

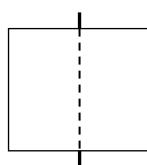
# **Q & A** Top Ten Frequently Asked Questions

1



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

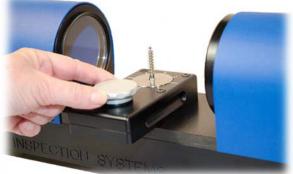
No, our software has an edge tracking feature, so you do not have to put the part in the same place each time. As long as the part is in the inspection zone, the OASIS will pick up the measurements automatically, significantly saving time on inspection.



Α.

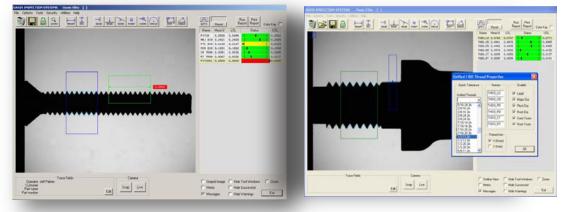
Α.

Inspection Zone



#### Q. Can the OASIS measure threads?

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.

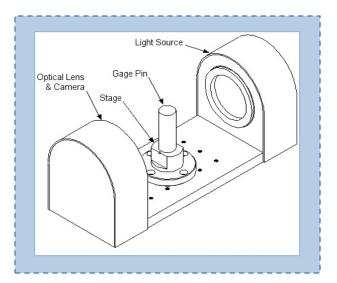


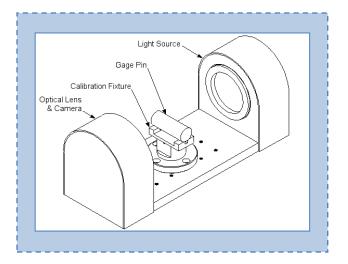
## 3

### $\mathbb{Q}$ . What is the calibration process?

Α.

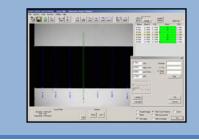
Calibrating the OASIS is simple and can be done in house, without the added cost of calibration services. For an additional charge, you can purchase a calibration kit with step by step instructions. The calibration process takes no more than five minutes to complete.





#### 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.



## 4

### Q. Will the OASIS work with my SPC Software?

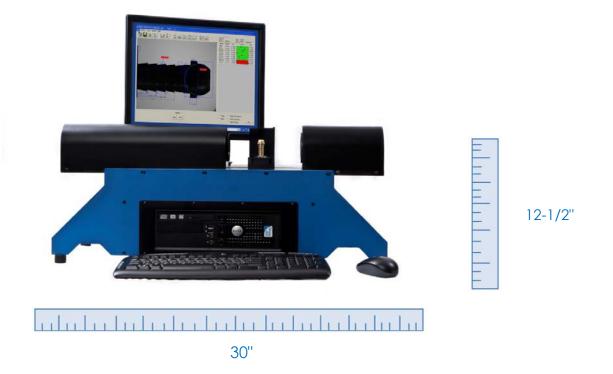
A.

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.

## $\mathbb{Q}$ . Can the OASIS be used on the shop floor?

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.

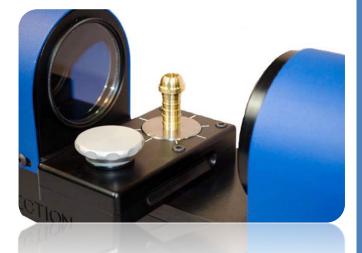


## Q. Can the OASIS measure concentricity and run out?

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

Α.

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.

