

Precision Calibration Weights for Electronic Balances & Scales

- All stainless steel weights in cylindrical and stackable grip-handle styles
- Available in Troemner UltraClassSM, ASTM Class 1, 2, 3, 4 and OIML tolerances
- In metric, avoirdupois and other units of measure
- Measurements done in NVLAP/UKAS accredited laboratory
- Traceable to the National Institute of Standards and Technology
- Certified to meet today's ISO requirements



To get all the accuracy your electronic balance/scale provides, you need to perform routine calibrations and adjustments using precision calibration weights. Troemner offers stainless steel calibration weights manufactured especially for this purpose. Weights are available in cylindrical and stackable grip-handle configurations for all necessary testing, calibration and adjustment of electronic scales and balances.

Cylindrical & Grip-Handle Styles

Larger denomination calibration weights (8 kg or 10 lb and up) have a stainless steel grip handle for easy handling and lifting. The grip is recessed leaving the top perfectly flat for stacking.

Smaller denominations (3 kg or 10 lb and lower) are cylindrical in shape with the heavier of these having a groove near the top for easy gripping. 4 kg and 5 kg weights are available in both cylindrical and grip-handle styles.

Protective Cases

Impact-resistant polypropylene weight cases are provided with 10 kg to 5 kg and .001 lb to 10 lb weights. These self hinged cases have snug-fitting foam interiors to protect weights when not in use. To safeguard your weights during handling, gloves are also provided.

Cases for weights 8 kg to 30 kg and 20 lb to 50 lb are available as options. Two case options are available, the standard case, made of aluminum, reinforced with metal edges/corners and a padded carrying handle, and the industrial strength case, with additional sidewall reinforcement, recessed lock and carrying handle.

Troemner: Standards of Excellence

Troemner's electronic balance calibration weights are factory adjusted in strict accordance with the Standard Specifications for Laboratory Weights and Precision Mass Standards, ANSI/ASTM E617. Additionally, Troemner's quality system has been regis-

tered as conforming to ISO 9001 and quality standards.

Two Troemner mass metrology laboratories are built to specifications recommended by the NIST-administered National Voluntary Laboratory Accreditation Program (NVLAP). They meet Accuracy Level I and III respectively, as described in the NVLAP Calibration Laboratories Technical Guide. The Level I laboratory exceeds the Environmental Cleanliness System according to the requirements of Federal Standard 209E, Class 1000.

NVLAP & UKAS Accredited

Further evidence to Troemner's high quality standards is our accreditation by both NVLAP and its internationally recognized UK equivalent, UKAS. We also meet the exacting requirements of Military Standard ANSI/NCSS Z540-1 and the quality assurance criteria for nuclear power plants as described in Appendix B of 10CFR50.

Selection Guide

Electronic Balance Calibration Weights

Now available in Troemner UltraClass tolerances

40% to 50% better than ASTM Class 1 tolerances for your most precise applications

Metric Denomination	UltraClass Part #	Class 1	Class 2	Class 3	Class 4
30 kg grip	8000	8100	8200	8300	8400
25 kg grip	8002	8102	8202	8302	8402
24 kg grip	8004	8104	8204	8304	8404
20 kg grip	8006	8106	8206	8306	8406
16 kg grip	8008	8108	8208	8308	8408
10 kg grip	8010	8110	8210	8310	8410
8 kg grip	8012	8112	8212	8312	8412
5 kg grip	8014	8114	8214	8314	8414
5 kg cyl	8016	8116	8216	8316	8416
4 kg grip	8018	8118	8218	8318	8418
4 kg cyl	8020	8120	8220	8320	8420
3 kg cyl	8022	8122	8222	8322	8422
2 kg cyl	8024	8124	8224	8324	8424
1500 g cyl	8026	8126	8226	8326	8426
1000 g cyl	8028	8128	8228	8328	8428
600 g cyl	8030	8130	8230	8330	8430

Metric Denomination	UltraClass Part #	Class 1	Class 2	Class 3	Class 4
500 g cyl	8032	8132	8232	8332	8432
400 g cyl	8034	8134	8234	8334	8434
300 g cyl	8036	8136	8236	8336	8436
200 g cyl	8038	8138	8238	8338	8438
160 g cyl	8040	8140	8240	8340	8440
150 g cyl	8042	8142	8242	8342	8442
100 g cyl	8044	8144	8244	8344	8444
80 g cyl	8046	8146	8246	8346	8446
70 g cyl	8048	8148	8248	8348	8448
60 g cyl	8050	8150	8250	8350	8450
50 g cyl	8052	8152	8252	8352	8452
40 g cyl	8053	8153	8253	8353	8453
30 g cyl	8054	8154	8254	8354	8454
20 g cyl	8056	8156	8256	8356	8456
10 g cyl	8058	8158	8258	8358	8458
1kg-100g set	8070	8170	8270	8370	8470

TROEMNER ULTRAClassSM CALIBRATION & CERTIFICATION

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 National Voluntary Laboratory Accreditation Program (NVLAP). The document contains: customer name, address, date of calibration, accuracy class, true mass value (mass in vacuum), "as found" mass correction (for recalibration), "as left" mass correction 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. To order, specify Troemner part number followed by "W".

Troemner UKAS Certificate of Calibration

Universally accepted throughout the weighing world, Troemner's UKAS Certificate of Calibration meets the requirements of the United Kingdom Accreditation Service. Troemner (UKAS International Calibration No. 0516) is presently the only UKAS-accredited U.S. mass metrology laboratory offering its customers this internationally recognized service. To order, specify the Troemner part number followed by "NA".

Both NVLAP and UKAS calibration/certifications meet all ISO, FDA, GMP, GLP, DOD, ANSI/NCSL Z540-1 and Nuclear requirements and are traceable to NIST.

Troemner NIST-MMAP Report of Mass Values

- As a participant in NIST's Mass Measurement Assurance Program (MMAP), we also offer detailed statistical analysis of mass values, generated by NIST, of our measurements of your

weights. MMAP certification follows a carefully designed calibration procedure - resulting in the highest possible statistical confidence level. To order, specify Troemner part number followed by "M".

Troemner Traceable Certificate

Our Traceable Certificate includes nominal value, mass correction, uncertainty of measurement 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. To order, specify Troemner part number followed by "T".

Statement of Accuracy

Each Troemner weight and weight set is supplied with a Statement of Accuracy which verifies that the product has been manufactured to meet all specifications for its class and has been calibrated using standards traceable to NIST.

TROEMNER

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