QC-CALC Real-Time

Introduction

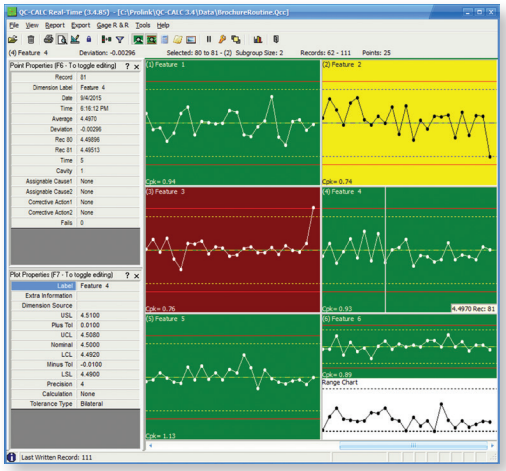
QC-CALC Real-Time is used to collect and display measurement results from all CMMs, Video CMMs, and hand gages without operator intervention. Reports can be created and data can be exported to spreadsheets, databases, and other SPC programs. This means you can transfer data from all of your measurement devices to any SPC package using one program!

Our goal is to make data collection seamless regardless of the equipment purchased or software used.

Key Benefits

- Fully automatic data collection from over 200 types of machines
- View up to 1200 live plots (dimensions) while collecting data for many more
- Manual and automatic export capability to over 40 different output formats
- Manual and automatic report generation
- 21 CFR Part 11 compliance
- Trend detection with email alerts
- Dynamic filtering of dimensions
- Multiple gage output combined into one screen (MultiSource)
- True Position Charting with 2D position charts
- Flexible plots support I&MR, XBar & Range, Scatter, Whisker, and True Position Plots

QC-GAGE
ZEISS
QC-PLC
RAM Optical Instrumentation RAM
gp
FARO
TESA
HEXAGON METROLOGY
podmis
LK
RENISHAW
Mahr
Nikon
Sheffield
MICRO-VU
Mitutoyo



QC-CALC SPC
SPC Office Buddy
ERS Enterprise Report Scheduler
Minitab QUALITY. ANALYSIS. RESULTS.
jmp Statistical Discovery™ From SAS
WINSPC STATISTICAL PROCESS CONTROL
Microsoft Excel
MeasurLink®
Reaction Plan Manager™
Q-DAS
statgraphics centurion www.stratgraphics.com
XML
Microsoft SQL Server
ASCII, CSV

Pinpoint On-Screen Information

The plots are interactive and can be interrogated for information and statistics using the mouse to target specific or multiple points.

Trend Analysis

The process can be monitored and reports automatically triggered as trends in the data occur. Operators can then be forced to assign causes and corrective actions.

Quick Stats

Calculations are updated in the Quick Stats panel instantly as points are highlighted and as the mouse moves from plot to plot.

Exporting

Data can be exported either manually or automatically by part interval to over 40 different output formats.

Reporting

Reports can be printed either manually or automatically by part interval or by exception event. Reports can be printed to the printer, preview, or any of several output file formats such as PDF. Reports can also easily be attached to emails allowing QC-CALC to notify appropriate personnel when the process moves outside control, specification, or configurable limits.

Manual Input Screen

In addition to data collected from automatic inspection equipment, QC-CALC can prompt inspectors for additional measurements or trace data not available from the gage.

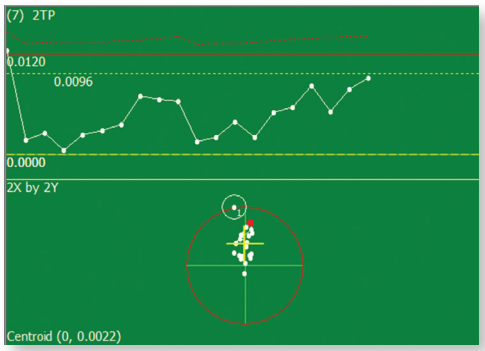
Assignable Causes

Indicate assignable cause variance by right-clicking on the plots and assigning a cause to your part.

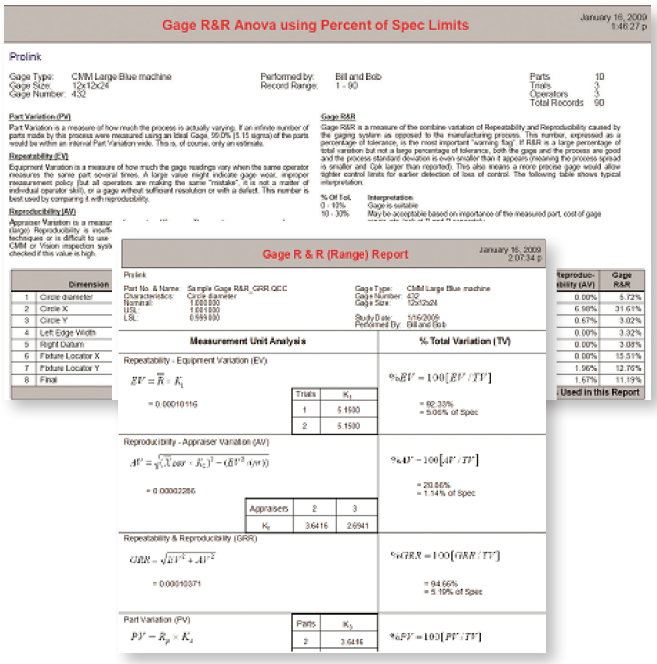
QC-CALC Real-Time

Record Filtering
Quickly display and report on the data needed at the moment. Dynamic record filtering allows the filter to change automatically based on the part or user input just received.

