

# Inspection Report INS-2026-0001

LOT-2026-0912, LEG against DRW-LEG-002 revision C, fictional report for parser testing

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Inspection report | INS-2026-0001                                       |
| Lot               | LOT-2026-0912                                       |
| Part              | LEG Leg                                             |
| Drawing           | DRW-LEG-002 revision C                              |
| Work order        | BUILD-1                                             |
| Lot size          | 16 legs, the quantity issued to BUILD-1 and BUILD-2 |
| Sample size       | 5 of 16, per sampling-plan.csv                      |
| Characteristics   | 5                                                   |
| Readings          | 25                                                  |
| Failures          | 2                                                   |
| Disposition       | nonconformance raised, see NCR-2026-0001            |

Fictional manufacturing and quality records generated for file-parsing tests. No part was made, no measurement was taken, and the drawing, lot and certificate references are invented.

## Characteristics and limits

| Ref  | Characteristic                | Nominal  | Upper limit | Lower limit | Gauge             |
|------|-------------------------------|----------|-------------|-------------|-------------------|
| CH-1 | Leg length                    | 700.0 mm | 700.500     | 699.500     | vernier caliper   |
| CH-2 | Leg diameter                  | 40.0 mm  | 40.200      | 39.800      | micrometer        |
| CH-3 | Fixing hole position from end | 25.0 mm  | 25.300      | 24.700      | height gauge      |
| CH-4 | Squareness of the foot        | 90.0 deg | 90.500      | 89.500      | square and feeler |
| CH-5 | Surface roughness             | 1.6 Ra   | 2.000       | 1.600       | roughness tester  |

## Readings

| Ref  | Sample | Measured | Deviation | Upper limit | Lower limit | Result |
|------|--------|----------|-----------|-------------|-------------|--------|
| CH-1 | 1      | 700.21   | +0.210    | 700.500     | 699.500     | pass   |
| CH-1 | 2      | 699.83   | -0.170    | 700.500     | 699.500     | pass   |
| CH-1 | 3      | 700.12   | +0.120    | 700.500     | 699.500     | pass   |
| CH-1 | 4      | 700.04   | +0.040    | 700.500     | 699.500     | pass   |
| CH-1 | 5      | 699.95   | -0.050    | 700.500     | 699.500     | pass   |
| CH-2 | 1      | 40.07    | +0.070    | 40.200      | 39.800      | pass   |
| CH-2 | 2      | 39.92    | -0.080    | 40.200      | 39.800      | pass   |
| CH-2 | 3      | 40.11    | +0.110    | 40.200      | 39.800      | pass   |
| CH-2 | 4      | 40.03    | +0.030    | 40.200      | 39.800      | pass   |
| CH-2 | 5      | 39.98    | -0.020    | 40.200      | 39.800      | pass   |
| CH-3 | 1      | 25.12    | +0.120    | 25.300      | 24.700      | pass   |
| CH-3 | 2      | 24.94    | -0.060    | 25.300      | 24.700      | pass   |

| Ref  | Sample | Measured | Deviation | Upper limit | Lower limit | Result |
|------|--------|----------|-----------|-------------|-------------|--------|
| CH-3 | 3      | 25.41    | +0.410    | 25.300      | 24.700      | fail   |
| CH-3 | 4      | 25.06    | +0.060    | 25.300      | 24.700      | pass   |
| CH-3 | 5      | 24.97    | -0.030    | 25.300      | 24.700      | pass   |
| CH-4 | 1      | 90.21    | +0.210    | 90.500      | 89.500      | pass   |
| CH-4 | 2      | 89.86    | -0.140    | 90.500      | 89.500      | pass   |
| CH-4 | 3      | 90.09    | +0.090    | 90.500      | 89.500      | pass   |
| CH-4 | 4      | 90.33    | +0.330    | 90.500      | 89.500      | pass   |
| CH-4 | 5      | 89.94    | -0.060    | 90.500      | 89.500      | pass   |
| CH-5 | 1      | 1.72     | +0.120    | 2.000       | 1.600       | pass   |
| CH-5 | 2      | 1.65     | +0.050    | 2.000       | 1.600       | pass   |
| CH-5 | 3      | 1.81     | +0.210    | 2.000       | 1.600       | pass   |
| CH-5 | 4      | 1.64     | +0.040    | 2.000       | 1.600       | pass   |
| CH-5 | 5      | 1.58     | -0.020    | 2.000       | 1.600       | fail   |

## Findings

The readings that fail are CH-3 sample 3 measured 25.41, above the upper limit of 25.300 by 0.110; CH-5 sample 5 measured 1.58, below the lower limit of 1.600 by 0.020. Every other reading is inside both limits.

## Disposition

The affected legs are quarantined and a nonconformance report is raised. The remaining legs in the lot are accepted, so the work order completes with a concession recorded rather than being scrapped.