



Q & A

Top Ten Frequently Asked Questions

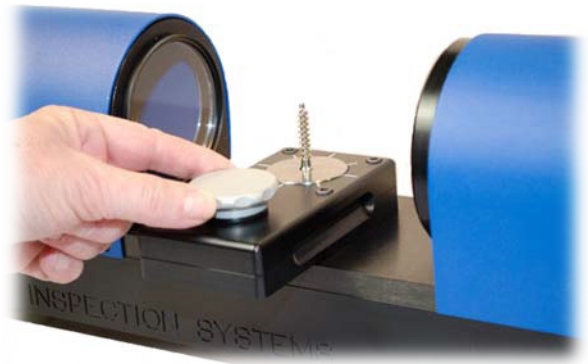
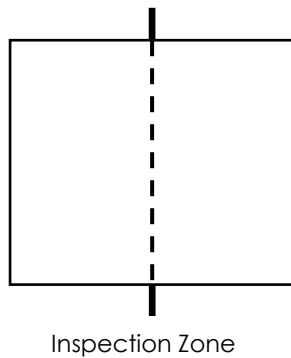


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Q. Does the part have to be placed in the same exact position each time?

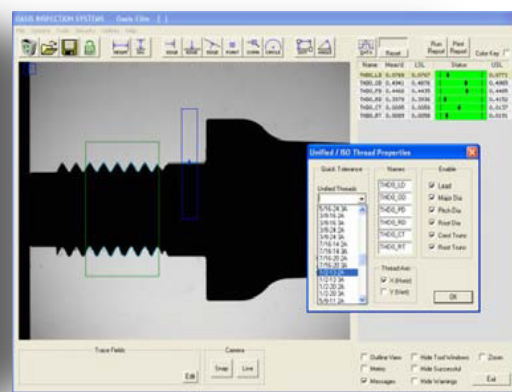
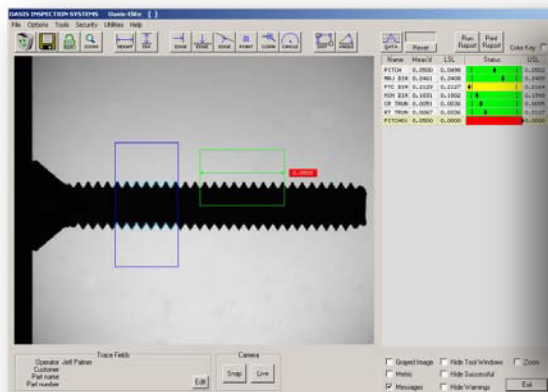
A. No, our software has an edge tracking feature, so you do not have to put the part in the same place each time. As long as the part is in the inspection zone, the OASIS will pick up the measurements automatically, significantly saving time on inspection.



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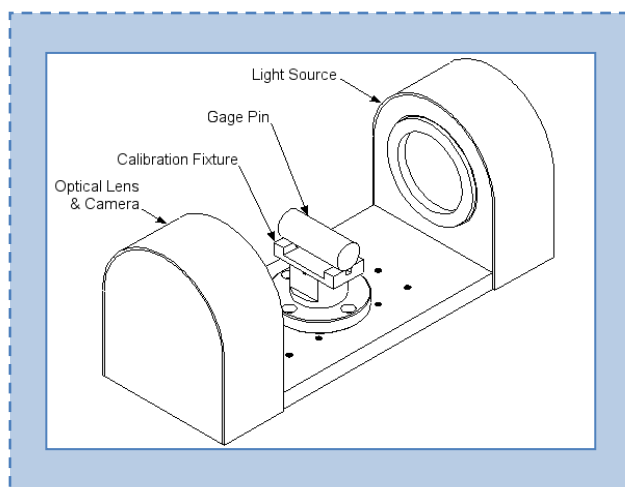
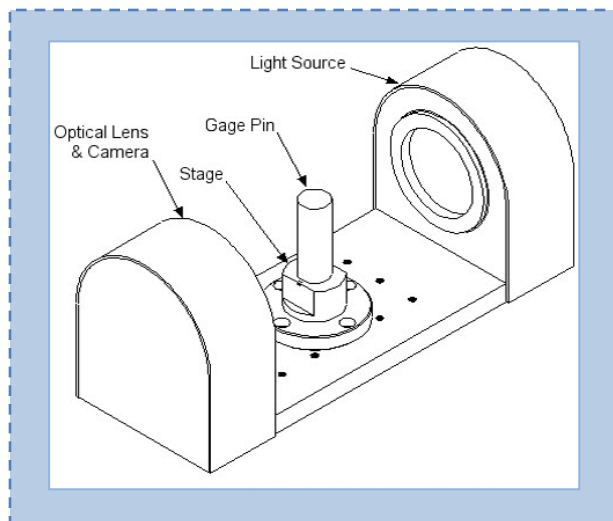
Q. Can the OASIS measure threads?

