

Steam turbines

Key benefits

- Lower maintenance costs
- Optimised working life of components
- Longer intervals between overhauls and shorter over-haul times
- High level of availability

We have decades of experience in plant perfection, and our job is to help you with your rotating main equipment management from planning to optimized maintenance, modernizations, and repairs.

MAINTENANCE AT THE RIGHT TIME SAVES COSTS OF SPARE PARTS

Our maintenance measures start off at the maintenance planning stage. We study the reports from previous servicings and experiences from the latest period of operation. Condition monitoring measurements and endoscope inspections combine with the factors mentioned above to create a good basis for successful servicing.

On the basis of the data gathered, we can specify the date of the service and prepare for spare part procurements and on-the-spot repair measures. Servicing which is planned in advance optimises the use of parts and the repairs, and generates significant cost savings. In steam turbines, costs of spare parts comprises a large part of total maintenance costs.

After the turbine is opened up, we carry out measurements and NDT inspections and, on the basis of this, we plan the necessary repair work. At the machine unit assembly stage, we inspect the machine unit's installation status and compare this to the data collected during the opening stage.

TURN-KEY MAINTENANCE GUARANTEES GOOD OPERATING EFFICIENCY AND AVAILABILITY

In the maintenance of steam turbines, our aim is to take overall responsibility for the maintenance work by a turnkey arrangement; this includes the steam turbine and its mechanical engineering auxiliary devices, the generator and its auxiliary devices, and the control and protection system. The purpose of overhauls of steam turbines is to guarantee the undisrupted

operation of the machine unit for the subsequent period of operation. Turnkey maintenance guarantees that the power plant will have a high level of operating efficiency and availability.

STEAM TURBINE MAINTENANCE SERVICES

- Overhaul and spare part planning
- Turbine, gearing and generator inspection work
- Repairs to parts:
 - ◊ Blades, Coatings, Valves
- Rotor balancing
- Endoscope and NDT inspections
- Vibration measurement and analysis
- Measurements and analysis of heat movements
- Inspections of control and protection systems
- Fault investigations
- Installations of new machine units
- Protection of client's interests, "Owner's Engineer" service