



- Lifetime extension
- Improved reliability
- Increased efficiency

## Gas Turbine Rotor Life Assessment

Gas turbine manufacturers specify that the rotating element of a gas turbine has a limited life based on the number of fired hours run and the number of starts. It is recommended, depending on the make and model of the gas turbine, that a rotor life assessment inspection be performed on the rotor every 100,000 to 200,000 hours. Furthermore, as rotors age and near the OEM published lifespan, life assessment inspections are critical for determining the remaining life potential of its critical components.

Sulzer provides complete Rotor Life Assessment (RLA) inspections for gas turbine rotors that are equivalent to OEM evaluations. RLA inspections consist of thoroughly inspecting, detecting and mitigating risks affecting rotors and other capital parts. In addition, Sulzer is capable of unstacking, servicing, manufacturing replacement parts, re-stacking and balancing rotors under one roof. With a customer-centric approach, thorough inspections are completed by a highly experienced staff of engineers, project managers and technicians. Through RLA, Sulzer assists customers in rotor life cycle management through evaluating gas turbines to help keep their operations safe and reliable and to help detect flaws and deal with potential issues.

### RLA Inspection services include:

- Traverse hardness of rotor disks
- Magnetic particle testing
- Ultrasonic testing
- Borosonic testing of disk bores
- Phased array ultrasonic testing
- Eddy current testing
- Array eddy current testing
- In-situ metallography and replication of turbine and compressor disks
- Chemical analysis

### Additional rotor capabilities include:

- Unstacking
- Servicing
- Manufacturing replacement parts
- Re-stacking
- Balancing

