SAIBO POWER

Turbomachinery Solution Catalogue

Knowledge-Based Technology & Engineering

>>Who We Are

Saibo Power is a global provider of maintenance and engineering solutions for industrial and aero-derivative gas turbines, serving operators across the power generation, petrochemical, and oil & gas sectors. Our core team brings together over four decades of specialized experience in gas turbine and aero engine repair, stemming from professional roots in GE, Siemens, Solar, Mitsubishi Power, and Pratt & Whitney.

We specialize in advanced field services, hot section overhauls, component-level repairs, and reverse engineering solutions for a wide range of gas turbine models. With deep expertise across both power-generation and aviation-grade turbine systems, we are uniquely positioned to provide cost-effective, high-reliability support for complex maintenance challenges.

Our business is built on a foundation of engineering excellence and technical precision, backed by a culture of quality, safety, and customer-first service. As we continue to grow, we remain committed to delivering performance-driven solutions that reduce downtime, optimize operational efficiency, and extend the lifecycle of critical rotating equipment.

We welcome global partnerships and long-term collaborations that advance innovation and elevate standards in turbine repair and refurbishment.

Gas Turbine Brands & Models

Wide Service Turbine Brande

- **GE Vernova**
- **Solar Turbine**
- **Siemens Energy**
- **Baker Hughes**
- **Mitsubishi Heavy Industries**
- **Ansaldo Energia**

Standard Models

- **LM2500+, LM2500+G4,LM6000,Frame6/1B**
- **SGT100,SGT200,SGT300,SGT400,SGT800**
- **Taurus65,Titan130,Titan250, Titan350**
- **H-100,H-25,M501DA,M701DA**

SAIBO POWER

Gas Turbine | Compressor | Steam | AeroDerivative Gas Turbine

Saibo Power Technology Co., Ltd
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>> Integrated Analysis, Testing, and Machining Facility

High-Temperature
Metallographic Analyzer

Metallurgical Microscope

Elevated Temperature Tensile Tester

Electron Probe Microanalyzer (EPMA)

Chemical Analyzer

Energy Dispersive Spectrometer (EDS)

Laser System

YAG Laser System

Laser System

Vacuum Heat
Treatment Furnace

YAG Laser System

Plasma Arc
Welding Machine

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Certification

发明专利证书

发明专利证书

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发明专利证书

环境管理体系认证证书

证书编号：21621E30818OS

兹证明

无锡中科金研激光燃气轮机部件有限公司

统一社会信用代码：91320281MA22AQR53N

注册地址：江阴市中南路 1 号
办公地址：江阴市中南路 1 号
生产地址：江阴市中南路 1 号

建立的环境管理体系符合

GB/T 24001-2016/ISO 14001:2015

证书覆盖范围

金属制品表面处理（激光熔覆修复及强化）及相关环境管理活动

知识产权管理体系认证证书

证书编号：483P202203290S

兹证明

无锡中科金研激光燃气轮机部件有限公司

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知识产权管理体系符合标准

GB/T29490-2013

通过的认证范围

金属制品表面处理（激光熔覆修复及强化）所涉及的知识产权管理

首次发证日期：2022 年 08 月 23 日
证书有效期至：2025 年 08 月 22 日

中国（北京）认证有限公司

职业健康安全管理体系认证证书

证书编号：21621S3082R0S

兹证明

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统一社会信用代码：91320281MA22AQR53N

注册地址：江阴市中南路 1 号
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生产地址：江阴市中南路 1 号

建立的职业健康安全管理体系符合

GB/T 45001-2020/ISO 45001:2018

证书覆盖范围

金属制品表面处理（激光熔覆修复及强化）及相关职业健康安全管理活动

北京寰宇九州认证有限公司

质量管理体系认证证书

证书编号：21621Q3080R0S

兹证明

无锡中科金研激光燃气轮机部件有限公司

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建立的质量管理体系符合

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金属制品表面处理（激光熔覆修复及强化）

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Our Services:

- Gas turbine test service
- Field & Engineering Support
- Component Repair &Refurbishment
- Spare parts supply
- Life extension for hot-section components
- Gas turbine blade repair
- Compressors & turbine Overhaul
- Surface protection for critical components
- repair of turbine and nozzle guide vanes

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Non-Destructive Original-State Restoration Technologies and Their Fundamental Principles