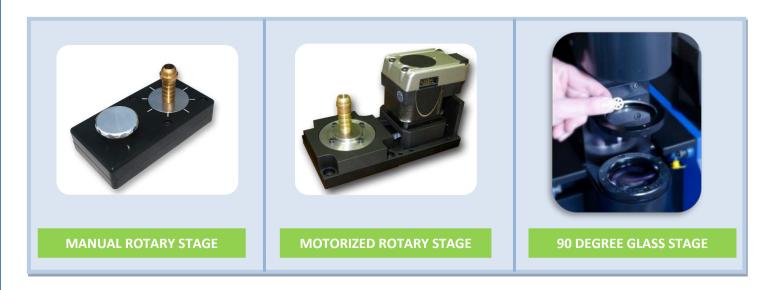


|   | Dimension   | Low Limit                    | Low Warn   | Measured    | High Warn           | High Limit  | Status |
|---|---|------------------------------|------------|-------------|---------------------|-------------|--------|
|   | DIA01   | 0.5450                       | 0.5460     | 0.5518      | 0.5540              | 0.5550      |        |
| RISPECTION SYSTEMS Oasis-Elite [ Ranout ] | _   |                              | 0.7160     | 0.7198      | 0.7240              | 0.7250      |        |
| ptions Tools Security Utilities Help      |   |                              | 0.3560     | 0.3598      | 0.3640              | 0.3650      |        |
|   | PATA Reset  | Create<br>Report Color Key 1 | 0.3560     | 0.3582      | 0.3640              | 0.3650      |        |
|   | Name Meas'd LSL<br>01901 0.5500 0.5450                              | Status USL                   | 1          | 0.0016      |                     | 0.0050      |        |
|   | D1402 0.7199 0.7150<br>D15101 0.3599 0.3550<br>D15102 0.3584 0.3550 | 0.725                        | :\gpc\Oa   | sis\Data\Rı | unout.txt           | -           |        |
|   | RUNOUT 0.0015 0.0000  | 0.005                        | ow Warn    | Measured    | High Warn           | High Limit  | Status |
|   |   |                              | 0.5460     | 0.5504      | 0.5540              | 0.5550      |        |
|   |   |                              | 0.7160     | 0.7202      | 0.7240              | 0.7250      |        |
|   |   |                              | 0.3560     | 0.3600      | 0.3640              | 0.3650      |        |
|   |   |                              | 0.3560     | 0.3582      | 0.3640              | 0.3650      |        |
|   |   |                              |            | 0.0018      |                     | 0.0050      |        |
|   |   |                              | :\gpc\Oa   | sis\Data\Rı | unout.txt           |             |        |
|   |   |                              | 144        |             |                     | 12.1.1.2.5  | 0      |
|   |   |                              | 0.5460     | 0.5500      | High Warn<br>0.5540 | 0.5550      | Status |
|   |   |                              | 0.5460     | 0.5500      | 0.5540              | 0.5550      |        |
|   |   |                              | 0.3560     | 0.3599      | 0.3640              | 0.3650      |        |
| 8 <u>8</u>                                |   |                              | 0.3560     | 0.3584      | 0.3640              | 0.3650      |        |
| •   |   |                              | 0.5500     | 0.0016      | 0.3040              | 0.0050      |        |
| Trace Fields Camera                       | C Outine View 🔽 Hid   | e Tool Windows 🗌 Zoom        | \gpc\Oa    | sis\Data\R  | inout txt           | 0.0000      |        |
| Edt Snap Live                             | □ Metric □ Hid  |                              |            |             |                     |             |        |
|   | P Messages IT Hid   | e WarningsExit               | 1          | Summary     | of all 9 part       | s inspected |        |
|   | Dimension Low Limit   |                              | High Limit | MINIMUM     | AVERAGE             | MUMIXAM     |        |
|   | DIA01   | 0.5450                       | 0.5550     | 0.5500      | 0.5506              | 0.5518      |        |
|   | DIA02   | 0.7150                       | 0.7250     | 0.7196      | 0.7199              | 0.7202      |        |
|   | DIST01  | 0.3550                       | 0.3650     | 0.3598      | 0.3599              | 0.3602      |        |
|   | DIST02  | 0.3550                       | 0.3650     | 0.3582      | 0.3599              | 0.3622      |        |
|   | RUNOUT  | 0.0000                       | 0.0050     | 0.0000      | 0.0014              | 0.0021      |        |
|   |   |                              |            |             |                     |             |        |

