

# Solar® Turbines

A Caterpillar Company

Worldwide Turbomachinery Support

## Turbotec Remanufacturing Facility

*Turbotec specializes in the manufacture and remanufacture of complex gas turbine components to OEM standards.*



With a 280,000 square foot facility located just three miles south of the U.S./Mexico border in Tijuana, Mexico, Turbotec remanufactures over 600,000 core and customer-owned parts annually. The company's 900 employees efficiently disassemble the components and assemblies brought in from Solar's Desoto, Texas overhaul plant and return them to "like-new" condition. From initial receipt to final delivery, every process at Turbotec is guided by an unwavering adherence to world-class quality and safety.

### Benefits

Turbotec provides component remanufacturing support for Solar's overhaul operations, that include:

- Certified quality and workmanship
- Full factory warranty on materials and labor
- Technical expertise in manufacturing, engineering and material planning

### Quality and Delivery Excellence Through CPS and 6 Sigma

Turbotec follows the guiding principles of the Caterpillar Production System (CPS). CPS is the way Caterpillar and Solar unite the Operating, Cultural, and Management systems to pursue Order-to-Delivery excellence and foster Continuous Improvement. The Operating system eliminates waste using 6 Sigma and 6 Sigma lean tools.

6 Sigma is a disciplined, data-driven approach and methodology for eliminating defects in any process - from manufacturing to transactional and from product to service. Turbotec follows the doctrines of 6 Sigma in every area of its operations including safety, quality, and delivery.

With CPS, operations are driven by customer demand, not by production capabilities. At Turbotec, CPS is about getting the right parts, to the right place, at the right time, in the right quantity while minimizing waste, enabling Solar to offer its customers real value and remain competitive.

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TURBOTEC REMANUFACTURING FACILITY

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By reducing inventory to building only what's needed, Turbotec has been able to free up floor space for greater production capacity in anticipation of future growth, thereby maintaining customer satisfaction.

### A Complete Line of Capabilities

Turbotec's thoroughly modern facilities house a full line of manufacturing capabilities to get the job done right, including:

- Vacuum heat treating
- Furnace brazing
- Aluminum coatings
- Painting
- Anodizing
- Nickel brush plating
- Welding
- Honeycomb installation
- Broaching
- Thermal spray
- Non-destructive testing
- Flow measurement
- CNC grinding and turning
- Electrical discharge machining

The plant also features its own metallurgy lab, coordinate measuring machines (CMM), and a gauge calibration room to ensure precision in every aspect of production. And world-class telecommunications and Internet connectivity ensures that Turbotec is in constant contact with the entire Solar organization, providing the plant with real-time access to engineering, technical support, logistics and other company resources.

### Recognized for Quality

In addition to being ISO 9001: 2000 certified, Turbotec is also PED certified to meet European standards. And, the company received its "Auto Gestio'n" certification for safety from the Mexican Government in 2004, the government's highest industrial safety certification. Also, in 2008 Turbotec



received the Baja California award for quality and competitiveness.

But perhaps the award for quality most important to the workers at Turbotec is Caterpillar's Annual Quality Improvement 2005 Chairman's Award—presented for greatest improvement in Quality, Velocity, and Safety within the Caterpillar organization worldwide, meaning that Turbotec was the "Best of the Best."