

# Specialty Micrometers eLearning | Types, Uses, and Components Training

**Specialty Micrometers - WXMT210-XX01XEN-E2**

Objective 1: Describe the Components of Specialty Micrometers

**Micrometer Barrel**

The barrel is sometimes referred to as the sleeve.

The barrel has one of two measurement scales used to measure parts.

On English micrometers, the major scale is graduated in increments of 0.25".

Each English Graduation = 0.25"

Zero Line

English Major Scale

Each Metric Graduation = 0.5 mm

Zero Line

Metric Major Scale

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## eLearning Course: MXMT210

The Specialty Micrometers eLearning course focuses on the types and uses, components and accessories, and best practice uses and applications of micrometers. Major topics of study include: standard and specialty micrometers component identification; micrometer calibration process; spot check verification process; specialty micrometers identification; which features specialty micrometers measure; and the potential sources of measurement error by specialty micrometers.

## Teach Specialty Micrometers

### What are Specialty Micrometers?

The standard micrometer is probably one of the first measuring instruments a production technician will encounter in manufacturing. It can measure a wide range of features, from outside diameters to lengths. However, the standard micrometer cannot measure all features, such as the diameter of a thin groove on a shaft, or the wall thickness of a ring. These situations require special micrometers.

Specialty micrometers are designed to fulfill unique measurement requirements. These requirements include measuring special shapes, such as threads or gears, or dimensions in limited areas, like groove diameter or the wall thickness of pipe or tubing. Even though there are usually noticeable differences between specialty micrometers and standard micrometers, there are many similarities, starting with the components.

## Interactive eLearning

### Specialty Micrometers eLearning Features Multimedia Curriculum

Amatrol's unmatched [multimedia](#) utilizes text, audio, and stunning 3D animations that engage learners in theoretical knowledge and concepts. This thorough, exceptionally detailed curriculum is built to begin with the basics and steadily advance to more complex concepts. Through partnerships with key industry leaders and

leading edge educators, Amatrol developed the right balance of knowledge needed to train learners to work in their chosen field.

## **Additional Info**

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### **Requires:**

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