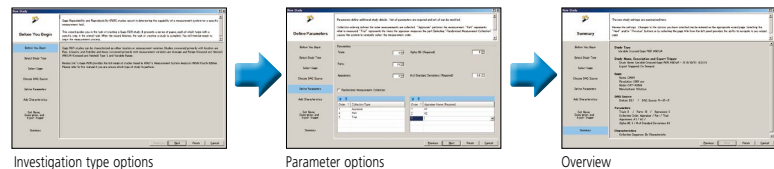


MeasurLink® Evaluation/Analysis Software for Measurement System Analysis (MSA) Gage R&R

The evaluation and analysis software supports measurement system analysis (MSA) required by IATF 16949. It uses a statistical method to analyze variations attributable to differences in accuracy among measuring instruments or operators in order to build an optimum measurement system.

• Automatic calculation of MSA evaluation results

This allows the operator to simply input an evaluation method/evaluation condition and measurement data with the Wizard function. The operator can implement MSA evaluation simply by selecting an "investigation type option", "Measuring instrument option", "data input source option", "parameter option", etc.



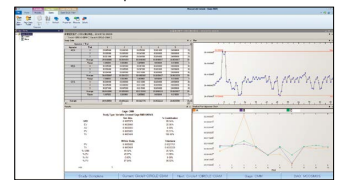
• Evaluation method compliant with MSA (fourth edition)

The software can implement evaluation using the following methods.

- 1) Measurement value tolerance Gage R&R variance analysis method
- 2) Measurement value tolerance Gage R&R range & average method
- 3) Measurement value branching Gage R&R variance analysis method
- 4) Measurement value branching Gage R&R average & range method
- 5) Measurement value range method
- 6) Measurement value simplified method
- 7) Measurement value MSA4
- 8) Deviation
- 9) Linearity
- 10) Stability

• Analysis chart view

Various charts such as the control chart are effective for analysis/judgment on variations due to operator, the adequacy of gage accuracy, etc., and remedies for problems.



• Registration of gage-specific information

1. Registration of information on gages within the system

This allows registration of gage information on the following items and association with evaluated results.

Registration items: Gage name, maker, model, resolution, unit, measuring range, etc.

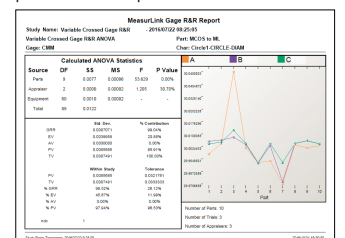
2. Information link between MeasurLink® Gage Management and this software

This software can use measuring instruments information that has been registered in **Gage Management** directly as options.

Additionally, **Gage R&R** evaluation results are reflected in the measuring instruments information, which means the expiry dates determined by **Gage R&R** can be managed by **Gage Management** as well.

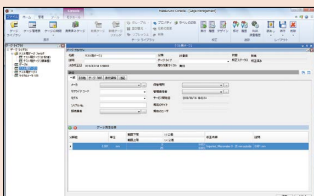
• Output of results as a report

Evaluated results and charts can be printed as a report.

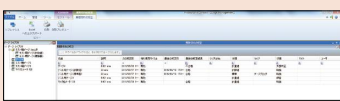


• Confirmation of detailed gage information

Allows confirmation of detailed information on individual gages. The software allows you to display a list of gages depending on "Calibration Overdue", "Next Month Due", etc., by setting a calibration date and confirm detailed information on the calibration history of gages.



Display of detailed gage information



Display of gages listed depending on calibration date



Display of calibration history

MeasurLink® Gage Management Software

This software can help you plan and implement a reliable calibration schedule with a powerful retrieval function in addition to recording and controlling the status of measuring instruments. Measuring instrument information can be viewed from any networked terminal on which **Gage Management** is installed since the information is centrally managed in a database. Measuring instruments information can be shared between software packages linked to **Gage R&R**.

• Creation of a list of calibration-targeted gages from the gage management table

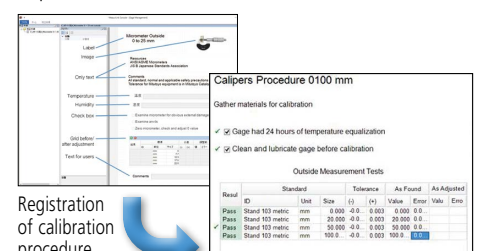
The target gages are retrieved from a variety of search items such as gage ID, gage type, model, maker, distributor, calibration date, current usage state and location to create the list.



Gage management table

• Registration and running a calibration procedure

Allows simple registration of the calibration procedure for each measuring instruments and implementation of the calibration.



Registration of calibration procedure

Calibration run