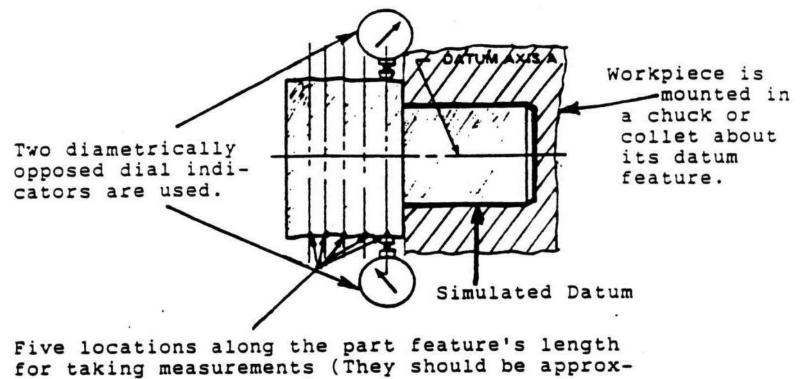


Concentricity Measurement

Measuring Method



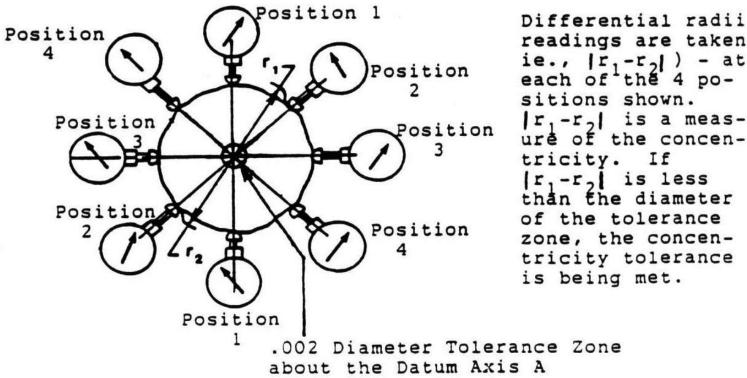
imately evenly spaced.)

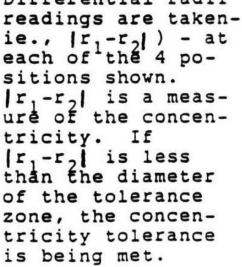




Concentricity Measurement

Measuring Method

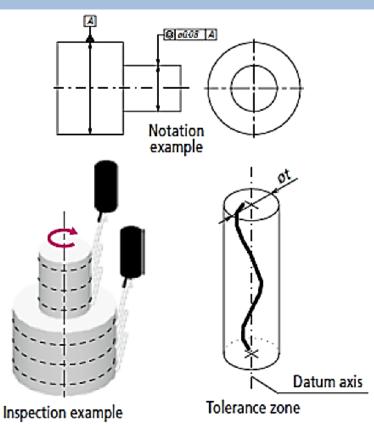








Coaxiality Measurement

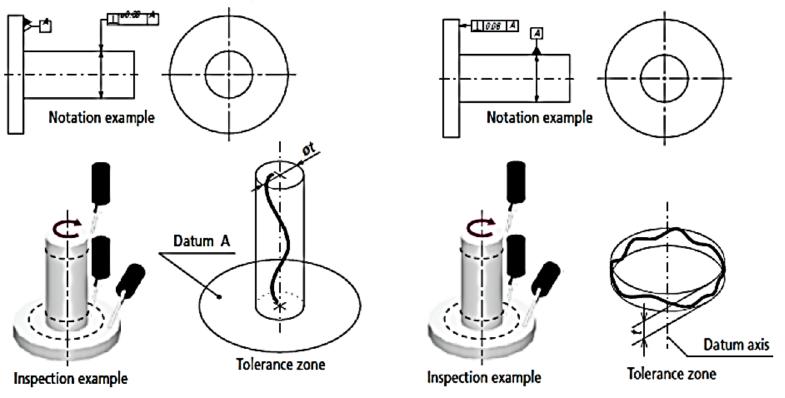


Coaxiality: the axis must be contained within the tolerance zone formed by a cylinder of diameter t concentric with the datum





Perpendicularity Measurement

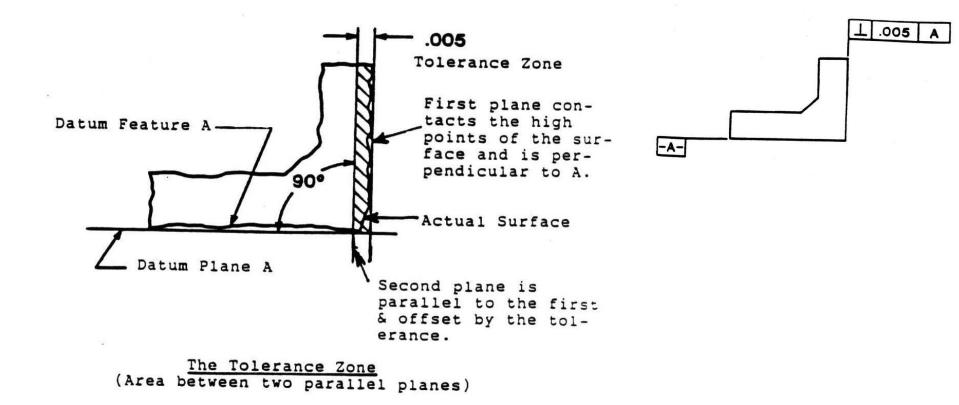


Perpendicularity: the line or surface must be contained within the tolerance zone formed between two planes a distance *t* apart and perpendicular to the datum





