WELCOME!

Introducing InSight L100

Alex Lucas,
Sales Development Manager
Today’s Agenda

Benefits of Laser Scanning

Nikon Metrology’s CMM Scanning Portfolio

The All New InSight L100

L100 in Action – Turbine Blade Demonstration

Laser Scanning Accuracy

L100 in Action – Sheet Metal Demonstration

Questions & Answers
Benefits of Laser scanning

Better **insights** in deviations earlier

Facilitate **communication** with other parties

Increase inspection **productivity**

Reduce **expenses**

Redo any **analysis** at any time

Correctly measure **soft and fragile components**
InSight L100
The latest generation of Nikon Metrology CMM Scanning technology and a direct replacement for older LC60Dx scanners. The L100 offers unparalleled productivity and accuracy for nearly any application.

LC15Dx
The only CMM laser scanner offering accuracy comparable to a touch-probe. Designed for small and detailed parts with tight tolerances.

LC60Dx
The entry-level model in the LC line scanner range. Based on an older generation platform, the LC60Dx offers excellent performance on a variety of parts and materials but it’s productivity and accuracy lag.

XC65Dx & XC65Dx-LS
The ultimate scanner for feature inspection. The multi-laser line scanner captures features, edges and freeform surfaces in a single scan. The long stand-off version is optimized for deep pockets and hard-to-reach areas.
InSight L100 Key Features

- **Built-in Rotation Adapter**
- Better detail scanning
- **High Quality Nikon Lens**
- Faster Acquisition
- Wider Field of View
- Field of View Indicator
L100 Demonstration – Turbine Blade Scanning
L100 Demonstration – Turbine Blade Scanning
What is Probing Error?
Probing error determines the level of uncertainty expected when measuring form using a single probe head position.

How is Probing Error Calculated?
• Measure a ceramic sphere using a single probe head position.
• Use the point cloud data to fit a sphere.
• The single sigma value of the sphere fit is the probing error.

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Values in µm, 1 sigma
What is the Multi-Stylus Test?
The multi-stylus test determines the level of uncertainty expected when measuring location using multiple probe head positions.

How is the Multi-Stylus Test Performed?
• Measure the same ceramic sphere using five different probe head positions.
• The 3D deviation between all 5 sphere centers is the Multi-Stylus Error

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L100 Demonstration – Sheet Metal Inspection
Better Accessibility for Difficult to Reach Areas

PH10
A-angle = 105°

0 degree rotation
Great for scanning underneath parts

90 degree rotation
Ideal for scanning vertically oriented parts
L100 Demonstration – Sheet Metal Inspection
Software Compatibility
InSight L100 In Summary

- Most productive laser line scanner...
- ... without compromising on accuracy
- Market leading material handling
- Excellent part accessibility
- Simple programming
Thank you for attending!

Introducing the all new InSight L100

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