

# Bettersize

BETTER PARTICLE SIZE SOLUTIONS

POWDER CHARACTERISTICS



## BeDensi T Pro Series

Tapped Density Tester with a Wallet-Friendly Solution

# BeDensi T Pro Series

The BeDensi T Pro Series is a reliable **tapped density tester** designed by Battersize. It excels at **intuitive operation** while complying with the **USP (USP<616>)**, **EP (EP2.9.34)**, **ASTM** and **ISO**. It can measure the bulk density and tapped density with 1.0% repeatability to help you understand the flowability of a wide variety of powder materials.

## BENEFITS 4<sup>YOU</sup>



### Compliance

Meeting the USP, EP, ASTM and ISO standards to provide informative results



### Easy to Use

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



### Wallet-Friendly

Own a reliable tapped density tester at an affordable price



### Up to 3 Workstations

The single tapped density tester with up to 3 workstations to meet different measurement needs and scale up your productivity even further

Easy-to-read Cylinder



Easy-to-change Lock Support

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

Up to three Stations

Various-volume Cylinders

Main Device

Integrated-printer

Membrane Keypad



## COMPLIANCE

The BeDensi T Pro Series supports 25, 100 and 250 ml cylinders, 3 mm or 14 mm drop height and 100-300 taps/min speed to meet the standards of different industries.

### > USP and EP Methods II

**Drop Height / Speed:** 3 mm / 100-300 taps · min<sup>-1</sup>

**Cylinder:** 25 or 100 or 250 ml

### > USP and EP Methods I

**Drop Height / Speed:** 3 mm / 250 taps · min<sup>-1</sup>

**Cylinder:** 25 or 100 or 250 ml

### > ASTM

**Drop Height / Speed:** 3 mm or 14 mm; 100-300 taps · min<sup>-1</sup>

**Cylinder:** 25 or 100 or 250 ml

### > ISO

**Drop Height / Speed:** 3 mm / 250 taps · min<sup>-1</sup>; 14 mm / 300 taps · min<sup>-1</sup>








**Cylinder:** 250 or 100 ml

### > User Defined

**Drop Height / Speed:** 3 mm / 250 taps · min<sup>-1</sup>

**Cylinder:** 250 or 100 ml

## APPLICATIONS

-  Carbon
-  Ceramics
-  Pharmaceutical
-  Metal Powder and Compounds
-  Batteries
-  Chemistry
-  Food and Beverage

"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."

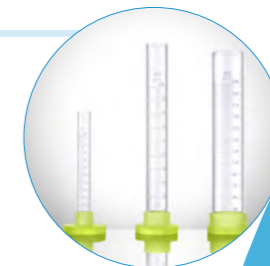
K-ONE, South Korea

## STANDARDIZED MEASUREMENT PROCEDURE

### 1. Select the Cylinder Size

Base on the types and density of your samples, an appropriate **cylinder size** should be selected. (25 ml, 100 ml and 250 ml optional)

Put the cylinder on the supporter and lock it with the holder.



### 2. Set the Test Conditions

Enter the taps number and the speed

**Taps number:** 1-99999

**Speed:** 100 – 300 taps/min

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



### 3. Weigh the Sample

Filter the sample through a 1.0-mm sieve. Weigh the sample in gram 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

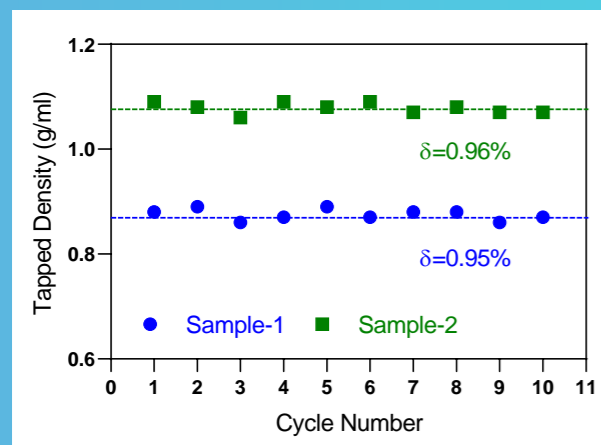
Input the weight and the tapped volume, the BeDensi T Pro Series can automatically calculate the tapped density and print the report by pressing the print button.

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.



BeDensi T3 Pro with 3 Workstations

## ACCESSORIES

### Graduated Glass Cylinder



25 ml Cylinder

100 ml Cylinder

250 ml Cylinder

### Supporter and Holder



Holder

3 mm Supporter

14 mm Supporter

### IQ/OQ/PQ Document



## SPECIFICATION

Test Workstation	Up to 3	
Compliance	USP <616>, EP 2.9.34, ASTM D7481	
	ASTM B527	
	ISO 787-11	
	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

"The BeDensi T3 Pro has a very good compact design and is easy to use. The automatic data analysis not only saves the costs of manual calculation, but also provides us with a stable and informative result. Better size instruments play an important role in the development of our products and we will continue to purchase BeDensi T3 Pro in the future."

Heilongjiang Pride New Material Technology Co., Ltd



Available in the UK:  
01582 704807  
[www.meritics.com](http://www.meritics.com)  
[info@meritics.com](mailto:info@meritics.com)

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