Perpendicularity Measurement



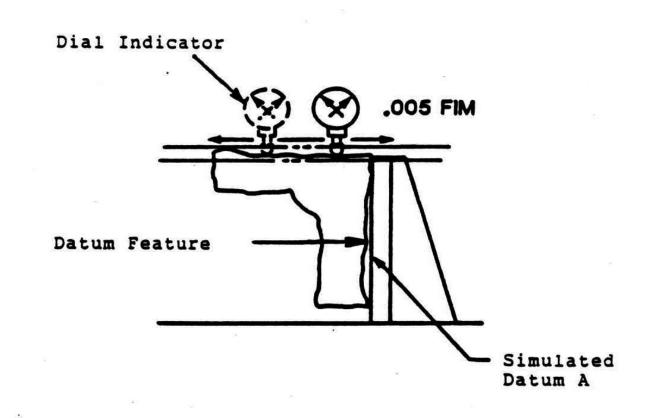


Lecture (5) – Measurements and Metrology– 2nd year – Industrial.



Perpendicularity Measurement

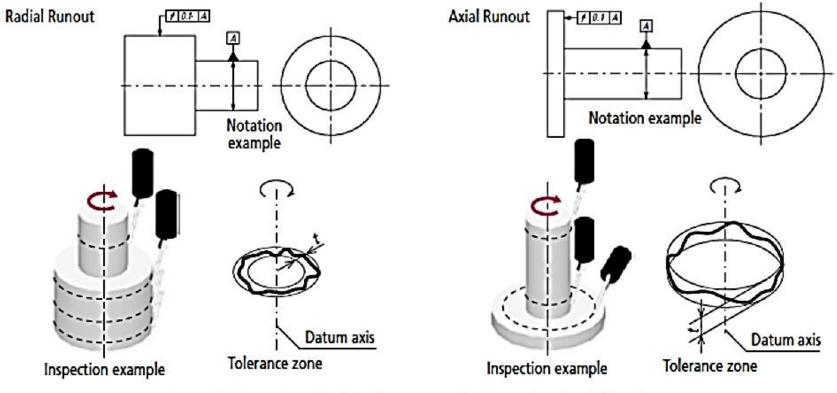
Measuring Method







Circular Runout Measurement



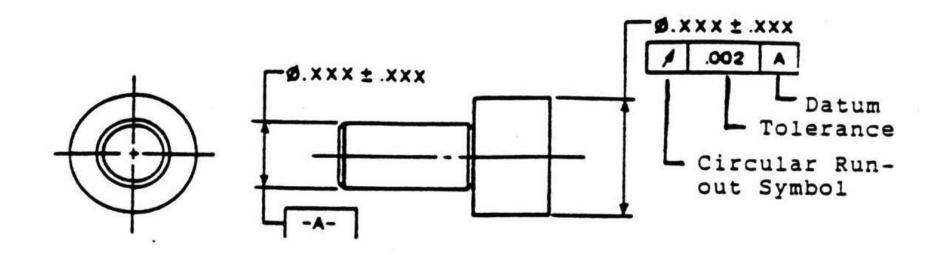
Circular Runout: the line must be contained within the tolerance zone formed between two coplanar and/or concentric circles a distance t apart with or perpendicular to the datum





