We’re OSP. We set power in motion.

The power of thought is a remarkable thing. A brilliant mind can easily generate great ideas. Like service solutions that benefit energy installations. That’s why we combine the engineering capacity from our OEM background with the open-mindedness of an independent service provider. Giving you sound advice and optimal service when it comes to repairing, reconditioning, upgrading or servicing GE type gas turbines.

A single source solution offering the best of both worlds. We call it OSP™, Original Service Provider. A great concept to engineer power installations worldwide to new levels. Because improving our Clients energy output sparks our minds as well.

With an extensive portfolio of field service, repair capabilities, spare parts supply, innovative upgrades, training and long-term service level agreements, OSP’s goal is to serve the energy industry with a broad range of power generation equipment worldwide.

Our service agreements are modular and can therefore be flexibly adapted to each specific situation. Inspections are designed to ensure that gas turbines continue to generate electricity reliably and economically for many years. We are constantly improving our spare parts and finding more effective ways to carry out repairs.
The high-tech repair center in the Middle East

Ansaldo Thomassen Gulf is the Ansaldo Energia Group’s high-tech gas turbines hot gas path parts repair workshop in the Middle East. Within Ansaldo Thomassen Gulf we apply the ‘one-stop shop’ philosophy performing all the required repair processes under one roof thereby reducing lead time whilst maintaining full quality control for the benefit of our Customers.

Ansaldo Thomassen is a leader in the global market known for high quality and credibility in the repair business. We are part of a long technology legacy deriving from our parent company Ansaldo Thomassen BV, located in Rheden, the Netherlands. Ansaldo Thomassen is a former business associate of General Electric that had been manufacturing GE design gas turbines for almost 40 years before turning to after sales service in 1998. During the license years Thomassen built more than 300 gas turbines. Ansaldo Thomassen Gulf combines the heritage of knowledge from Ansaldo Energia and Ansaldo Thomassen BV, plus the experience of industry professionals.
Ansaldo Thomassen Gulf capabilities

Ansaldo Thomassen Gulf is specialized in the repair of General Electric, Ansaldo Energia and Siemens gas turbine hot gas path components. Regarding parts we have consolidated experience on GE heavy-duty, Ansaldo Energia and Siemens gas turbines. We are also providing repairs for the Westinghouse gas turbine family including Mitsubishi, Fiat and Westinghouse models.

With full in-house capabilities we can perform the complete cycle of repairs for buckets, nozzles, shrouds and combustion components, all under one roof. We have a multinational team of experts with different backgrounds and experience therefore we do not have to outsource any part of the process. This enables us to maintain and control the highest quality and the most economic repair procedures.
Hot Gas Path and Combustion Components Repair

Ansaldo Thomassen Gulf avails the latest technologies in order to offer its Customers the possibility of repairing gas turbine rotating components locally without having to bear high shipping costs to have their parts repaired overseas. This allows a sensible reduction in the turnaround time for parts that are essential for the operation of gas turbines. Our facility offers:

- **Welding techniques**: TIG (Tungsten Inert Gas), Resistance Spot Welders, MIG (Metal Inert Gas), Micro TIG
- **Machining**: Electro Discharge Machining, CNC Wire Eroding, Horizontal turning
- **Heat Treatments**: Vacuum Furnaces, Heat Tint Furnace, Curing Oven, Drying Ovens
- **Cleaning**: Chemical Strip/Clean, Ultrasonic Cleaning System, High Pressure Water Flush
Coatings

Ansaldo Thomassen Gulf has state of the art coating facilities.

Overlay Coatings:
- HVOF (High Velocity Oxy Fuel): MCrAlY (Overlay - NiCoCrAlY, CoNiCrAlY), Abradables (Nickel and Cobalt based), Hard face (Chrome, Tungsten and Stellite)
- APS (Atmospheric Plasma Spray): TBC (Thermal Barrier), Abradables (Aluminum), Hard face (Chrome, Tungsten and Stellite)

Diffused Coatings:
- Silicon/Aluminum

In order to guarantee the highest possible standard of quality and to have the possibility of verifying the accuracy of the repair cycles a metallurgical laboratory is available at Ansaldo Thomassen Gulf.

Laboratory:
- Full metallurgical inspection equipment
- Material analyzer
- Microscopes
- Hardness measurement
- Hot press and polishing equipment

NDT
- Fluorescent and Red Dye Penetrant
- Ultrasonic
- X-Ray
- Flow test (air)
- Eddy Current

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This enables us to test incoming components for life assessment and to secure a reliable residual life appraisal after repair. This can be achieved by a combination of laboratory tests and NDT practices.
Rotor Repair Capabilities

Full refurbishment of gas turbine rotors is one of our core competences. To determine the condition of the gas turbine rotor a Rotor Lifetime Assessment can be performed. The result of the assessment might show a standard rotor overhaul is sufficient to get your rotor up and running again. In case severe damage is found it is also possible rotor components should be replaced. Ansaldo Thomassen Gulf is able to replace the damaged sections with own manufactured components. Besides repairing the rotor there is also the possibility to upgrade it by installing new compressor blades. This upgrade will result in a power increase while heat rate will be reduced.
Ansaldo Thomassen Gulf

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