



## POWDER METALLURGY DENSITY TESTER TTD- 153PM

Powder Metallurgy Density Tester TTD-153PM, meticulously designed for high-precision density measurements in powder metallurgy. With a maximum weight capacity of 153g, this tester boasts a weighing precision of 0.001g and a density precision of 0.0001g/cm<sup>3</sup>.

**Maximum weight:** 153g

**Weighing precision:** 0.001g

**Density precision:** 0.0001g/cm<sup>3</sup>

Compliant with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards.

The machine includes four functions: Displays bulk density, wet density, apparent porosity, oil content, and volume directly.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

## APPLICATIONS

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### Suitable for

Powder metallurgy industry, downstream electrical tools, pneumatic tools, sewing machines, sports equipment, computer fans, general fans, auto parts, hand tools, and new materials research labs, etc.

### Principle

Compliant with ASTM B962, B311, B328, MPIF STM 42, STM 57,and ISO 2738:1999 standards, and applying the Archimedes principle buoyancy method. It utilizes the boiling water method, immersion method, and vacuum saturation waterproof treatment. It can directly display bulk density and porosity data.

## FEATURES

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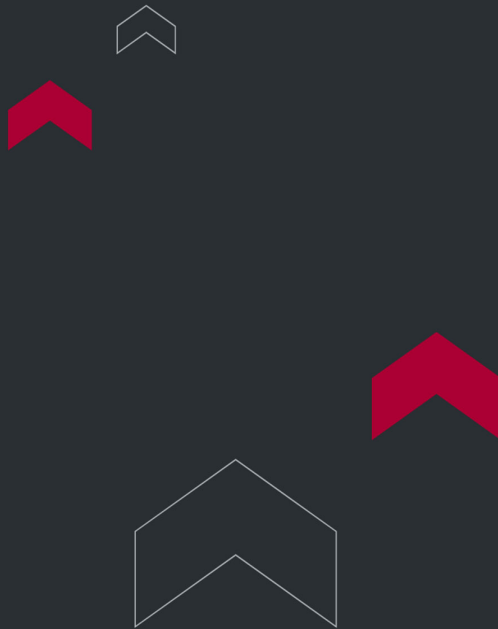
- The infrared temperature sensor automatically detects water temperature and adjusts accordingly.
- Powder Metallurgy Density Tester TTD-153PM offers automatic temperature compensation, manual temperature compensation, and solution compensation functions.
- In absorbent product density measurement mode, it directly reads body density, apparent porosity, wet density, and volume.
- The built-in memory function can store measurements for five groups of samples simultaneously in absorbent product density measurement mode.
- It directly displays values for new materials research. With high and low limit functions and a buzzer, the device determines if the specific gravity of the test object meets the criteria in non-absorbent product density measurement mode. It also includes a two-group mixing ratio function. 6
- The built-in oil content measurement mode allows direct reading of the product's oil content.
- Powder Metallurgy Density Tester TTD-153PM equipped with RS-232 and USB interfaces.
- The large water tank design reduces errors caused by the buoyancy of the suspension rail. The water tank dimensions are 148 x 100 x 85 mm.

## TECHNICAL SPECIFICATIONS

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|---------------------|-----------|--|
| Model               | TTD-153PM |  |
| Max weight          | 150g      |  |
| Weighting precision | 0.001g    |  |

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|-------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Density precision |                                                | 0.0001 g/cm <sup>3</sup>                                                                      |
| Wet density       |                                                | 0.0001 g/cm <sup>3</sup>                                                                      |
| Porosity          |                                                | 0.01 %                                                                                        |
| Volume precision  |                                                | 0.01 %                                                                                        |
| Mix ratio         |                                                | 0.01 %                                                                                        |
| Mode              | Bulk density                                   | Porous material : Show Bulk density, Wet density, Apparent porosity density, Volume           |
|                   | Bulk density (Five groups of memory functions) | Porous absorbent material : Show Bulk density, Wet density, Apparent porosity density, Volume |
|                   | Oil-content sample                             | Show Oil-content directly                                                                     |
|                   | Nonabsorbent material                          | Show Density, Volume, Mix ratio directly                                                      |



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