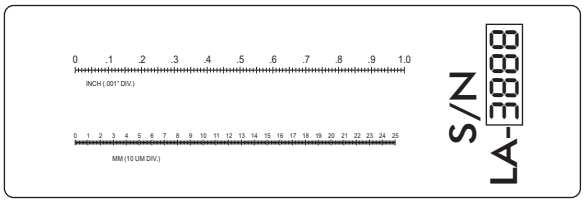
# Stage Micrometers

## For Stereo and Compound Microscopes, Metallographs, Video and Automatic Measuring Systems

Stage Micrometers are microscopic rules used as length standards when calibrating or verifying Image Analyzers, Automatic Micro/Macro Hardness Testers, Video Measuring Systems, Video Prints, or Measuring Reticles.

### Dual Use

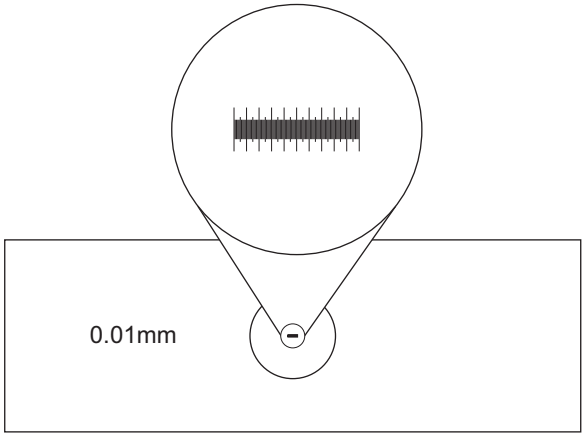
Suitable for use with low AND high magnification systems. Calibrated at 0.010 mm (10 µm), 0.10 mm, 0.001 inch, and 0.01 inch increments. Appears as black lines on a white background in reflected light, and white lines on a dark background in transmitted light. Glass insert in a 1" X 3" metal slide for durability.




*Reference LECO Stage Micrometer Part Number 863-783-146*
*Traceable LECO Stage Micrometer Part Number 863-783-146CERT*

### High Magnification Applications

A 1 mm full scale optimized for reflected light. Each increment is 0.010 mm (10 µm). Appears as black lines on a white background. Glass insert in a 1" x 3" metal slide for durability.



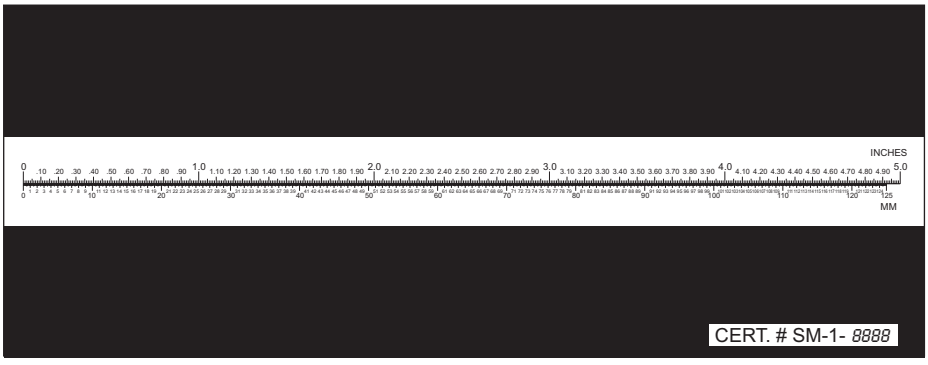

*Reference 1 mm Stage Micrometer Part Number 860-256*
*Traceable 1 mm Stage Micrometer Part Number 860-256-110*

English and Metric scales in a crosshair configuration optimized for transmitted light. White lines on a darker background. Minimum English increment is 0.0005 inch. Minimum Metric increment is 0.010 mm (10 µm). 1" x 3" glass slide.

