

LOTIS[®] QC-20

Hose Measurement System

Automotive

Aviation

Marine

Industrial

Rail

Hose Products

Hose Parts



Rapid Hose Inspection

Imagine... a GR&R of less than 10.7%

With LOTIS® QC-20, you can have it.

The laser-based LOTIS® Model QC-20 is the fastest and most accurate noncontact measurement system available for hose inspection. Operator error is virtually eliminated due to the QC-20's precise measurements of hose ID and OD, simultaneously computing wall thickness and wall variation. All dimensions are gaged with no product distortion – automatically, in just a matter of seconds.

LOTIS® QC-20 sets the standard.

With a repeatability of ± 0.0005 inch, the QC-20 has set a standard in measurement precision. For each data set, 1600 equally spaced data points are recorded on the inside and outside of the hose section. The amount of data and precision of the measurements provide you with the ability to meet exact product tolerances for your customers – a benefit that goes directly to your bottom line.

Fast measurement equals higher throughput.

The QC-20 provides more data than any other system available, and does it much faster. The operator simply places the hose section onto the QC-20 and presses a button to record a measurement. The QC-20 takes only 4 seconds to record precision measurements. The result is higher QC throughput rates and significant savings – reducing labor costs, material waste, and resulting in fewer returns and warranty issues.



Features

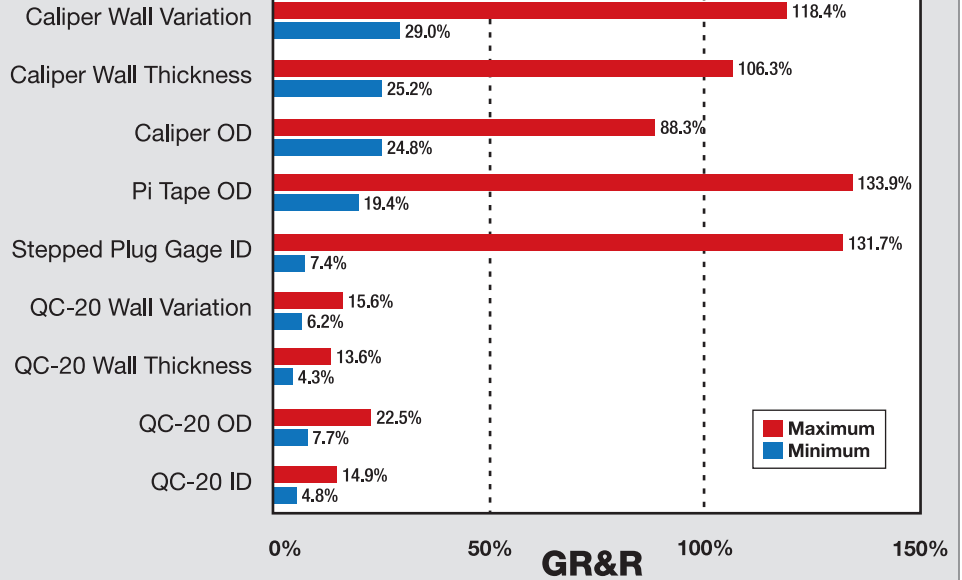
- Used by most major automotive hose suppliers in the US.
- Industry's most accurate system with best GR&R as reported in SAE J2605.
- Measures four tube features at once:
 - Inner diameter
 - Outer diameter
 - Average wall thickness
 - Wall thickness variation
- Noncontact laser measurement system virtually eliminates operator error.
- Each measurement (1600 data points) takes only 4 seconds.
- Measurement repeatability is ± 0.0005 inch.
- Measures straight, oval and curved hoses.

GR&R COMPARISON

LOTIS® QC-20 vs. Current Instruments*

In a series of independent industry studies, the QC-20 repeatedly delivered the lowest GR&R over any other current method used for ID and wall variation.

