| Area | Risk | Inspection | Action |
|---|---|---|---|
| Coupling bolts | ▪ Bolt breakage<br>▪ Increased vibrations<br>▪ Severe damage | ▪ Elongation values<br>▪ Ultrasonic inspection<br>▪ Magnetic inspection | ▪ Component replacement |
| **Press-fit diameters** :<br>▪ Rotor coupling<br>▪ Compressor discs and shaft<br>▪ Turbine wheels and shaft<br>▪ Struts | ▪ Fatigue<br>▪ Cracking<br>▪ Increased vibration and destruction of rotor components | ▪ Dimensional<br>▪ Tightening values<br>▪ Metallurgic microanalysis<br>▪ XRF analysis | ▪ Repair |
| **Turbine Wheels**<br>▪ Fir tree root<br>▪ Internal faces<br>▪ Seals | ▪ Fatigue<br>▪ Turbine blade breakage<br>▪ Breakage and rupture of the wheel<br>▪ Abnormal temperature increase in between the wheels | ▪ Corrosion specific inspection<br>▪ Determination of rocking values<br>▪ Blade slot wear rate (of fir tree)<br>▪ Magnetic inspection<br>▪ Ultrasonic inspection<br>▪ Metallurgic microanalysis<br>▪ XRF analysis<br>▪ Hardness | ▪ Component repair or replacement |