

Troemner Alloy 8 Stainless Steel Precision Weights



Precision & Balance Matched Only By Nature.

ANSI/ASTM E617 Classes 0, 1, 2, 3 and 4, and Troemner UltraClass



General Information –

Troemner Alloy 8 Stainless Steel Precision Metric Weights are available in Troemner UltraClass, and ANSI/ASTM E617 Classes 0, 1, 2, 3 and 4. Troemner Alloy 8 Stainless Steel Precision Avoirdupois Weights are available in ANSI/ASTM E617 Classes 1, 2, 3, and 4. ANSI/ASTM Class weights meet or exceed specifications as defined in the ANSI/ASTM E617 standard.

The weights are manufactured of the finest stainless steels available including Troemner Alloy 8 Stainless Steel, which was developed by Troemner and is available exclusively through Troemner. This unique material possesses low magnetic

susceptibility, uniform consistency and high resistance to corrosion. It is the finest grade of stainless steel available and is similar to material originally specified in the manufacture of state primary standards.

Weight specifications are designed so the specifications on surface finish, markings, construction, material density and magnetic properties get more restrictive as the weight tolerances get smaller in order to enable the weight to maintain its tolerance over time. These weights are designed for your most demanding weighing applications.

****Caution**** Class 0 weights have extremely small tolerances and are intended to be used as primary reference standards with direct traceability to national reference standards. They should be used in extremely stable environments and handled with the highest level of care. Otherwise, due to their one-piece design, Class 0 weights will not maintain their measured value within the tolerance class. One may be tempted to purchase the weights



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with the tightest tolerances in order to reduce measurement uncertainty. However, frequency of use, care, handling and environmental conditions all play a major role in the long term stability of weights and these factors should be considered before purchasing Class 0 weights.

Why UltraClass? – Troemner UltraClass weights are the most precise two-piece weights available with weight tolerances 50% greater than ANSI/ASTM E617 Class 1 tolerances. Troemner UltraClass weights combine high precision with the advantage of two-piece construction (1g and larger) avoiding costly replacement issues associated with one-piece weights.

Tolerance Classes – ANSI/ASTM E617 Classes with small numerical designations represent smaller tolerances. Troemner UltraClass weight tolerances are 50% better than ANSI/ASTM E617 Class 1. Please see the Tolerance Chart within the Mass Standards Handbook in the back of this desk reference for the specific tolerances of each weight in any given class.

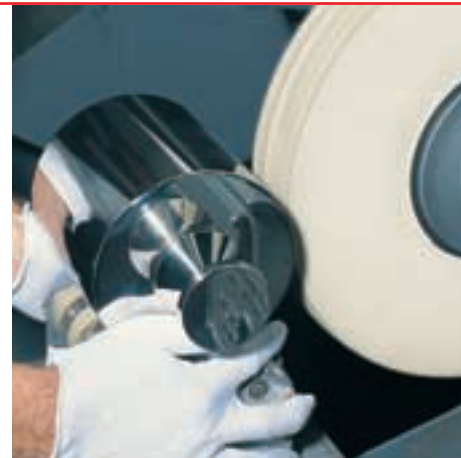
Construction and General Shape –

- Weights 500 mg and lower are made of sheet metal and are one-piece construction with one side turned up to make them easy to handle with forceps. Depending on the class, these weights may or may not be marked with their nominal value.

- Troemner Precision Weights 1 g and larger consist of a body and a lifting knob. The lifting knob is specifically designed for use with forceps, tweezers or some other lifting device. Weight bottoms are slightly recessed to expose the smallest possible area to wear. Each weight (except Class 0 weights) is marked with its nominal value.

- Troemner Precision Weights are available in either one-piece or two-piece construction. One-piece construction indicates the weight is manufactured from a single uniform piece of raw material, the weight has no other material added to it, and it has no method of adjustment other than removing material by grinding or polishing. One-piece weights are difficult to manufacture as the only method of final adjustment is removing material by polishing. Two-piece construction means the weight is made of multiple pieces of raw material. Sheet metal weights 500 mg and below are always one-piece construction.

