

Job Description – Production Engineer (Gear Boxes)

Position: Production Engineer – Gear Boxes

Department: Production

Industry: Industrial Equipment Manufacturing /Cooling Tower Manufacturing

Location: Nuh, Haryana

Job Summary

The Production Engineer – Gear Boxes is responsible for planning, coordinating, and supervising the manufacturing, assembly, testing, and quality control of cooling tower gearboxes. The role ensures production is completed safely, efficiently, and in accordance with engineering specifications, quality standards, and delivery schedules.

Skills Required:-

- **8+ years** of experience in gearbox manufacturing, assembly, or heavy engineering production.
- Experience in **Cooling Towers, Industrial Gearboxes, Power Transmission Equipment, Pumps, Rotating Equipment, Heavy Engineering, Process Equipment, or Capital Goods Manufacturing** will be preferred.
- Sound knowledge of gearbox manufacturing and assembly processes.
- Knowledge of gears (helical, bevel, spur), shafts, bearings, couplings, oil seals, and lubrication systems.
- Ability to read engineering drawings, assembly drawings, BOMs, and GD&T.
- Understanding of gear meshing, backlash, shaft alignment, bearing fitments, and torque requirements.
- Experience with precision measuring instruments such as micrometers, dial indicators, bore gauges, height gauges, and vernier calipers.
- Familiarity with gearbox testing procedures including vibration analysis, noise measurement, oil leakage testing, and performance testing.
- Knowledge of production planning, process control, Lean Manufacturing, Kaizen, TPM, and 5S.
- Working knowledge of MS Office and ERP systems (SAP or equivalent preferred).

Key Responsibilities

1. Plan and supervise the production, assembly, and testing of cooling tower gearboxes as per the production schedule.
2. Coordinate machining, assembly, inspection, and final testing activities for gearbox components.
3. Ensure proper assembly of gears, shafts, bearings, housings, seals, couplings, and lubrication systems as per engineering drawings.
4. Monitor production progress and ensure timely completion of gearbox manufacturing to meet customer delivery commitments.
5. Verify dimensional accuracy and tolerances of gearbox components using appropriate measuring instruments.

6. Ensure adherence to assembly procedures, torque specifications, alignment standards, and quality requirements.
7. Coordinate with the Design, Planning, Purchase, Stores, Quality, and Maintenance departments for smooth production operations.
8. Monitor machine utilization, productivity, rejection, rework, and process efficiency, implementing corrective actions where necessary.
9. Conduct in-process inspections and final quality checks to ensure compliance with customer specifications and company quality standards.
10. Supervise gearbox performance testing, load testing, noise and vibration checks, temperature monitoring, and oil leakage inspections.
11. Ensure correct filling and maintenance of lubrication systems using specified grades of lubricants.
12. Investigate production issues, assembly defects, and test failures, and implement root cause analysis and corrective actions.
13. Maintain daily production reports, assembly records, testing reports, and production MIS.
14. Ensure compliance with safety regulations, PPE usage, housekeeping (5S), and statutory requirements.
15. Coordinate preventive maintenance of assembly fixtures, testing equipment, and production machinery.
16. Optimize production processes to improve productivity, reduce manufacturing costs, and minimize rejection and rework.
17. Train technicians and operators on gearbox assembly techniques, quality standards, safety practices, and standard operating procedures.
18. Support new product development, prototype assembly, process validation, and continuous improvement initiatives.
19. Participate in internal and external quality audits and ensure compliance with ISO 9001, ISO 14001, and Occupational Health & Safety Management Systems.
20. Ensure all gearbox documentation, inspection records, and test certificates are maintained accurately for customer and internal audits.

Educational Qualification

- Diploma/B.E./B.Tech in Mechanical Engineering or Production Engineering.