Live True Position Charts
Relationships can be created between the X, Y, Diameter, and True Position data coming from the inspection equipment to create a stacked true position plot. This unique chart depicts the true position with calculated MMC bonus in the top half and the 2D position relative to specification limits in the bottom half. The Cpk and centroid are also calculated and displayed for informational purposes.

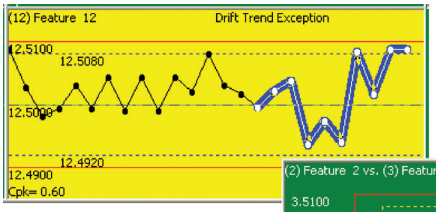


Gage R&R Wizard
Inspection data is useless without first proving the reliability of the measurement system being used. A Gage Repeatability and Reproducibility (GR&R) study doesn't have to be a painful process. QC-CALC's Gage R&R Wizard guides users through the setup process, warns of potential problems, and analyzes the results via customizable reports.



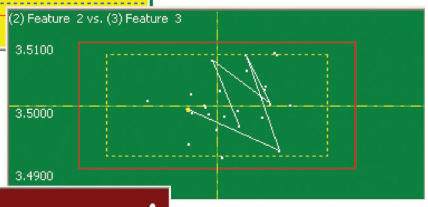
Dimension Filtering
Reduce on-screen clutter to quickly identify only the most critical features.

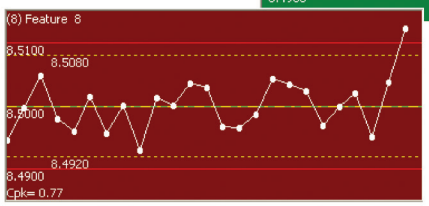
Plot Types



Trend Detection

Scatter Plots

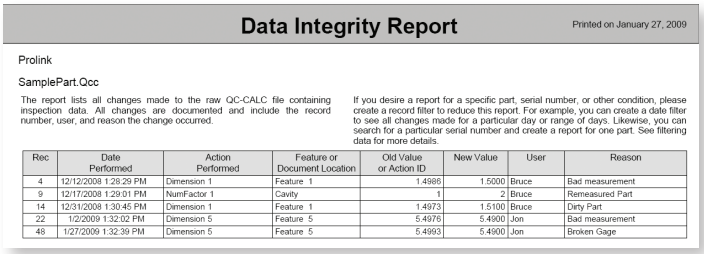




Out of Spec Condition

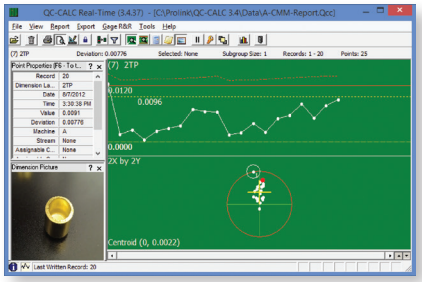
Trace Fields
A maximum of 60 additional trace fields can be captured in addition to the measurement data. This allows for more granular filtering when problems occur.

21 CFR Part 11
The control of inspection information as it applies to the medical industry is defined by FDA title 21 Code of Federal Regulations (21 CFR Part 11). QC-CALC's data collection, storage, and reporting adhere to this important standard. This option can be disabled for industries not requiring such strict control.



Rec	Date Performed	Action Performed	Feature or Document Location	Old Value or Action ID	New Value	User	Reason
4	12/12/2008 1:28:29 PM	Dimension 1	Feature 1	1.4986	1.5000	Bruce	Bad measurement
9	12/17/2008 1:29:01 PM	NumFactor 1	Cavity	1	2	Bruce	Remeasured Part
14	12/31/2008 1:30:45 PM	Dimension 1	Feature 1	1.4973	1.5100	Bruce	Dirty Part
22	1/2/2009 1:32:02 PM	Dimension 5	Feature 5	5.4976	5.4900	Jon	Bad measurement
48	1/27/2009 1:32:39 PM	Dimension 5	Feature 5	5.4993	5.4900	Jon	Broken Gage

Add Pictures to Each Dimension
A picture can be added to each feature to give more meaning to the plot data.



Please download a 30-day trial version from our website and try it out!

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