

μ Micro Laboratories, Inc.

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FREQUENTLY ASKED QUESTIONS (FAQ's)

What type of equipment can you calibrate?

We calibrate dimensional inspection equipment. Our expertise and accreditation is for the following gages: Gage Blocks, Angle Plates and Squares (Squareness), Height Gages, Ring Gages, Plug gages, Pin Gages, Indicators, Micrometers, Calipers, Micrometer Setting Standards, Micrometer and Caliper Setting Masters, Thread Wires, Gear Wires, Snap Gages, Thread Plug Gages, Parallels, and Supermicrometers.

We are also accredited to perform dimensional inspection for the following parameters: Height/Diameter, Internal Diameters, Outside Diameters, Length, Squareness, and Parallelism.

We are accredited to perform On-Site calibration for some of the above listed items. For information regarding our uncertainties and ranges, please refer to our scope of accreditation.

Can you repair my equipment?

Yes, we can repair most types of dimensional equipment. Upon receipt we will assess the age, condition, manufacture, and value of your gage. In most cases, we do not recommend investing more than 50% the cost of a new gage. In recent years, there has been a flood of "junk brand" gages dumped on American manufacturers that are not worth repairing. Typically, these gages will be recommended for replacement. Gages made by quality manufacturers are evaluated on a case-by-case basis.

What is your average turnaround time for calibration?

Our average turnaround time for Gage Blocks is one week. Other types of gages are calibrated in 7 to 10 days. Gages that require repair may take longer depending on their condition and availability of parts. We do offer expedited service on a scheduled basis; please call in advance to discuss your needs.

What information needs to be included on our purchase order?

- | | |
|---------------------------------|---|
| 1) Purchase Order Number | 2) Contact persons Name and Phone Number |
| 3) Description of items sent in | 4) If Accredited calibration is required |
| 5) Special Instructions if any | 6) If we should replace missing or out of tolerance items |

[What is the difference between long form and short form certifications?](#)

All of our calibrations are reported on what could be called long form certifications as a standard (default) practice. The only exception is for the calibration of Gage Pins, where we offer our clients the option of requesting Short Form certifications. The difference between Long Form vs. Short Form certifications is: Long Form will list every gage Pin in the set with the deviation from nominal reported in .0001". Short Form certifications will list any Gage Pins that were missing or out of tolerance.

[What are the tolerances and accept/reject criteria for gage blocks?](#)

Gage blocks are manufactured to a specified grade. These specifications are listed in ASME B89.1.9 and ASME B89.1.2. Tolerance tables for length requirements at the reference point are specified for the various grades and lengths of gage blocks. There is considerable disagreement between industry experts on the application these tables to gage blocks after the blocks have been placed into service. The default practice at Micro Laboratories, Inc. is to double the length tolerance to determine the accept/reject criteria. This practice has been followed for many years as directed in GGG-G-15. Naturally, our Customers can specify their own accept/reject criteria.

[Will you be expanding your calibration capabilities?](#)

Yes, Micro Laboratories, Inc. is continuously expanding its' calibration capabilities and will continue to do so. If you have any special projects or are looking to partner with us please call us.