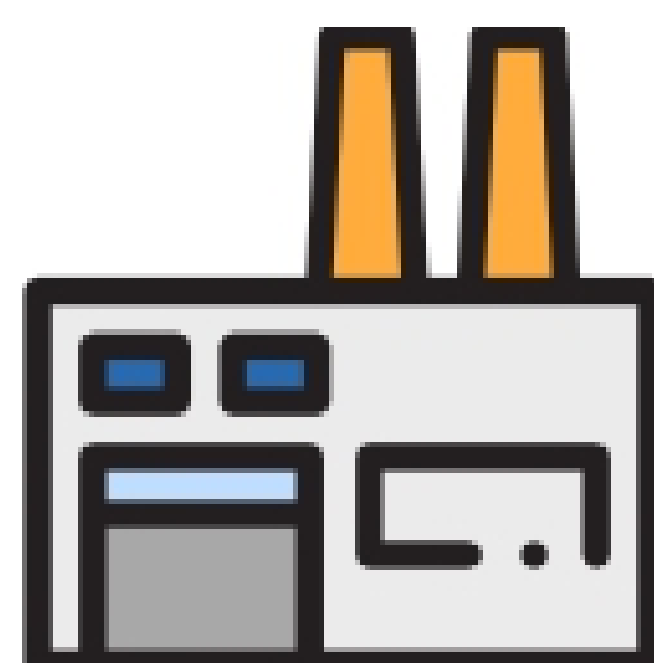


Multifunction Powder, Solid & Porous Density Tester

Quality control is a frustrating part in the manufacturing process for many plastic manufacturers. In addition to the testing of the **initial raw materials**, the **mixing ratio**, the **production processes**, and the **final product**, the applicable methods for monitoring quality are also different, which requires totally different testing methods.

MatsuHaku specially launched a new series that provides a more **accurate** and **convenient** density measurement method for you. **TWS-M series Professional multi-functional powder, solid, porous density tester** The **all-in-one** machine saves you time, effort and stabilizes high-quality products.



International Standard

MatsuHaku Powder & Solid & Porous Density Tester uses Archimedes buoyancy method to detect samples. Refer to the standard **ASTM C20, C134, C329, C373, D297-93, D618, D792-00, D891, SL-237, JIS 6530, ISO 2781, EN-725, GB/T 1033, 1966, 2413, 2834, 533-A, 6155, 23561, 5300, 1713, 8929, 208, 9966, 18856, 24203, 8330, 5071, QB/T 1010, and JB/T 7984.3.**