*Reference Crosshair Stage Micrometer Part Number 861-377*

### Low Magnification (Macro) Applications

English and Metric scales.
English scale is 5 inches long with graduations at each 0.010 inch.
Metric scale is 125 mm long with graduations at each 0.10 mm.
2" x 6" glass plate.




*Reference Macro Stage Micrometer Part Number 861-249-101*
*Traceable Macro Stage Micrometer Part Number 861-375-110*

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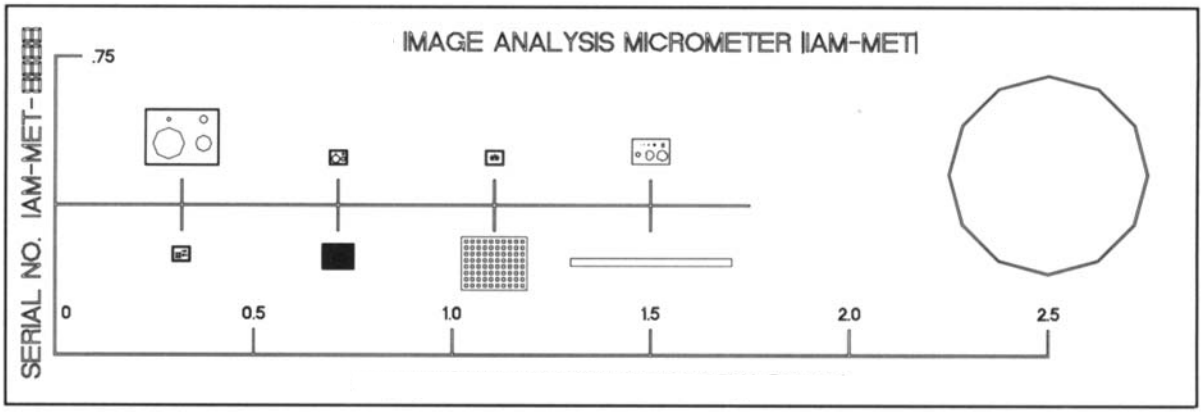
## Image Analysis Standard 861-249-107

| Test Plate | Frame True Size | Description |
|---|---|---|
| 1 | 4600 x 3500 µm | CIRCLES with diameters of 2000, 1000, 500, 250 µm; available for secondary certification on special request; Reference |
| 2 | 1000 x 800 µm | CIRCLES with diameters of 500, 250, 125, 62.5 µm; available for secondary certification on special request; Reference |
| 3 | 1000 x 800 µm | BARS of 200 x 20 µm with 30 degree angles; Reference |
| 4 | 2400 x 1620 µm | RANDOM SHAPES: approximately 5, 15, 35, 75, 150, 250, 300, 600, 675 µm high; Reference |
| **Test Plate** | **Frame True Size** | **Description** |
| 5 | 4000 x 3200 µm | SQUARES of sizes of 100, 40, 20 µm (two sets); Reference |
| 6 | 2050 x 1650 µm | GRID Pattern with 50 µm holesand walls; Reference |
| 7 | 4200 x 3400 µm | GRID Pattern with 200 µm holes and walls; Reference |
| 8 | 10,000 µm long | SCALE (Stage Micrometer) with 10 µm division—10,000 µm long; Traceable |

**Grain Size/Nodularity Standard**

TEST PLATE #4 has nine randomly generated shapes to stimulate granular features ideally suited for metallurgical calibration where dimensional shapes to be measured with accuracy (see Figure 1 below).




**IAM-1-MET-1**

Traceable – Provided with accredited calibration certificate(s) containing actual measurements for the nominal division markings. Uncertainties are included for each value reported. For routine calibration of critical measurement systems of users subject to audit, or requiring the utmost in accuracy.

Reference – No documentation provided. For routine calibration and verification of non-critical measurement systems.

*Specifications and part numbers may change.*
*Consult LECO for latest information.*

**LECO Corporation**
**3000 Lakeview Avenue • St. Joseph, MI 49085 • Phone: 800-292-6141 • Fax: 269-982-8977**
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