



190 Series Optical Micrometers

Fits Brunson style instruments

The **190** optical micrometer translates the line of sight laterally with an accuracy of $\pm 0.0005''$ using an optical flat. The cast aluminum housing has a 1.655" opening to fit the telescope barrel of all Brunson optical tooling transits and levels. Adapters are available which allow this micrometer to be used with a variety of theodolites as well. Any of four machined slots in the housing (located at the 12, 3, 6, and 9 o'clock positions) fit over a locating pin on Brunson telescope barrels for quick and accurate indexing of the micrometer to a horizontal or vertical position. A precision glass window acts as a dust cover to protect the optical flat inside. Refer to the table below for descriptions of the various models in this series.



Micrometer for Leica T-2 theodolite. We have adapted our 190 for use with the Leica T-2 (see 190-W in table below). This micrometer has been modified with a larger bore to fit the Leica telescope barrel, and is finished with green polyurethane paint. *Note: Except as noted in the table below, the 190 micrometers fit Brunson style instruments only.*

Micrometer configurations available

Model	Range	Reads to...	Accuracy	Comment
190	$\pm 0.100''$	0.001"	$\pm 0.0005''$	-
190-M	$\pm 2.5 \text{ mm}$	0.02 mm	$\pm 0.01 \text{ mm}$	Metric
190-20	$\pm 0.020''$	0.0002"	$\pm 0.0001''$	-
190-50	$\pm 0.050''$	0.0005"	$\pm 0.00025''$	-
190-W	$\pm 0.100''$	0.001"	$\pm 0.0005''$	Fits only Leica T-2, pictured at right



Specifications

Finish: Polyurethane - gray textured (except as noted in table above)

Knob and front ring: Clear anodized aluminum

Approximate weight: micrometer, 1 lbs (0.45 kg); shipping, 2 lbs (0.91 kg).

May be used with...

- 76-RH Transit
- 545-x Precision Tilting Level
- 15206 Micrometer Adapter
- Also the following discontinued transits: 75-H, 771-H, 376RHN