

TLAserX22™ family of laser micrometers delivers total measurement control



Outfit your production line with TLAser122™, 122S and 222 Micrometers for precise quality control and flexible performance

Each of these compact LaserLinc™ 22-millimeter (.85-inch) micrometers employs advanced prism-based scanning technology that assures exceptional accuracy and repeatability. Each model is designed to work with the popular TLAser400™ Laser Micrometer Interface Card and related software.

You can rely on LaserLinc micrometers to deliver the very best gauging and processing tools to continuously measure, control, and document your product quality in real time. Our success is the result of your success—we back our products with the applications engineering and staff support necessary to keep your lines running full-time.

Compare the many features and benefits of these models on the following pages—then choose what's best for your operation.

All LaserLinc micrometers are optimized for use with the TLAser400 Interface Card, which is PC-based, to provide unparalleled processing power and flexibility at low cost. The card can process all of the measurements, without

The TLAserX22 family of gauges connected to the TLAser400 Interface Card is ready to provide reliably precise measurements with unparalleled processing power and flexibility at a low cost.

averaging, for all the micrometers connected to the PC—up to 8 per system—to assure thorough quality inspection. With the TLAser400 Interface Card, you can continue to use laser micrometers that you may already have from other manufacturers in your new LaserLinc system. Then upgrade and replace those units with LaserLinc micrometers as necessary over time.

The TLAserX22 family of micrometers provides precision non-contact measurement for a wide range of applications, such as wire, cable, automotive hose, plastic and steel pipe, medical tubing, and ribbon fiber. The complete system with gauging, interface card, and LaserLinc Operator Interface software provides powerful data processing, process control to increase productivity and improve quality, and features to document your results.



Combining this auto rotating zero chuck with the TLAser122 micrometer is one of several possible configurations for the BenchLinc™ table-top inspection system (see photo above). Ease of use and always-reliable performance make the BenchLinc system a very good investment.

TLAser122™ Micrometer is just the right choice for many measurement applications



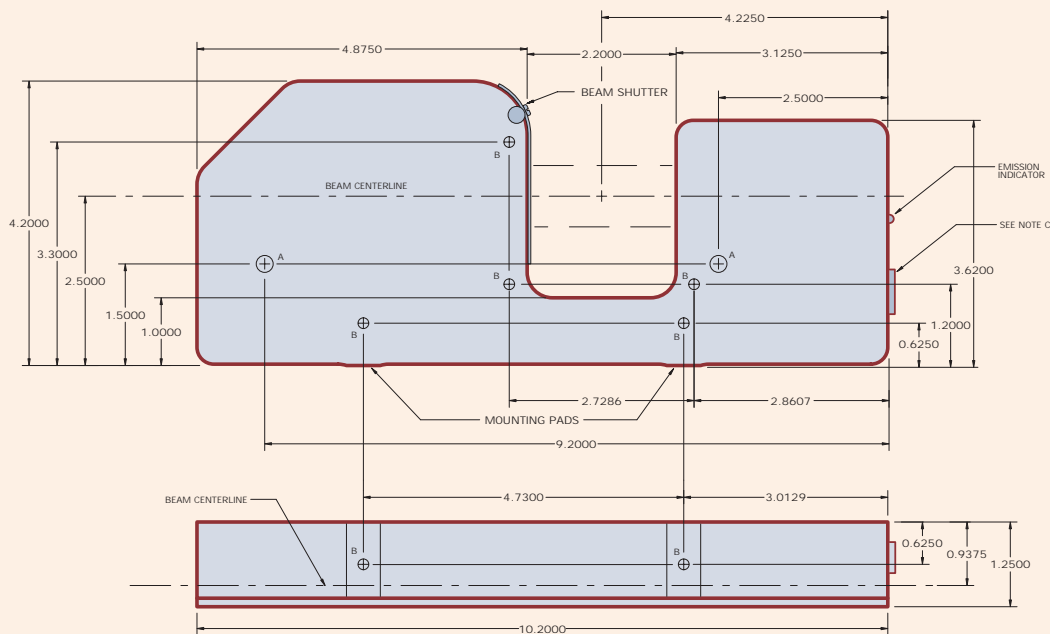
Versatility is an extremely important feature of the single-axis TLAser122 Micrometer. Like other X22 laser micrometers, this model employs an advanced prism-based scanning technology. It is designed to be extremely repeatable, accurate, compact and affordable. It's optimized for use with the TLAser400 Interface Card and accompanying software.

The TLAser122 Micrometer is a great choice for multi-strand measurement of products such as enameled wire and fiber ribbon. The LaserLinc Multi-Strand option offers 100% inspection of an unlimited number of strands using one or more micrometers.

It's also an excellent bench-top inspection system—ask about the BenchLinc system that combines the TLAser122 micrometer and auto rotating zero chuck.

The TLAser122 Micrometer provides a PC-based means for achieving unparalleled processing power, data storage and networking flexibility at low cost. You can process data at the full measurement rate of all the micrometers connected to the system—up to 8 micrometers per PC.

Contact LaserLinc for further information on how the TLAser122 Micrometer can help you consistently produce the highest quality product for your customers.



- A = Precision 0.251 tooling or fixture tool alignment holes use 0.5 depth only.
- B = 10-32 x 0.375 deep fixture or alternate mounting holes.
- C = Allow 3 inches clearance for cable connection to CPU.

