

**AMETEK**<sup>®</sup>

**MicroPoise**<sup>®</sup>  
MEASUREMENT SYSTEMS

# Geometry Systems

TGIS-FPL<sup>®</sup> Tire Geometry Inspection System





# Fixed Point Laser

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	1 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 110-190 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](http://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.

-  Micro-Poise Headquarters
-  Corporate Offices, Stocking Locations and Services
-  Sales Representatives



# **AMETEK<sup>®</sup>** **MicroPoise<sup>®</sup>** MEASUREMENT SYSTEMS

Micro-Poise Measurement Systems  
USA  
555 Mondial Parkway  
Streetsboro, OH  
USA 44241-4510  
Telephone: +1-330-541-9100  
Fax: +1-330-541-9111  
Website: [www.micropoise.com](http://www.micropoise.com)

MicroPoise Measurement Systems  
Europe GmbH  
Moislinger Allee 224  
23558 Lübeck  
Germany  
Telephone: +49 451 89096 0  
Fax: +49 451 89096 24

Micro-Poise Industrial Equipment Co.  
Beijing  
Rising International Industrial Park  
#1 Building, No. 29 Jinghai 3rd Road BDA  
Beijing 100023, China  
Telephone: +86-10-67892171/72/73  
Fax: +86-10-67892239

Micro-Poise Measurement Systems  
India  
306, Delta wing, 3rd Floor  
Raheja Towers,  
177, Anna Salai,  
Chennai-600002, India  
Telephone: +91 44 4959-1000  
Fax: +91 44 4959-1021

Micro-Poise Measurement Systems  
Korea  
309, 3rd Floor, Gyeonggi R&DB Center  
906-5, Iui-dong, Yeongtong-gu,  
Suwon-city, Gyeonggi-do, 443-270, Korea  
Telephone: +82-31-888-5259  
Fax: +82-31-888-5228

Micro-Poise Measurement Systems  
Guangzhou  
Rm. 1410-1412, Yian Plaza  
33 Jian She Liu Ma Road  
Guangzhou 510060, China  
Telephone: +86-20-8384-0122  
Fax: +86-20-8384-0123