

Measurement Instrument for Quality Assurance

1. Quality assurance and measurement tools

Quality assurance of the products is built on the company members' quality awareness and the facility management. In FUTA-Q, the products are inspected for their geometric tolerances, performance, or appearance both in process and upon the delivery using measurement instruments which are maintained and managed by the Quality Management Division in Yagi Factory.

2. Measurement Instruments for the final inspection in Yagi Factory

A. CNC Coordinate Measuring Machine (mfd. by Mitutoyo)

Using a measuring probe which is movable in three dimensions, the three-dimensional coordinates of the points on a product surface are measured. The probe can be rotated so that measurements can be done with a suitable angle. This is often used to measure a parallelism or squareness.

B. Surface Texture and Contour Measuring Instrument (mfd. by Tokyo Seimitsu)

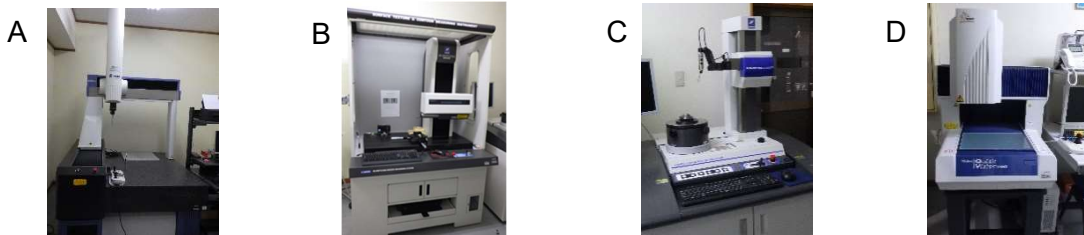
The contour and surface condition of a product are measured by a probe which contacts along with the product surface. The surface roughness or curvature radius is measured by this instrument.

C. Roundness and Cylindrical Profile Measuring Instrument (mfd. by Tokyo Seimitsu)

The coaxial degree, circularity, and centering of a cylindrical product are measured by a probe which moves up/down and front/back. The coaxial degree between the nozzle part and the holder part of a nozzle product is measured by this instrument.

D. CNC Vision Measuring System (mfd. by Mitutoyo)

The length, parallelism, flatness, circularity, and symmetry of a product are measured with a high-resolution camera with auto-focusing lenses which can follow the vertical movement of the probe.



3. Calibration management

The measuring instruments are maintained in accordance with the "Measuring Instrument Management Regulation" based on the ISO9001.

Pin gauge management

1.500 (left)
1.495 (middle)
1.490 (right)



Measurement tool management



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