

Geometry Systems TGIS-FPL® Tire Geometry Inspection System



Fixed Point Laser Int

Micro-Poise Measurement Systems, is a business unit of AMETEK, Inc. providing well known brands: Akron Standard® tire uniformity machines, Micro-Poise® tire balancing equipment and Geometry Systems laser measurement products.

Micro-Poise Measurement Systems, core customers are the major tire and automotive companies in North America, Latin America, Europe, Asia, Australia, the Middle East, and Africa.

TGIS-FPL®

Tire Geometry Inspection System
- Fixed Point Laser System

The TGIS-FPL is a reliable single point laser tire geometry measurement system. This application is designed for customers who only require a single-track measurement or whose cycle times allow for multiple measurement cycles on different tracks.

System features include:

- Improved measurement of bulges, depressions and run outs
- Highly accurate and repeatable
- Industry proven single laser sensor technology
- Can be upgraded to a TGIS-Sheet of Light System, protecting the customer's investment in the transport.

Akron Standard[®] Micro-Poise[®]





Sidewall sensor extended to 100mm

Laser



TGIS-FPL

The system uses the proven Geometry Systems Division TGIS model 16 transport with two additional motion axes to allow for the radial positioning of the sidewall sensors.

The system has been designed so that the sidewall probes cover the outer 40% of the section height of all tires up to 270 mm in section height. This includes the area in which sidewall anomalies occur in tires. This coverage is obtained with the combination of 100 mm of independent travel for each sidewall probe and a large range radial probe.

The single point laser sensor allows for a non-contact measurement system that is located safely off of the tire and is not affected by silica or humidity.

Operating Performance Specifications

Data Collection	l revolution
Max Tire Section Width	375 mm (Model 13) 450 mm (Model 16)
Laser Measurement Range Lateral Sensors: Radial Sensors:	10 mm 80 mm
Sensor Standoff Lateral Sensors: Radial Sensors:	25-35 mm I 10-190 mm
Lateral Sensor Travel (Horizontal)	108 mm
Laser Classification	II (US, CDRH) 2 (Europe, IEC60825-1)

Positioning Performance Specifications

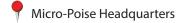
Sensor Positioning Repeatability (Horizontal)	±0.025 mm
Transport Positioning Repeatability (Horizontal)	±0.025 mm
Lateral Positioning Repeatability	±0.025 mm
Radial Positioning Repeatability	±0.025 mm

To obtain information, arrange sample testing of your product, or to schedule a demonstration and plant tour, call Geometry Systems Sales at Micro-Poise Measurement Systems, 330-541-9100 or visit us at www.micropoise.com.

Geometry Systems

Globally Positioned to Serve You

Micro-Poise Measurement Systems LLC serves the tire and automotive industry all over the world.



Corporate Offices, Stocking Locations and Services

Sales Representatives





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