

# Quality Inspection Work Instruction

## Machined Parts

Document No.: \_\_\_\_\_

Revision: \_\_\_\_\_

Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Approved by: \_\_\_\_\_

### 1. Purpose

To ensure that machined parts meet the required specifications and quality standards prior to release.

### 2. Scope

This instruction applies to all machined parts produced in-house or received from suppliers.

### 3. References

- Engineering Drawing / Specification
- Quality Manual
- Inspection Standard / Gauge List

### 4. Inspection Tools

- Vernier Caliper
- Micrometer
- Height Gauge
- Gauge Blocks / Pin Gauges
- Surface Finish Gauge

### 5. Procedure

#### 1. Visual Inspection

- Check for physical damage, burrs, scratches, or other defects.
- Ensure part is clean and free from contaminants.

#### 2. Dimensional Inspection

- Verify all critical dimensions as per drawing using calibrated measuring tools.
- Record measurements in the inspection report.

#### 3. Surface Finish & Tolerance Check

- Examine surface finish as specified in the drawing.
- Check geometric tolerances (flatness, roundness, etc.).

#### 4. Functional Check (if applicable)

- Fit and function checks per requirement.

#### 5. Marking & Identification

- Mark inspected parts according to procedure.

#### 6. Documentation

- Record all results and deviations in the inspection report.
- Report any non-conformance as per procedure.

### 6. Inspection Record (Sample)

Part Number	Drawing Rev.	Characteristics	Spec./Tolerance	Measured Value	Status	Inspector	Date

Inspector Signature: \_\_\_\_\_

Date: \_\_\_\_\_