- Class 0 weights 1 g and larger are of one-piece construction using Troemner Alloy 8 Stainless Steel, which has a consistent



density. Class 0 weights 500 mg and lower are made of sheet metal and are one-piece construction with one side turned up to make them easy to handle with forceps. There are no markings indicating nominal value on any Class 0 weights. Nominal value of weights 500 mg and below are determined by their shape as listed in the table below:

SHAPE	DENOMINATION
Pentagon	500 mg, 50 mg, 5 mg
Square	200 mg, 20 mg, 2 mg
Triangle	100 mg, 10 mg, 1 mg



Top of weight is
marked with
nominal value

Tapered neck allows
for easy handling by
forceps or lifter

Highly polished mirror
like finish allows
scratches and foreign
matter on the weight to
be easily seen

Bottom of weights
are recessed which
reduces wear



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• Troemner UltraClass and ANSI/ASTM Classes 1, 2, 3 and 4 weights 1 g and larger are produced from two pieces of material. The body of the weight is one piece and the knob of the weight is the second piece. The knob has a thread that screws into the

body and is tightened. There is a cavity below the knob thread in the body which contains adjusting material, typically the same material from which the weight is made. Weights 500 mg and below are made of sheet metal and are one-piece construction with one side turned up to make them easy to handle with forceps. Corners and edges are smooth. The nominal value of each weight is etched or stamped on the top surface of the weight and their shape is square.

- Milligram Wire Weights - Troemner Precision Weights 500 mg and below are also available in wire construction as opposed to sheet metal with the shape denoting the nominal value as listed in the following table. These weights are constructed with one end turned up to allow for easy handling with forceps.

Material Specifications for Class 0 weights

BASE MATERIAL	DENSITY	WEIGHT RANGE
Troemner Alloy 8	8.0 g/cm ³ at 20°C	1 g and larger
Stainless Steel	7.95 g/cm ³ at 20°C	10 mg to 500 mg**
Aluminum	2.7 g/cm ³ at 20°C	5 mg and smaller

**30 mg weights are aluminum

The Sheet Metal Weights come standard with the weight products listed here. To order Milligram Wire Weights, specify the Troemner part number listed at the end of this section followed by “-WIRE.”

SHAPE	DENOMINATION
Pentagon	500 mg, 50 mg, 5 mg
Square	200 mg, 20 mg, 2 mg
Triangle	100 mg, 10 mg, 1 mg

Surface Finish – All surfaces are polished to a perfect, mirror-like finish and conform to specifications in ANSI/ASTM E617. For ANSI/ASTM E617 surface finish specifications see the Mass Standards Handbook in the back of this desk reference.

Suggested Applications –

- Class 0 weights are intended to be used in metrology laboratories where the stability of the environment and careful handling are assured. Although very stable, one-piece construction Class 0 weights have no method of adjustment and are not suitable for general laboratory use.
- Troemner UltraClass weights can be also be used as reference standards as well as calibrating Class I balances as specified in

Material Specifications for Troemner UltraClass, Classes 1, 2, 3 and 4

BASE MATERIAL	DENSITY	WEIGHT RANGE
Stainless Steel	7.95 g/cm ³ at 20°C	2 kg and larger
Troemner Alloy 8	8.0 g/cm ³ at 20°C	1 g up to 1 kg
Stainless Steel	7.95 g/cm ³ at 20°C	5 mg to 500 mg**
Aluminum	2.7 g/cm ³ at 20°C	3 mg and smaller

**30 mg weights are aluminum



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OIML R 76. Troemner UltraClass weights can also be used to calibrate Class 1 weights.

