

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 data can be transferred from all measurement devices to any SPC package using one program!

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

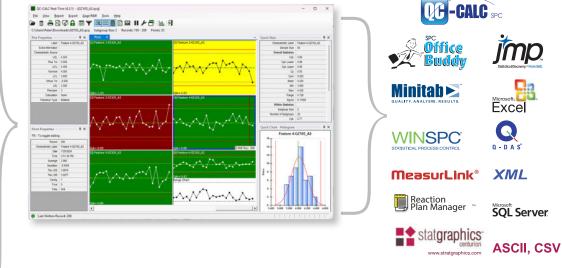
Application or Windows Service

QC-CALC Real-Time can be used either as a traditional standalone application or run as a central data collector using QC-CALC Real-Time as a Service (RTS). RTS is run on a central server and can collect from multiple inspection machines simultaneously without the worry of users inadvertently shutting down the application.

Key Benefits

- Fully automatic data collection from over 300+ machine types
- View up to 1200 live plots (characteristics) while collecting data for many more
- Manual and automatic export capability to over 40 different output formats
- Data is stored directly in either a MS SQL Server database or file-based database
- Manual and automatic report generation
- 21 CFR Part 11 compliance
- Trend detection with email alerts
- Dynamic filtering of characteristics and records
- 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
- Automatic application of True Position relationships
- Live Histogram display panel





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 required 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 automatically be attached to emails allowing QC-CALC to notify the 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.

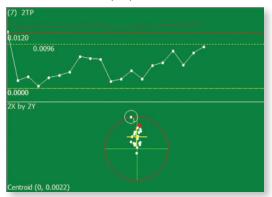
Assignable Causes/Corrective Actions

Indicate assignable cause variance and/or corrective actions by right-clicking on the plots and assigning to the part or point.



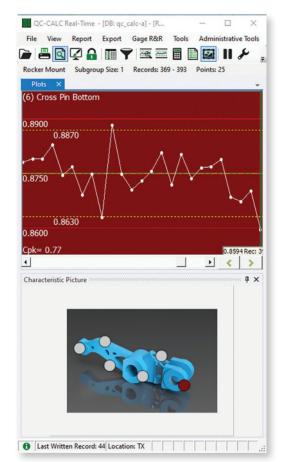
Live True Position Charts

Relationships can be automatically 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.

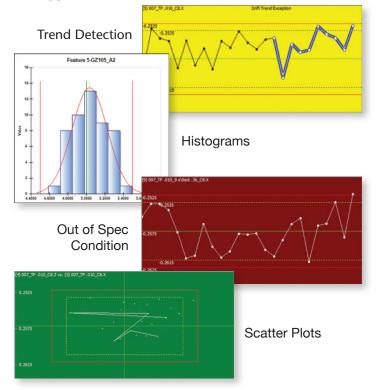


Add Pictures/CAD Snapshots to Characteristics

A picture or snapshot of a 2D/3D CAD image with target can be added to each characteristic to give more meaning to the plot data.



Plot Types



Trace Fields

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 standard. This option can be disabled for industries not requiring such strict control.

		D	ata Integrit	ty Report	rt		Printed on January 27, 200
rolink							
ample	Part.Qcc						
spectic	ort lists all changes ma on data. All changes a user, and reason the cha	re documented and in	clude the record cre to re	ate a record filter to see all changes ma	reduce this rep de for a particu	ort. For examination of re-	mber, or other condition, pleas mple, you can create a date fitt ange of days. Likewise, you ca
spectic	on data. All changes a	re documented and in	clude the record cre to see dat	ate a record filter to see all changes ma arch for a particular la for more details. Old Value	reduce this rep de for a particu	ort. For examination of re-	mple, you can create a date fit
spectic umber,	on data. All changes a user, and reason the cha	re documented and in nge occurred.	clude the record cre to see dat	ate a record filter to see all changes ma arch for a particular ta for more details.	reduce this rep de for a particu serial number a	ort. For examinar day or ra and create a User	mple, you can create a date fit ange of days. Likewise, you ca report for one part. See filterin
spectic umber, Rec	on data. All changes a user, and reason the cha Date Performed	Action Performed	clude the record cre to : sec dat Feature or Document Location	ate a record filter to see all changes ma arch for a particular la for more details. Old Value or Action ID	reduce this rep de for a particu serial number o New Value 1.5000	ort. For examinar day or ra and create a User	mple, you can create a date fit ange of days. Likewise, you ca report for one part. See filterin Reason
Rec 4	Date Performed 12/12/2008 1:28:29 PM	Action Performed Dimension 1	clude the record cre to : see dat Feature or Document Location Feature 1	ate a record filter to see all changes ma arch for a particular la for more details. Old Value or Action ID	reduce this rep de for a particu serial number o New Value 1.5000	ort. For examinar day or re and create a User Bruce Bruce	mple, you can create a dale fill ange of days. Likewise, you ca report for one part. See filterin Reason Bad measurement
Rec 4 9	Date Date Performed 12/12/2018 1:28:29 PM 12/17/2018 1:29:01 PM	Action Performed Dimension 1 NumFactor 1	clude the record cre to : Sec dat Feature or Document Location Feature 1 Cavity	ate a record filter to see all changes ma arch for a particular la for more details. Old Value or Action ID 1.4985 1	reduce this rep de for a particu serial number (New Value 1.5000 2	ort. For examinar day or re and create a User Bruce Bruce Bruce	mple, you can create a date fit ange of days. Likewise, you ca report for one part. See filterin Reason Bad measurement Remeasured Part

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.