

TAPPED DENSITY

BULK DENSITY



BeDensi T Pro Series

Tapped Density Tester with a Wallet-Friendly Solution

BeDensi T Pro Series

The BeDensi T Pro Series, developed by Bettersize, is a robust **tapped density tester** engineered for ease of use while fully compliant with **USP <616>**, **Ph. Eur. 2.9.34**, **ASTM**, and **ISO** standards. It delivers precise measurements of tapped density with 1.0% repeatability, providing valuable insights into the flowability of diverse powder materials.

BENEFITS 4 YOU



Compliance

Complies with USP, Ph. Eur., ASTM, and ISO standards to deliver reliable and comprehensive results



Wallet-Friendly

Own a reliable tapped density tester at an affordable price



Easy to Use

- Set measurement conditions easily with membrane keypad
- Replace cylinders quickly with the easy lock holders
- One click to print detailed reports



Up to 3 Workstations

The single tapped density tester features up to three workstations, catering to diverse measurement needs and enhancing productivity

Easy-to-read Cylinder



Quick Change Lock Supporter

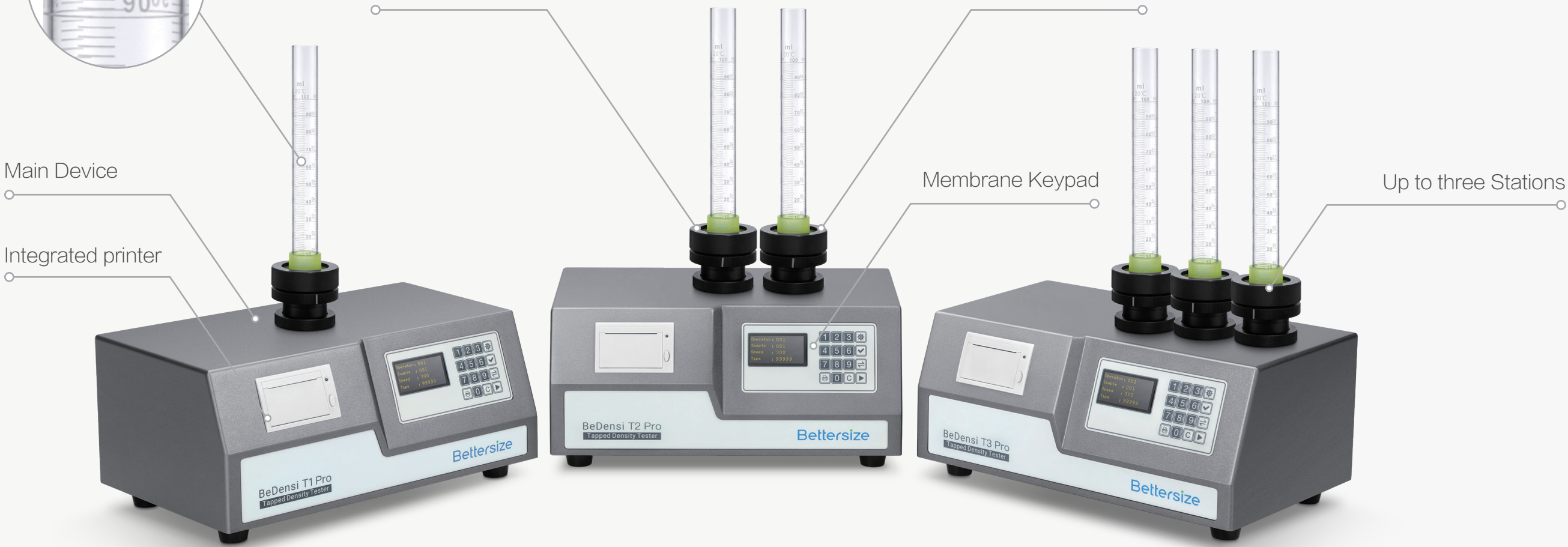
Drop Height: 3 or 14 mm
Speed: 100–300 taps/min

Main Device

Integrated printer

Membrane Keypad

Up to three Stations



COMPLIANCE

The BeDensi T Pro Series accommodates 25, 100, and 250 mL cylinders, with adjustable drop heights of 3 mm or 14 mm and a tap speed range of 100–300 taps per minute, meeting diverse industry standards.

