

GD-2 Plus is the latest in 2D inspection technology. Caliper Designs, Inc. has used an LCD display with **"Supertwist"** technology to enhance inspector capabilities. The LCD display, coupled with our alignment, looping and radius functions are enough to justify the purchase of GD-2 Plus. GD-2 Plus's additional capabilities are **"icing on the cake"**.

Looping

Geo-DRO 2 introduced the looping capability into 2D inspection. Caliper Designs has provided this function in all of its 3D products. Looping has been very well received as a major time saver. Looping coupled with Auto-Enter provides fast accurate inspection without all the expense associated with an edge detector. We are proud to have Looping as part of GD-2 Plus's capabilities.

Auto-Enter

Auto-Enter is unique to Caliper Designs' products, and is a major time saver. Using Auto-Enter, an inspector can concentrate on targeting points and doesn't have to stop and press the enter key for each point. Our benchmark test is measuring five, four point circles. Normal mode takes about 2 minutes to measure the five circles using four points each. Using Looping and Auto-Enter, the same task can be accomplished in approximately 1.2 minutes. An inspector familiar with the GD-2 Plus, would do even better.

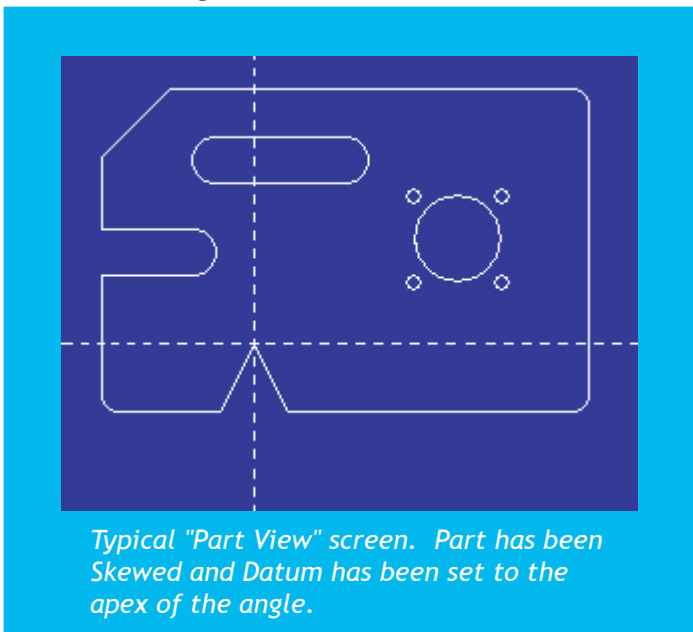
Alignment

Fixturing, or aligning the part to the stage or machine axis is no longer required. GD-2 Plus can perform several alignment functions including:

1. Aligning on a line and zeroing in the intersection of the first line with the second.
2. Aligning on a line and then zeroing on previously measured point features.
3. Aligning on the center of several circles or other point features.

Radius or Diameter Measurement

Measuring radii or diameters is as simple as targeting 3 or more points. GD-2 Plus will calculate the radius and the diameter from these points. GD-2 Plus will also provide the center location.



Typical "Part View" screen. Part has been Skewed and Datum has been set to the apex of the angle.

GD-2 Plus Comparative "Snapshot"

Capability	GD-2 Plus	QC-200	QC-2000	QC-4000
<i>Measurement</i>				
Circle	✓	✓	✓	✓
Angle	✓	✓	✓	✓
Point	✓	✓	✓	✓
Line	✓	✓	✓	✓
Distance	✓	✓	✓	✓
Slot	✓	No	No	No
<i>Construction</i>				
Circle	✓	✓	✓	✓
Angle	✓	✓	✓	✓
Point	✓	✓	✓	✓
Line	✓	✓	✓	✓
Distance	✓	✓	✓	✓
Perpendicularity	✓	No	No	No
Parallelism	✓	No	No	No
<i>Miscellaneous</i>				
Q Axis	✓	✓	✓	✓
Interface	Graphic	Graphic	LED's	Graphic
Part Progs	✓	✓	✓	✓
Ease of Use	Very Easy	Easy	Difficult	✓
SPC Support	✓	✓	✓	✓
Part View	✓	No	No	
Looping	✓	No	No	No
Edge Detector	Available	Available	Available	Available
Ruggedized	✓	Unprotected LCD Screen	✓	No
RCS Single Cable Edge Detector	✓	No	No	No
Delta Z Measurements	✓	No	No	No
Feature Stack	Visible	Visible	No	Visible

Scale Types supported

- | | |
|------------|----------|
| Fagor | Sargon |
| Heidenhain | Acu-Rite |
| Nikon | RSF |
| Mitutoyo | DRC |

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