

Introduction

QC-Gage is a full-featured data collection application for use with keyboard, hand-held gages, barcode readers, LVDTs, and linear transducers. It displays data both graphically and in table form, and automatically interfaces with QC-CALC Real-Time. By using QC-Gage and QC-CALC Real-Time together, out-of-conformance parts can be identified and isolated.

Readings collected this session

Current part and characteristic number

Picture of characteristic being measured

Characteristic specific notes

Graph displaying current gage readings

Part #	Machine Ctr	Heft	Piston Bore A1	Piston Bore A2	Seal Groove D	Seal Groove E
1	685-A	A-1	3.2510	3.2540	0.2880	0.2870
2	685-A	A-2	3.2530	3.2510	0.2810	0.2820
3	685-A	A-3	3.2560	3.2510		

Description	Action
1 Control Plan	Open
2 PFMEA	Open
3 Prints	Open

Key Benefits

- Easy single-button launch
- Manual Keyboard entry for older dial gages
- Interfaces with all electronic gages using:
 - ◆ RS232
 - ◆ USB
 - ◆ File based
 - ◆ Ethernet / TCP/IP
 - ◆ GagePort NT®
 - ◆ Heidenhain MSE1000®
 - ◆ Solartron® Orbit System
 - ◆ Marposh USB
- Easy to write Spec Plans provide consistent input
- Text instructions and pictures of inspection techniques guide users
- Calculated characteristics based on entered values and math equations
- 21 CFR Part 11 support
- Reasonable limit alarms eliminate typos
- File based Spec Plans make copying easy for part families
- Link to external work files

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Easily Create Spec Plans for Inspectors

QC-Gage easily creates Specification Plans that lead the inspector through the process of collecting both data and trace information (serial numbers, lots, names, etc). Pictures and directions can be included to help identify exactly what and how each characteristic should be inspected or entered during each step of the process.

Horizontal view

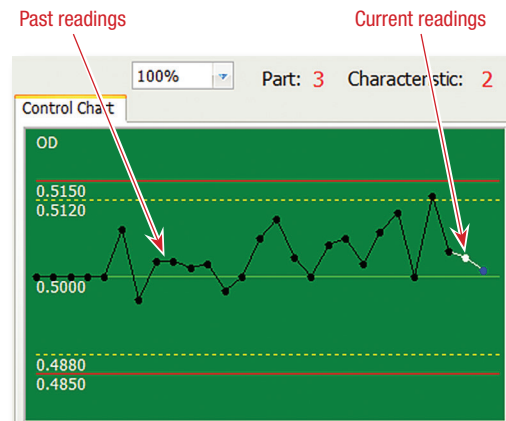
Vertical view

Save and Continue

Use the Save and Continue functionality to save an unfinished Spec Plan and resume measurement at a later time.

Graphical Feedback

As inspection occurs current and past data is shown.

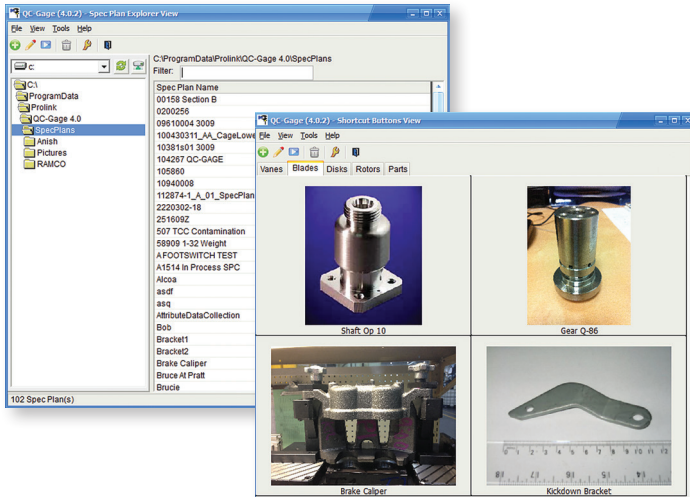


Calculated Characteristics

Create characteristics that are based on calculations either on an entered value or on the values of other characteristics. Lookup Tables can be used within calculated characteristics for constant values.