- Class 1 weights can be used to calibrate certain Class I and Class II balances and scales as specified in OIML R 76. Class 1 weights can also be used to calibrate Class 2 weights.
- Class 2 weights can be used to calibrate weighing instruments for important commercial transactions like gold and precious stones. They can also be used to calibrate Class 3 weights.
- Class 3 weights can be used for calibrating balances with moderate precision, with a readability as low as 0.1 g to 0.01 g.
- Class 4 weights can be used for calibration of semi-analytical balances and for student use.

Presentation –

- All Troemner weight sets are supplied in protective cases.
- Troemner weight sets where the largest weight is 200 g and lower are supplied in attractive, durable polypropylene cases with a compartment for each weight within the case. There is also a compartment for forceps. The cases are designed so that each weight will stay in its compartment.
- Troemner weight sets, where the largest weight is 500 g and larger are supplied in handcrafted wood cases. Within the interior of the wood case is contained a polypropylene case to hold weights 200 g and below with compartments for each weight. For weights larger than 200 g, a velvet lined compartment for each weight exists within the wood case. There are also compartments for lifters and forceps supplied with each weight set.
- Troemner supplies appropriate lifting devices such as forceps, gloves, and other lifting forks sufficient to handle every weight in the set.
- Troemner individual weights are not supplied in cases. However, protective cases in either wood or polypropylene are available for an extra charge. Wood cases for individual weights are available for weights 1 g and larger. These handcrafted cases feature a fine

wood exterior with an interior compartment that is either fully lined with padded velvet or velour for the given weight or the case has a foam interior.

****Caution**** Weight cases are not intended to be used as shipping containers. When you ship your weights to be calibrated, the weights and weight sets must be overpacked in larger containers and/or cartons to protect your weight cases.

Weight Set Configuration Information – Troemner weight sets are supplied in a 5-2-2-1 series unless a 5-3-2-1 series is specified. 5-2-2-1 series means that weights beginning with a "2" are doubled in each decade and weights beginning with a "5" and "1" are single in each decade. For example, for a set with 5-2-2-1 series from 50 g to 1 g, there is one 50 g, two 20 g, one 10 g, one 5 g, two 2 g, and one 1 g. A 50 g to 1 g set in a 5-3-2-1 series would contain one 50 g, one 30 g, one 20 g, one 10 g, one 5 g, one 3 g, one 2 g, and one 1 g. If a 5-3-2-1 set is required, please contact a Troemner sales representative to discuss your unique needs.

The Metric Weight Set Configuration Table that follows shows each set with a 5-2-2-1 series.



Hummingbird Help

Have you thought about your compliance requirements and the type of certification you need? Refer to the Weight Calibration Certificate Options section of this desk reference for help in determining your needs.