A. Yes, the OASIS can measure both Unified ISO and NPT threads with our optional Premium Software Add-On Module. Commonly used thread sizes are programmed in the software for ease of use. Simply select the thread type from our drop down menu and the tolerances will auto populate. Our thread software measures lead, major, minor, and pitch diameters as well as crest and root truncation.



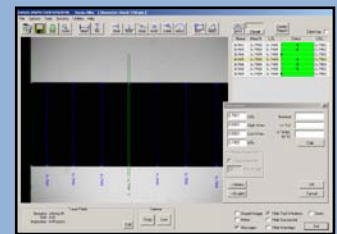
Q. What is the calibration process?

- A. Calibrating the OASIS is simple and can be done in house, without the added cost of calibration services. For an additional charge, you can purchase a calibration kit with step by step instructions. The calibration process takes no more than five minutes to complete.



Helpful Tip:

You can check the calibration of your OASIS anytime by creating several diameters along one of the gage pins included in your calibration kit. Set tolerance to ± 0.0001 to check calibration.



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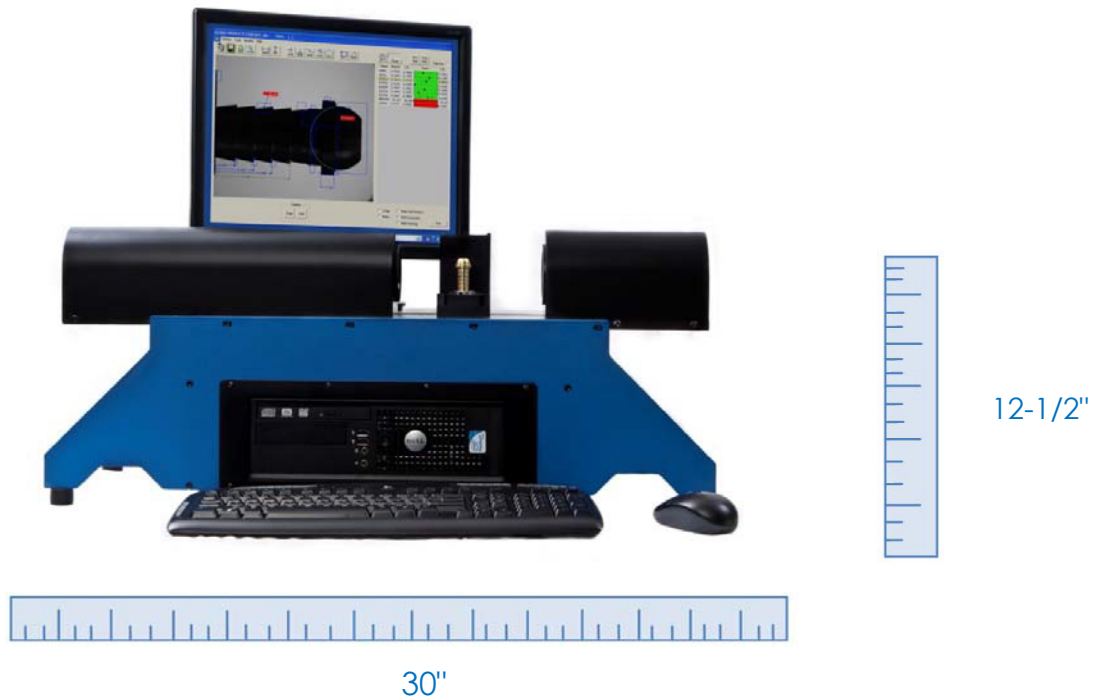
Q. Will the OASIS work with my SPC Software?

A. Yes, the OASIS easily integrates with numerous SPC software packages for real-time data acquisition and statistical process control. The OASIS also offers its own built in reporting that collects and stores data in real time.

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Q. Can the OASIS be used on the shop floor?

A. Yes, the OASIS was built to withstand conditions found in a shop environment. Regular maintenance is not required however light cleaning is suggested if the machine becomes dirty. With such a small footprint the OASIS Elite can easily fit on any machine shop floor.



Q. Can the OASIS measure concentricity and run out?

A. Yes, the OASIS can measure concentricity, run-out, and, parallelism with the addition of one of our optional rotary stages.

In the example below we are measuring the run-out by creating a distance from a common horizontal edge to the center of the two diameters. By creating a mathematical equation between the two points and then rotating the part, we can see the run-out value in a 360 degree turn of the part.



