

# Troemner Cast Iron Slotted Weights



*Precision & Balance Matched Only By Nature.*

## **General Information** –

Cast Iron Class 6 Slotted Weights are used in a variety of applications such as pressure, torque, and tensile strength testing. Cast Iron Class 6 Slotted Weights are typically used with a hanger that also has its weight calibrated so the hanger can be used as part of the overall weight under test. Several Cast Iron Class 6 Slotted Weights may be used together to build up from a minimum weight to a maximum test load. The hanger weight selected should be able to accommodate the total load needed.

**Tolerances** – Cast Iron Slotted Weights are adjusted to ANSI/ASTM E617 Class 6. Please see the Tolerance Chart within the Mass Standards Handbook in the back of this desk reference for specific information on the tolerance of each weight.

## **Construction and General Shape** –

Troemner's Cast Iron Slotted Weights are manufactured from a high quality iron that meets ANSI/ASTM E617 hardness requirements. Castings also meet ANSI/ASTM E617 surface roughness requirements and are free of cracks, pits and sharp edges. There are adjusting cavities in each weight above 2 kg / 5 lb. Weights below 2 kg / 5 lb are adjusted by removing material from the underside of the weight. Each weight has the nominal value cast into the topside of the weight. Weights are protected by a durable coat of paint – gold for metric and silver for avoirdupois – to protect the casting from rusting. Weights

50 kg / 100 lb and above are provided with two handles on opposite ends to aid in lifting.

**Hangers** – Cast Iron Slotted Weights are typically used with a hanger that also has its weight calibrated so the hanger can be used as part of the overall weight under test. Weight hangers are available in a variety of lengths and weight capacities. Hangers are calibrated to a mass value, and also have a capacity of how much weight can be loaded onto them. The length of each hanger is listed in the table that follows. To determine which hanger will accommodate your weights, use the stem height of the hanger as the maximum height, then use the thickness dimension of each weight along with the quantity you intend to place on the hanger to determine the total height of your stack of weights. The height of your stack of weights should be less than the length of the hanger. The dimension of the hook opening is 1/2 inch.

**Surface Finish** – All surfaces shall be smooth and free of scratches, dents and pores as outlined in ANSI/ASTM E617. Paint will be hard and resistant to chipping. Color codings (gold for metric and silver for avoirdupois) shall be used to differentiate the weights. For ANSI/ASTM E617 surface finish specifications see the Mass Standards Handbook in the back of this desk reference.

## **Ordering a Certificate With Your Weight or Weight Set** –

The following certificates are available 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.

- 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 Traceable Certificate**, specify the Troemner part number followed by "T."

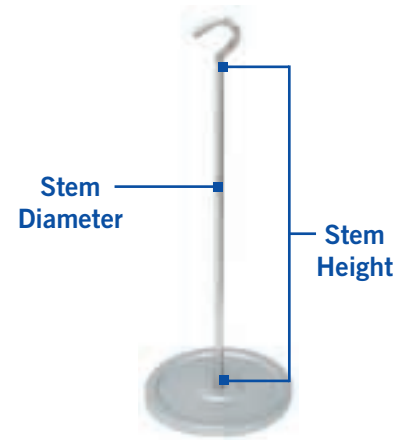
NVLAP®

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

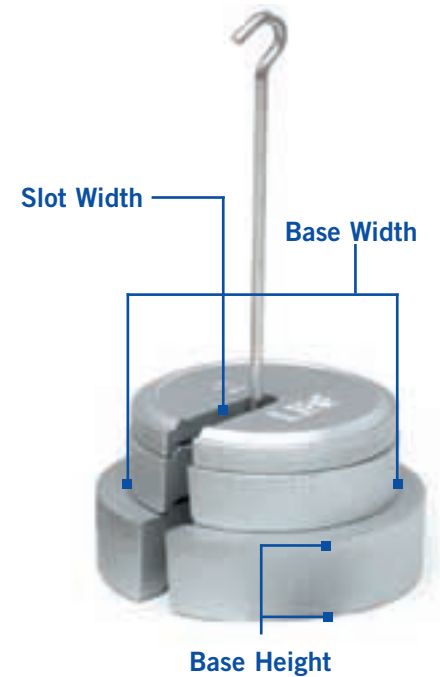


## Cast Iron Slotted Weights

AVOIRDUPOIS CAST IRON SLOTTED WEIGHTS							
Weight	Part #	Width (diameter) base (inches)	Height base (inches)	Slot Width (inches)	Stem Diameter (inches)	Stem Height (inches)	Hanger Capacity
200 lb*	9752	17.00	3.63	1.00			
100 lb*	9750	17.00	1.88	1.00			
50 lb	9498	10.25	2.75	0.56			
25 lb	9497	10.25	1.38	0.56			
20 lb	9496	8.00	1.88	0.56			
10 lb	9494	6.00	1.50	0.56			
5 lb	9492	5.00	1.13	0.56			
2 lb	9490	5.00	0.56	0.56			
1 lb	9488	5.00	0.31	0.56			
1/2 lb	9486	3.75	0.31	0.56			
5 lb Hanger	9484	5.00	1.00		0.31	36.00	500 lbs
2 lb Hanger	9482	3.75	1.13		0.25	20.25	300 lbs
2 lb Hanger	9480	3.75	1.13		0.25	9.25	300 lbs
1 lb Hanger	9478	3.75	0.31		0.25	20.25	200 lbs
1 lb Hanger	9476	3.75	0.31		0.25	9.25	200 lbs



METRIC CAST IRON SLOTTED WEIGHTS							
Weight	Part #	Width (diameter) base (inches)	Height base (inches)	Slot Width (inches)	Stem Diameter (inches)	Stem Height (inches)	Hanger Capacity
100 kg*	9702	17.00	4.00	1.00			
50 kg*	9700	17.00	2.00	1.00			
20 kg	9698	10.25	2.38	0.56			
10 kg	9696	8.00	1.94	0.56			
5 kg	9694	6.00	1.69	0.56			
2 kg	9692	5.00	1.00	0.56			
1 kg	9690	5.00	0.56	0.56			
500 g	9688	5.00	0.31	0.56			
200 g	9686	3.75	0.31	0.56			
2 kg Hanger	9685	5.00	0.88		0.31	36.00	250 kg
1 kg Hanger	9684	3.75	1.13		0.25	20.25	75 kg
1 kg Hanger	9682	3.75	1.13		0.25	9.25	75 kg
500 g Hanger	9680	3.75	0.38		0.25	20.25	50 kg
500 g Hanger	9678	3.75	0.44		0.25	9.25	50 kg



\*Signifies weights with handles