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METRIC PRECISION WEIGHT SETS CONFIGURATION TABLE																											
Weight Set	Part #	50 kg	30 kg	25 kg	20 kg	10 kg	5 kg	2 kg	1 kg	500 g	200 g	100 g	50 g	20 g	10 g	5 g	2 g	1 g	500 mg	200 mg	100 mg	50 mg	20 mg	10 mg	5 mg	2 mg	1 mg
50 kg—1 g	7200	1			2	1	1	2	1	1	2	1	1	2	1	1	2	1									
50 kg—1 mg	7201	1			2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
30 kg—1 g	7202		1		1	1	1	2	1	1	2	1	1	2	1	1	2	1									
30 kg—1 mg	7203		1		1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
25 kg—1 g	7204			1	1	1	1	2	1	1	2	1	1	2	1	1	2	1									
25 kg—1 mg	7205			1	1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
20 kg—1 g	7206				1	1	1	2	1	1	2	1	1	2	1	1	2	1									
20 kg—1 mg	7207				1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
10 kg—1 g	7208					1	1	2	1	1	2	1	1	2	1	1	2	1									
10 kg—1 mg	7209					1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
5 kg—1 g	7210						1	2	1	1	2	1	1	2	1	1	2	1									
5 kg—1 mg	7211						1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
2 kg—1 g*	7212							2	1	1	2	1	1	2	1	1	2	1									
2 kg—1 mg*	7213							2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
2 kg—1 g	7214							1	1	1	2	1	1	2	1	1	2	1									
2 kg—1 mg	7215							1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
1 kg—1 g	7216								1	1	2	1	1	2	1	1	2	1									
1 kg—1 mg	7217								1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
500 g—1 g	7218									1	2	1	1	2	1	1	2	1									
500 g—1 mg	7219									1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
200 g—1 g**	7220										2	1	1	2	1	1	2	1									
200 g—1 mg**	7221										2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
200 g—1 g	7222										1	1	1	2	1	1	2	1									
200 g—1 mg	7223										1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
100 g—1 g	7224											1	1	2	1	1	2	1									
100 g—100 mg	7225											1	1	2	1	1	2	1	1	2	1						
100 g—10 mg	7226											1	1	2	1	1	2	1	1	2	1	1	2	1			
100 g—5 mg	7227											1	1	2	1	1	2	1	1	2	1	1	2	1	1		
100 g—1 mg	7228											1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
50 g—1 g	7229												1	2	1	1	2	1									
50 g—100 mg	7230												1	2	1	1	2	1	1	2	1						
50 g—10 mg	7231												1	2	1	1	2	1	1	2	1	1	2	1			
50 g—5 mg	7232												1	2	1	1	2	1	1	2	1	1	2	1	1		
50 g—1 mg	7233												1	2	1	1	2	1	1	2	1	1	2	1	1	2	1
20 g—1 g	7234													1	1	1	2	1									
20 g—100 mg	7235													1	1	1	2	1	1	2	1						
20 g—10 mg	7236													1	1	1	2	1	1	2	1	1	2	1			
20 g—5 mg	7237													1	1	1	2	1	1	2	1	1	2	1	1		
20 g—1 mg	7238													1	1	1	2	1	1	2	1	1	2	1	1	2	1
500 mg—10 mg	7239																	1		2	1	1	2	1			
500 mg—1 mg	7240																	1		2	1	1	2	1	1	2	1

*Weight Set contains two 2 kg weights
 **Weight Set contains two 200 g weights



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AVOIRDUPOIS PRECISION WEIGHT SETS CONFIGURATION TABLE

		50 lb	30 lb	25 lb	20 lb	10 lb	5 lb	2 lb	1 lb	8 oz	4 oz	2 oz	1 oz	1/2 oz	1/4 oz	1/8 oz	1/16 oz	1/32 oz	0.5 lb	0.2 lb	0.1 lb	0.05 lb	0.02 lb	0.01 lb	0.005 lb	0.002 lb	0.001 lb
Weight Set	Part #																										
50 lb—1/32 oz	6200	1			2	1	1	2	1	1	1	1	1	1	1	1	1	2									
50 lb—0.001 lb	6201	1			2	1	1	2	1										1	2	1	1	2	1	1	2	1
30 lb—1/32 oz	6202		1		1	1	1	2	1	1	1	1	1	1	1	1	1	2									
30 lb—0.001 lb	6203		1		1	1	1	2	1										1	2	1	1	2	1	1	2	1
25 lb—1/32 oz	6204			1	1	1	1	2	1	1	1	1	1	1	1	1	1	2									
25 lb—0.001 lb	6205			1	1	1	1	2	1										1	2	1	1	2	1	1	2	1
20 lb—1/32 oz	6206				1	1	1	2	1	1	1	1	1	1	1	1	1	2									
20 lb—0.001 lb	6207				1	1	1	2	1										1	2	1	1	2	1	1	2	1
10 lb—1/32 oz	6208					1	1	2	1	1	1	1	1	1	1	1	1	2									
10 lb—0.001 lb	6209					1	1	2	1										1	2	1	1	2	1	1	2	1
5 lb—1/32 oz	6210						1	2	1	1	1	1	1	1	1	1	1	2									
5 lb—0.001 lb	6211						1	2	1										1	2	1	1	2	1	1	2	1
2 lb—1/32 oz	6212							1	1	1	1	1	1	1	1	1	1	2									
2 lb—0.001 lb	6213							1	1										1	2	1	1	2	1	1	2	1
1 lb—1/32 oz	6214								1	1	1	1	1	1	1	1	1	2									
1 lb—0.001 lb	6215								1										1	2	1	1	2	1	1	2	1
8 oz—1/32 oz	6216									1	1	1	1	1	1	1	1	2									
0.5 lb—0.001 lb	6217																		1	2	1	1	2	1	1	2	1



