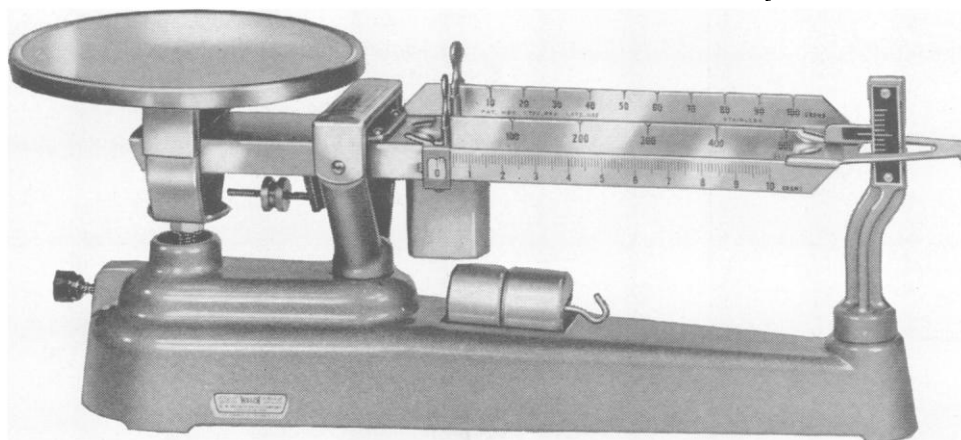


Welch TRIPLE-BEAM BALANCE

LOW FORM

- **Fast, Accurate Operation**
- **Rugged, Compact Construction**
- **Large Capacity-1610 Grams**
- **Sensitivity to 0.1 Gram**



No. 4048.

4048. TRIPLE-BEAM BALANCE, Low Form.

This modern general-purpose balance is particularly well suited for physics and general science laboratories.

It weighs to 1610 grams with a sensitivity of better than 0.1 gram.

One-piece Beam of Stainless Steel

By skillful design, the beam has been given excellent rigidity and low inertia—primary requirements for a good balance. It is formed of a single piece of stainless steel.

Each scale arm is somewhat higher than the one in front of it, making eye-level readings easier and making the center and rear poises, or sliding weights, more accessible. By etching the numerals and scale divisions directly onto the stainless steel, separate scale plates with their rivets and screws are eliminated. Calibration notches on the arms are wide and deep to make incorrect poise settings quite unlikely. The lifting bar on the central poise does not obscure the rear scale and all poises are non-removable. And lastly, the design is such that the beam can be manufactured economically on a quantity basis, thereby providing a better balance at lower cost.

Durable Knife-edges and Bearings

Both pairs of knife-edges are of Cobalite, a special alloy having exceptionally good properties for this application. All four bearings are large, widely spaced, pre-aligned with precision fixtures, and made of agate. They are well covered to prevent contamination by spilled materials or damage by accidental blows.

Serviceable Finish

The useful life of most balances is limited by corrosion. This Welch balance has its pan, beam, and virtually all exposed moving parts constructed of stainless steel to provide maximum resistance to corrosion. The base and other parts are finished in silver-gray Hammerloid, a smooth, acid-resistant finish that resists chipping and cracking, can be wiped clean with a damp cloth, and retains its beautiful luster indefinitely. There are no corners in the base to collect dirt or spilled materials.

All Essential Features Plus Extras

To speed up weighing operations, a beam arrest is provided at the left end of the base. The oscillating beam damps down instantly when the button is pressed. It is spring released.

Zero adjustment is provided by double knurled nuts which lock where set. They are located below the pan where accidental disturbance of their adjustment is unlikely.

A hook is provided on the mechanism under the pan for suspending objects below the base, as in specific-gravity determinations. The entire balance may be supported on a vertical rod, a 13-mm hole being provided for this purpose on the under side of the base casting. This means of support is advantageous not only for specific-gravity work but for eye-level weighing in general, and wherever table surface is limited.

The balance is 5¾ inches high and 15¾ inches long. The pan is 5¾ inches in diameter. Two extra weights to give a capacity of 1610 grams are included.

