



THERMAL STABILITY TEST :

Due to long storage or abnormal changes in operational parameters such as pressure and temperature or abnormal changes in startup or shutdown activities or due to sudden quenching of Rotors due to malfunctioning of drains, the Rotors can get bent.

This results in non- co-axiality of Geometric axis and Mass axis of the Rotor resulting in non uniform stresses and ultimate rejection of Rotors from operation.

Hence it is recommended to remove the bend by stress relieving operation so as to make the geometric and mass axis coaxial.



Before bend removal
(103mm bend)



After bend Removal

In our In-House PLC based thermal stability test Facility, with online digital display for monitoring of Run-out measurement as per the latest technology, we undertake removal of bend in the Rotors by predetermined thermal cycles based on Material of construction and size of Rotor by heating, soaking and cooling till the uniform metallurgical transformation is achieved and there by the bend is brought down to the design values.

By this method, all the induced stresses are totally relieved and Mass axis and Geometric axis are made coaxial within limits.

This makes the rotors to operate at original specifications. We have undertaken several Rotor bend removals with bends varying from 0.1 mm up to 104mm. and subsequently all the Rotors are in operation in excellent condition.