Organize Spec Plans

Create buttons that include pictures of the part for easy identification, use the Filtering in Explorer View to narrow down the matching Spec Plan names, or use a barcode to automatically open the correct Spec Plan.

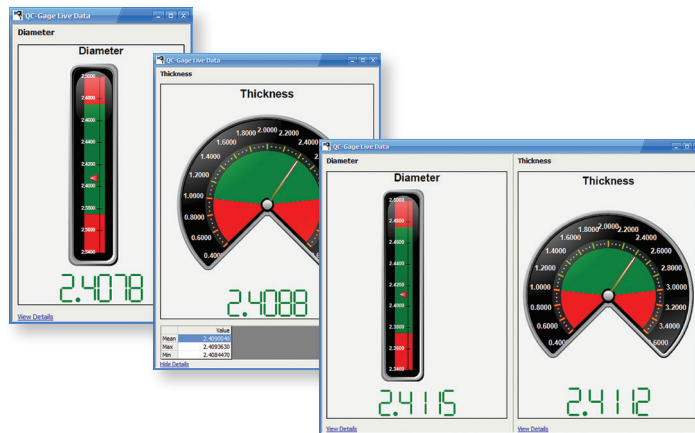


Expandable and Flexible

QC-Gage stores gage definitions in external files so you can add new gages without upgrading the software. A parsing language is available giving the ability to write new interfaces.

Live Display

Choose from column or radial gages to view the new values being received from GagePort, Solartron, or Heidenhain gages.



Mastering the Gage

Sometimes you need your Spec Plans to master a gage to a known size. Other times you may need to master a gage connected to a GagePort, Heidenhain, etc. Both mastering techniques are available.

GagePort Support

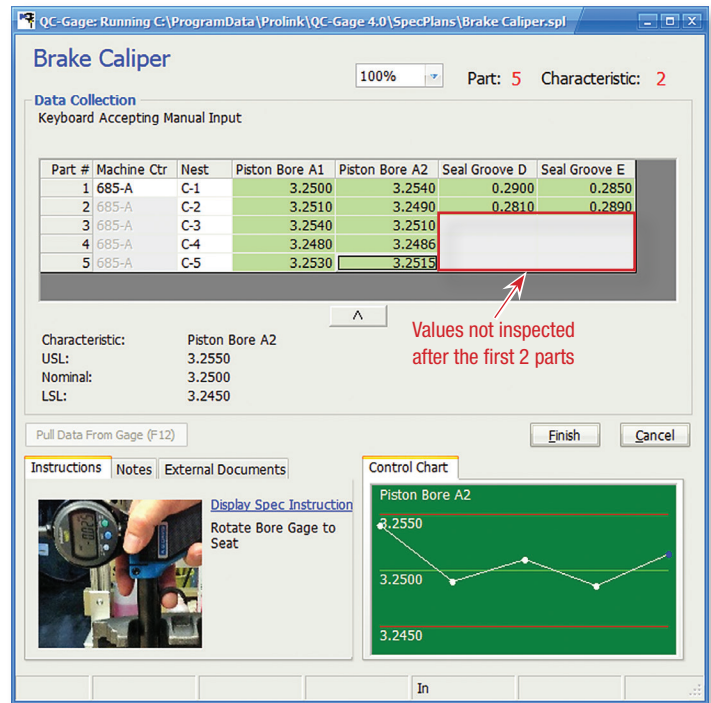
QC-Gage has full support for both analog and digital GagePorts and includes a Spec Plan and data conversion wizard to convert existing Proficy Shop Floor plans.

Import from Ballooning Packages

QC-Gage creates Spec Plans from output from ballooning packages such as InspectionXpert and Discus decreasing the work required to use QC-Gage.

Inspection Groups

Reduce the amount of inspection for certain parts within your batch by assigning any of several inspection rules. These include sequential, custom user selection, and defect rate.



Fixture Groups

Read multiple analog probes, LVDTs, or digital gages at once by linking them together in a fixture group. Multiple fixture groups can be added to the same Spec Plan.

Bulk Spec Plan Editor

The Bulk Spec Plan Editor enables quick management of the settings of multiple Spec Plans simultaneously.

21 CFR Part 11

QC-Gage's audit challenges automatically trigger when an inspector completes a Spec Plan or changes a previously saved value.