

# MACKLOW SMITH

## Calibration and Repair



### Background

Macklow Smith have long been known for their Mechanical Load Columns\* and Hydraulic Load Capsules\*\* for measuring all types of forces, indeed they were one of the pioneering companies back in the early 1900's for producing test equipment for test laboratories, universities and companies wishing to measure and test forces on their products and equipment in compression, tension and torque. With the design and manufacture of these early types of force measuring devices Macklow Smith have a wealth of knowledge to obtain the best results in the calibration of this equipment which holds true today, with any of our calibrations carried out we always check over and test the equipment so we have time to make considerations of the best way to obtain the most favourable calibration results for our clients. In many cases this will require adjustments to the equipment being calibrated which we consider all part of a standard calibration, this then ensures that the calibration results are the closest we can achieve on the equipment being calibrated and thus giving our clients confidence.



### Calibration

Using devices calibrated to International Standards we are able to offer from our basic "Works" calibrations, where the tests are based around the BS1610 standard, making it fairly simple in method and reporting. To the latest version of the International standard for "Calibration of force-measuring instruments used for verification of uniaxial testing machines" Giving our clients the greater choice of calibration to suit their needs.



### Repair

With the in house design and manufacturing of test equipment our abilities to carry out comprehensive repairs not only to our own Macklow Smith equipment but to the majority of test equipment and devices on the market today. All work carried out is covered by our six month warranty, during the repair should we find any further work required to ensure the equipment will function and re-calibrate correctly we always discuss the best options before we start any further repairs.

*\*Macklow Smith in partnership with the National Physical Laboratory designed and manufactured these mechanical compression force devices, they are still being manufactured to this day.*

*\*\*Macklow Smith's unique design of hydraulic load capsule was protected by patents and became the most successful force measuring product long before the strain gauge load cells were around.*