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METRIC PRECISION INDIVIDUAL WEIGHTS						
Weight	Class 0 Part #	UltraClass SM Part #	Class 1 Part #	Class 2 Part #	Class 3 Part #	Class 4 Part #
1000 kg						7000-4
500 kg						7001-4
300 kg						7002-4
200 kg						7003-4
100 kg						7004-4
50 kg	7005-00	7005-0	7005-1	7005-2	7005-3	7005-4
30 kg	7006-00	7006-0	7006-1	7006-2	7006-3	7006-4
25 kg	7007-00	7007-0	7007-1	7007-2	7007-3	7007-4
20 kg	7008-00	7008-0	7008-1	7008-2	7008-3	7008-4
10 kg	7009-00	7009-0	7009-1	7009-2	7009-3	7009-4
5 kg	7010-00	7010-0	7010-1	7010-2	7010-3	7010-4
3 kg	7011-00	7011-0	7011-1	7011-2	7011-3	7011-4
2 kg	7012-00	7012-0	7012-1	7012-2	7012-3	7012-4
1 kg	7013-00	7013-0	7013-1	7013-2	7013-3	7013-4
500 g	7014-00	7014-0	7014-1	7014-2	7014-3	7014-4
300 g	7015-00	7015-0	7015-1	7015-2	7015-3	7015-4
200 g	7016-00	7016-0	7016-1	7016-2	7016-3	7016-4
100 g	7017-00	7017-0	7017-1	7017-2	7017-3	7017-4
50 g	7018-00	7018-0	7018-1	7018-2	7018-3	7018-4
30 g	7019-00	7019-0	7019-1	7019-2	7019-3	7019-4
20 g	7020-00	7020-0	7020-1	7020-2	7020-3	7020-4
10 g	7021-00	7021-0	7021-1	7021-2	7021-3	7021-4
5 g	7022-00	7022-0	7022-1	7022-2	7022-3	7022-4
3 g	7023-00	7023-0	7023-1	7023-2	7023-3	7023-4
2 g	7024-00	7024-0	7024-1	7024-2	7024-3	7024-4
1 g	7025-00	7025-0	7025-1	7025-2	7025-3	7025-4
500 mg	7026-00	7026-0	7026-1	7026-2	7026-3	7026-4
300 mg	7027-00	7027-0	7027-1	7027-2	7027-3	7027-4
200 mg	7028-00	7028-0	7028-1	7028-2	7028-3	7028-4
100 mg	7029-00	7029-0	7029-1	7029-2	7029-3	7029-4
50 mg	7030-00	7030-0	7030-1	7030-2	7030-3	7030-4
30 mg	7031-00	7031-0	7031-1	7031-2	7031-3	7031-4
20 mg	7032-00	7032-0	7032-1	7032-2	7032-3	7032-4
10 mg	7033-00	7033-0	7033-1	7033-2	7033-3	7033-4
5 mg	7034-00	7034-0	7034-1	7034-2	7034-3	7034-4
3 mg	7035-00	7035-0	7035-1	7035-2	7035-3	7035-4
2 mg	7036-00	7036-0	7036-1	7036-2	7036-3	7036-4
1 mg	7037-00	7037-0	7037-1	7037-2	7037-3	7037-4

