



# GAS AND STEAM TURBINES

Tailormade Rotary Equipment  
Services in World Class



## Who We Are

Grand Turbo Energy is a Russian company that offers a range of gas and steam turbine equipment solutions for the power, oil and gas, and industrial markets. With international experience in maintenance, testing, and parts production for turbines, we are capable of addressing both national and international demands while bringing domestic opportunities to our country.

## How We Work

Our goal is to establish a long-term production and maintenance organization based in Russia, we are redefining turbomachinery support by providing exceptional engineering and logistics solutions, along with a comprehensive 'one-stop-shop' service. With world-class facilities, we uphold our renowned reputation for excellence and reliability, delivering unparalleled value to our customers. Our team consists of over 60 of the industry's most passionate and dedicated professionals, making our independent services and solutions among the best on the market.

Whatever your needs may be, Grand Turbo Energy is committed to providing value-added solutions tailored to your specific operations.





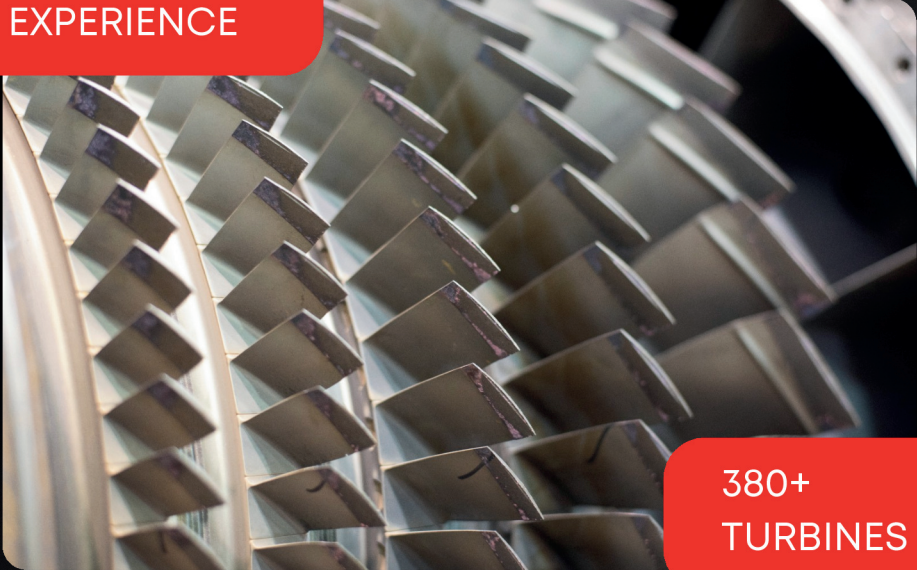
## Gas Turbines Experience

GTE provides comprehensive and dependable 'Total Solution' services to clients and allows them to keep service schedules and deadlines while lowering the cost of ownership. Well trained and experienced engineers are providing all necessary support to the installed units of our service range.

## Steam Turbines Experience

Whether it's a scheduled steam turbine outage or forced outage, Grand Turbo Energy works with power and industrial plants' owner to meet complex needs and schedules. Our premier field service staff offers turn-key, maintenance, repair, overhaul, and upgrade of steam turbines and generators.

