

### AUTOMATIC MEASUREMENT

- Angle of Repose, Angle of Fall
- Bulk Density, Tapped Density
- Flowability, Floodability
- And More..

## **COMPLY WITH INTERNATIONAL STANDARDS**

- ISO
- ASTM
- US and European Pharmacopoeia

## **MULTIPLE CONTROLS**

- Tablet
- Computer
- Mobile Phone

**Powder Characteristics** 

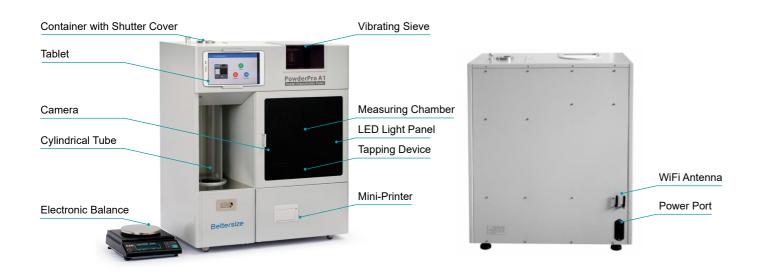
Measured by

Your 14-in-1 Powder Characteristics Tester



## **INTRODUCTION**

# **MEASURED & CALCULATED ITEMS**



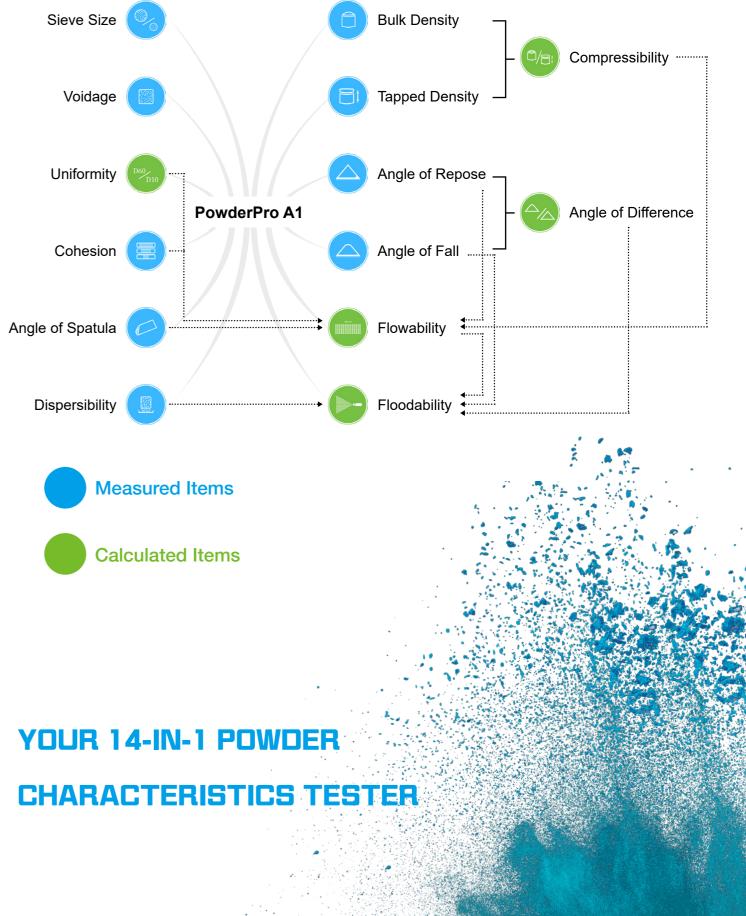
The PowderPro A1 integrates many state-of-the-art technologies like the intelligent control via Wi-Fi connection, image processing technology, 3D electromagnetic vibration and rotating tapped density measurement technology. This new type of instrument is able to measure the physical properties of powders in a fast, simple, and accurate way. As a smart powder characteristics analyzer, it is an essential equipment to help you understand and research powder materials.

