

## SOP-QC-001: Incoming Material Inspection

PURPOSE: Verify incoming raw materials meet specifications

SCOPE: All incoming brake rotor blanks and casting materials

### PROCEDURE:

1. Check delivery documentation against purchase order
2. Verify material certificates and heat treatment records
3. Perform visual inspection for cracks, porosity, inclusions
4. Conduct dimensional checks using CMM station
5. Test sample hardness (HRC 45-50 required)
6. Accept/reject decision and material routing
7. Update inventory system with inspection results

### ACCEPTANCE CRITERIA:

- All dimensions within  $\pm 0.1\text{mm}$  of specification
- Surface finish  $R_a \leq 0.8\text{mm}$  on machined surfaces
- No visible cracks or defects  $> 1\text{mm}$