#### EXAMPLE 1: MEASURING RUN-OUT

#### 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.

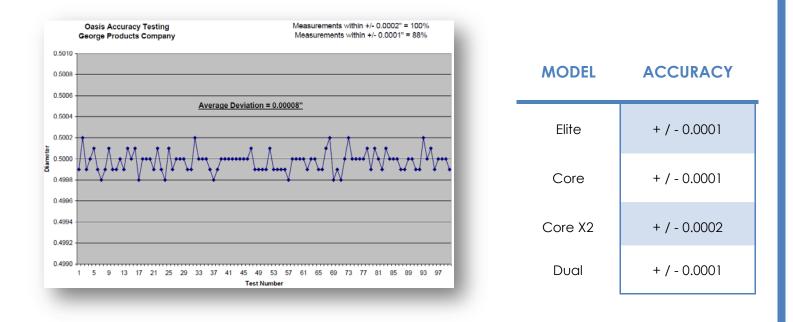


## Q. Can the OASIS be automated?

Α. 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.

#### What is the level of accuracy? ()

Α. 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.



#### How are the measurements recorded? ( ).

Α. Measurements are recorded in real-time by clicking or by pressing "D" on on the Data Button your keyboard. Each time you

> select data, measurements are being stored in your inspection

> need for manual reports which

increase human error.