METRIC PRECISION WEIGHT SETS						
Weight Set	Class 0 Part #	UltraClass SM Part #	Class 1 Part #	Class 2 Part #	Class 3 Part #	Class 4 Part #
50 kg—1 g	7200-00	7200-0	7200-1	7200-2	7200-3	7200-4
50 kg—1 mg	7201-00	7201-0	7201-1	7201-2	7201-3	7201-4
30 kg—1 g	7202-00	7202-0	7202-1	7202-2	7202-3	7202-4
30 kg—1 mg	7203-00	7203-0	7203-1	7203-2	7203-3	7203-4
25 kg—1 g	7204-00	7204-0	7204-1	7204-2	7204-3	7204-4
25 kg—1mg	7205-00	7205-0	7205-1	7205-2	7205-3	7205-4
20 kg—1 g	7206-00	7206-0	7206-1	7206-2	7206-3	7206-4
20 kg—1 mg	7207-00	7207-0	7207-1	7207-2	7207-3	7207-4
10 kg—1 g	7208-00	7208-0	7208-1	7208-2	7208-3	7208-4
10 kg—1 mg	7209-00	7209-0	7209-1	7209-2	7209-3	7209-4
5 kg—1 g	7210-00	7210-0	7210-1	7210-2	7210-3	7210-4
5 kg—1 mg	7211-00	7211-0	7211-1	7211-2	7211-3	7211-4
2 kg—1 g*	7212-00	7212-0	7212-1	7212-2	7212-3	7212-4
2 kg—1 mg*	7213-00	7213-0	7213-1	7213-2	7213-3	7213-4
2 kg—1 g	7214-00	7214-0	7214-1	7214-2	7214-3	7214-4
2 kg—1 mg	7215-00	7215-0	7215-1	7215-2	7215-3	7215-4
1 kg—1 g	7216-00	7216-0	7216-1	7216-2	7216-3	7216-4
1 kg—1 mg	7217-00	7217-0	7217-1	7217-2	7217-3	7217-4
500 g—1 g	7218-00	7218-0	7218-1	7218-2	7218-3	7218-4
500 g—1 mg	7219-00	7219-0	7219-1	7219-2	7219-3	7219-4
200 g—1 g**	7220-00	7220-0	7220-1	7220-2	7220-3	7220-4
200 g—1 mg**	7221-00	7221-0	7221-1	7221-2	7221-3	7221-4
200 g—1 g	7222-00	7222-0	7222-1	7222-2	7222-3	7222-4
200 g—1 mg	7223-00	7223-0	7223-1	7223-2	7223-3	7223-4
100 g—1 g	7224-00	7224-0	7224-1	7224-2	7224-3	7224-4
100 g—100 mg	7225-00	7225-0	7225-1	7225-2	7225-3	7225-4
100 g—10 mg	7226-00	7226-0	7226-1	7226-2	7226-3	7226-4
100 g—5 mg	7227-00	7227-0	7227-1	7227-2	7227-3	7227-4
100 g—1 mg	7228-00	7228-0	7228-1	7228-2	7228-3	7228-4
50 g—1 g	7229-00	7229-0	7229-1	7229-2	7229-3	7229-4
50 g—100 mg	7230-00	7230-0	7230-1	7230-2	7230-3	7230-4
50 g—10 mg	7231-00	7231-0	7231-1	7231-2	7231-3	7231-4
50 g—5 mg	7232-00	7232-0	7232-1	7232-2	7232-3	7232-4
50 g—1 mg	7233-00	7233-0	7233-1	7233-2	7233-3	7233-4
20 g—1 g	7234-00	7234-0	7234-1	7234-2	7234-3	7234-4
20 g—100 mg	7235-00	7235-0	7235-1	7235-2	7235-3	7235-4
20 g—10 mg	7236-00	7236-0	7236-1	7236-2	7236-3	7236-4
20 g—5 mg	7237-00	7237-0	7237-1	7237-2	7237-3	7237-4
20 g—1 mg	7238-00	7238-0	7238-1	7238-2	7238-3	7238-4
500 mg—10 mg	7239-00	7239-0	7239-1	7239-2	7239-3	7239-4
500 mg—1 mg	7240-00	7240-0	7240-1	7240-2	7240-3	7240-4

