



BULK DENSITY TESTER  
VOLUMETER (BT-200i)  
Premium (iSmart)



## OVERVIEW

The BT-200i Scott Volumeter by Quality Lab Solutions is a Digital Version of standard bulk density tester that is widely utilized in powder testing applications. The system determines the bulk density of free-flowing powders, such as metal powders, compounds and paints according to various international standards.

BT-200i Scott volumeter and Bulk Density Tester Apparent density meter determines bulk density of powders according to

- International Standard ISO 3923 – 2 Metallic powders – Determination of apparent density – Part 2: Scott volumeter method
- USP Chapter 616 Bulk Density and Tapped Density of Powders Method II-Measurement in a Volumeter
- ASTM B 329 Standard Test Method for Apparent Density of Metal Powders and Compounds Using the Scott Volumeter

In principle, a measurement of the mass of a specific quantity of powder in loose condition can be made, as it precisely fills a cup of known volume. This loose condition is achieved by cascading the powder over a range of inclined plates in a Scott Volume. The ratio between the volume and the mass then indicates the apparent density.

## FEATURES

- Complies with USP and ASTM specifications
- Software Enabled Programming and Inbuilt Weighing Scale Features Completely Eliminate the Manual Procedure followed in the Manual Version of the Machine.
- Measures the bulk density of fine powders and similar products
- Easy calculation of bulk density in terms of grams per ml
- Useful in calculating powder flow ability index
- Complies to USP & ASTM
- Simple & Easy to operate
- Calculates & Displays the bulk Density of sample powder
- No need to connect external weighing scale
- 20X4 LCD display with back Lit
- Membrane Keypad for easy operation
- Menu driven operation
- Inbuilt Thermal printer for test report & validation report
- 10 mesh screen as standard and other meshes as optional
- Suitable for powders including metal powders compounds, pigments etc.
- All the material in contact with the sample are made up of stainless steel 316 grade and glass
- Fully enclosed baffle pack.



## SPECIFICATIONS

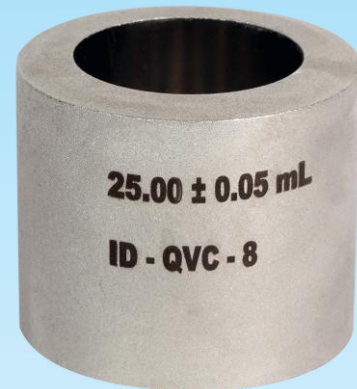
MODEL	BT-200i (-iSmart)
TOP FUNNEL WITH MESH	18 mesh
DISPLAY	LCD 20 X 4 character
BAFFLE / MATERIAL	4 NOS / GLASS
BAFFLE BOX	45mm X 45 mm
BOTTOM FUNNEL	SS 316
INSTRUMENT STAND	LEVEL & VIBRATION FREE
CYLINDRICAL CUP	SS316 Cylindrical receiving cup with an volume of $25.00 \pm 0.05$ ml and inside diameter of $30.0 \pm 2.0$ mm
LOAD CELL	5 KG ACCURACY 0.01 mg
Power Supply	230 V AC, 50 Hz, 880 VA



## PARTS & ACCESSORIES

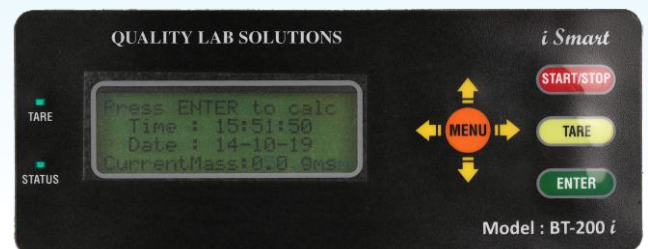
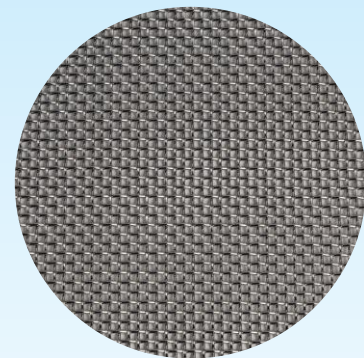
Standard Accessories (In Scope of Supply).

- SS316 Cylindrical/ Cubical receiving cup with an volume of  $25.00 \pm 0.05$  mL and inside diameter of  $30.0 \pm 2.0$  mm WITH CALIBRATION CERTIFICATE
- TOP STAINLESS STEEL FUNNEL ( CONE ) - SS316
- 18 mesh wire screen – SS316
- STAINLESS STEEL BOTTOM FUNNEL – SS316
- CYLINDRICAL RECEIVING CUP – SS316
- BOTTOM PLATE FOR PLACEMENT OF RECEIVING CUP – SS316
- 4 GLASS BAFFLE PLATES – TOUGHENED/TEMPERED GLASS
- STAND – SS316



## OPTIONAL ACCESSORIES

- Stand and horizontal vibration-free base
- Density Cup
- (Top) Funnels
- Bottom Funnel
- Baffle box
- Balance
- Brush
- Spatula
- Acrylic Cabinet Storage ( MOC : Korean acrylic )
- IMPORT QUALITY STORAGE CABINET



# QUALITY LAB SOLUTIONS