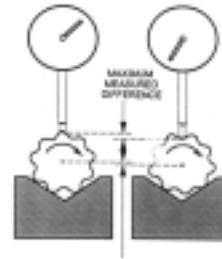


# Roundness measurement

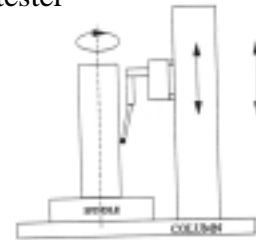
## How is roundness measured?

To measure roundness, rotation is necessary coupled with the ability to measure change in radius. This is best achieved by comparing the profile of the component under test to an accurate circular datum.

- a) Measuring deviation of the workpiece's diameters by vernier calipers
- b) Recording deflection of a dial test indicator to detect the out of roundness of the workpiece



- c) Obtaining actual circular profile the workpiece by roundness tester
  - i. leveling and center of workpiece
  - ii. Roundness measurement



## Results

- 1) by a vernier caliper

Part	Actual diameter	Measured diameter #1	Measured diameter #2	Measured diameter #3

- 2) by a dial test indicator

Part	Maximum value	Minimum value	Run out	

- 3) by a roundness tester

Q: Discuss and compare the above three roundness measuring methods.

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