

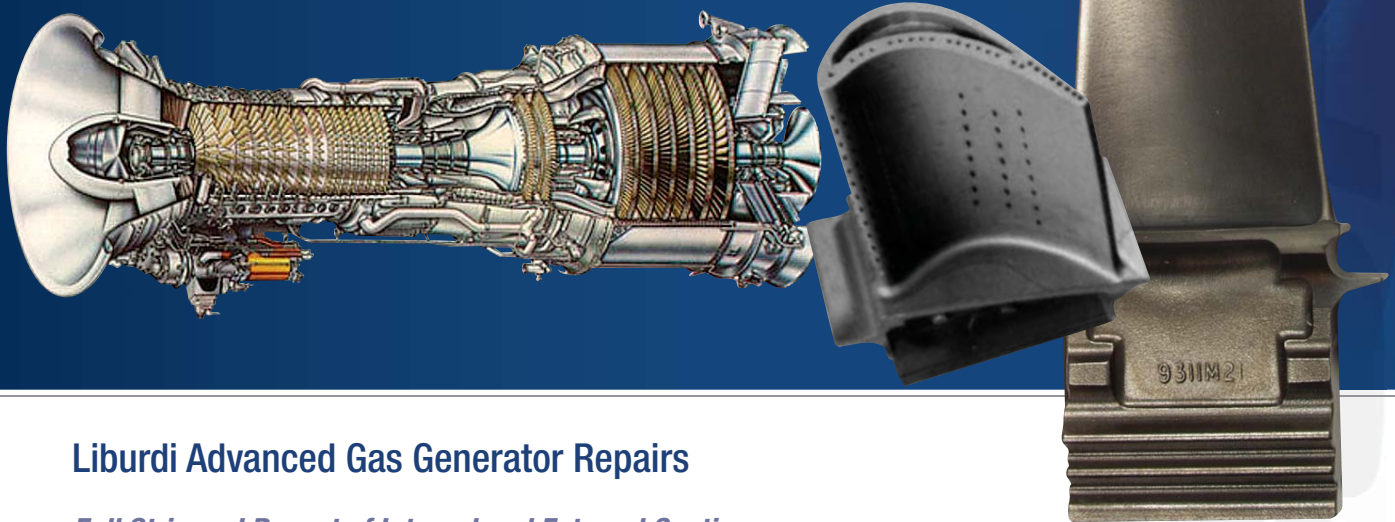
LM2500 LM2500+ LM1600 GE Aero-Derivative Gas Turbines

Component life extension creates Value for Oil & Gas and Power Generation Customers alike

The Liburdi Advanced Repair Program offers:

- Extended Reliable Service Life
- Reduced Maintenance Expenses
- Upgraded Components that Eliminate Design Deficiencies

Liburdi Turbine Services have been providing advanced repairs for LM2500 & LM1600 fleet owners for over 14 years. These Advanced Repairs, available only from Liburdi Turbine Services, enable the critical HP Turbine Blades to achieve additional service time beyond the conventional 50,000 hour life limit. High hour blades are fully restored at a fraction of the cost of new replacement parts; maintaining or improving component integrity while creating significant savings for the operator.



Liburdi Advanced Gas Generator Repairs

Full Strip and Recoat of Internal and External Coatings

- Complete strip and recoat of both internal and external service damaged coating essential in restoring the blades to “like-new” condition to reliably extend service hours
- Removal of all coatings is a necessary step in preparation for the Full-Solution Rejuvenation (FSR®) heat treatments

Full Solution Rejuvenation FSR®

- LM2500 HP1, HP2, and LM1600 HPT/LPT blades fully restored to as-new metallurgical properties
- Full Solution Rejuvenation® process restores critical creep life, avoiding OEM specified replacement life limit of 50,000 hours
- Demonstrated life extension to 100,000+ hours

Blade Tip Restoration

- Most blades suffer from high temperature oxidation and burning, leading to reduced engine performance (power & heat rate) and abbreviated life
- Liburdi tip restoration incorporates weld materials with improved oxidation resistance, superior to the OEM weld standard, and superior to the original new part
- Restoration process returns component geometry to original dimensions, recovering lost power and improving heat rate

Power Turbine Repairs and Life Extension

Most Power Turbine Models operating with LM2500 and LM1600 are Supported

- General Electric ELM116 and PGT16 (operating with LM1600)
- Dresser-Rand DR61, GT61, DJ270 (operating with the LM2500)
- General Electric PGT25 (operating with the LM2500)



Avoid OEM Specified 100,000 Hour Power Turbine Blade Life Limit

- Restore micro-structure creep life via Liburdi's Full Solution Rejuvenation®
- Restore critical shroud z-notch dimensions by weld and re-machining
- Prepare blade sets for the next 100,000 hours of reliable service

Over the past ten years, major Fleet Operators in North America, South America, and Europe have avoided new-part expense, saving Millions of dollars, while resetting life limited Power Turbine Blades to zero hours.

Liburdi has successfully applied these same FSR® life extending processes to Power Turbine Blade Sets operating with the Rolls-Royce gas generators and all major Industrial Frame Engines – GE, Siemens, Westinghouse, Alstom over the past 30 years.

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