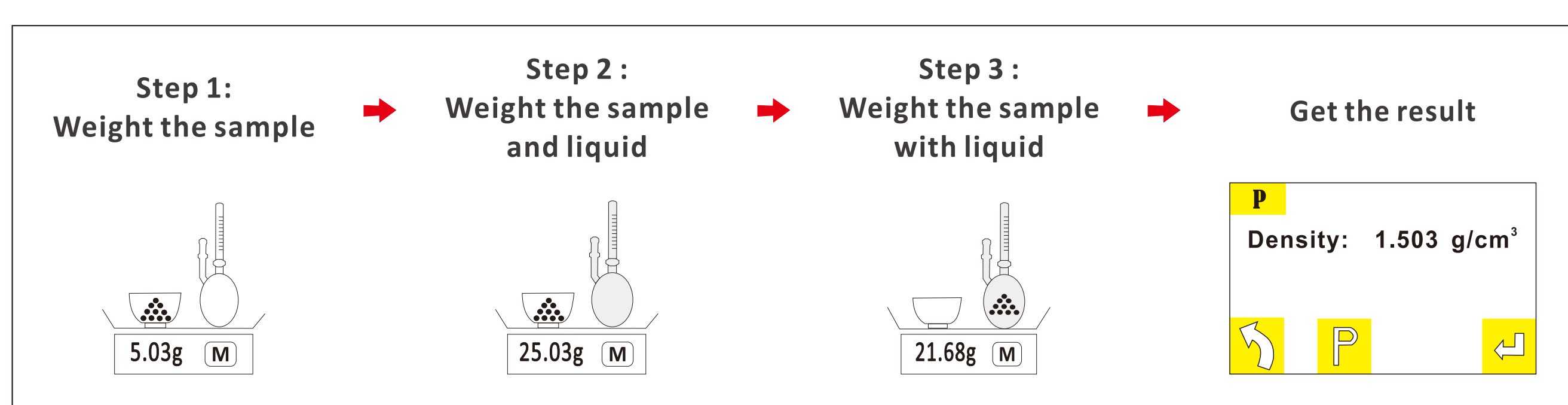
TWS-M Series Powder Mode

Show the **true density** of the powder sample directly, and overcomes the problem of inaccurate data measurement.



Features:

- Choose a liquid that doesn't dissolve and easily wets the sample particles.
- For ceramic materials such as feldspar, quartz, and other products can generally use distilled water as an intermediary solution.
- For cement, organic liquid media such as kerosene or xylene can be used.
- Organic solvents are generally used for inorganic powder.
- By using an agate bowl to grind sample into powder and pass a 240-mesh standard sieve, and put the powder sample into a weighing bottle. Put it into 105° infrared moisture meter to dry, take it out, cool it slightly, and put it in a desiccator to cool to room temperature.

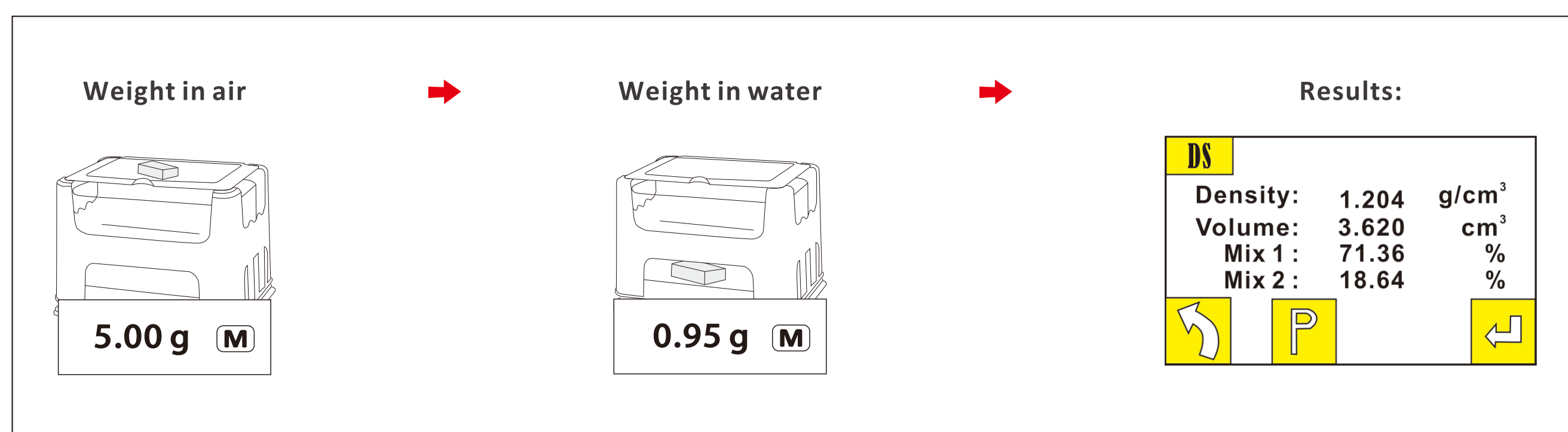


TWS-M Series Solid Mode

Show the **density, volume and mixing ratio** of the sample directly. To overcome the problem of inaccurate data, and obtain the sample density value with the most accurate and fast way.