19 YEARS+  
EXPERIENCE

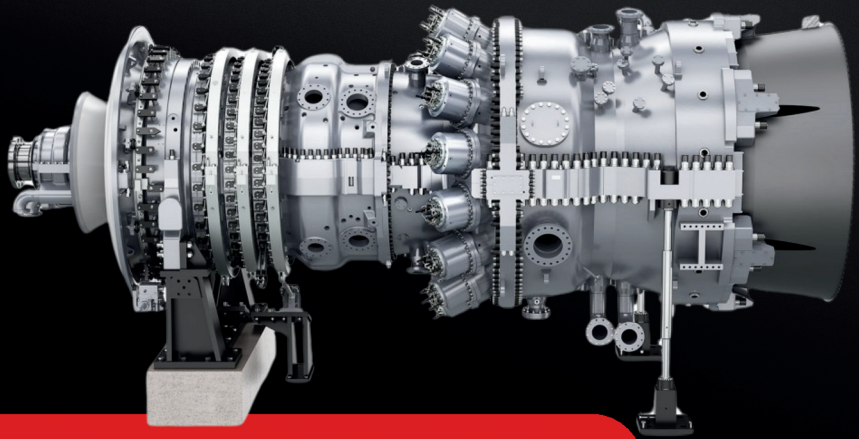


380+  
TURBINES

## THESE SERVICES ARE:

- Major and Minor Overhaul
- Spare Parts Supply
- Full installation and commissioning of new, overhauled, or relocated equipment
- Long-term operation and maintenance service agreement
- Preventive & Predictive Maintenance
- Periodic service work
- Core Engine Exchange/Lease
- Troubleshooting



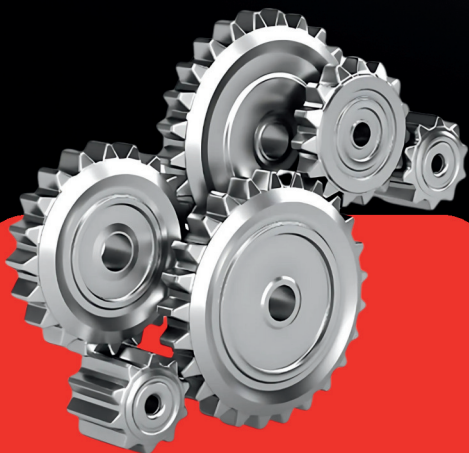


We offer a variety of preventive maintenance plans to fit your business's needs. We'll get your worn components repaired or replaced to like-new condition that will meet, or even exceed, the OEM specifications.



### **Our Services:**

- - Gas Turbines such as MAN, GEC, Siemens, Alstom,
