



TORONTECH

TAP DENSITY TESTER



Tap Density Testers - Precision for Powder Characterization

Tap Density Testers, also known as Tapped Density Analyzers, are essential instruments for characterizing the bulk density of powdered materials. By measuring the volume reduction of a powder sample under defined tapping conditions, these devices provide critical data on the material's packing properties and flow behavior.

APPLICATIONS

Applications of Tap Density Testers - Tapped Density Analyzers from Torontech

1. **Pharmaceutical Industry:** Assessing the flowability and compressibility of powders used in tablet and capsule production.
Chemical and
2. **Materials Science:** Determining the bulk density of fine powders for process optimization and quality control.
3. **Food Industry:** Measuring the density of powdered food ingredients to ensure consistency in packaging and formulation.
4. **Metal Powders:** Evaluating the packing efficiency for additive manufacturing and sintering processes.
5. **Cosmetics:** Analyzing powder density for consistent product texture and performance.

With their precise measurement capabilities, Tap Density Testers from Torontech play a vital role in quality control and material research, helping industries optimize formulations, improve processes, and ensure compliance with standards.

FEATURES

1. Complies with USP and ASTM specifications
2. Supports USP 1 (300 taps per min) & USP 2 (250 taps per min) and ASTM test methods
3. Simultaneous rotating and tapping motion assures evenly packed surface
4. 24 x 2 character LCD
5. Online validation of strokes/min.
6. Calculation and printout of tests like tapped density, compressibility index and Hausner ratio
7. Supports 10ml, 100ml and 250 ml cylinders
8. Printer port for printing test results with validation report as per cGMP standards
9. Date & Time lock facility available

TECHNICAL SPECIFICATIONS

Model	ToronTapDT-1020
No. of stations	2
Stroke Height	14 mm $\pm$ 1 mm 300 strokes / minute 3 mm $\pm$ 0.2 mm 250 strokes / minute
Serial port	For printer
Power Supply	220/230 V AC, 50/60 Hz, 44 VA (110V is also available)
No. of taps	1-9999
Display	24 x 2 character LCD $\pm$ 2 RPM
Dimensions (L x W x H)	360 x 320 x 200 mm



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