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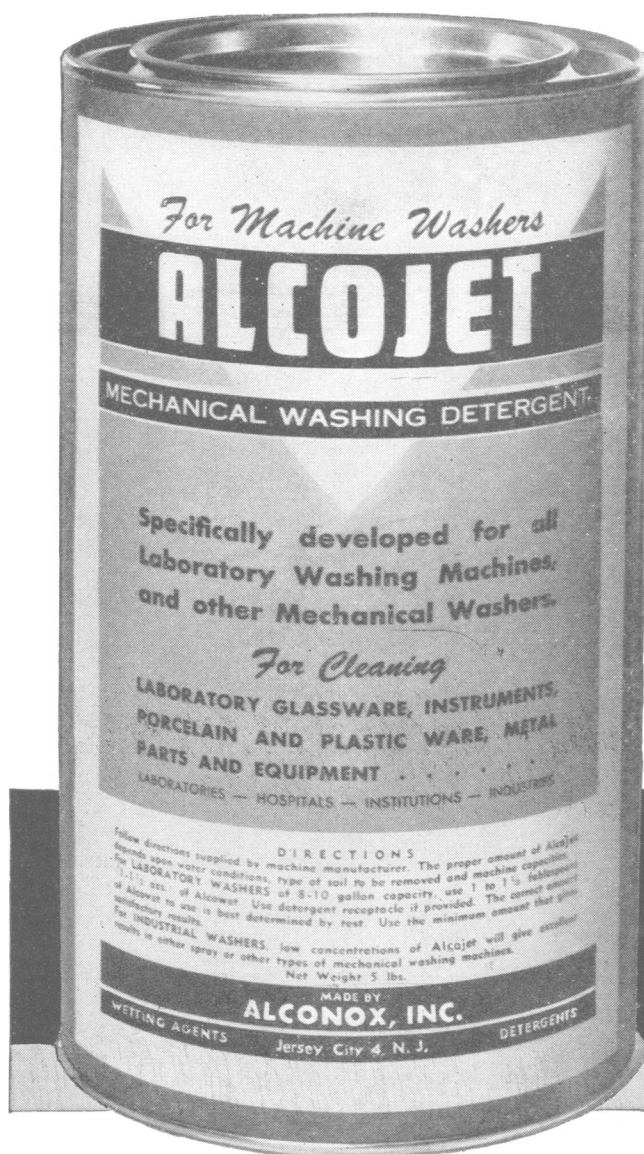
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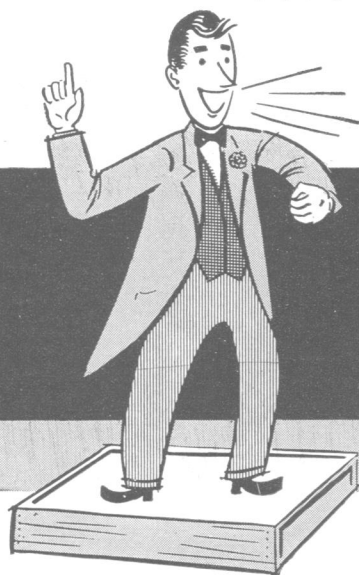
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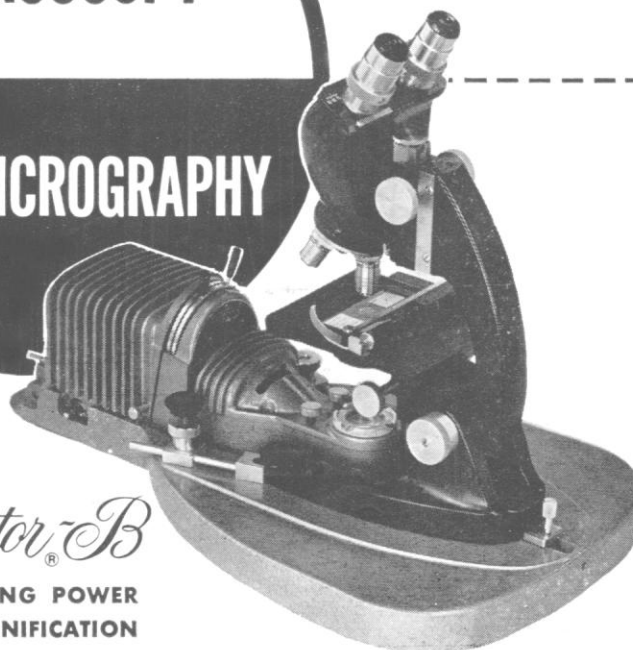
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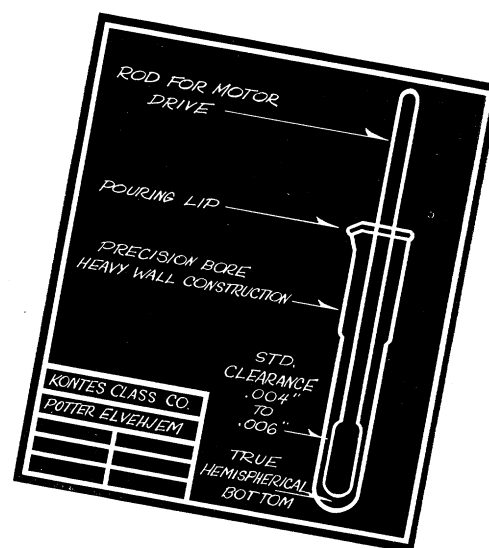
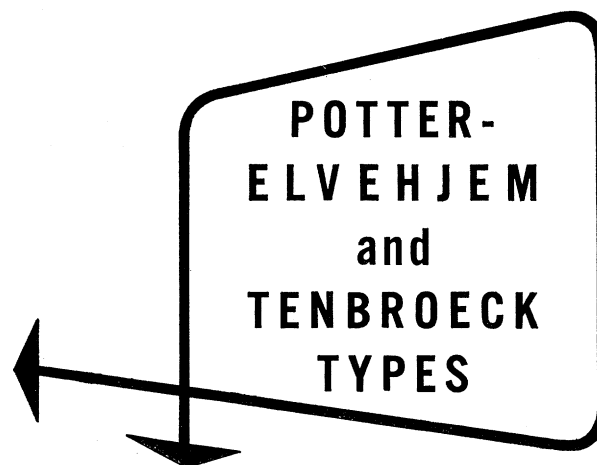
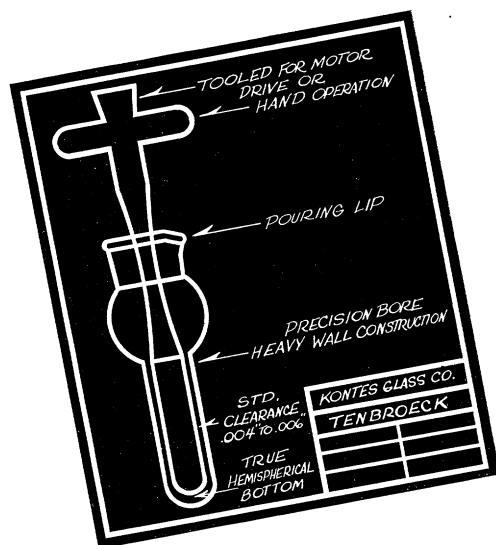
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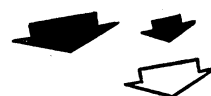
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