> USP and Ph. Eur. Methods I

Drop Height / Speed: 3 mm / 250 taps · min⁻¹ ; 14mm / 300 taps · min⁻¹

Cylinder: 100 or 250 mL

> USP and Ph. Eur. Methods II

Drop Height / Speed: 3 mm / 250 taps · min⁻¹

Cylinder: 100 or 250 mL

> ASTM

Drop Height / Speed: 3 mm / 100-300 taps · min⁻¹

Cylinder: 25 or 100 or 250 mL

> ISO

Drop Height / Speed: 3 mm / 100-300 taps · min⁻¹


Cylinder: 25 or 100 or 250 mL


> User Defined


Drop Height / Speed: 3 mm or 14 mm/ 100-300 taps · min⁻¹


Cylinder: 25 or 100 or 250 mL


APPLICATIONS


 Carbon


 Batteries

 Chemistry

 Ceramics

 Pharmaceutical

 Food and Beverage

 Metal Powder and Compounds

STANDARDIZED MEASUREMENT PROCEDURE

1. Select the Cylinder Size

Select the appropriate **cylinder size** based on the type and density of your samples (options include 25 mL, 100 mL, and 250 mL).

Place the cylinder on the supporter and secure it with the holder.

2. Set the Test Conditions

Enter the number of taps and speed

Taps number: 1-99999

Speed: 100 – 300 taps/min

Example: The number of taps is 10, 500 and 1250, and the speed is 250 taps/min (3 mm drop height), according to **USP** and **Ph. Eur.**

3. Weigh the Sample

Filter the sample through a 1.0-mm sieve. Weigh the sample in grams and pour it into the cylinder gently.

Then, start the test.

4. Read the Volume

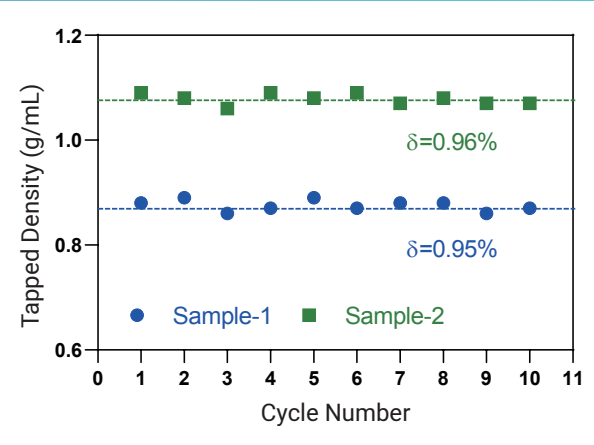
A **mean tapped volume value** is obtained from three readings.

5. Print the Report

Input the weight and tapped volume. The BeDensi T Pro Series can automatically calculates the tapped density. Press the print button to print the report.

The results can be used to calculate the Hausner Ratio (HR) and the Compressibility Index (CI) and further evaluate the flowability of your sample.

PERFORMANCE



The 10 cycle measurements of two samples demonstrate the excellent **repeatability (<1.0%)** of the **BeDensi T Pro Series**.

Standardized and elaborated design ensures the tapped density tester can provide reliable and informative results.

ACCESSORIES

Graduated Glass Cylinder



Supporter and Holder



IQ/OQ/PQ Document



SPECIFICATION

Test Workstation	Up to 3	
Compliance	USP <616>	
	Ph. Eur. 20934	
	ASTM B527, ASTM C1770, ASTM D7481, ASTM D176	
	ISO 8460, ISO 8176	
	User defined	
Taps	1 to 99999	
Speed	100 to 300 taps/min (adjustable)	
Drop Height	3 ± 0.2 mm	For Nominally 250 ± 15 taps/min
	14 ± 2 mm	For Nominally 300 ± 15 taps/min
Graduated Cylinder	25 mL	Readable to 0.2 mL
	100 mL	Readable to 1 mL
	250 mL	Readable to 2 mL
Repeatability	≤ 1%	
Power	100-240 VAC/50-60 Hz/ 50 W	
Dimensions	Width	260 mm
	Depth	410 mm
	Height	245 mm
Weight	T1	16 kg
	T2	18.2 kg
	T3	21 kg

* BeDensi Series is available in the [Betersize online store](#).

"The BeDensi T1 Pro is easy to use and has an intuitive keyboard for setting various measurement conditions. The report can be printed out immediately after each measurement. Most importantly, the noise level of this device has been significantly reduced compared to the previous version."

K-ONE, South Korea

BeDensi T3 Pro with 3 Workstations



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