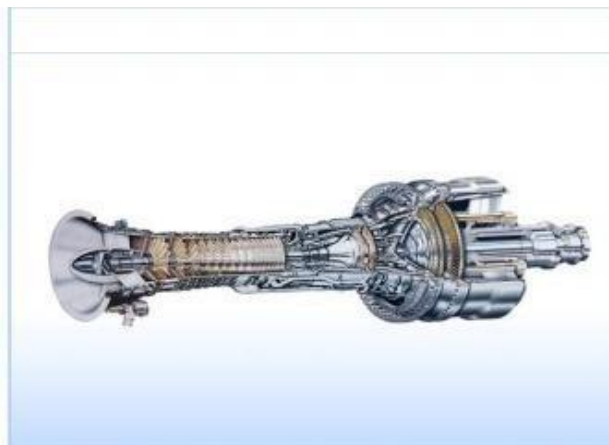


Aeroderivative Gas Turbine Overhaul

LM 2500, LM2500+, LM 6000, Solar Titan 130, FT 8, UGT 25000



位置和服务范围 Location and Service Scope

- 维修工厂位于距离北京50公里的经济开发区，占地约7万平米，建筑面积3万余平方米。

Located in the economic development zone. There is 50 km to Beijing. The whole facility covers 70,000 m² and over 30,000 m² of building area.

- 是中国唯一专业从事航改型燃气轮机修理的企业，先后获得 SIEMENS 和 GE 技术授权。

It is the **ONLY** local China enterprise specializing in aero-derivative gas turbine overhaul, with technical authorization from SIEMENS and GE.

- 主要承担 LM2500+SAC、RB211-24G ,Titan 130、LM 6000 、 FT 8、 UGT25000大修。

The core work covers overhaul of LM2500 and +SAC, RB211-24G, Titan 130, LM 6000, FT 8 and UGT 25000 overhaul.

- 至今累计维修燃气发生器161台、动力涡轮11台，保持“零缺陷、零返厂、零偏差”质量记录。

So far, there are total overhauled 161 units gas generators and 11 units power turbines, with “zero defects, zero returns, zero deviations” record in quality.



- ❑ 现有正式员工总数 98人，其中硕士12人、本科61人；另有外包辅助操作人员92人。

There are total 98 employees, including 12 with master degree and 61 graduates; plus 92 outsourced people.

- ❑ 配置工艺设备101台套、辅助设备323台、特种设备23台、专用工装 2858项。

Facility has 101 sets of process equipment, 323 auxiliary devices, 23 special equipment and 2,858 items of special tooling.

- ❑ 维修能力：已掌握六种机型航改型燃机的分解、清洗、故检、装配、试车等核心维修技术。

Integrated overhaul capability: masters disassembly, cleaning, fault inspection, assembly and test-run technologies for 6 models of aeroderivative gas turbines.

- ❑ 工艺覆盖高速叶尖磨削、等离子喷涂、火焰钎焊、真空热处理等20余项，形成较强的内外场技术服务能力。

More than 20 processes are in place, including high-speed blade-tip grinding, plasma spraying, flame brazing and vacuum heat treatment, supporting both workshop and field services.



主要设备 Main Equipment -1



清洗线

Cleaning Line



荧光线

NDT



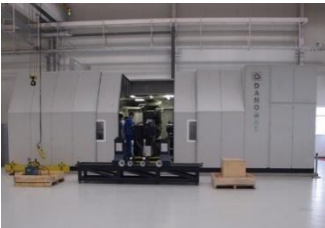
立式平衡机

Vertical Balance Machine



卧式平衡机

Horizontal Balance Machine



高速叶尖磨

HSG



数控立磨

CNC Vertical Lathe



轴承清洗线

Bearing Clean Line



数控喷丸机

CNC Peening Machine



三坐标

CMM



轴承三坐标

CMM for Bearing



喷砂机

Dry and Wet Blast Machine



数控机床

CNC Machining



数显x光机

Digital X-ray Machine



试车台

Engine Test Cell



磁粉探伤

Magnetic Particle Inspection



装配转动平台

Pneumatic Platform



生产管理信息系统

PMIS

区域化管理、三级监督

Regionalized management
with three-level supervision

6S目视化管理

6S visual management



维修全过程信息化、标准化

Digitalized and standardized
process

责任明确、可追溯性强

Clear responsibility and full
traceability

环境安全、整洁、有序

Safe, clean and orderly
environment



多模块集成
Modularized

工程文件、工卡、生产项目、车间执行、质量、成本一体化管理
Integrated management of documents, work cards, projects, shop-floor execution, quality and cost

无纸化办公
Paperless Work

电子签名；基础构型、维修手册、工卡、工作范围、拆装清单等结构化文件
Electronic signature and structured documents, including baseline configuration, manuals, work cards, work scope and disassembly/assembly lists

质量管控
Quality Control

完工签署、质检签署、偏差放行、不合格及返工全过程受控
Controlled task sign-off, QC sign-off, deviation approval, non-conformity and rework

管理效率
Efficiency

快速反馈执行结果；实时查看工段进度；准确跟踪零件状态
Quick feedback, real-time work-stream progress and accurate parts-status tracking

数据利用
Data Utilization

成本、绩效、人力设备能力、库存存量等数据分析
Analysis of cost, performance, human/equipment resources and inventory

- 经过长期钻研，压检分公司掌握了转子堆叠装配、齿轮箱装配、单元体装配、转子平衡等核心工艺。

Mastered core processes such as rotor stacking, gearbox assembly, module assembly and rotor balancing.

