

FAQ

MicroStudio calibration laboratory

Dear Customers,

You will find here below our answers to the most frequent questions about our test lab unit. IF after reading this document you still have questions, please do not hesitate to contact us.

Why should we have our equipment tested?

The proper measurement of your test equipment guarantee the products you sell are in accordance with the technical specifications.

The test procedure is linked to a fairly complex system of international gages determining the measures done with periodically checked equipment are reliable and comparable.

If you want to demonstrate to your customers your products are in accordance with the technical specifications, you should 1st demonstrate the measuring means you are using are trustable.

What is the difference between an ACCREDITED Calibration and a NOT ACCREDITED Calibration?

→ The ACCREDITED test allows having a CERTIFICATE of Calibration, which is an official document recognized by all international metrology organizations. (EA - IAF – ILAC).

This certificate can only be issued by an accredited laboratory under control of Accredia (Italian organization for Accreditation), which check thoroughly:

- The **procedure** and the working mode
- The **instruments**
- The **training** of the operators

These checks confirm the competence of the Laboratory and the reliability of the tests performed. But, this procedure generates costs.

→ The **non-accredited** Calibration will allow having a REPORT of Calibration, which can be issued by a Laboratory non-fulfilling the above criteria. In fact, almost anybody can do non accredited Calibrations, but certified gages must be used (load cells, weights, gages...) The non accredited Calibration can be done thoroughly and be reliable, but this depends on the Laboratory that does the job and the overlook the customer can have on the operation.

→ There are 2 major issues:

1. The Certificate of Calibration is internationally recognized.
2. An accredited Laboratory is a proof of reliability.

Which instruments can benefit of an Accredited Calibration?

The accredited certificate of calibration can only be issued a Laboratory fulfilling the criteria for the equipment checked. The list of these Laboratories is available on ACCREDIA's web site.

What kind of service does the laboratory of MicroStudio?

The ACCREDITED service of MicroStudio

The range of loads of the equipment that can be checked and certified by MicroStudio goes from 3N up to 25kN.

The machines concerned are:

PMZ, MXM, PMA, MC54, and similar. Also equipment from other machine manufacturers for spring test, extension test, dynamometers.

NOTE: for the MicroStudio equipment, the Calibration also includes the LVDT check, but for this one only a report of control can be established.

The NON ACCREDITED service of MicroStudio

For the instruments listed above, MicroStudio can do a NOT ACCREDITED Calibration, for those customers not needing a Certificate of Calibration.

Besides the equipment for load measurement, MicroStudio can do non-accredited Calibrations for:

- **Torque testers** PTZ, PTX, PTM and those of other machine manufacturers.
- **Vision equipment** LED2D, LED3D, LED4D, CAL, profile projectors of other manufacturers.

Note : to check equipment of other manufacturers a verification has to be done 1st.

What is the difference between an ACCREDITED Calibration and a NOT ACCREDITED Calibration done by MicroStudio?

MicroStudio has decided that for all calibration performed (Accredited or Non Accredited) the procedure will be the same except for minor details, thus providing a good reliability to the customer.

The main difference for the customer is the Report of Calibration (with the ACCRDIA label on the document) or the Calibration report.

What does the MicroStudio service include?

The calibration is done on site.

- During the operation, the technician can do set-ups or maintenance : Planarity, parallelism, internal machine cleaning, and so on...
- All the functions of the equipment are checked and, in case of need a specific technical call is scheduled, as the technician doing the machine calibration cannot solve all the possible problems. Sometimes a specific technician must go to the customer to fix the problem.
- At the end of his service the technician makes a verbal report to the customer, puts all the labels on the tested machines.
- The various reports are made within 2 or 3 weeks after the service and available on the Cloud, in a reserved area.
- In the Cloud it is also possible to contemplate the various certified means used by the technician (load cells, gages, weights).

Why should MicroStudio Laboratory be chosen?

→ We are the **unique** Accredited Laboratory checking spring testing equipment and MicroStudio Lab is listed on the [Web site of ACCREDIA](#) as such.

→ The most important advantage, when we do a calibration service, is that our technician can check **all the sensible points of the machine**.

At the end of the service we can guarantee the instrument fulfills all the criteria for which it has been conceived, it is in perfect shape to perform tests. Eventually, we can recommend further assistance if a problem has been detected.

Our service is not limited to the calibration but we do more. If a load cell requires a set-up or an alignment our technician does it, the LVDT is also checked, the motorization as well...

→ For all calibration (ACCREDITED or NON ACCREDITED) we use the same procedure and standards.

→ AS we are conceiving and manufacturing spring testing equipment, we have the complete knowledge of the machines, we can do a complete service, eventually recommend improvements, software update and so on.