacturing expertise, Genex has developed and manufactured numerous after-market capital parts for our customers. We continue to make significant advancements in this area and view these capital parts offerings to be the main growth driver of our company. We are able to bring a new part development project to completion very quickly and at a considerable cost savings to our clients.

Currently, Genex is offering the following after-market capital parts:

- Compressor Blades
- Compressor Stator Assemblies
- Inlet Guide Vanes
- Shroud Blocks
- Transitions
- Combustion Liners & Baskets

Genex parts are provided with full warranty. We are always interested in developing new capital parts projects with our customers. Give us a call to discuss your requirements!
Do you have service-run components in your warehouse waiting to be refurbished? If these parts are to be used in your next outage, it is best to prepare the parts well ahead of time. Consider that you may have some fallout due to material degradation but you will not know until the parts are inspected. We understand that major maintenance events can stretch an O&M budget.

Genex is offering longer-term repair project financing designed to levelize customer cash flow. We will inspect your parts, generate condition assessments, recommendations, replacement part lists and then extend long-term payment options to suit plant budgets and bring the expenses more in line with scheduled outages. At a minimum, the components can be inspected, assessed and then shelved for future repair, but do so with full knowledge of reparability with no surprises.

We can develop a customized payment plan to meet your needs. Qualified customers are able to mitigate the risk of an unplanned event. This is another example of how Genex is willing to go the extra mile for its customers.
Genex Turbine Technologies is a leading provider of spare parts for heavy and light industrial gas turbines. We use intricate reverse engineering methods to ensure the dimensional and material integrity of the products we manufacture. Our parts are reverse engineered from original equipment manufactured (OEM) components and are enhanced where necessary.

Not sure what to order to rebuild the unit after an inspection? If you don’t order enough, a single specialty fastener can cause significant delays to an outage. If you order too much you will be carrying the inventory for a long time. Some of these items are alloy steel and will rust and ruin between outages. Talk to Genex about our GENKIT™ program. We can create custom kits for your inspections and stage them just prior to the outage. You only pay for what you need and return the GENKIT™.

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**Replacement Consumable Parts**

**Supported Gas Turbine Models**

**General Electric:**
Frame 5 / 6B - 6FA / 7B - 7FA / 9E - 9FA

**Siemens:**
251 B8 - 12 / 501 D - D5A / 501 F - FD3

**Siemens:**
V64.3 / V84.2 / V94.2 / V84.3 - 3A2 / V94.3 - 3A2

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**Precision Parts For Demanding Industries**
Manufacturing / Product Line Card

Alignment Hardware
Balance Access Tubes
Balance Weights
Blade Installation Hardware
Bolts
Compressor Installation Hardware
Cross Fire Tubes / Collars / Retainers
Deflectors / Oil & Air Seals
Dowels
Flame Detectors
Gaskets
Honeycomb Seals
Keys
Lock Plates
Lock Wire
Lugs
Nuts
Marmon Clamps
Packing Rings
Pins
Plugs
Refurbished Capital Spares
Retainers
Screws
Seals & Rings
Shims
Spark Plugs / Ignitors
Studs
Thermocouples and Wire
Thermoswitches and Wells
Transition Hardware Kits
Transition Seals
Vane / Nozzle Assembly Hardware
Washers
Our capabilities in reverse engineering and inspection are wide-ranging. We utilize traditional methods for less complex projects, and for more complicated geometry, we use non-contact white light scanning technology. This technology is more accurate than laser scanning methods.

Genex can quickly develop 3-D models of components for prototype development, manufacture, in-process product verification and dimensional verification of repaired components. Often, the scanner enables us to accurately inspect production parts without the need to develop expensive, elaborate inspection fixtures. The scanner is often used to compliment the use of traditional inspection fixtures.

Coupled with our advanced software, white light scanning automatically produces visual inspection images and CMM type reports which are archived by serial number, where applicable. We are able to quickly and accurately develop new tooling for repair processes. Through the use of such technologies, Genex is surpassing its competition in areas of efficiency and quality control.
Why Genex?