1.**LPCasting – Laser-Powder Casting Growth**

2.**LMI-Welding – Laser Micro-Increment Welding**

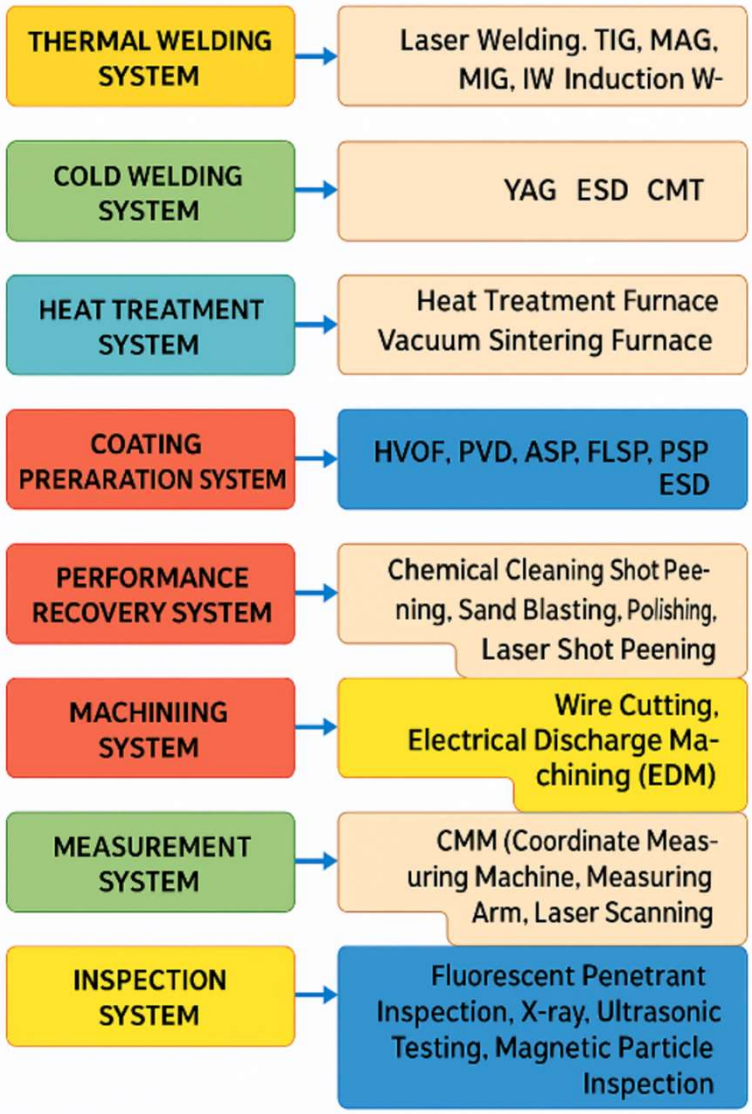
3.**MADCoating – Micro-Arc Deposition Coating**

4.**L-MADCoating – Laser-Assisted Micro-Arc Composite Coating**

5.**W-PM – Powder Metallurgy Sintered Overlay**

6.**Single-Sided Welding and Double-Sided Forming Technique for Mg/Al/Ti Alloys**

7.**Residual Stress Relief and Surface Compressive Stress Induction in Repair Zones**



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Industrial Drive Gas Turbine

Initial Blade Defect Status

Welding Process

Post-Welding

After Precision Finishing

Post-Repair Inspection Condition

Aero Engine Blade

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Industrial Drive Gas Turbine

Honeycomb Disk – Before Repair / After Repair

LP Stator Before Repair

Post-Repair Condition – LP Stator Vane

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Industrial Drive Gas Turbine

Turbine Disk Repair and Inspection Methods

Pre-Repair Condition – HPC Case

Post-Repair Condition – HPC Case

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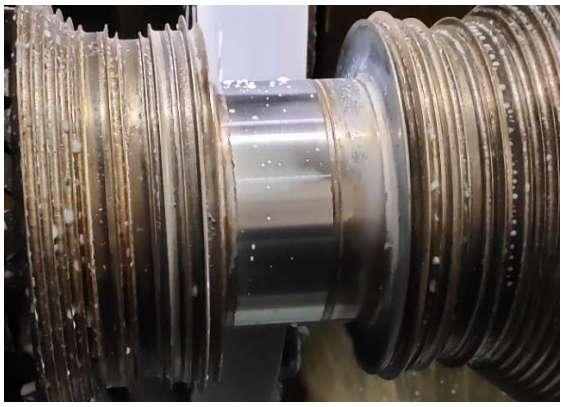
Industrial Drive Gas Turbine

Pre-Repair Condition – Bearing Housing

Post-Repair Condition – Bearing Housing

Pre- and Post-Repair – Rotor Seal Teeth



Pre- and Post-Repair – Rotor Shaft Journal

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Industrial Drive Gas Turbine

SGT-400 Nozzle Vane Repair

Before and After Repair

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Industrial Drive Gas Turbine

Siemens SGT-200
Combustion Liner

GE LM2500
Combustion Liner

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Heavy- Duty Gas Turbine

MS5001 Blade Crack Inspection

MS5001 Blade Crack Inspection

Before Repair – Siemens IN939 Blade

After Repair – Siemens IN939 Blade

6B Stage 1 Nozzle Vane

Domestic Heavy-Duty Gas Turbine Blade

Ablated Blade Repair

Stage 3 Nozzle – GE Frame 6B

Nozzle Vane – GE Frame 6B

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Heavy- Duty Gas Turbine

Post-Repair Flame Tube

Before-Repair Flame Tube

Mitsubishi Transition Piece

6B Transition Duct

Flame Tube for GE LM2500

GE Frame 9E Transition Piece

Mitsubishi Transition Piece

Flame Tube for M701 Gas Turbine

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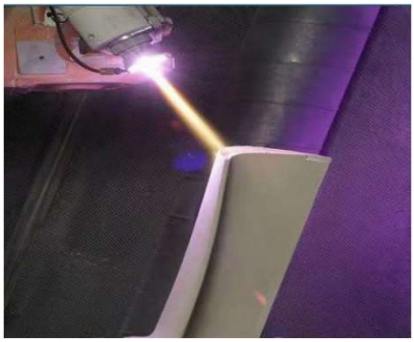
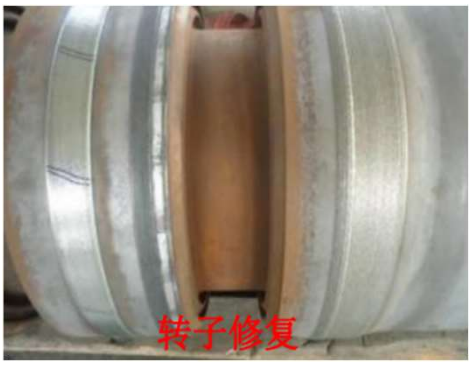
>> TRT



TRT Blade Protection and Repair

Fabrication and Installation of TRT Blades



Rotor Repair

TRT Retrofit Capabilities

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