*Weight Set contains two 2 kg weights

**Weight Set contains two 200 g weights

ANSI/ASTM E617 Classes 0, 1, 2, 3 and 4, and Troemner UltraClass

AVOIRDUPOIS PRECISION INDIVIDUAL WEIGHTS

Weight	Class 1 Part #	Class 2 Part #	Class 3 Part #	Class 4 Part #
2000 lb				6000-4
1000 lb				6001-4
500 lb				6002-4
100 lb	6003-1	6003-2	6003-3	6003-4
50 lb	6004-1	6004-2	6004-3	6004-4
30 lb	6005-1	6005-2	6005-3	6005-4
25 lb	6006-1	6006-2	6006-3	6006-4
20 lb	6007-1	6007-2	6007-3	6007-4
10 lb	6008-1	6008-2	6008-3	6008-4
5 lb	6009-1	6009-2	6009-3	6009-4
4 lb	6010-1	6010-2	6010-3	6010-4
3 lb	6011-1	6011-2	6011-3	6011-4
2 lb	6012-1	6012-2	6012-3	6012-4
1 lb	6013-1	6013-2	6013-3	6013-4
0.5 lb	6014-1	6014-2	6014-3	6014-4
0.3 lb	6015-1	6015-2	6015-3	6015-4
0.2 lb	6016-1	6016-2	6016-3	6016-4
0.1 lb	6017-1	6017-2	6017-3	6017-4
0.05 lb	6018-1	6018-2	6018-3	6018-4
0.03 lb	6019-1	6019-2	6019-3	6019-4
0.02 lb	6020-1	6020-2	6020-3	6020-4
0.01 lb	6021-1	6021-2	6021-3	6021-4
0.005 lb	6022-1	6022-2	6022-3	6022-4
0.003 lb	6023-1	6023-2	6023-3	6023-4
0.002 lb	6024-1	6024-2	6024-3	6024-4
0.001 lb	6025-1	6025-2	6025-3	6025-4
8 oz	6026-1	6026-2	6026-3	6026-4
4 oz	6027-1	6027-2	6027-3	6027-4
2 oz	6028-1	6028-2	6028-3	6028-4
1 oz	6029-1	6029-2	6029-3	6029-4
1/2 oz	6030-1	6030-2	6030-3	6030-4
1/4 oz	6031-1	6031-2	6031-3	6031-4
1/8 oz	6032-1	6032-2	6032-3	6032-4
1/16 oz	6033-1	6033-2	6033-3	6033-4
1/32 oz	6034-1	6034-2	6034-3	6034-4
1/64 oz	6035-1	6035-2	6035-3	6035-4
0.5 oz	6036-1	6036-2	6036-3	6036-4
0.3 oz	6037-1	6037-2	6037-3	6037-4
0.2 oz	6038-1	6038-2	6038-3	6038-4
0.1 oz	6039-1	6039-2	6039-3	6039-4
0.05 oz	6040-1	6040-2	6040-3	6040-4
0.03 oz	6041-1	6041-2	6041-3	6041-4
0.02 oz	6042-1	6042-2	6042-3	6042-4
0.01 oz	6043-1	6043-2	6043-3	6043-4