- Gas Turbine Removal
- Installation and re-commissioning
- Routine maintenance for various brands
- Preventive and corrective maintenance
- Fault finding and troubleshooting



## Spare Parts

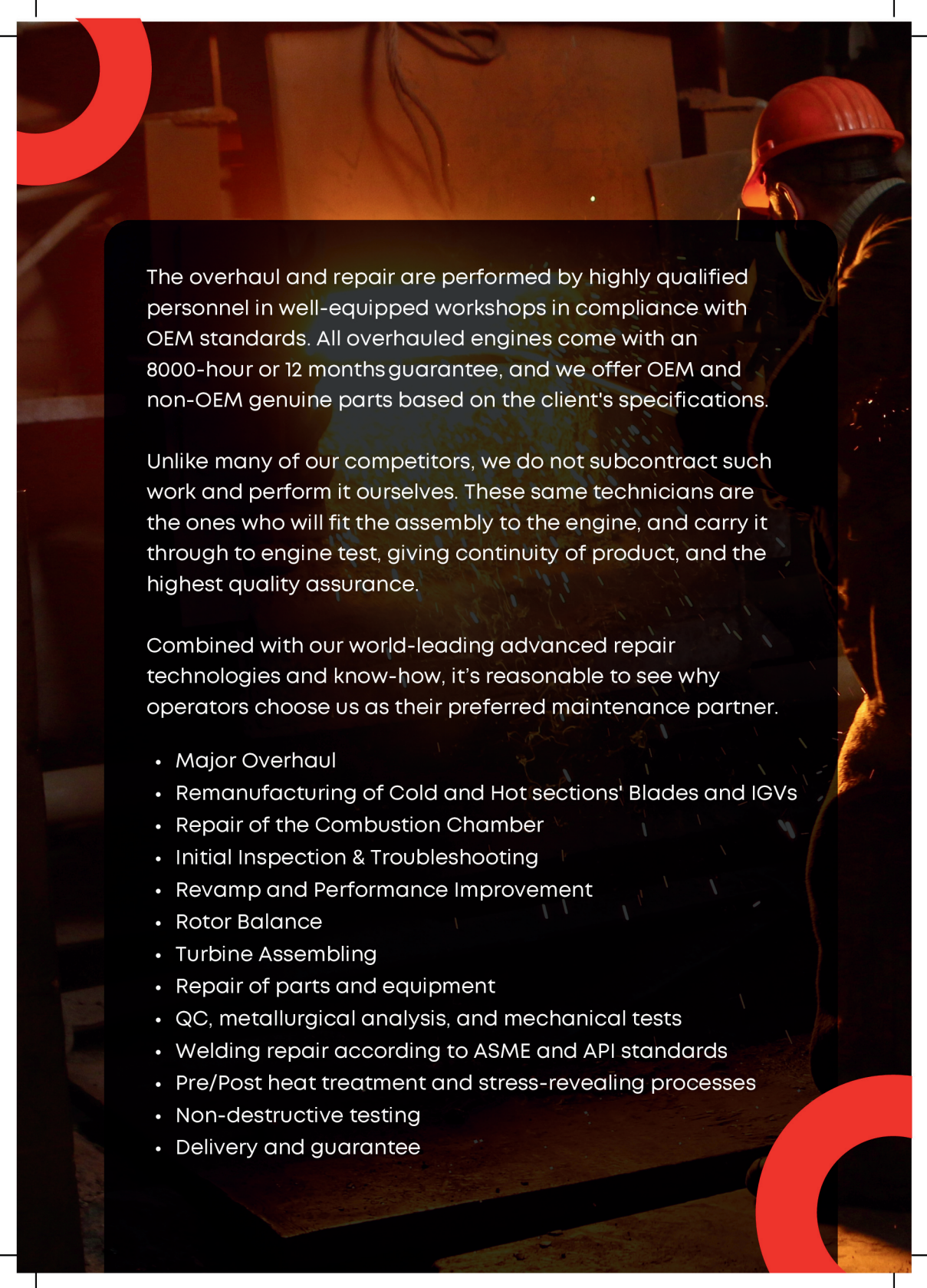
Grand Turbo Energy works with power and Industrial plants owners to meet complex business needs. Our premier field service staff offers turnkey, maintenance, repair, overhaul, and upgrade of your machines. Whether it's a scheduled steam turbine outage or forced outage, Grand Turbo Energy works with power and industrial plants' owner to meet complex needs and schedules. Our premier field service staff offers turn-key, maintenance, repair, overhaul, and upgrade of steam turbines and generators.