EXAMPLE 1: MEASURING RUN-OUT

Dimension	Low Limit	Low Warn	Measured	High Warn	High Limit	Status
DIA01	0.5450	0.5460	0.5518	0.5540	0.5550	OK
		0.7160	0.7198	0.7240	0.7250	OK
		0.3560	0.3598	0.3640	0.3650	OK
		0.3560	0.3582	0.3640	0.3650	OK
			0.0016		0.0050	OK

Low Warn	Measured	High Warn	High Limit	Status
0.5460	0.5504	0.5540	0.5550	OK
0.7160	0.7202	0.7240	0.7250	OK
0.3560	0.3600	0.3640	0.3650	OK
0.3560	0.3582	0.3640	0.3650	OK
	0.0018		0.0050	OK

Low Warn	Measured	High Warn	High Limit	Status
0.5460	0.5500	0.5540	0.5550	OK
0.7160	0.7199	0.7240	0.7250	OK
0.3560	0.3599	0.3640	0.3650	OK
0.3560	0.3584	0.3640	0.3650	OK
	0.0016		0.0050	OK

Summary of all 9 parts inspected						
Dimension	Low Limit	High Limit	MINIMUM	AVERAGE	MAXIMUM	Status
DIA01	0.5450	0.5550	0.5500	0.5506	0.5518	OK
DIA02	0.7150	0.7250	0.7196	0.7199	0.7202	OK
DIST01	0.3550	0.3650	0.3598	0.3599	0.3602	OK
DIST02	0.3550	0.3650	0.3582	0.3599	0.3622	OK
RUNOUT	0.0000	0.0050	0.0000	0.0014	0.0021	OK

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Q. Are there additional add-on features?

A. Yes, in addition to the standard pedestal that comes with the OASIS we offer an optional 90° glass stage for our Elite and Elite Dual units. Manual rotary stages are available for our 0.4X, 2348 and CoreX2 units and a motorized rotary stage is available for our Elite 2348.



MANUAL ROTARY STAGE



MOTORIZED ROTARY STAGE



90 DEGREE GLASS STAGE

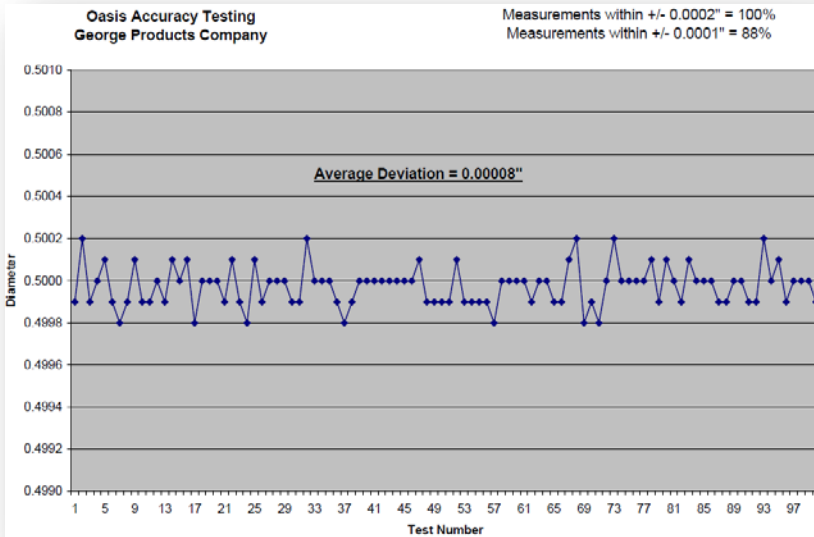
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Q. Can the OASIS be automated?

A. Yes, the OASIS can be used as part of an automation or in-line inspection process. Current OASIS owners have set up their own in-line inspection process incorporating the OASIS. The OASIS measures at a rate of 6 times per second therefore parts can be quickly measured in an automated set-up.

Q. What is the level of accuracy?


A. OASIS Elite, and Core units have an accuracy of +/- 0.0001, 2.54 microns. The CoreX2 is accurate to +/- 0.0002. Below is our Gage R & R accuracy test below for repeatability.



MODEL ACCURACY

Elite	+ / - 0.0001
Core	+ / - 0.0001
Core X2	+ / - 0.0002
Dual	+ / - 0.0001

Q. How are the measurements recorded?

A. Measurements are recorded in real-time by clicking on the Data Button  or by pressing "D" on your keyboard. Each time you select data, measurements are being stored in your inspection report. With the OASIS there is no need for manual reports which increase human error.