TLAser122 Micrometer Specifications

- Measurement range is .003" - .85" (.075mm - 22mm)
- Resolution is .000001" (.025µm)
- Two-second measurement repeatability is ±.000005" (±.125µm)
- Single-scan measurement repeatability is ±.0001" (±.2.5µm)
- Accuracy is .00002" ±.01% of maximum measurement size
- Measurement rate is 400 measurements per second
- Weight is 2.6 lbs. (1.2kg)
- Dimensions are 10" L x 1.25" W x 4" H
- Power requirements from PC: +12VDC 125mA, +5VDC 100mA, -5VDC 75mA
- Laser Class II visible red laser diode wavelength is 675 nm

TLAser122S™ Micrometer design is best for many multi-strand and larger product lines

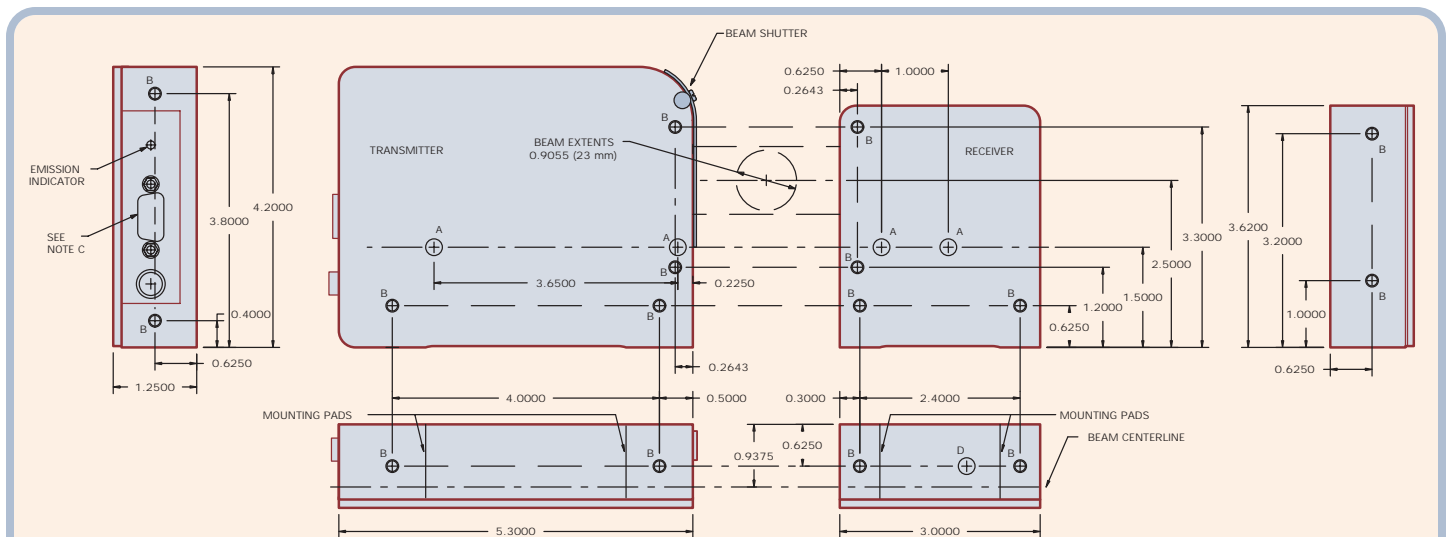


Except for its two-part housing, the single-axis TLAser122S Micrometer is nearly identical to the standard TLAser122 gauge. Separating the transmitter and receiver in their own respective units enables them to be mounted with a greater distance between them to make room for larger products and multiple assemblies.

One of the leading applications for the TLAser122S design is for multi-strand measurement systems. A large array of strands would be obstructed by the connecting base of the standard TLAser122 design.

Measuring large products is another frequent application for the TLAser 122S design as the transmitter and receiver cases can be placed to accommodate bulky products. Also, moving the two sections away from extremely hot products allows them to be measured safely.

Both the 122 and 122S models can connect to a PC by means of the TLAser400 Micrometer Interface Card to provide unparalleled processing power and flexibility at relatively low cost. This enables the PC to process data at the full measurement rate for up to 8 gauges connected to the system.



TLAser122S Micrometer Specifications

- Measurement performance specifications are subject to the separation distance between the transmitter and receiver
- Measurement range is .003" - .85" (.075mm - 22mm)
- Resolution is .000001" (.025µm)
- Two-second measurement repeatability is ±.000005" (±.125µm)
- Single-scan measurement repeatability is ±.0001" (±2.5µm)
- Accuracy is .00002" ±.01% of maximum measurement size
- Measurement rate is 400 measurements per second

- A = Precision 0.251 tooling or fixture alignment holes.
- B = 10-32 X 0.375 deep fixture or alternate mounting holes.
- C = Allow 3 inches clearance for cable connection to CPU.
- D = Allow 1 inch clearance for cable connection to transmitter.

- Weight is 2.5 lbs. (1.1kg)
- Receiver dimensions are 3" L x 1.25" W x 3.3" H, Transmitter dimensions are 5.3" L x 1.25" W x 4.2" H
- Power requirements from PC: +12VDC 125mA, +5VDC 100mA, -5VDC 75mA
- Laser Class II visible red laser diode wavelength is 675 nm

Dual-axis TLAser222™ Micrometer measures diameter in two planes and ovality for precise quality control



The TLAser222 gauge measures product diameter and position in two planes at right angles to each other—making it possible to check ovality and detect flaws continually using only one compact micrometer. LaserLinc's system design also offers the unique capability to measure multiple strands simultaneously with just one TLAser222 gauge.

LaserLinc has a Swap and Repair service policy which guarantees you that a temporary replacement unit will be shipped overnight if any TLAserX22 micrometer ever needs

factory repair.

The TLAserX22 family of micrometers employ a laser scanning system with a shorter optical path and fewer optical components. This smaller, simpler prism-based design reduces the chance of errors entering the system. The prism's more efficient optical path minimizes positional and linearity errors and is unaffected by motor wobble. This system also has no problem measuring transparent products with the same precision as opaque materials.

