**Surface Plate Calibration**

Surface plate calibration is the only sure way to know that you are working with a level surface and can expect accurate workmanship when the surface plate is in use. Surface plates wear over time and must be properly maintained to ensure flatness and continued precision measurement.

**Complete Calibration From I.R.C.**

**Instrument Repairs & Calibration Ltd provides complete Granite Surface Plate calibration in our lab or off site throughout Scotland**

The highly skilled technicians measure surface plate wear with a computerized calibration system in conjunction with nationally recognised calibration equipment. . This system provides reliable surface evaluation with detailed diagrams showing measurement readings that clearly explain wear and deviation from the grade accuracy specification.

**The Surface Plate Calibration Process**

During surface plate calibration, our technicians will measure both surface flatness and repeatability by taking measurements in locations across the surface. These reading will be used to determine deviation from the guidelines set for the grade of surface plate.

Both flatness and repeatability readings are critical steps in granite surface plate calibration to insure a precision surface that provides accurate measurement.

* Flatness is measured using points on the surface contained within two parallel planes,. The measurement of distance between the planes is the overall flatness of the surface.
* Repeatability is verified by measuring various local flatness areas across the surface to help guarantee that a measurement taken anywhere on the surface of a plate will repeat within the stated tolerance.

Calibration services performed by I.R.C.are UKAS accredited and the equipment used by our technicians has a UKAS-traceable calibration. You’ll receive a Calibration Certificate showing:

* Graph showing actual table form
* Grade achieved to BS817:2008 (Grade 0,1,2 or 3)
* Detailed diagrams with measurements explaining deviation from grade specifications
* **Let Us Provide All Your Calibration**
* While our field team is at your site, they can also calibrate measuring hand tools and equipment including Profile Projectors, Scales and more.
* Service for many additional instruments is performed in our environmentally-controlled UKAS accredited laboratory in the West of Scotland

**Caring For Your Surface Plate**

Regular cleaning and covering when not in use will help protect your surface plate. Granite surface plate calibration should be performed routinely to maintain the proper flatness and ensure measurement accuracy over time. The intervals between each surface plate calibration should be based on the following:

* Frequency of use (light usage will generally allow for longer intervals between each calibration)
* Condition of the environment where the surface plate is located
* Your company’s quality requirements.