

Turbogenerator rotor wind hole plug

Who makes turbogenerator rotor windings?

NEC is experienced with the manufacture of turbogenerator rotor windings: copper or aluminum; directly or indirectly cooled. At our Columbus Rotating Equipment Service Center, we have made a significant investment in design, equipment and process development for our turbogenerator rotor winding manufacturing line.

What are the design options for turbogenerator windings?

Below are outlined the typical design options for turbogenerator windings. Many successful rotor rewinds are accomplished by refurbishing the existing copper or aluminum conductors. Conductors are cleaned, polished, inspected and tested, and if found suitable, repaired, straightened and re-arched.

Can a generator rotor be converted to a direct cooled winding?

Depending on the design of the rotor, in some cases it is possible to convert to a direct-cooled winding. Converting involves machining subslots in the rotor forging below the coil slots. Because of rotor geometry and size, this modification is not possible on all rotors. Q. Is there asbestos in generator rotor insulation and blocking materials?

How to detect faults in windings of turbogenerator rotors?

CONCLUSION The presented test methods show that there is not a single preferred method for detecting faults in windings of turbogenerator-rotors. The measurements in summary or a combination of test methods can lead to a thorough diagnosis of a functioning rotor.

Why do Generator rotors have aluminum windings?

Aluminum alloy (con-dal) windings were incorporated on some generator rotors, enabling the rotor size and ratings to increase and still allow conventional indirect cooling to be used in the design of these units. These units have provided many years of reliable operation.

What is the ISO 9001 certification for turbogenerator rotor winding?

At our Columbus Rotating Equipment Service Center, we have made a significant investment in design, equipment and process development for our turbogenerator rotor winding manufacturing line. This includes the achievement of ISO 9001:2008 certification for our quality management systems.

Turbo Generator Working Principle. The turbo generator works on the Electromagnetic Induction principle. Once this turbine is connected to the electrical generator then kinetic energy (K.E) of the vapor drives in opposition ...

The rotor system of turbo-generator is the core part of energy and power equipment. Its shafting vibration is of great significance to the safe and efficient operation of turbo-generator. With regard ...

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A 20 × 20 × 20 m, cubic computational domain centred at the rotor's origin was created, and a local mesh region was implemented for better control over flow capture and heat transfer at the rotor's surface, ...

The rotor body edge is provided with 60% of longitudinal slots with field winding. The rotor is a rotating part of the turbo generator thus it protects the winding from the centrifugal force ...

Purpose In this paper, the combined rotor system of turbo-generator is taken as the research object, and the variation law of interface contact stress, contact stiffness and ...

This chapter talks about inspection of the rotor, mostly while removed from the stator. It aims to serve as a guide to learning the specific problems and failure mechanisms, and their ...

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