## Maintenance

From the time of shutdown through the preparation for storage or transfer, we'll arrange everything, including blanking and inhibiting as appropriate. By properly following the instructions for removing the Turbine, we'll make sure the installation settings are recorded and compared to OEM specifications for reference. The effective re-commissioning and subsequent functioning of the package depends on adherence to specific procedures and settings, regardless of whether you plan to install a serviceable spare, lease, or a fully overhauled turbine. You can rely on us to finish the installation process and apply different re-commissioning criteria depending on the type and function of the turbine.




The background image shows a worker in a red hard hat and safety gear working on a large industrial engine in a workshop. The scene is dimly lit with warm, orange-toned lighting. A large red circular graphic element is visible in the top left corner, and another similar element is in the bottom right corner.

The overhaul and repair are performed by highly qualified personnel in well-equipped workshops in compliance with OEM standards. All overhauled engines come with an 8000-hour or 12 months guarantee, and we offer OEM and non-OEM genuine parts based on the client's specifications.

Unlike many of our competitors, we do not subcontract such work and perform it ourselves. These same technicians are the ones who will fit the assembly to the engine, and carry it through to engine test, giving continuity of product, and the highest quality assurance.

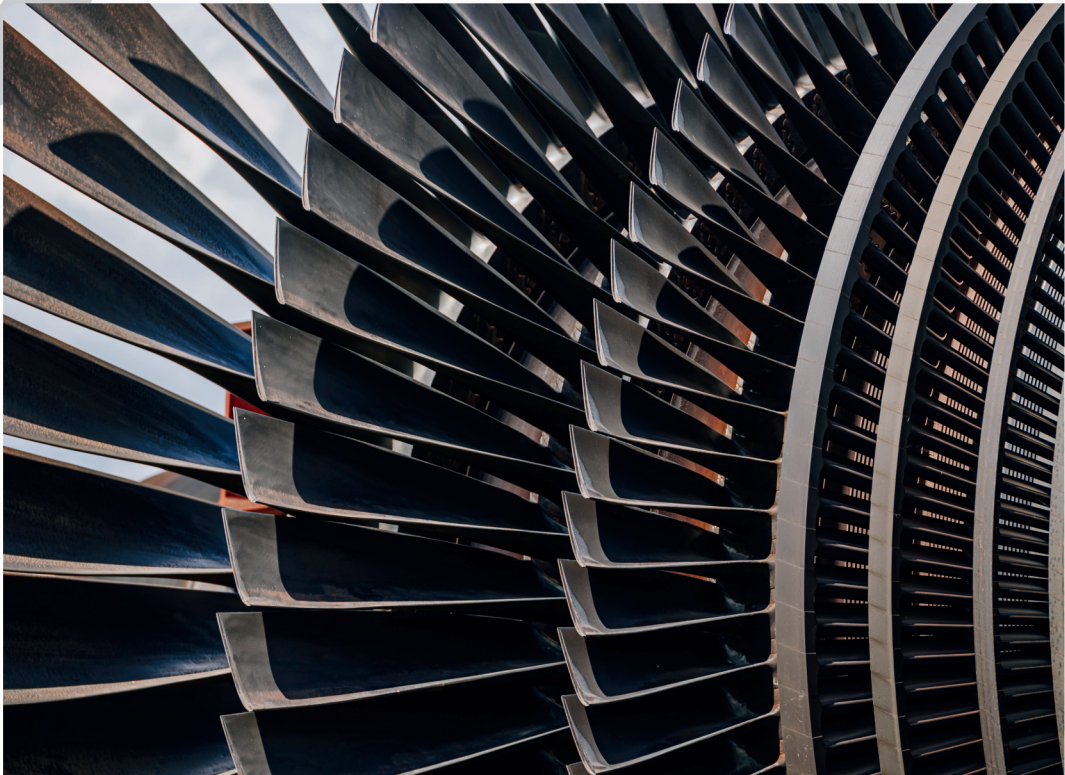
Combined with our world-leading advanced repair technologies and know-how, it's reasonable to see why operators choose us as their preferred maintenance partner.

- Major Overhaul
- Remanufacturing of Cold and Hot sections' Blades and IGVs
- Repair of the Combustion Chamber
- Initial Inspection & Troubleshooting
- Revamp and Performance Improvement
- Rotor Balance
- Turbine Assembling
- Repair of parts and equipment
- QC, metallurgical analysis, and mechanical tests
- Welding repair according to ASME and API standards
- Pre/Post heat treatment and stress-revealing processes
- Non-destructive testing
- Delivery and guarantee



Grand Turbo Energy works with power and Industrial plants owners to meet complex business needs. Our premier field service staff offers turnkey, maintenance, repair, overhaul, and upgrade of your machines. Whether it's a scheduled steam turbine outage or forced outage, Grand Turbo Energy works with power and industrial plants' owner to meet complex needs and schedules. Our premier field service staff offers turn-key, maintenance, repair, overhaul, and upgrade of steam turbines and generators.





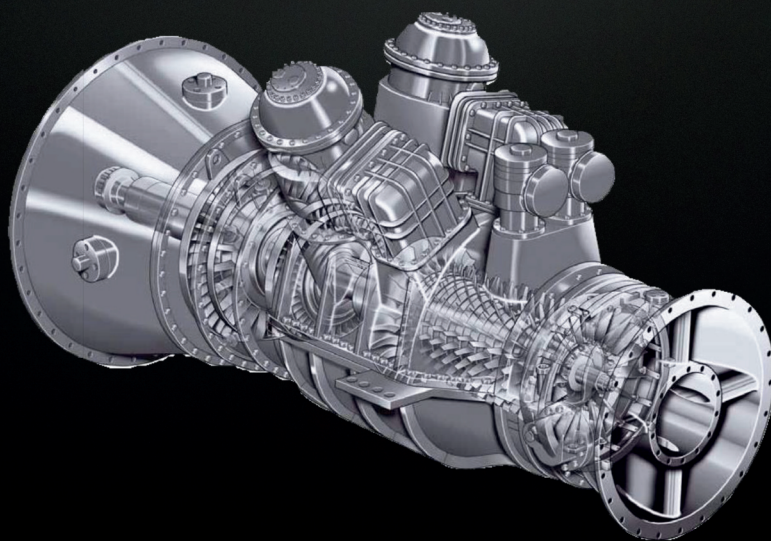
- Coordination of projects in design, engineering, revamp and retrofit
- Design, engineering and packaging of integrated systems
- Gas turbine, process compressor, steam turbine, turbo-compressor and turbo-pump
- Developing of simulation, performance prediction and analysis of turbomachinery
- Design, engineering and setting up of test stands

