

## 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 feature number

Picture of feature being measured

Feature specific notes

Graph displaying current gage readings

Part #	Machine Ctr	Nest	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		

Feature: Piston Bore A2  
 USL: 3.2550  
 Nominal: 3.2500  
 LSL: 3.2450

Instructions (Notes)  
 Rotate Bore Gage to Seat

Control Chart  
 3.2550  
 3.2500  
 3.2450

## 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
  - ◆ Marposs USB
- Easy to write Spec Plans provide consistent input
- Text instructions and pictures of inspection techniques guide users
- Calculated dimensions based on entered values and math equations
- 21 CFR Part 11 support
- Reasonable limit alarms eliminate typos
- Link to external work instructions

Description	Action
1 Control Plan	<a href="#">Open</a>
2 PFMEA	<a href="#">Open</a>
3 Prints	<a href="#">Open</a>

- File based Spec Plans make copying easy for part families

## 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 number, lots, names, etc). Pictures and directions can be included to help identify exactly what and how each feature should be inspected or entered during each step of the process.

Horizontal view

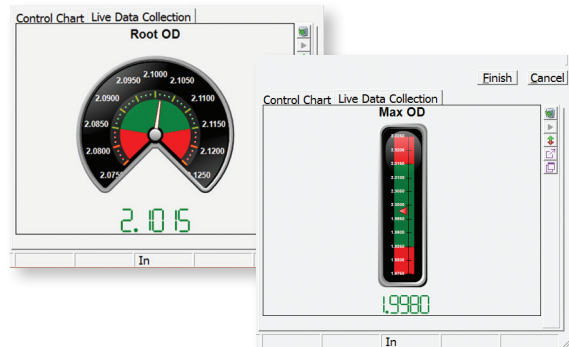
Vertical view

## Save and Continue

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

## Calculated Dimensions

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

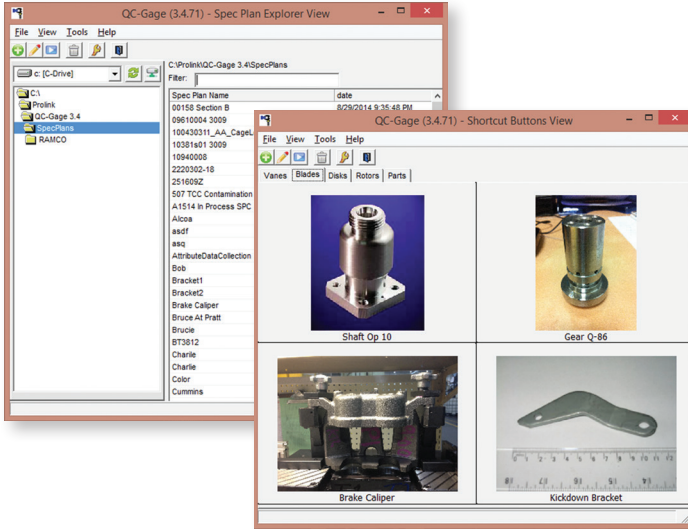


## Mastering the Gage

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.

## 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.

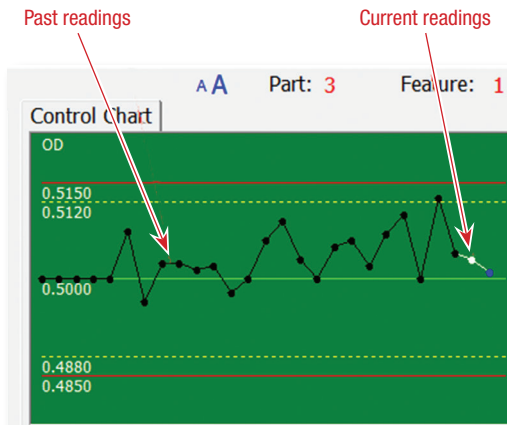


## Expandable and Flexible

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.

## Graphical Feedback

As inspection occurs current and past data is shown.



## 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.

Part #	Machine Ctr	Nest	Piston Bore A1	Piston Bore A2	Seal Groove D	Seal Groove E
1	6985-A	C-1	3.2500	3.2540	0.2900	0.2850
2	6985-A	C-2	3.2510	3.2490	0.2810	0.2890
3	6985-A	C-3	3.2540	3.2510		
4	6985-A	C-4	3.2480	3.2485		
5	6985-A	C-5	3.2530	3.2513		

## 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 features 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.