AVOIRDUPOIS PRECISION WEIGHT SETS

Weight Set	Class 1 Part #	Class 2 Part #	Class 3 Part #	Class 4 Part #
50 lb—1/32 oz	6200-1	6200-2	6200-3	6200-4
50 lb—0.001 lb	6201-1	6201-2	6201-3	6201-4
30 lb—1/32 oz	6202-1	6202-2	6202-3	6202-4
30 lb—0.001 lb	6203-1	6203-2	6203-3	6203-4
25 lb—1/32 oz	6204-1	6204-2	6204-3	6204-4
25 lb—0.001 lb	6205-1	6205-2	6205-3	6205-4
20 lb—1/32 oz	6206-1	6206-2	6206-3	6206-4
20 lb—0.001 lb	6207-1	6207-2	6207-3	6207-4
10 lb—1/32 oz	6208-1	6208-2	6208-3	6208-4
10 lb—0.001 lb	6209-1	6209-2	6209-3	6209-4
5 lb—1/32 oz	6210-1	6210-2	6210-3	6210-4
5 lb—0.001 lb	6211-1	6211-2	6211-3	6211-4
2 lb—1/32 oz	6212-1	6212-2	6212-3	6212-4
2 lb—0.001 lb	6213-1	6213-2	6213-3	6213-4
1 lb—1/32 oz	6214-1	6214-2	6214-3	6214-4
1 lb—0.001 lb	6215-1	6215-2	6215-3	6215-4
8 oz—1/32 oz	6216-1	6216-2	6216-3	6216-4
0.5 lb—0.001 lb	6217-1	6217-2	6217-3	6217-4



TROEMNER
Calibration Technologies & Precision Weights

ANSI/ASTM E617 Classes 0, 1, 2, 3 and 4, and Troemner UltraClass



Ordering a Certificate With Your Weight or Weight Set –

There is a choice of certificates available for your Troemner Precision Weight or Weight Set to meet your traceability and compliance needs. Complete information on our calibration certificates is located in the Weight Calibration Certificate Options section of this desk reference. Sample certificates are available for viewing on our website at www.troemner.com.

- Weights and weight sets supplied without weight certificates come with **Troemner's Statement of Accuracy**.
- To order **Troemner's NVLAP Weight Calibration Certificate**, specify the Troemner part number using the table at the end of this section followed by "W."
- To order **Troemner's UKAS Certificate of Calibration**, specify the Troemner part number followed by "NA."



No. 0516

- To order **Troemner's Traceable Certificate**, specify the Troemner part number followed by "T."
- To order **Troemner's Mass Code Report of Mass Values**, specify the Troemner part number followed by "M."
- To order **Troemner's NVLAP Density Determination Calibration Certificate** for one-piece construction Weights and Mass Standards, specify the Troemner part number of the weight or weight set followed by part number WDC-1111. Visit our website at www.troemner.com to view our NVLAP Density Determination Calibration Certificate.



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



ANSI/ASTM E617 Classes 0, 1, 2, 3 and 4, and Troemner UltraClass

Accessories – Troemner can provide you with all the accessories you need for proper handling and protection of your Precision Weights and Weight Sets. Please contact us for specific information on new cases, replacement cases, or special cases you need to store and protect your weights.



PRECISION WEIGHT ACCESSORIES

Description	Part #
Forceps	
240 mm Stainless Steel Forceps with silicone tips for lifting 1 g-1 kg weights	WA439
165 mm Stainless Steel Forceps with silicone tips for lifting 1 g-200 g weights	WA438
100 mm Stainless Steel Forceps with silicone tips for lifting 1 mg-100 g weights	WA437
Plastic Forceps for 1 mg-100 g Precision Weights	WA056
Weight Lifters & Forks	
Wood Weight Fork for 200 g-500 g or 1/2 lb-1 lb Precision Weights	WA001
Small Weight Lifter for 1 kg-5 kg or 2 lb-10 lb Precision Weights	WA405
Large Weight Lifter for 10 kg-25 kg or 20 lb-50 lb Precision Weights	WA404
Brushes	
Extra large 250 mm Brush - 25 mm diameter brush head	WA443
Large 150 mm Brush - 20 mm diameter brush head	WA442
Medium 115 mm Brush - 10 mm diameter brush head	WA441
Small 100 mm Brush - 5 mm diameter brush head	WA440
Gloves	
Leather Glove (Specify left or right)	WA436
Cotton Glove (Single glove, fits either hand)	WA061
Weight Dolly	
Weight Dolly - 400 kg or 900 lb capacity	WA015