# THM GAS TURBINES

Heavy duty gas turbines for industrial applications

## Combined advantages

The THM 1304 heavy duty gas turbine family consists of two members with ISO power outputs of 10,500 kW and 12,500 kW. These machines are all selfcontained, completely integrated industrial prime movers of a compact, axial-flow design. Due to their twinshaft construction the gas generator and power turbine are mechanically independent of each other, which is crucial in respect of rapid installation and maintenance.





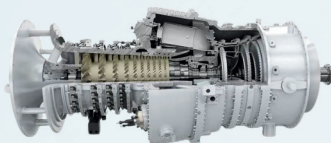
- 
- 
- Borescope Inspection
  - Foreign Material Exclusion (FME) Procedures
  - Turnkey Outage Services
  - Un-/Scheduled Maintenance
  - Bearing Change Outs
  - Steam path Inspection (SP) & Repair
  - Control Systems & Remote Monitoring
  - Turbine Valve Inspection / Repair
  - Core Engine Loan / Lease / Exchange
  - Spare Parts Supply
  - Air Inlet Filtration Retrofit
  - Coatings & Repair Centre
  - Field Service & Maintenance
  - Rotor Balancing
  - Troubleshooting
  - Overhaul

# SIEMENS SGT SERIES TURBINES

## **SGT-100:**

### **Power Generation: 5.4 MW**

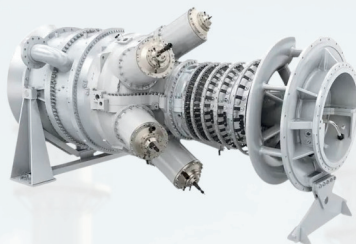
SGT-100 was originally known as "Typhoon." This model was introduced in 1990 and began being used in the oil and gas industry in 1992. The SGT-100 features a 10-stage axial flow transonic compressor incorporating the latest aerodynamic technologies.



## **SGT-400:**

### **Power Generation: 14.3 MW**

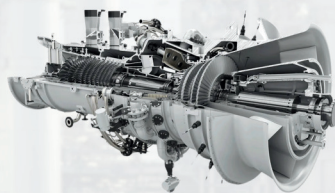
The SGT-400 is a simple, robust twin-shaft gas turbine, suitable for both power generation and mechanical drive applications.



## **SGT-600:**

### **Power Generation: 24.5 MW**

High reliability, excellent fuel flexibility, and third-generation DLE make the SGT-600 a perfect choice for applications such as industrial power generation.





# OVERHAUL

---

Unlike many of our competitors, we do not subcontract such work and perform it ourselves. These same technicians are the ones who will fit the assembly to the engine, and carry it through to engine test, giving continuity of product, and the highest quality assurance.

Combined with our world-leading advanced repair technologies and know-how, it's reasonable to see why operators choose us as their preferred maintenance partner.



# MAJOR OVERHAUL

- Remanufacturing of Cold and Hot sections; Blades and IGVs
- Repair of the Combustion Chamber
- Initial Inspection & Troubleshooting
- Revamp and Performance Improvement
- Rotor Balance
- Turbine Assembling
- Repair of parts and equipment
- QC, metallurgical analysis, and mechanical tests
- Welding repair according to ASME and API standards
- Pre/Post heat treatment and stress-revealing processes
- Non-destructive testing







# DELIVERY AND GUARANTEE

The effective re-commissioning and subsequent functioning of the package depends on adherence to specific procedures and settings, regardless of whether you plan to install a serviceable spare, lease, or a fully overhauled turbine. You can rely on us to finish the installation process and apply different re-commissioning criteria depending on the type and function of the turbine.

