

Single-Axis Scanning Laser Micrometers

Single-axis (also called single-plane) models make measurements from a single viewpoint. The product to measure is perpendicular to the measurement field. (See the associated image.) Typically, the micrometer is used to measure product diameter and position. To see illustrations and explanations of these and other common measurement types available with single-axis scanning laser micrometers, visit the [Measurements](#) page.

Single-axis models offer the most application and installation flexibility:

- Measure any material, even clear and translucent products (**glass logic** is a software option included at no charge with all systems)
- Use in-process or for benchtop/offline applications
- Measurement accuracy and micrometer operation are unaffected by line speed
- Mount in any orientation
- Multiple mounting surfaces with precision locating holes for flexible mounting and attachment of accessories
- Choose from seven different models
- Can be used with the [Total Vu™ HMI](#) for complete product and process monitoring, [reporting](#), and [control](#)
- Can be used with a [SmartLinc™ processor](#) for an intelligent interface via industrial communication protocols
- Available with Ethernet-based [NetLinc™](#) signal interface
- Models with separate transmitter and receiver components offer even greater flexibility in mounting and clearance from obstructions, moving or hot products
- Models with separate transmitter and receiver allow co-planar mounting of multiple units, even up to six, to construct a virtual multi-axis gauge for [flaw detection](#), better average diameter, or special product profiles

Notable applications of single-axis micrometers include:

- [Multi-strand](#) measurement of magnet wire, monofilament or other multi-die extrusion
- Convoluted and armored product measurement
- Hot steel
- Stranded wire and wire rope
- Drawn wire

Four-Year Warranty!

The robust design of LaserLinc laser micrometers ensures reliable operation in harsh manufacturing environments. All are covered by an industry-leading FOUR-YEAR warranty that covers all parts and labor. For warranty details, including LaserLinc's "spare-in-the-air" replacement offer, visit the [Warranty and Service](#) page.

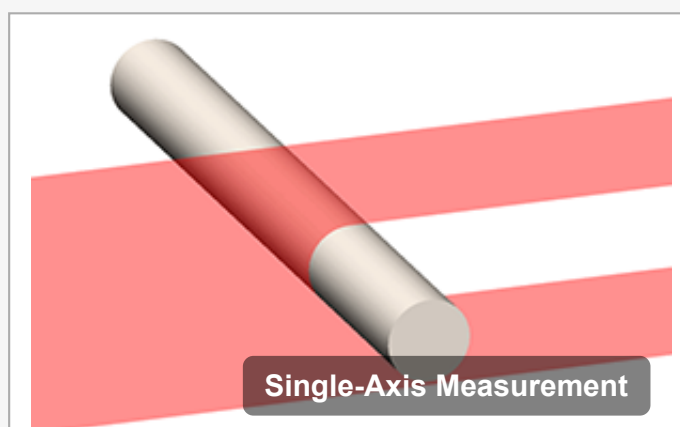
Model Overview

LaserLinc offers seven different single-axis micrometer models. The TLaser103™ micrometer measures the smallest products, such as fine wire and monofilament diameters as low as 0.0006 inches [0.015 mm / 15µm]. The TLaser1240™ micrometer measures very large products such as PVC and steel pipe up to 9 inches in diameter [228mm].

These model numbers begin with **1** (the number of axes of measurement), followed by the approximate gate size (in millimeters), with an **s** appended on those with separate housings for transmitter and receiver. The matrix below shows single-axis models by measurement range and measurement rate.

Click a model name in the Model column to access its specifications and drawings:

	Inches		Metric (mm)		Measurement Rate (Hz) ¹	
Model Name	Minimum Part Size	Maximum Part Size	Minimum Part Size	Maximum Part Size	Standard	Options
TLaser103™	.0006	.0866	.015 [15µm]	2.2	1,200	2,400
TLaser122™	.0015	.866	.038	22	400	
TLaser122s™	.003	.866	.076	22	400	
TLaser130s™	.007	1.15	.178	29.2	1,600	4,000
TLaser160s™	.010	2.3	.254	58	1,600	4,000



Resources

[Triton™ triple-axis micrometers](#)

[Dual-axis micrometers](#)

[Micrometer interfaces](#)

[Operating principle](#)

[Accessories](#) including roller guides, stands, calibration kits, window guards, and air purges

[Product safety standards](#) (e.g. CE, UL)

<u>TLAser1120s™</u>	.028	4.55	.711	116	1,600	4,000
<u>TLAser1240s™</u>	.036	9.1	.914	231	1,600	

¹Measurement rate is the number of times per second the measurement field is scanned.



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