- 同时具备无损探伤、复杂转子动平衡、机组附件测试与维修等关键能力。

Strong capabilities in NDT, dynamic balancing of complex rotors, and testing and maintenance of unit accessories.

- 与国外同行相比，具有质量可靠、响应效率高等优势。

Compared with international peers, it offers reliable quality and higher response efficiency.

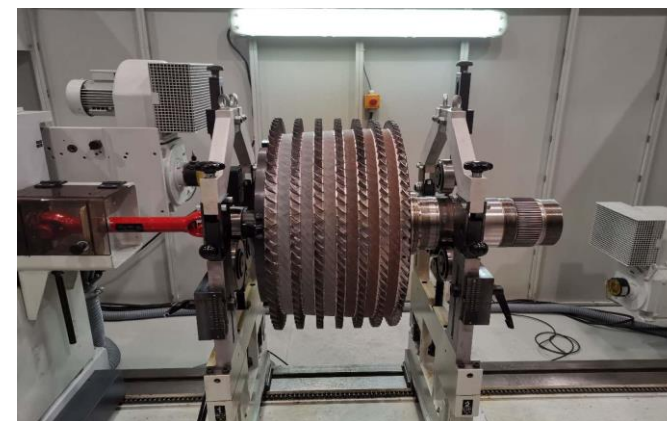
- 完整可靠的部件维修能力。

Complete and reliable components repair capability.



高压涡轮转子堆叠装配

High-pressure turbine rotor stacking assembly



高压压气机转子毂平衡

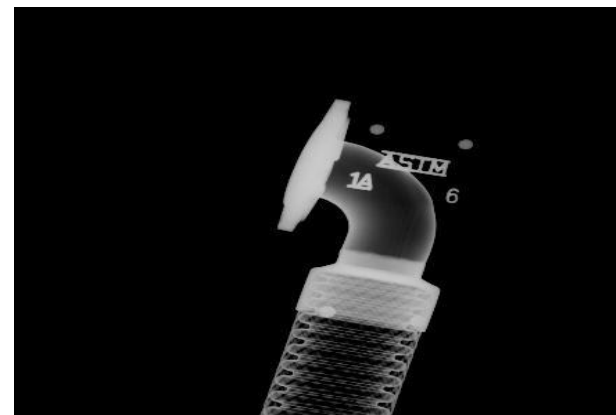
High-pressure compressor rotor hub balancing

高精度机加工能力 High-Precision Machining Capability

- 高速叶尖磨床、立式磨床等设备可实现在线监测与磨削，精度达0.002MM。
High-speed blade-tip grinders and vertical grinders enable online monitoring and grinding with accuracy up to 0.002 mm.

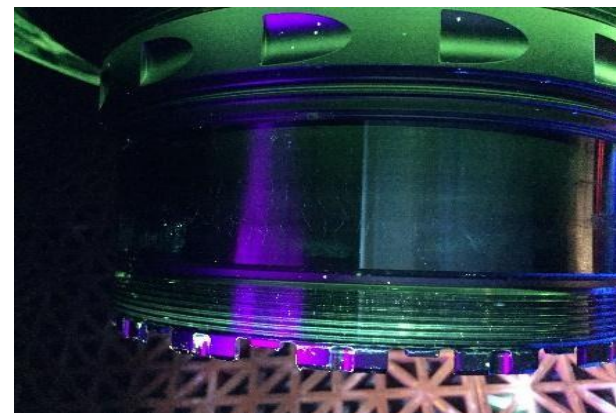
先进的检测能力 Advanced Testing Capabilities

- 具备荧光渗透、射线、超声、磁粉等无损检测能力。
NDT capabilities include fluorescent penetrant, radiographic, ultrasonic and magnetic particle testing.
- 检测设备：三坐标、硬度计、三维扫描等，可开展尺寸测量、硬度检测、管路试压、轴承清洗与检测。
Equipment such as CMMs, hardness testers and 3D scanners supports dimensional measurement, hardness inspection, pipeline pressure testing, and bearing cleaning with inspection.



管路换段后射线检测

Radiographic testing after pipeline section replacement



LM2500后轴荧光渗透检测

LM2500 rear shaft FPI

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