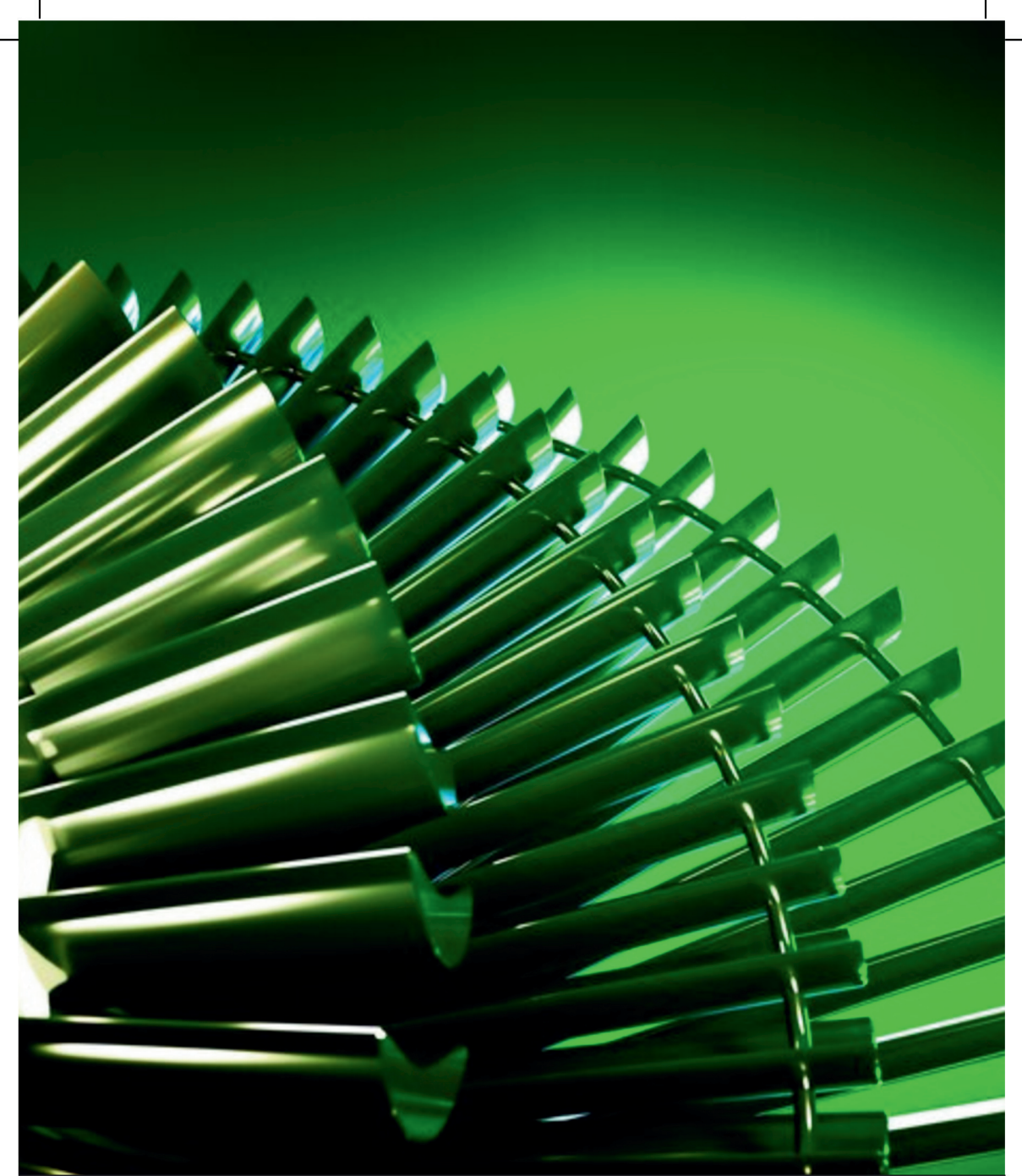
Prior to the final handover to you for operational services, our engineers can work with you on-site to ensure the reinstalled equipment is commissioned securely and satisfactorily within the necessary parameters.

# PERMANENT STOCK:

- Sensors Probes Lube & Scavenge pumps  
Starters Valves Actuators Consumables  
(filters, seals, gaskets etc.
- Spare Parts Services
- Grand Turbo Services spare parts services include: Permanent stock of critical spare parts Strategic gas turbine spare parts management 24/7 availability for emergency calls 24/7 logistic support







info@grandturboenergy.com  
Moscow region, Odintsovo city