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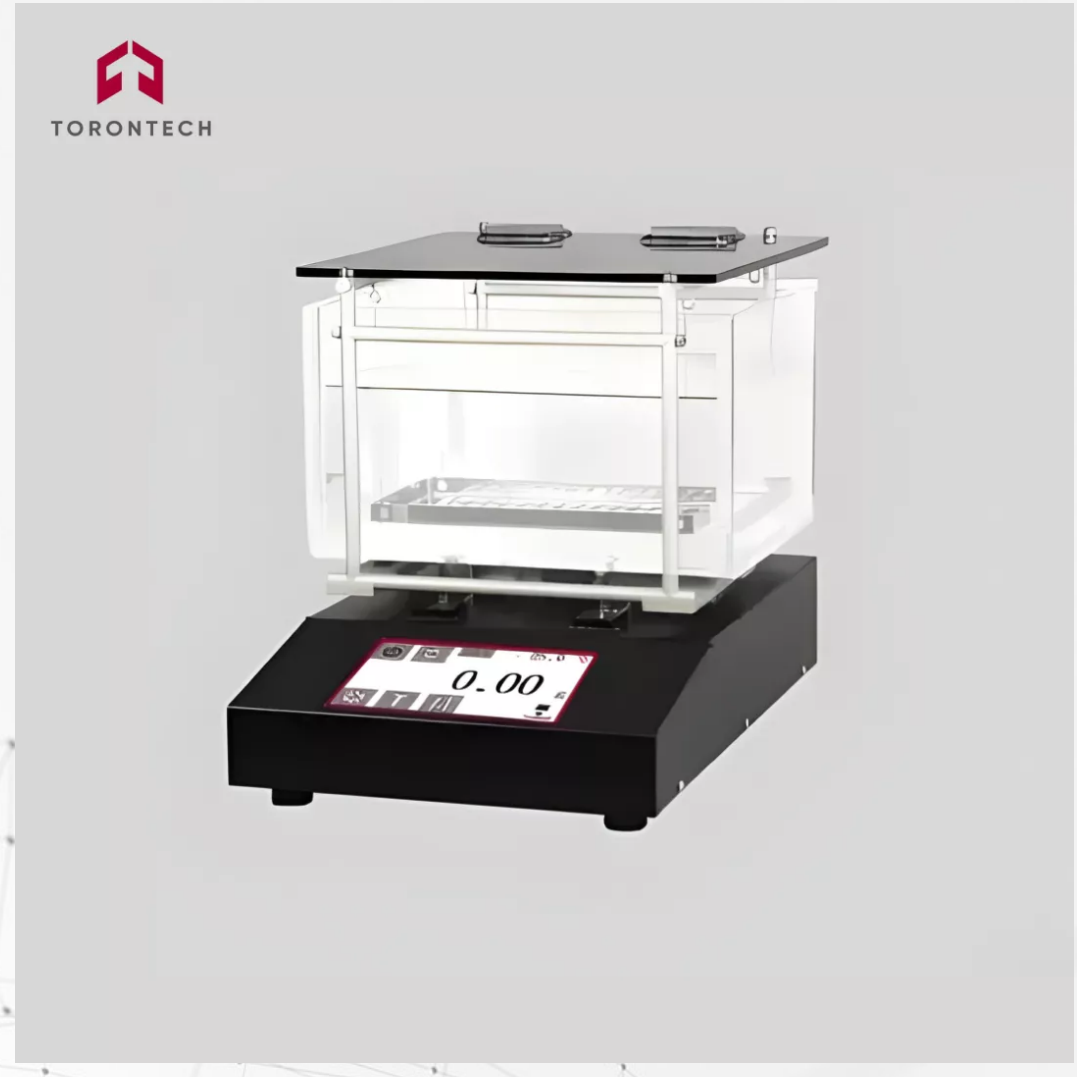

POWDER METALLURGY DENSITY TESTER TTD-LPM

Powder Metallurgy Density Tester TTD-LPM, designed for high-precision density measurements in powder metallurgy. This versatile tester offers maximum weight options of 1500g, 2000g, 3000g, and 6000g, all with a weighing precision of 0.01g and a density precision of 0.01g/cm³.

Maximum weight options: 1500g, 2000g, 3000g, 6000g

Weighting precision: 0.01g for all options

Density precision: 0.01g/cm³

Compliant with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards, this machine features four functions. It directly displays bulk density, wet density, apparent porosity density, oil content, and volume.

Density Meter, Density Tester, Densimeter, Specific Gravity Tester

APPLICATIONS

Suitable for

Powder metallurgy industry, downstream electrical tools related to powder metallurgy, pneumatic tools, sewing machines, sports equipment, computer fans, general fans, auto parts, hand tools, new materials research lab, and more.

Principle

In accordance with ASTM B962, B311, B328, MPIF STM 42, STM 57, and ISO 2738:1999 standards, this device utilizes the Archimedes principle buoyancy method. It uses the boiling water method, immersion method, and vacuum-saturated waterproof treatment. Consequently, it can directly display bulk density and porosity data.

FEATURES

- The infrared temperature sensor automatically detects water temperature and compensates accordingly.
- Powder Metallurgy Density Tester TTD-LPM 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 the development of new materials. 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.
- The built-in oil content measurement mode allows direct reading of the product's oil content.
- Powder Metallurgy Density Tester TTD-LPM equipped with RS-232 and USB interfaces.
- A large-size water tank design is used to reduce errors caused by the buoyancy of the suspension rail. The water tank dimensions are 210 x 170 x 120mm.

TECHNICAL SPECIFICATIONS

Model	**TTD-LPM1500**	**TTD-LPM2000**	**TTD-LPM3000**	**TTD-LPM6000**
Max weight	1500g	2000g	3000g	6000g

Weighting precision		0.01g	0.1g
Density precision		0.001 g/cm3	
Wet density		0.001 g/cm3	
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	
	Nonabsobent material	Show Density, Volume, Mix ratio directly	

TORONTECH.com

TORONTECH

Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE

Phone: +971 488 19252
Email: me@torontech.com

USA | Canada | EU | UAE | GCC | KSA | India | Africa | Latin America | Asia