Circular Runout Measurement

Specification



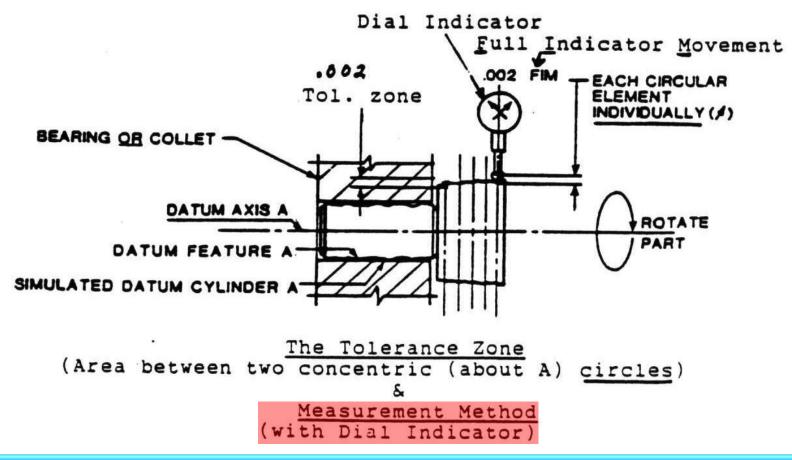




Circular Runout Measurement

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Tolerance



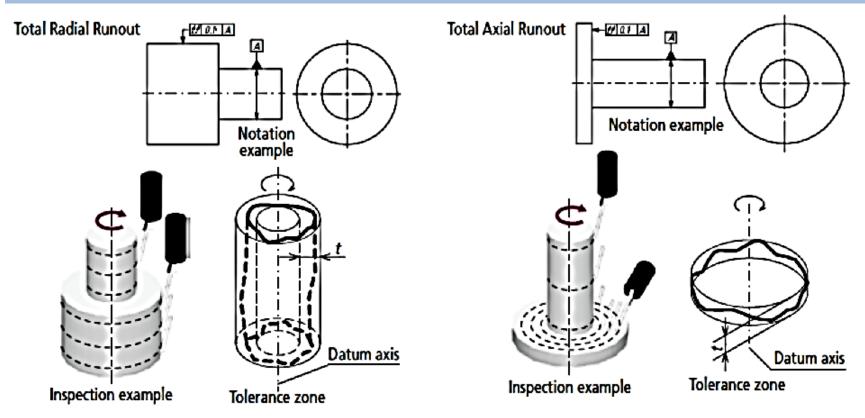


Lecture (5) - Measurements and Metrology- 2nd year - Industrial.



Total Runout Measurement

30



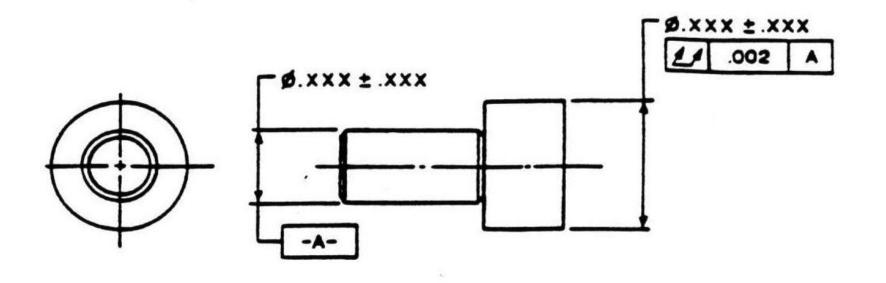
Total Runout: the surface must be contained within the tolerance zone formed between two coaxial cylinders with a difference in radii of t or planes a distance t apart concentric with or perpendicular to the datum





Total Runout Measurement

Specification



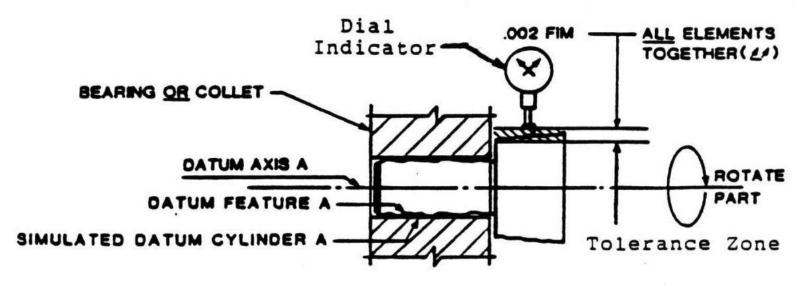




Total Runout Measurement

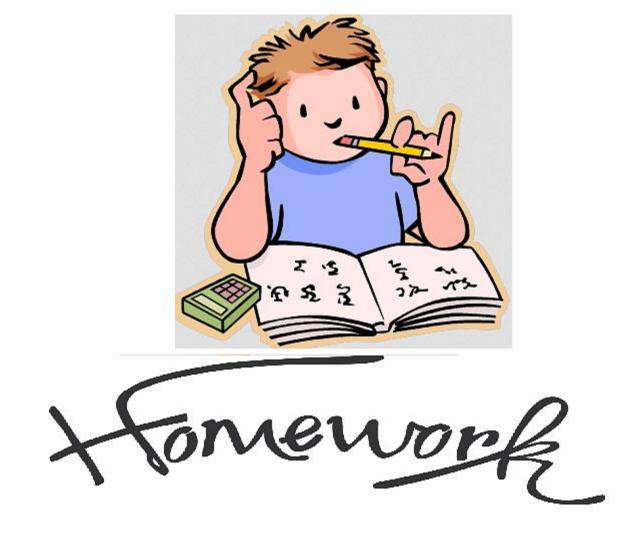
32

Tolerance



The Tolerance Zone (Area between two concentric (about A) <u>cylinders</u>) & <u>Measurement Method</u> (with Dial Indicator)





Homework



HW (5)

Explain the working principle of auto-collimator and briefly explain its application and How angle dekkor differ from auto-collimator?



