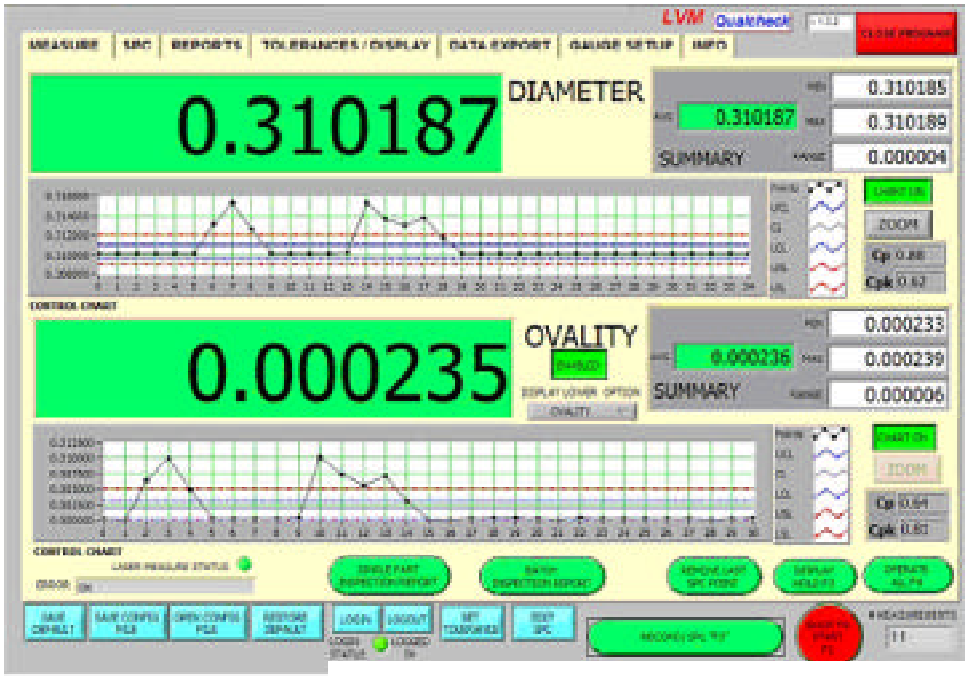
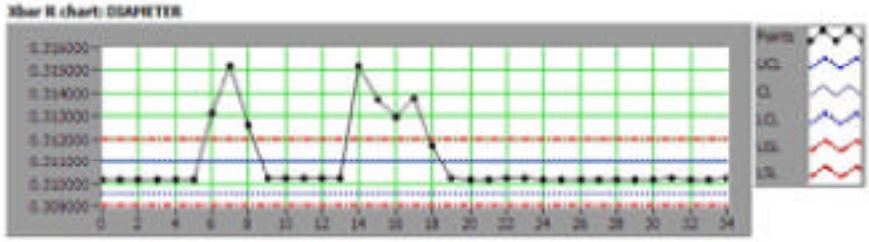
LVM QualCheck Software



Pictured above is a LVM QualCheck measurement screen showing the diameter and ovality of a part being measured by a dual axis laser micrometer. The display to the right is an Xbar R chart of diameter.



General Description

The LVM QualCheck is a multifunctional software package for use in metrology labs, in coming inspection and for in process measurements. Both single and dual axis laser micrometers can be used with LVM QualCheck. It has simple menus which allow the user to store any number of parts by job number, product type, etc..

The LVM QualCheck Software package is designed to be used with the XLS series of laser micrometers and a PC with Windows and an Ethernet port.

Features

- Easily set laser micrometer parameters
- Display and monitor up to two features, such as diameter and ovality
- Alarm visually on out of tolerance conditions
- report resultant and statistical data in HMTL format and / or directly to a printer.
  HMTL reports can also be opened in applications such as IE and MS Excel.

Features - continued

- Single piece inspection with part and operator information, measurement summary and list of measurements
- Batch inspection report with part and operator information, overall process measurement summary, list of each part's measurement results, Xbar-r and Histogram charts

Benefits

- Off line quality checks with SPC trending.
- Serialized piece production with a printed inspection report with each piece measured.
- Metrology lab first article and incoming material inspection.
- Metrology lab gage inspection and control when a record (electronic or printed) of each gage's measurement is required.
- Cost effective data storage and retrieval system
- Remastering is not required for different size parts
- Patented self calibration guarantees accuracy
- Can be used with any of our laser gauges

LVM QualCheck Software Typical Results

Both Single Part and Batch Inspection reports can be generated at the click of a button. Below is a sample report of Piston Pins in a Single Part and Batch Inspection report.

Single Part Inspection Report

Precision Pistons
Single Part Inspection Report

Date / Time: Wednesday, July 05, 2007 9:02AM
Operator: SML
Gauge: XLS 40 laser micrometer, s / n AE-G10230

Part Number	Job Number	Customer	Sequence, s/n
Piston_test	001	ABC Co.	124

SPECIFICATION

	Diameter	Ovality
Nominal	0.310000	0.000000
Minimum	0.309000	0.000000
Maximum	0.312000	0.005000

MEASUREMENT SUMMARY

Average	0.310187	0.000236
Minimum	0.3100185	0.000233
Maximum	0.310189	0.000239
Range	0.000004	0.000006

ALL MEASUREMENTS

Diameter	Ovality
0.310186	0.000239
0.310185	0.000238
0.310186	0.000236
0.310187	0.000233
0.310187	0.000235
0.310188	0.000236
0.310187	0.000237
0.310187	0.000235

Batch Inspection Report

Precision Pistons
Batch Inspection Report

Date / Time: Wednesday, July 05, 2007 9:12AM
Operator: SML
Gauge: XLS 40 laser micrometer, s / n AE-G10230

Part Number	Job Number	Customer
Piston_test	001	ABC Co.

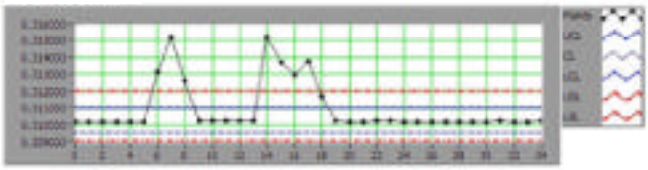
SPECIFICATION

	Diameter	Ovality
Nominal	0.310000	0.000000
Minimum	0.309000	0.000000
Maximum	0.312000	0.005000

PROCESS SUMMARY

Average	0.310930	0.000236
Minimum	0.310117	0.000233
Maximum	0.315199	0.000239
Range	0.005082	0.000006
Cp	0.875092	0.643823
CpK	0.624076	0.808283

Xbar R Chart: DIAMETER



Minimum PC Requirements; Win 2000, XP, P4, 500Mb ram recommended, 1024 x 768 color display, 1 GB available hard disk space.

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