

OPTICAL AUTOMATIC SMART INSPECTION SYSTEM

WE BUILD SOLUTIONS

FEATURES...

- Continuous Image Acquisition for Instant Measurements
- Simultaneous Measure of Multiple Dimensions
- Non-Contact Operation
- Accurate to 0.0002 inches
- Precision Optics
- Powered by User-Friendly, Full-Featured Software
- Measured Dimensions Saved in the Oasis
- Includes Automatic Inspection Reporting
- Quality, Robust Construction
- Complete Turn-Key Package - Ready to Run!



The OASIS – a premier optical profile inspection system that combines accuracy and precision with a fast, easy to use operator interface.



GEORGE PRODUCTS

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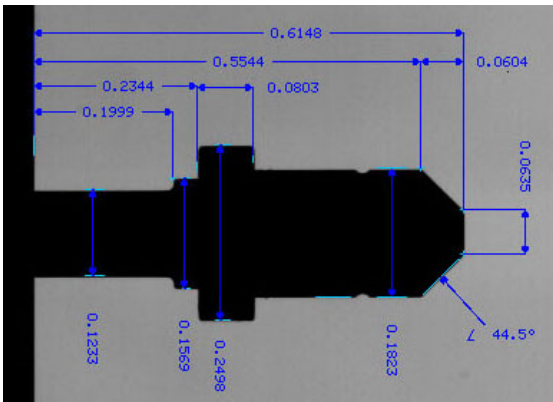
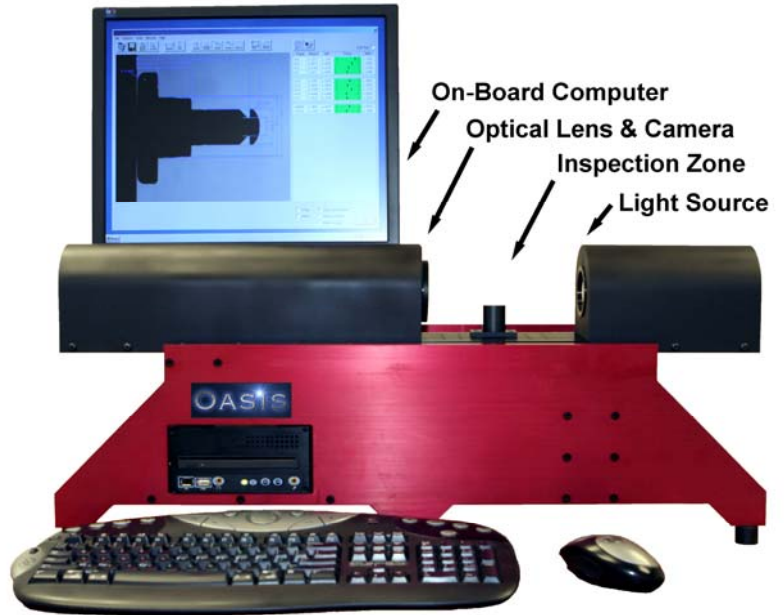
The Oasis is a full-featured, non-contact video profile measurement and inspection system that allows users to measure multiple dimensions on a part simultaneously and instantly. The measurements show up in a familiar, easy-to-read drawing dimensioning format and are saved in the Oasis for inspection archival or for built-in quality control reporting.

The powerful software behind the scenes converts the captured image into real dimensional data that measures the part to an accuracy of 0.0002-inches!

Oasis

Optical Automatic Smart Inspection System

The Oasis works by utilizing an LED light source to collimate precise rays through a series of specially designed diffusers and lenses that shine across the part to be inspected. That image is then captured by a very specific telecentric optical lens, which results in a perfect monochrome profile of the inspected part. The part profile is then digitally captured with a specially designed camera system and transferred to the custom on-board computer where the software does the rest. The image is analyzed and measurement data is displayed on-screen.



The Oasis operates by casting a "Shadow" of a part to be inspected and capturing that image in a digital format to be analyzed by an on-board computer. The powerful software behind the scenes converts the captured image into real dimensional data that measures the part to an accuracy of 0.0002-inches!

When a part is placed in the Oasis, the user will see a digital image of the profile of the part to be inspected. Oasis can search and automatically find the appropriate part inspection program that includes the dimensions the user wishes to measure. The Oasis captures images in real-time, so regardless of the number of dimensions, every time another part is placed into the Oasis, each and every measurement is simultaneously and instantly updated.

Name	Meas'd	Min	Status	Max
DIA	0.1233	0.1220	Pass	0.1260
DIA	0.1569	0.1542	Pass	0.1582
DIA	0.1823	0.1770	Pass	0.1870
DIA	0.2498	0.2480	Pass	0.2520
Dim 1	0.0635	0.0610	Pass	0.0650
DIST	0.6148	0.6070	Pass	0.6170
DIST	0.0604	0.0575	Pass	0.0675
DIST	0.0803	0.0750	Pass	0.0850
DIST	0.5544	0.5490	Pass	0.5590
DIST	0.2344	0.2300	Pass	0.2400
DIST	0.1999	0.1950	Pass	0.2050
Angle A	44.5°	43.0°	Pass	47.0°

The software also includes a color-coded display panel that shows the actual measured dimension and the user defined upper and lower limits (tolerances). Pass/Fail indications are easily identifiable for all measurements.

The Oasis features built-in quality control inspection reporting. Measurements taken by the Oasis are recorded in the unit as parts are inspected. Those dimensions can be imported into the Oasis Inspection Reporting feature which will create a custom report that can be printed or saved in the Oasis for future retrieval. The Quality Control report can be created for the dimensions of a single inspected part or for a group of parts in an entire production run.

Since its inception in 1951, George Products Company, Inc. has been a pioneer in the Metal Products Fabrication Industry. Now, with the Oasis, George Products is continuing its tradition of innovative products, top-notch quality, and outstanding service that is unsurpassed in the industry.

To learn more about the Oasis, visit us on the web at www.pobin.com