Genex Turbine Technologies is an independent product and service provider offering engineering solutions, maintenance support and service to owners and operators of gas turbine equipment manufactured by major OEMs. Genex provides an unparalleled combination of responsiveness, dependability and quality to customers in the industrial and power generation markets worldwide.

Genex is a leading provider of component repair services and spare parts for heavy and light industrial gas turbines. We use intricate reverse engineering methods to ensure the dimensional and material integrity of the products we repair and manufacture. Our parts are reverse engineered from original equipment manufactured (OEM) components and are enhanced where necessary.

With Genex, you receive:

• Personalized customer service
• Faster response time
• Customized GenKit™ designed to meet your specific outage requirements
• Emergency service
• Global support
• Knowledgeable sales and manufacturing staff
• On-time delivery
• Quality control you can depend on
• Significant reduction in cost relative to the OEM
• Warranty coverage that meets or exceeds the OEM
• Innovative project financing
Genex Turbine Technologies provides plant O&M to owners and operators of industrial gas turbine (IGT) equipment around the world. Our staff has considerable knowledge in the operations and maintenance of IGT based power plants as well as the manufacture and repair of IGT stationary and rotating components.

Allow Genex to help your organization in the following areas:

**Outage Management**

Plant Owners and Operators realize the importance of proper outage planning and execution. That is why Genex has developed outage management guidelines and offers on site Outage Management services. Successful outage plans reduce or eliminate expediting fees, monitor changes to the defined scope of work and conform to pre-determined major maintenance budgets. We work directly with your staff to outline the outage scope then set out to develop your comprehensive outage plan, including detailed scope of work documents, parts planning, logistics, budgets and integrated outage schedules.

**Owner’s Engineer**

Genex can provide technical support to Owners and Operators during failure events, warranty claim analysis and insurance claim support. Our staff has considerable experience in this field.
**WHAT SETS GENEX APART?**

- Innovation
- Constant search for perfection and maximum efficiency
- Data collection and distribution
- Customer experience
- No compromise in integrity
- Complete transparency
- View our customers as partners

**PARTS LIFE CYCLE PLANNING**

IGT combustion and turbine components typically make up less than 10% of a Plant’s total inventory, but more than 80% of total inventory value. Tracking of the serialized parts requires time and diligence in order for Plant Owners and operators to truly understand the economic impact of hours or starts based operating profiles. Proper tracking of the serialized parts also affords Plant Owners and Operators the ability to budget ahead for capital parts replacement. Genex can assist in the tracking of your serialized parts and in the development of long-term capital spare parts procurement planning and budgets.

**PLANT MANAGEMENT**

Genex provides Plant Management support to plant Owners by offering transitional plant management services. Our staff is well versed in the operations, maintenance and administrative requirements of IGT power plants. We provide transitional plant management support during facility mergers, acquisitions or through a change of operating companies.

**LONG-TERM AGREEMENTS**

IGT owners and operators are quite familiar with Long-Term Agreements (LTA). The OEM’s have successfully marketed these agreements through a variety of tactics. Once executed however, the pitfalls of such an OEM LTA become clear. IGT user groups began to highlight these pitfalls years ago. Topics ranging from hidden costs, excluded items and the perception that the OEM will not support equipment without an LTA dominate the annual user group agendas. IGT owners and operators have become educated.

Genex recognizes the tactics employed by the OEM’s and we too have become educated to what is important to the end user. Genex offers highly competitive LTA programs covering component repairs and pre-staging of replacement parts. Our competitive rates are negotiated up-front and embedded in the agreement for the term. Concerned about fallout? Our replacement parts are itemized in the agreement with firm pricing. Need to manage cash flow? Combine an LTA program with our Project Finance options. This strategy affords you cash-flow flexibility while ensuring your parts will be ready after each outage in case of unplanned events. What about outage kits? Genex will work with you to determine exactly what is required for your specific outage needs, retain the requisite inventory and pre-stage the items prior to your next inspection. Don’t want to be locked into a contract? Genex offers termination for convenience contracts. At any time, you can cancel the LTA for any reason. No hidden agendas here. Contact a sales representative for more information.