

# INNOVATE +VALIDATE



Diameter  
Ovality  
Wall Thickness  
Concentricity  
Eccentricity  
Inside Diameter  
Surface Flaw Detection



**Medical manufacturers** partner with us to confidently deliver high-quality products with easily integrated non-contact **measurement solutions** and proactive support.

**LaserLinc** 

GENERATION

WOW!



# FlawSense

The **re-imagined defect detection** does what vision and **other tech cannot do** because our laser-line triangulation system provides a **true 100% map of the surface**.

Mapping 100% of the surface **eliminates shape error**, a frequently overlooked problem afflicting many technologies.



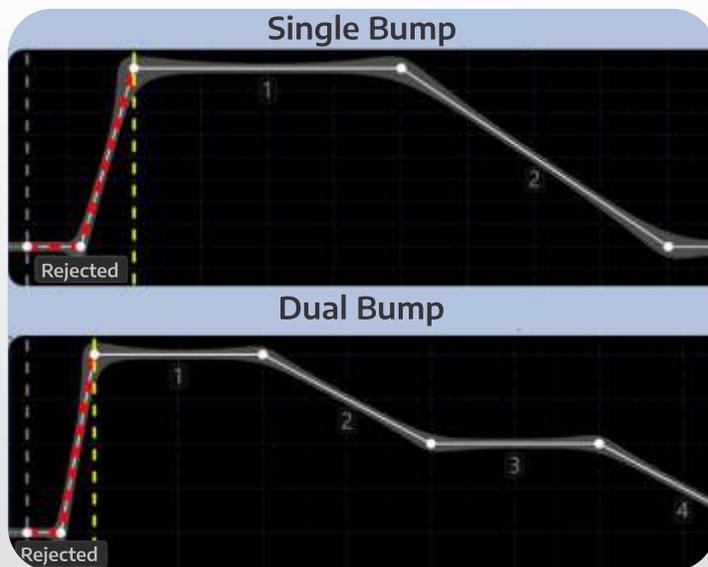
## Quality, forward.

NEW!

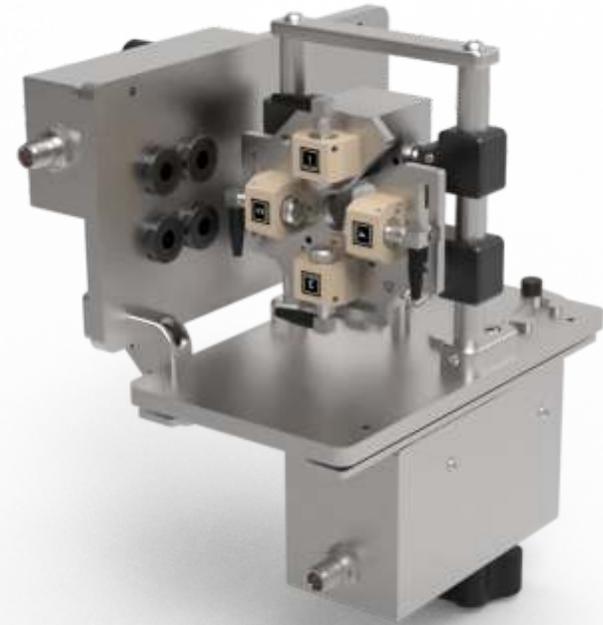
Check quality as it happens using LaserLinc's new **Bump & Taper** solution. Equipped with **virtual ring gauge**, profile analysis, and visualization tools, operators **see part quality** and can dial **in production** quickly. Control keeps it running smoothly.

**Total Vu**

## SIMPLIFY



## AUTOMATE



NEW!

## Ultrasonics, made easy.

Looking for the right wall thickness measurement tech? Your quest is over.

The **AutoPilot™** solution automates **sensor positioning**, accelerates **startup**, and **reduces scrap**. Eliminates perfectly-sized guides that abrade your extrudate.

**AutoPilot**



# Our tools. **Your success.**

## **KNOW**

Dimensions of  
common shapes

Laser Micrometers  
**Diameter, Ovality**

## **INSPECT**

Wall thickness  
& tube profile

Ultrasonics  
**Wall Thickness**  
Concentricity / Eccentricity

## **DETECT**

Surface quality  
**defects**

Laser-line Triangulation  
**Surface Flaw Detection**  
Dimensional Measurement

## **CONFIRM**

Integrity of  
finished product

Metron + BenchLinc  
**Auto Sample Inspection**

## **OPTIMIZE**

Your **production**  
process

Total Vu  
**Analyze, Visualize, Control,**  
Connect, Report + more

**MAKE IT  
RIGHT,  
MEASURE  
IT WITH  
LASERLINC.**



## Triton

Measure up.

Three axes give you the best ovality and up to 10x diameter performance.

One or two axes offer great value and application-specific fit.

## Axion

Built to Measure.

# KNOW

## Dimensions of common shapes

Streamline your process by monitoring diameter and ovality during manufacturing. Our laser micrometers, and all of our devices, utilize **non-contact** technology and deliver **precision** measurements in real-time.

**Seamlessly integrate** any of our measurement devices with a wide range of thoughtfully designed accessories like stands, guides, calibration kits, and all-in-one inspection stations.