## **ONE APP. MULTIPLE DEVICES**

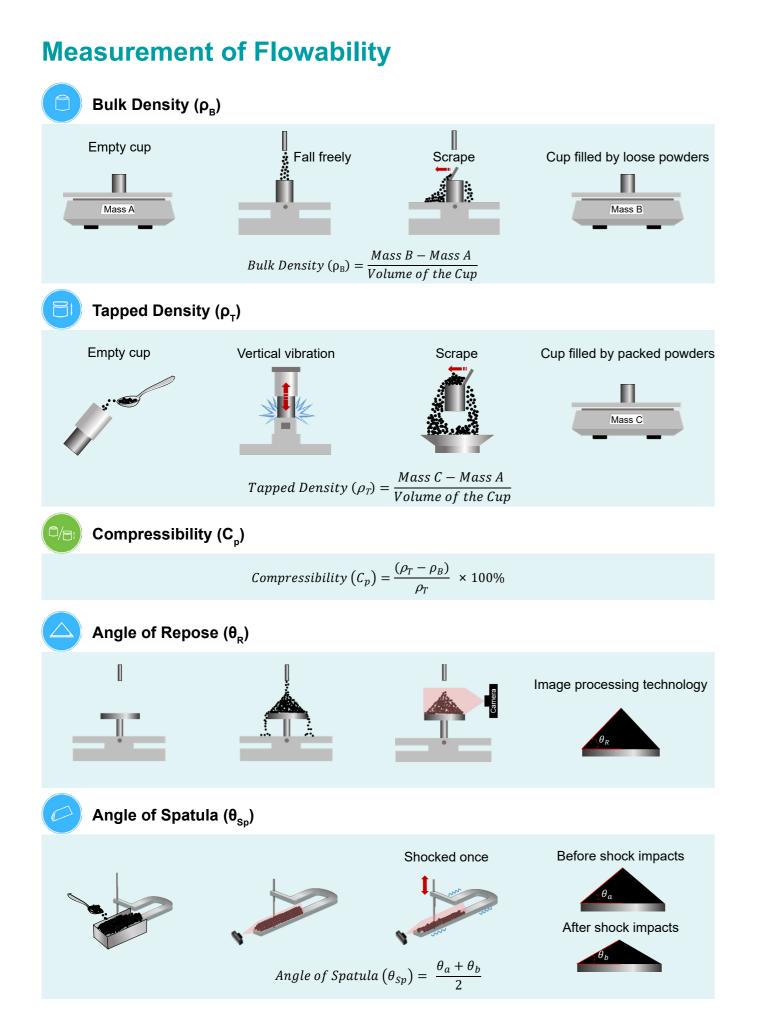


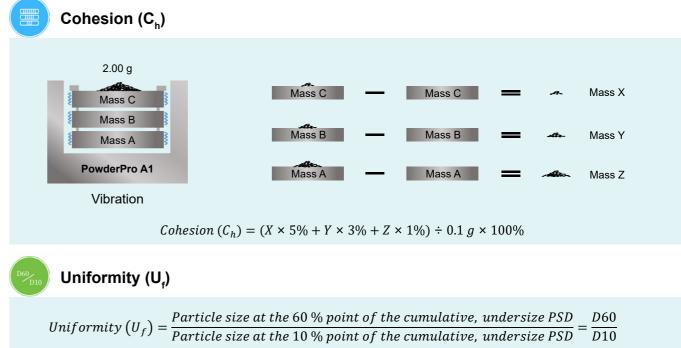
Powder Tester App, for smart phones and tablets, is the one and only App in the powder characteristic market. It is designed to offer you the most user-friendly way to measure up to 14 physical properties of your samples. The App is intuitive and easy to operate across different devices, you will find yourself need no user manual to start a measurement.

PowderPro software is also available for PC user, and it is as user-friendly as the Powder Tester App.

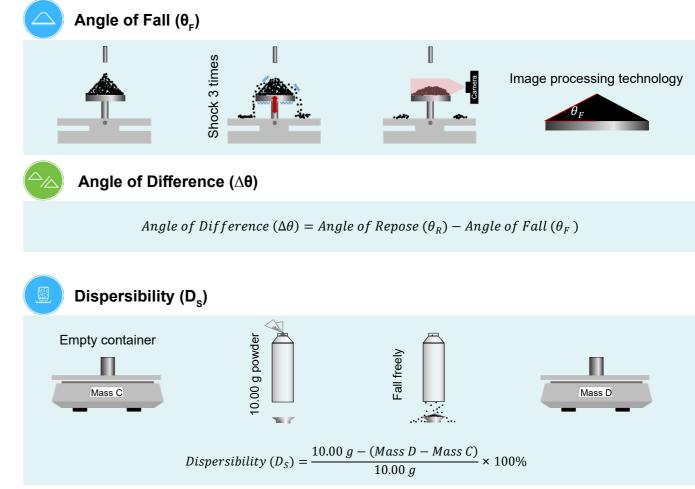


# PowderPro A1





## **Measurement of Floodability**



| t of the cumulative, undersize PSD | _ D60            |  |
|------------------------------------|------------------|--|
| t of the cumulative, undersize PSD | $\overline{D10}$ |  |

## **APPLICATIONS**



## **FEATURES**

## Measuring angle with imaging technology

A picture of powder pile is taken by adopting the high-definition Charge Coupled Device (CCD) camera imaging technology. Parameters such as the angle of repose, angle of fall and angle of spatula etc. are obtained with high precision and good repeatability through the unique image processing technology.

## Compact design

9 measured items including the angle of repose, angle of fall, angle of spatula, bulk density, tapped density, cohesion, dispersibility, voidage, sieve size and 5 calculated items including the angle of difference, compressibility, uniformity, flowability index, floodability index can be achieved in just one instrument - the PowderPro A1.

### Automatic control technology

Fully automatic computer or mobile control ensures easy usage and fast operation. Accurate and reliable results can be obtained with the help of Standard Operating Procedure (SOP).

### Data communication

An electronic balance is connected with the instrument and the weight data can be recorded by the control system for further data processing and calculation.

### Unique data output

A mini-printer of the PowderPro A1 is convenient and efficient to print the measurement data timely.

## **SPECIFICATION**

| Powder           | Туре          | Metallic Materials (Fe, Ni, alloy, etc.)                                      |
|------------------|---------------|---|
|                  |               | Non-metallic Materials (CaCO <sub>3</sub> , SiO <sub>2</sub> , Polymer, etc.) |
| Parameters       | Number        | 9 (Measured) + 5 (Calculated)   |
| Measuring Angle  | Method        | Fully Automatic by CCD Camera   |
|                  | Range         | 1-90°   |
| Repeatabillty    |               | ≤ 3 <sup>%</sup>  |
| Tapping          | Frequency     | 50-300 taps/min (Continuous Adjustment)                                       |
|                  | Stroke Height | 3 or 14 mm  |
|                  | Display       | Digital Display   |
| Conformity       | ASTM          | ASTM D6393-14   |
|                  | ISO           | ISO 3953: 2011  |
|                  | USP           | USP32-NF27<616>   |
|                  | EP            | EP7.0 07/2010: 20934E   |
| Control Terminal | Tablet        | Android System  |
|                  | Phone         | Android System  |
|                  | PC            | Windows System  |
| Connection       |               | Wi-Fi   |
| Dimension        |               | 600 × 350 × 730 mm (L × W × H)  |
| Weight           |               | 42 kg   |
| Power Supply     |               | AC 110/220 V, 50/60 Hz, 230 W   |



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