

Troemner UltraClass Weight Calibration & Certification



Precision weights slip out of tolerance for many reasons: improper handling, a scratch, a nick, a friction wear, a trace of environmental contaminant such as oil or grease... or just plain old dust and dirt. To protect the accuracy of your weighing work, your precision weights should be adjusted and calibrated within prescribed tolerance limits at least once a year. At the same time, weight certification can be accomplished to meet quality standards and/or provide a chain of traceability.

Troemner has long offered economical, fast and highly reliable calibration and certification services. Today, however, with mass laboratories built to specifications recommended by the NIST-administered National Voluntary Laboratory Accreditation Program (NVLAP), we provide a higher level of service – Troemner UltraClassSM Calibration & Certification.

CALIBRATIONS AND CERTIFICATES NOW AVAILABLE

Troemner NVLAP Weight Calibration Certificate – Procedures and processes used to generate this multi-page certificate, as well as its format and content, are prescribed by the NIST-administered National Voluntary Laboratory Accreditation Program (NVLAP). It meets all ISO 17025, FDA, GMP, GLP, DOD, ANSI/NCSL Z540-1 and Nuclear requirements. The document contains: customer name, address, date of calibration, equipment and standards used in calibration, accuracy class, true mass value (mass in a vacuum), “as found” mass correction (for recalibration), “as left” mass corrections for each weight, uncertainty of measurement process for each weight, environmental conditions during test, construction and density of weights, calibration procedures used, statement of traceability to NIST and a helpful list of terms and definitions.

ANY SIZE OR TYPE OF WEIGHT FROM ANY MANUFACTURER

Troemner calibrates virtually any weight – from a few micrograms to over 5.5 tons – from any manufacturer. These include weights of stainless steel, titanium, brass, steel or cast iron. Types include lab weights, service weights, truck scale weights.

WEIGHT REFINISHING

In addition to adjustment and calibration, Troemner's refinishing services can return your used weights to like-new condition – with precise polishing and refinishing. This service extends the life of your weight set(s) and helps avoid costly replacement. Weight cases can be restored or replaced too.

HERE'S WHAT WE DO...



1. Weights are thoroughly cleaned, then checked against Troemner's Primary or Secondary Standards, using only the finest, most precise balances.



2. Material is added or removed to adjust weights to ASTM, OIML, NIST or other specifications.



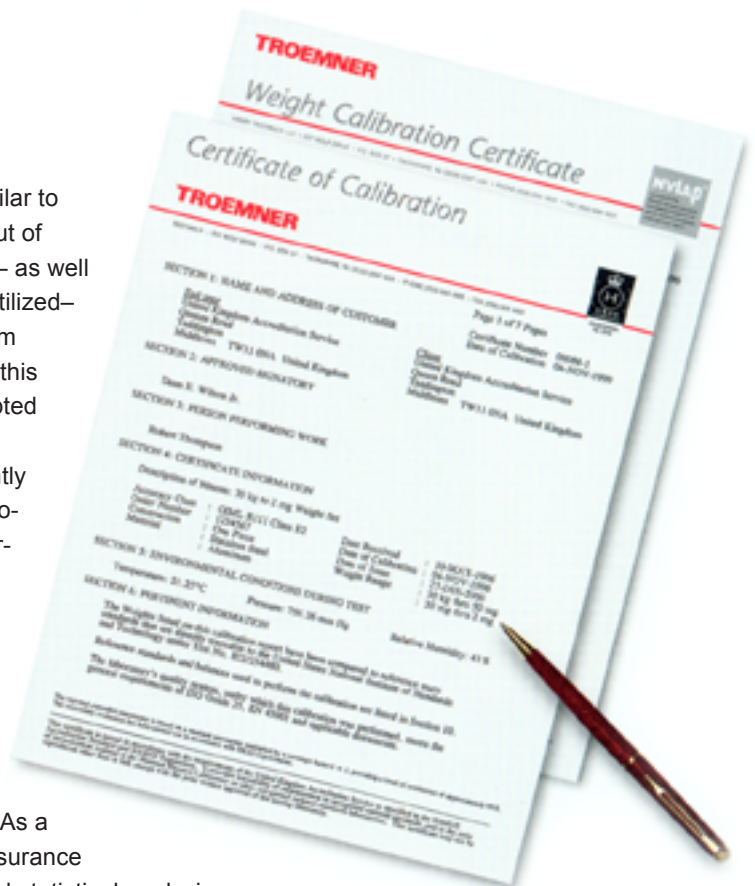
3. If refinishing is desired, weights are machined or polished and restored to "like new" condition.

Troemner UKAS Certificate of Calibration – Similar to the NVLAP Certificate, the content and layout of Troemner's UKAS Certificate of Calibration – as well as the enhanced measurement processes utilized – meet the requirements of the United Kingdom Accreditation Service (UKAS). Accordingly, this Certificate of Calibration is universally accepted throughout the world. Troemner (UKAS International Calibration No. 0516) is presently the only UKAS-accredited U.S. mass metrology laboratory offering its customers this internationally recognized Certificate of Calibration. Additionally, Troemner's UKAS accreditation fulfills the requirements of ISO/IEC 17025 and EN 45001 – the widely accepted European standard for competence of calibration laboratories.

Troemner NIST-MMAP Report of Mass Values – As a participant in NIST's Mass Measurement assurance Program (MMAP), Troemner offers a detailed statistical analysis of mass values, generated by NIST, of our measurements of customer's weights. MMAP certification follows a carefully designed calibration procedure – resulting in the highest possible statistical confidence level. MMAP certification meets all NVLAP requirements. A NVLAP Weight Calibration Certificate is provided along with a multi-page NIST/MMAP report – the same report one receives if weights are submitted directly to NIST for calibration.

All NVLAP, UKAS and MMAP calibrations are performed in Troemner's Level I Certification Laboratory using the most advanced state-of-the-art mass comparators. Extremely low measurement uncertainties are achieved through a combination of ultra-precise environmental control and multiple comparison weighing using several traceable mass standards.

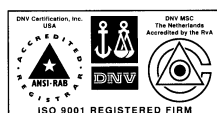
Troemner Traceable Certificate – Our expanded Traceable Certificate includes nominal value, mass correction and tolerance for each weight in addition to the basic contents of customer name, address, purchase order number, date of calibration, accuracy class, density and statement of traceability to NIST. In contrast to NVLAP or UKAS calibration procedures, the Traceability Certificate measurement process uses only one series of comparisons using a single standard.



CALL FOR A FREE ESTIMATE
Fees vary with class of adjustment, construction and quantity of weights involved. For estimates, shipping instructions or technical assistance, please phone us at 856-686-1600.

TROEMNER

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Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 105013.

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