report. With the OASIS there is no 14 0000 0 4000 14 000 NIGLE

|                     | _         |             |            | 100       |              | In Report   |                       |
|---------------------|-----------|-------------|------------|-----------|--------------|---|-----------------------|
| Dimension           |           |             | Measured   |           |              | Status Tel: (302) A49 parts                                   | _                     |
| Dimension<br>DIST02 | Low Linit | 0.2050      | 0.2140     | 0.2140    | 0.2150       | Status Fax: (302) 449-0199<br>Fax: (302) 449-0288             |                       |
| DIST02              | 0.1850    | 0.1850      | 0.1897     | 0.1940    | 0.1950       | WWW 000100 449-0288   | A.                    |
| DISTO               | 8.3750    | 0.3750      | 0.3795     | 0.3540    | 0 3850       | www.georgeproducts.com  | $\boldsymbol{\Delta}$ |
| DIST05              | 0.5650    | 0.5660      | 0.5689     | 0.5740    | 0.5750       |   | -                     |
| DISTOS              | 1.6300    | 1.5310      | 1.6363     | 1.5390    | 1.5400       | Sample Size: 50 9/19/2014                                     | ASIS                  |
| DIA01               | 0.7150    | 0.7150      | 0.7205     | 0.7240    | 0.7250       | 5440K114 cm Pate  | _                     |
| 01402               | 0.5450    | 0.5450      | 0.5494     | 0.5540    | 0.5550       |   |                       |
| DIA03               | 0.5150    | 0.5160      | 0.5216     | 0.5240    | 0.5250       | 0312-793 - Job Humber   |                       |
| ANGLE01             | 14,0000   | 14,4000     | 15.5310    | 17.6000   | 18.0000      | 2012-793 ← Job Namber<br>2060 0.2105 0.2140 Astronomy Station |                       |
| DIST07              | 0.4000    | 0.4010      | 0.4183     | 0.4090    | 0.4100       | 1850 0 180c 0.2140 0.2150 Status                              | _                     |
| ANGLE02             | 14:0000   | 14.4000     | 16.0010    | 17.6000   | 18.0000      |   | _                     |
| Sep 18 2013         | 0.6844    | tis/Data)54 | 40K114 tot |           |              | 5150 0.3800 0.1540 0.1950 Utmension Notes                     | 7                     |
|                     |           |             |            |           |              |   | -                     |
| Dimension           | Low Limit |             | Measured   |           |              | Status 160 0.5342 1.5390 0.5750                               | - 1                   |
| DIST02              | 0.2050    | 0.2050      | 0.2105     | 0.2140    | 0.2150       |   | 1                     |
| DIST03              | 0,1850    | 0.1850      | 0.1897     | 0.1940    | 0.1950       | 60 0.5495 0.5540 0.7250                                       |                       |
| DIST04              | 0.3750    | 0.3760      | 0.3800     | 0.3840    | 0.3850       | 0.5214 0.5240 0.5550  | 1                     |
| DISTOS              | 0.6650    | 0.5650      | 0.5593     | 0.5740    | 0.5750       | 10.0300 17.6000 0.5250  | 1                     |
| DIST06              | 1.5300    | 1.5310      | 1.5342     | 1.5390    | 1.5400       | 0.4073 0.4090 16.0000   |                       |
| DIA01               | 0.7150    | 0.7160      | 0.7208     | 0.7240    | 0.7250       |   |                       |
| DIA02               | 0.5450    | 0.5460      | 0.5495     | 0.5540    | 0.5550       | Quesis/Data/5440K114.txt                                      | 1                     |
| DIA03               | 0.5150    | 0.5160      | 0.6214     | 0.5240    | 0.5250       | 10 H  | 1                     |
| ANGLE01<br>DIST07   | 14 0000   | 14 4000     | 16.0300    | 17.6000   | 18.0000      | n Measured High Warn High Linet Status                        | 1                     |
| ANGLE02             | 14 0000   | 14 4000     | 16 0010    | 17.6000   | 18 0000      | 0 184c 0.2140 0.2160 Status                                   | 1 1                   |
| Sep 18 2013         | 0.6845    | 14.4000     |            | 17.0000   | 10.0000      | 0.1036 0.1940 0.2150 Dimension Music                          | · /                   |
| 54p 16 2013         | 0.0040    | in Data St  | 405.114.00 |           |              | 0.3800 0.3840 0.1950 Untersion Notes                          | i                     |
| ci                  | JMMARY DA | TA          | Summary o  | at 50 par | a instantial | 0.5740 0.5850   | - 1                   |
| Dimension           | Low Limit |             | MNMUM      |           |              |   | - 1                   |
| DIST02              | 0.2050    | 0.2150      | 0.2104     | 0.2119    | 0.2140       | 0.7209 0.7240 0.5400  | - 1                   |
| DIST03              | 0 1850    | 0 1950      | 0.1264     | 0 1887    | 0 1898       |   | 1                     |
| DIST04              | 0.3750    | 0.3850      | 0.3780     | 0.3788    | 0.3810       |   |                       |
| DIST05              | 0.5550    | 0.5750      | 0.5575     | 0.5684    | 0.5693       | 0,000 17.6000 18.000  | 1                     |
| DIST05              | 1.5300    | 1.5400      | 1.5342     | 1.5354    | 1.5357       | 0.0100 10.0100  | 1                     |
| DIA01               | 0.7150    | 0.7250      | 0.7205     | 0.7209    | 0.7216       | 17.6000 17.6000 tP 000  | 1                     |
| DIA02               | 0.6460    | 0.5550      | 0.5494     | 0.5496    | 0.5498       | Deta15440K114.txt   | 1                     |
| DIA03               | 0,5150    | 0.5250      | 0.5214     | 0.5216    | 0.5219       |   | 1                     |
| ANGLE01             | 14.0000   | 18.0000     | 15.5310    | 15.9690   | 16.1500      | 2105 0.2140 American States                                   | 1                     |
| DIST07              | 0.4000    | 0.4100      | 0.4051     | 0.4059    | 0.4083       | 4105 0.2140 0.2150 Status                                     | 1                     |
| ANGLE02             | 14.0000   | 18.0000     | 15.9700    | 16.0022   | 16.1200      | 0.1940 0.2150 Dimension 1                                     | 1                     |
|                     | _         |             |            | _         | _            | 3800 0.3840 0.3950 Dimension Notes                            |                       |