Optimize **production efficiency** by reducing variation and material usage, decreasing scrap, and automating line control.



# INSPECT

## Wall thickness & tube profile

**Start up quickly** with our UltraGauge™ ultrasonic technology, especially when paired with the new **AutoPilot™** positioning system. Immediate wall thickness and concentricity help you **reduce scrap** and meet exacting extrusion requirements.

The right ultrasonic transducers from LaserLinc deliver optimal wall measurement, from 25.4 µm [0.001 in] thick and up; from 76 µm [0.003 in] for metals! If you want outside and inside diameter (OD & ID), add a laser micrometer; for Ovality and the complete tube profile, make it a Triton™ micrometer.



### AutoPilot

Accelerate startup.

Revolutionary sensor assembly positions itself for optimal measurements.

### UltraLinc

Connect workflows.

Update UltraGauge dynamic measurements automatically with verified sample data from a BenchLinc™ OD/ID system.



Innovation forward.



**FlawSense**

Quality, assured.

Immune to shape error, an often unrecognized contributor to measurement error.

FlawSense on the Metron™ platform is the innovation tool for R&D & verifying part quality.

**FlawSense Metron**

Quality, verified.

# DETECT

## Surface quality defects

Find pits, bumps, cracks, scratches, blisters, wrinkles, and other irregularities. **True 100% surface mapping** and proprietary algorithms detect defects that vision and **other technologies cannot**, with unmatched speed.

Achieve **true ovality, diameter, circularity** and other measurements, **impossible with laser micrometers or vision systems**. FlawSense™ technology has **no blind spots** and is **immune to shape error**.

Do all of that, **regardless of product orientation**. When you have **zero tolerance** for bad product, it is simply the best technology available.



# CONFIRM

## Integrity of finished product

Our fit-for-purpose **all-in-one systems** make it easy for operators to confirm that you made what you intended.

Get **trusted results**, quickly. Metron™ and BenchLinc™ turn-key solutions integrate our non-contact measurement devices with part holding and our Total Vu™ user interface to make QC easy.

Verify and automatically **document results** to satisfy **quality compliance** standards.

**Metron**

Integrity, verified.

One click to scan part profile:  
Verify dimensions of interest,  
detect defects, accept or reject,  
log data, and report.



**BenchLinc**

Go/no go, simplified.

### BenchLinc UT

Verify OD, ovality, wall thickness, ID and concentricity of stent and other tubes, including: NiTi, SS, CoCr, PVC.

### BenchLinc OD/ID

Verify OD, ID, and Wall of tubing samples. UltraLinc™ feature updates on-line UltraGauge settings to ensure consistency.

### BenchLinc OD

Check OD of part samples at up to 100 points to verify profile.

### BenchLinc V

Verify OD and ovality quickly and easily.



Innovation forward.

# OPTIMIZE

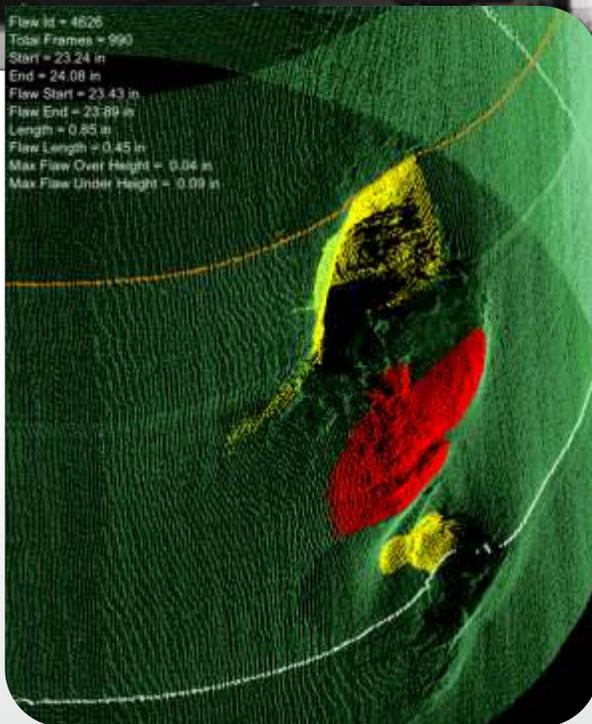
## Your production process

Bring it all together with the Total Vu HMI, our powerful visualization platform that helps you **lower costs, increase revenue, reduce risk, and streamline operations.**

**Connect** your enterprise and your line using the integrated OPC client & server. With all the built-in tools you need—reporting, SPC, FFT, feedback control, recipes, macros, configurable displays, and more—this HMI is fully **adaptable to the way you work.**



Photo courtesy of  
“MedTech Unboxed”  
and Steve Maxson



The FlawSense  
VuMetrics™ flaw  
viewer module: the  
ultimate visualization  
tool!

**SmartLinc**

Connect, effortlessly.

Easily and reliably connect micrometers to your line control using industrial protocols; the Display option integrates a touch screen for local operation and visibility.



Innovation forward.

# Measurement, transformed.

- Non-contact Precision
- Adaptable Visualization
- Seamless Integration
- Production Efficiency
- Quality Compliance

Helping you  
deliver medical  
innovation

**LaserLinc**

Innovation forward.

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