

# Overhaul of turbine generator rotors

During the normal operational service life of a turbine generator rotor the rotor field coils and retaining rings also known as end caps that support the end field coils are subject to various cyclic and rapid loading stresses. Centrifugal forces encountered during high-speed operation may result in the degradation of the field coil turn-turn insulations. Sulzer offers special repair services for turbine generator rotors to extend the lifetime of the equipment.

## Shorter repair time

From its service center in Purwakarta, West Java, Sulzer offers a full range of electrical and mechanical repair services for electrical rotating equipment making the need to transport rotors overseas for repair unnecessary.

## In-house engineering

Sulzer in Indonesia has a dedicated engineering department to provide advice and consultation on the most appropriate methods and technologies. Together with the customers, we find the optimal solution.

## Winding materials

The most advanced materials and resins are used in all rotor repairs purchased only from Sulzer's audited and approved suppliers.

## Bearing journal refurbishment

With the introduction of in-house submerged arc welding Sulzer has developed a reliable and proven method to refurbish damaged generator rotor journals. The lead time for the welding process is significantly reduced due to two welding heads. Both heads are semi-automatic and can be operated separately. This also means that welding can now be executed simultaneously on two different areas of the rotor.



## Horizontal stress relief

Conventional vertical stress relief always bore a safety risk. With its new welding area Purwakarta service center also introduces horizontal stress relief which minimizes all safety risks. The work is in the same area as the welding to minimize set up time. The stress relief process is run using an automatic heating machine. The rotor is rotated at a very low speed to minimize the risk of bending.

## Dynamic balancing

To compliment the full in-house generator rotor refurbishment offer, Sulzer possesses in-house and mobile balancing machines with capabilities of up to 100 tons.



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