* Data from:
SAEJ1759, "SAE Hose Measurement Study,"
 October 2000 and **SAEJ2605, "Non-contact**
Hose Measurement Study I," October 2001

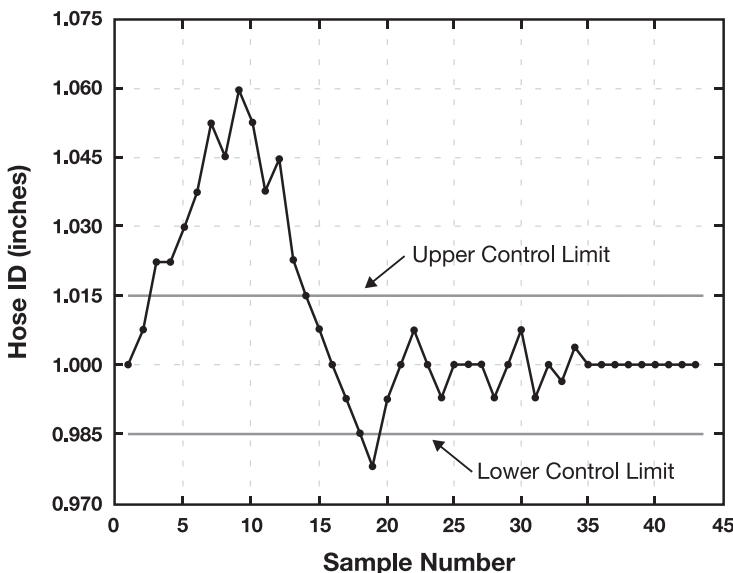


QA and production discrepancies, gone.

A proven GR&R of less than 10.7% speaks for itself. The confidence that the QC-20 brings to your manufacturing and QC staff will improve the production environment and eliminate QA and production discrepancies. You will also increase customer confidence as you provide consistency of product with complete traceability.

Data capture is automatic.

The QC-20 automatically captures and records a wide variety of data, which you can easily download to other computers at your plant and have access to all the test history at your fingertips. A wide variety of reports can then be created to provide testing data sets to your customers.



The QC-20's automatic data capture provides tracking of sample deviation in real time.

Four measurements. One instrument.

The QC-20's ability to obtain ID, OD, wall thickness, and wall variation measurements results in a superior quality control investment. In addition to the improved speed and accuracy the QC-20 delivers to your QC process, you will also realize savings in time and expense used to monitor and calibrate multiple hand-operated gages. The QC-20 is an off-line tool, which results in reductions in line setup time. It is also transportable and easy to integrate into your manufacturing facility, without changes to the line.

Measures oval and curved hoses.

The QC-20's noncontact measurement system and advanced algorithms deliver the ability to measure oval and curved hose sections. This unique feature adds value to your product testing programs and can contribute to new customer options.

What experts say about the LOTIS® QC-20.

"No other device can eliminate disagreements between supplier and customer like the QC-20."

– Phil Meyer, QC Specialist
 (40 Years Experience)

"The QC-20 is pushing the entire industry to adopt a better standard."

– Jeff Ellerbrock
 Cooper-Standard Automotive Group

"The QC-20 has given us trouble-free service and established a standard for hose measurement, with no operator discrepancy."

– Richard Hatchett
 MARK IV Automotive

Qi2 experience makes a difference

A recognized technology leader in measurement and sensors since 1985, government and industry have looked to Qi2 to solve the unsolved and deliver new technologies that change what is possible.

Qi2's non-contact measurement systems are delivering improved operating safety, extending useful equipment life, improving parts reliability and delivering improved process control within an array of industries.

- Aerospace
- Automotive
- Civil Aviation
- Civil Government
- Defense & Military
- Electronics
- Energy
- Highway and Transportation
- Instrumentation
- Industrial
- Marine / Shipbuilding
- Munitions
- Nuclear
- Oil and Gas
- Pipeline
- Paper and Plastics
- Power Generation
- Refining and Chemical
- Space Systems
- Utilities



QUALITY IN ENGINEERING SCIENCE & TECHNOLOGY

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