Features:

- With the function of mixing ratio, measure the ratio of the main materials in the two mixed materials.
- With Infrared temperature sensors can automatically detect the water temperature and automatically compensate for water temperature.
- With upper and lower limit functions and buzzer device, can determine whether the specific gravity of the test object is qualified or not.
- The large tank design is to reduce the error that caused by the buoyancy. The size of the water tank is 148 × 100 × 85mm.



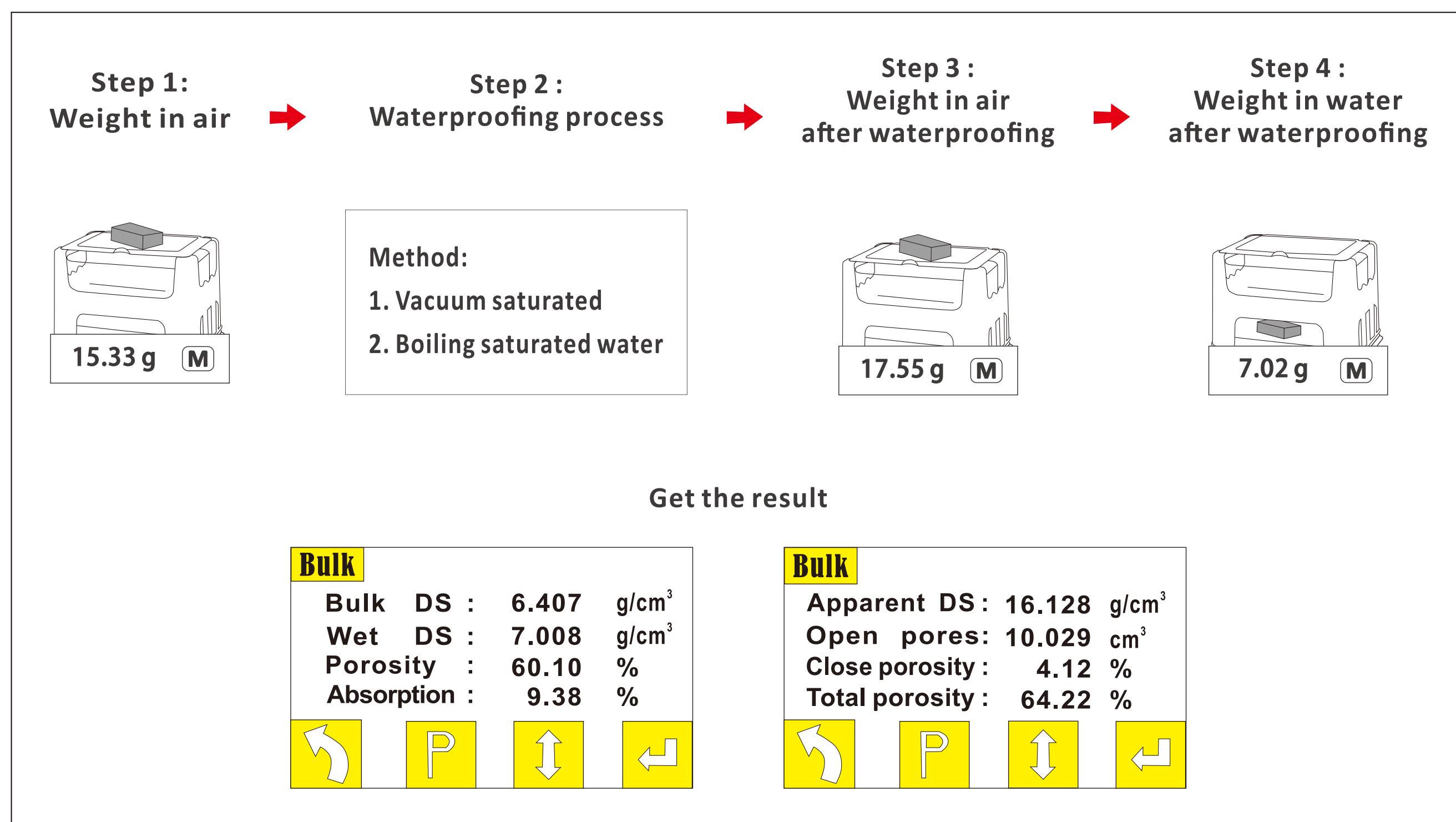
TWS-M Series Porous Mode

For **porous absorbent material**, directly shows the **Bulk density, Wet density, Porosity, Absorption, Apparent DS, Open pores, Close porosity, Total porosity.**



Features:

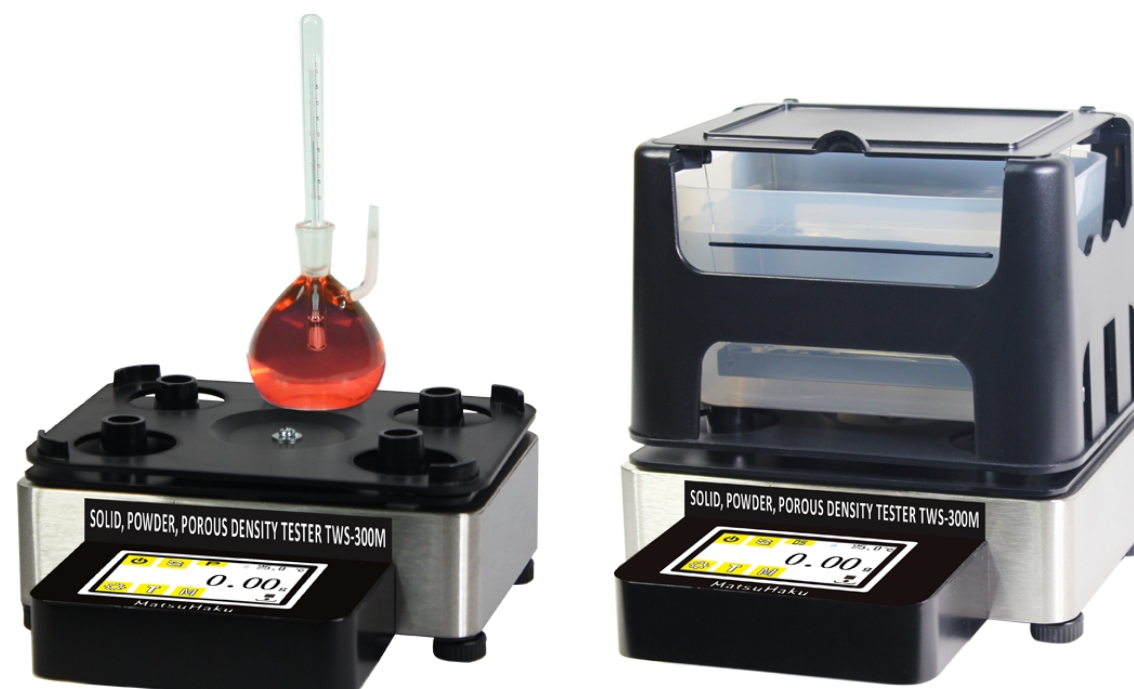
- Equipped with automatic temperature compensation, manual temperature compensation and solution compensation functions.
- Equipped with infrared temperature sensors can automatically detect the water temperature and automatically compensate for water temperature.
- Can enter the density of the waterproofing solution you are using.
- The large tank design is to reduce the error that caused by the buoyancy. The size of the water tank is 148 × 100 × 85mm.



The first condition to consolidate quality is to thoroughly explore the density.

MatsuHaku Density Tester Keep You Aware Of

1. **Reduce** the cost and the **Defect** loss
2. Fit the international **Standard**
3. Make sure the quality **Stable**



With MatsuHaku Density Tester
Quality control is more easier than you thought