

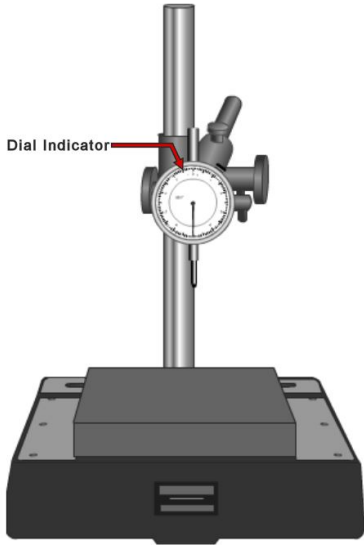
Bench Comparators Training | Quality Assurance eLearning

Introduction to Bench Comparators - WXMT206-XX01XEN-E2


Objective 1: Define Bench Comparator and Explain Its Function and Benefit to Production

Definition and Name

A bench comparator is an inspection instrument that holds a measuring device such as a dial or test indicator. It allows an accurate comparison between a **workpiece** and a known **standard**.



The diagram shows a bench comparator, which is a heavy-duty metal base with a vertical column. A dial indicator is mounted on the column. A red line points from the text 'Dial Indicator' to the dial face. The entire unit is labeled 'Bench Comparator' at the bottom.

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eLearning Course: MXMT206

Amatrol's Bench Comparators eLearning Multimedia Courseware (MXMT206) focuses on the types and uses, components and accessories, and best practice uses and applications of bench comparators. The in-depth online learning specifically covers the function and benefit of bench comparators in production, the components of a bench comparator, measuring instruments used with a bench comparator, and how to align a bench comparator and measure a workplace dimension.

Teach Bench Comparators

What are Bench Comparators?

A bench comparator is an inspection instrument that holds a measuring device, such as a dial or test indicator. It allows an accurate comparison between a workpiece and a known standard. A bench comparator also checks the form of the workpiece, such as roundness and parallelism. It gets its names because it does not measure a feature directly, like a micrometer, but instead "compare" a feature's size to a setting master, such as a gauge block.

In addition to being used for rapid inspection and quality control, bench comparators are also used to measure the following:

- A single length or height of a workpiece
- Parallelism of a surface to another surface
- The difference between two heights
- The diameter of a workpiece
- The roundness of a diameter

- The taper on a diameter

The inspection process ensures part quality through accuracy, but when the inspection process takes longer than the manufacturing process, it slows down production and drives up cost. In all, bench comparators can often shorten the inspection time and improve accuracy.

Interactive eLearning

Multimedia eLearning Curriculum Features Real-World Bench Comparator Knowledge

Amatrol's peerless [interactive multimedia curriculum](#) utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts. This thorough, detailed curriculum begins with the basics and advances to complex concepts. Through partnerships with key industry leaders and leading educators, [Amatrol](#) developed the right balance of knowledge to train learners to work in their chosen field.

Additional Info

Requires:

- Computer [\(see Computer Requirements\)](#)

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