

ACCESSORIES

Model No.	Item No.	Description
183-00	80780011	Specific Gravity Rod and Clamp
703-00	80780014	Footed Polypropylene Scoop, 12" x 6" x 2%" and Counterweight
703-S0	80780015	Footed Stainless Steel Scoop, 12" x 6" x 23/4" and Counterweight
706-00	80780017	Vinyl Dust Cover
707-00	80780108	Metric Attachment Weight Set: two 1000g and one 500g
80250400	80250400	Scoop, Stainless Steel, 12" x 6" x 23/4"
1101-20	80780006	Footed Polypropylene Scoop. 12" x 6" x 23/4"

SPECIFICATIONS

CAPACITY
With Attachment Weights Without Attachment Weights 610g
READABILITY 0.1g
BEAM CALIBRATIONS
Center Beam 500g x 100g
Rear Beam 100g x 10g

REPLACEMENT PARTS:

Contact Ohaus Corporation or your authorized dealer.



LIMITED WARRANTY

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. The warranty period shall begin on the date of shipment to the authorized dealer or on the date of a properly returned warranty registration card. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.



1600 Series Balance

Instruction Manual

Please read this manual before unpacking, setting up and using your balance.

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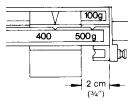
UNPACKING

Your new precision balance was protected during shipment by a specially designed carton. Carefully remove the balance, the attachment weights (included with some models) and the separately packaged Poise (sliding weight) from the carton and place the balance on a reasonably flat and level surface.

Remove the slit rubber washer, which is lodged underneath the platform support, and the plain rubber washer that is located above the pointer.

SET UP

Locate the bevel on the back of the center beam and slide the separate Poise up into it. Tilt the Poise over into place on the beam.



Place both sliding Poises and the Dial at their zero positions.



Move the Tare Poise to the extreme left.

The Pointer should come to rest near the zero balance position.

ZEROING

To obtain exact zero balance, adjust the Balance Compensator (knurled knob) which is located at the left end of the beam.

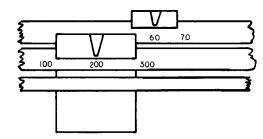


It is recommended that the zero balance be checked peri-odically to ensure accurate weight readings.

VEIGHING

When exact zero balance has been obtained, proceed as follows:

- 1. Place the specimen in the center of the Platform.
- 2. Starting with the largest capacity beam (500 gram), move the 500 gram Poise toward the right to the first notch that causes the Pointer to drop, then move it back one notch, which causes the Pointer to rise.
- 3. Repeat the above procedure with the 100 gram Poise.

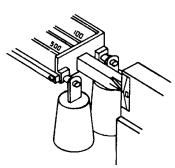


4. Turn the Dial until the Pointer comes to rest at zero.

The weight of the specimen is the sum of the values of the Poise positions, read directly from the Graduated Beams and the position of the Dial.

OPTIONAL ATTACHMENT WEIGHTS

The total capacity of the balance when Attachment Weights are suspended from the pivots is 2610 grams.

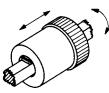


Without attachment weights, the capacity is 610 grams.

USE OF THE TARE

All models are equipped with a patented Tare Poise which will counterbalance empty containers up to and including 225 grams.

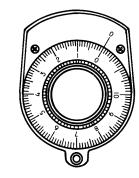
To use the Tare Poise, slide it to a position of approximate balance, and then rotate the Poise to obtain exact zero balance.



The net weight of the contents of the container may then be determined in the usual manner.

FEATURES

CONVENIENT DIAL READING
 Enables weighing to 0.1 gram without the need for an added poise.



 TIERED BEAM VISIBILITY AND ZERO ADJUST Combination provides high speed efficiency and reduces errors.

MAGNETIC DAMPING

Based on the principle of a permanent magnetic field resisting the motion of the non-magnetic aluminum damper vane. The damping force is proportional to the velocity of the damper vane and reduces to zero when the vane comes to rest.

Speeds up weighing by causing the beam to come to rest quickly without affecting sensitivity or accuracy. The system is permanent, self-regulating, frictionless and effective at all loads.

- TARE BEAM AND POISE
 Simplifies repetitive weighings and chemical
 formulations by eliminating the container weight from
 calculations.
- OPTIONAL ATTACHMENT WEIGHTS store conveniently in the base when not in use.

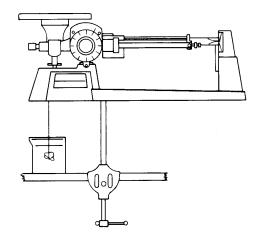
CARE AND MAINTENANCE

Keep the balance clean at all times. In general, most foreign matter may be easily removed by using an air syringe. A piece of adhesive-backed tape pressed against the Magnet faces will keep them free from dirt.

SPECIFIC GRAVITY DETERMINATION

Ohaus Model 183 clamp and Rod Support is an accessory which elevates the balance for suspending specimens in water.

The rod is inserted into half inch (12.7 mm) diameter recess on the underside of the base. The specimen is attached to the check pin by means of a fine wire or thread. The check pin connects the check rod assembly to the platform loop under the base.



FORMULAS

 Solids denser than water.
 First weigh the specimen in air and then weigh it immersed in water.

· Solids less dense than water.

It is necessary to attach a sinker and then make the following weighings:

- a. Weight of specimen in air
- b. Combined weight of specimen in air plus sinker in water.
- c. Weight of both specimen and sinker in water.

$$SG = \frac{a}{b}$$



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