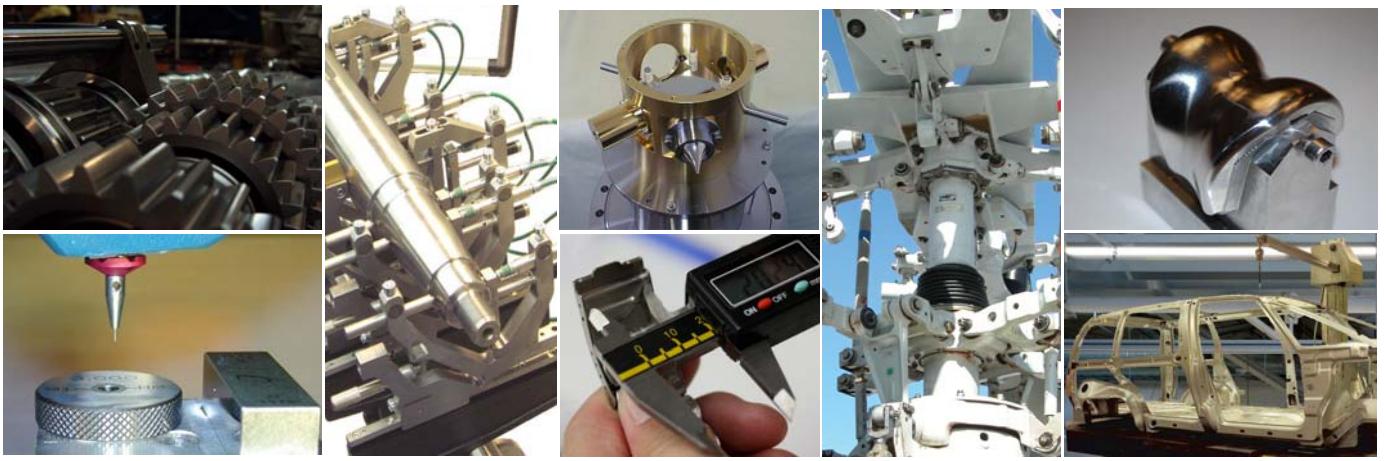
GageMetrics

Automate

Integrate

Keep your gaging options open



Precision Gaging

Precision Measurement

ASIDATAMYTE redefining quality

GageMetrics
Precision Measurement Software

Many precision measurement applications require you to measure a part and determine if that part is good or bad. Until now, this software required a steep learning curve and many trial and error sessions before it could be effectively implemented on the shop floor. But that was before GageMetrics from ASI DATAMYTE.

Multipoint, Multimode

GageMetrics is a precision measurement software package designed to collect and store measurement data from **manual, semi-automatic, and automatic inspection systems.** GageMetrics can also be used in tool compensation applications. GageMetrics uses clear and simple color-coded graphics that minimize training time, startup time, and the potential for operator error. And this capability also minimizes differences from one user to the next, ensuring reproducible results across different operators and different shifts.

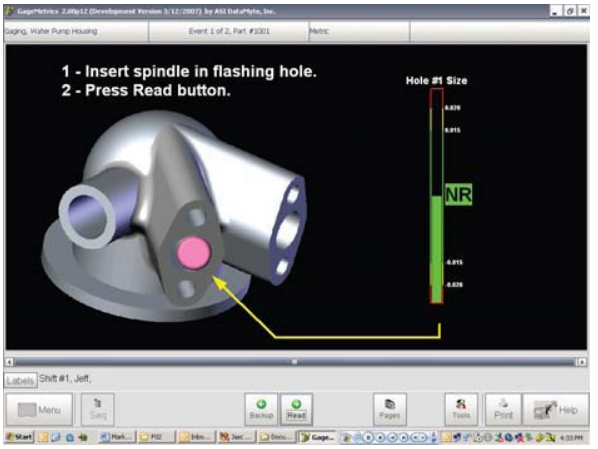
Flexible, Robust – Powerful

A single package does it all. GageMetrics software lets you use a Windows®-compatible computer, factory-hardened or not, as a workstation to collect measurement data and analyze your process. The network ready platform manages data from all sources, manual or automatic, and can distribute and store information to the ASI DATAMYTE DataMetrics database or to other various database locations to drive analysis and correlation studies. GageMetrics also lets you integrate tools and fixtures from third-party hardware manufacturers to build a complete gaging system.

With GageMetrics, you can preset the software for either manual or unattended gage stations at the beginning of the configuration process. This eliminates the interruptions and unwanted complications of configuring manual gaging stations offline. Training time and costs are reduced. The bottom line improves.

GageMetrics Data Collection Module

Embedded graphics in GageMetric's Data Collection Module let you customize each measurement screen to simplify training and operation. Part status is indicated by red, green, and yellow graphics, with customizable flashing symbols to guide the operator through the measurement sequence. This also helps users to distinguish which hole to measure when the same gage is inspecting multiple holes.



Flexible Display and Charting

The Display Options feature lets you customize the operator screens. It also lets you change from metric to English or from nominal limits to engineering limits without any additional programming.

