

# lobex™ LOBING DETECTION SYSTEM

## INNOVATIVE REAL-TIME SOLUTION FOR LOBING PROBLEMS

**L**obex™ is **THE** solution for lobing-detection in centerless grinding.

Lobing is deviation from roundness on a centerless ground part—an issue for anyone who produces or uses centerless-ground product.

LaserLinc's Lobex Lobing Detection System is a real-time tool for detection and elimination of lobing problems. That's right, with Lobex you can detect lobing as it occurs.

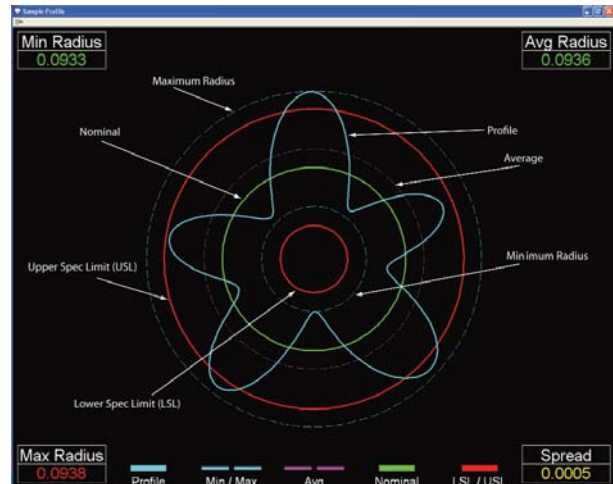
The system can identify 3-, 5-, 7-, 9- or 11-lobing on centerless ground products as they exit a grinder. This means that an operator can make the necessary adjustments to the grinder to bring the product back into spec, saving time and material.

Lobex is also ideal for offline inspection.

A Lobex system provides repeatable and reproducible data, unlike tri-mike testing, which is inconsistent and prone to user-error. The Lobex software can also identify higher-frequency lobing. Tri-mikes under-report 5-lobing, and compounding the error, 5-lobing in a product masks tri-lobing.

The Lobex system combines one of LaserLinc's 3-axis laser scan micrometers with Total Vu™ software. The software includes polar charts, trend charts, data logging, alarms, SPC, and customizable reports. Total Vu is LaserLinc's sophisticated, yet operator-friendly measurement/data processing package—which runs on any Windows-based PC.

Lobex micrometers include the Triton312, Triton330, Triton331, and Triton360. The choice of micrometer will depend upon the process and product diameter.



Lobing profile showing both 3-lobing and 5-lobing in a part.

### LOBEX SPECIFICATIONS

<b>Measurement Range</b>	Diameters from 0.005" (0.125mm) up to 2.3" (60mm)*
<b>Maximum Part Spinning</b>	4000RPM
*Micrometer will vary depending on size of material and speeds needed for testing.	

Lobex micrometers include a **four-year warranty**, parts and labor, and we offer free lifetime technical support. In virtually all cases, a temporary replacement will be shipped to you overnight if your micrometer needs warranty repair.

To prove what the Lobex system can do, interested parties can send LaserLinc a sample for a free test.

Please go to [www.laserlinc.com/lobex](http://www.laserlinc.com/lobex) to get started.

	Triton312	Triton330	Triton331	Triton360
<b>Measurement Range</b>	.004"-.40" (.1mm-10.16mm)	.004"-1" (.1mm-25.4mm)	.010"-1.18" (.25mm-30mm)	.016"-2" (.4mm-51mm)
<b>Maximum Measurement Size</b>	.47" (12mm)	1.18" (30mm)	1.18" (30mm)	2.36" (60mm)
<b>Measurements per second</b>	1800 (600 per axis)	900 (300 per axis)	4800 standard/12000 optional (1600/4000 per axis)	4800 standard/12000 optional (1600/4000 per axis)
<b>Resolution</b>	.000001" (.025µm)	.000001" (.025µm)	.000001" (.025µm)	.000001" (.025µm)
<b>Repeatability</b>				
<b>Single Scan</b>	±.0001" (±2.5µm)	±.0001" (±2.5µm)	±0.002" (±0.0508mm)	±.0004" (±.102mm)
<b>Two Second</b>	±.000005" (±1.25µm)	±.000005" (±.125µm)	±0.00001" (±.25µm)	±.00003" (±.762µm)
<b>Positional Error</b>	±.00009" (±2.286µm) within center .4" (10.16mm)	±.00009" (±2.286µm) within center 1" (27.94mm)	±0.0001" (±2.54µm) within center 1" (25.4mm)	±.0002" (±5.08µm) within center 2" (51mm)