SPC Charting

GageMetrics comes equipped with these charts: Statistical Summary, Histogram, X-bar and R, X-bar and S, X and MR, and Run Chart for analysis of data. These charts assist the user by tracking process performance. They also allow for filtering

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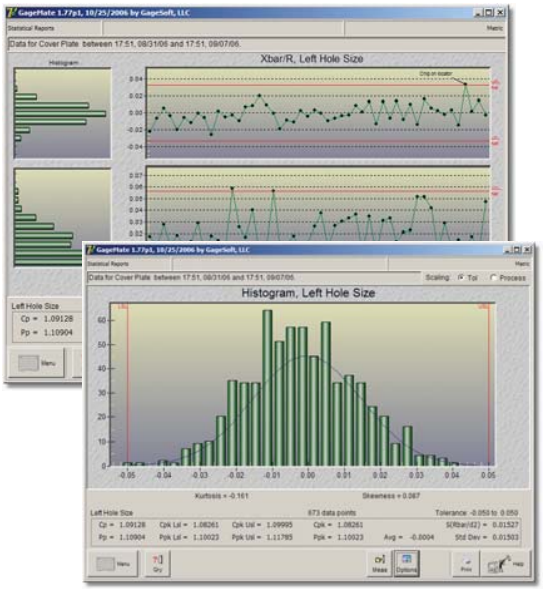
data to find the root cause so the process can be corrected before a part needs to be scrapped.



Page Editor Support

The Page Editor lets you create custom screens to control the type of graphics you would like the operator to see. All measurements are color coded to easily determine the status of the part, for example, green for accept or red for reject. Multiple pages can be used to reference information such as standard operating procedures (SOPs), maintenance recommendations, probe placement, and control plans, to name just a few.

Video Support

You can attach media files, such as video or PowerPoint® files, to use as setup instructions, calibration instructions, and data collection

instructions. This puts all of the information needed to perform the measurement inspection in one location and significantly reduces the time required to train on inspection routines.

Traceability

Change Logs record changes made to the program setups. Each log entry is date and time stamped for traceability. There is an undo feature that lets you revert back to the original application, or roll back the application to a specific date and time. This feature can be used when there are tolerance variances for a specific time frame.

Security

The Part Status Screen can be toggled "on" to confirm that the inspected part is good or bad. This is an essential feature in "dog house" applications where numerous characteristics are measured. The Part Status feature continues to remind the operator of part status regardless of numerous interruptions or of how long it takes to perform an inspection.

Analog Probes Too

GageMetrics works seamlessly with the ASI DATAMYTE Model 916 Precision Gaging Multiplexer to interface with standard LVDT analog probes, in addition to being compatible with digital probes and high-frequency miniature IET probes. Regardless of the range of your measurements, or your choice of probes, GageMetrics works to integrate smoothly and save you time and money.

Mastering

GageMetrics can prompt you when to master the gage based on time or number of parts manufactured. Consistent timed mastering procedures ensure that the gage will be properly calibrated to check the parts produced. GageMetrics also saves each mastering sequence with a date and time stamp. This feature lets you track the mastering events to assist in troubleshooting the gage and to see if mastering has been completed on a timely basis. Multiple master sets are supported with different certification values for each, allowing you to select

which set is to be used without any additional changes to the program.

Q-DAS Certified

GageMetrics Software is Q-DAS certified. The Q-DAS ASC II data transfer format lets you compare data from a variety of measurement systems without complica-tions, allowing for consistent data management and analysis. GageMetrics exports data in the Q-DAS File Exchange format and these other formats:

- ASI DATAMYTE GAM Files used by ASI DATAMYTE Importer to insert data into the database
- Text files used for Applied Stats and Microsoft® Excel® to perform in-depth analysis

Repeatability & Reproducibility

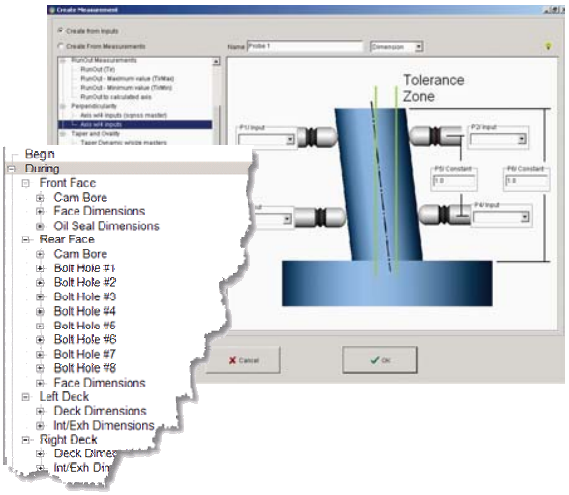
GageMetrics has the capability to perform gage repeatability and reproducibility studies in compliance with the AIAG MSA Third Edition. You can select Operator, Trial, and Part inspection order as well as maintain a history for all GR&R studies performed.

Set-Up Editor Module

The GageMetrics Set-up Editor Module lets you write the measurement plan in the same order that you would like the part to be measured.

Simplify Gaging Equations With Measurement Templates

GageMetrics incorporates measurement templates to assist you with measurement formulas. You can create equations simply by selecting the desired template and entering the required values. This reduces the need for operator training and speeds up the measurement programming process. The inspection sequence is displayed visually, so the inspection process is easily understood. You can easily modify inspection sequences using the drag and drop capability.



GageMetrics Specifications

Minimum Hardware Requirements

- Operating System: Windows 2000 or Windows XP
- Processor Speed: 1 Ghz or better
- RAM: 256 MB memory (512 MB recommended)
- Screen Resolution: 800x600 (1024x768 recommended)
- Pointing Device: Mouse or Touch Screen

Signal-Conditioning Hardware Support

- Solartron Orbit, including high speed dynamic mode (Including support for AIM, DIOM, and EIM modules)
- Marposs DigiCrown digital probe system
- IET miniature probes
- ASI DATAMYTE 916 multiplexer (Interface to LVDT probes)
- Kontron Digital I/O boards
- Others upon request

* Specifications subject to change without notice.

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