Powder Characteristics Machine (Automatic) FM-PCM-A100



Description :

Powder Characteristics Machine FM-PCM-A100 is a benchtop multi-parameter testing unit with touch screen display. Measures physical characteristics of a powder e.g. compactness, flowability, bulk and tap density etc. The static or free-flowing (two-phase system) powder is being tested. Equipped with advanced software, CCD camera to capture repose angle and flat plate angle.

Specifications :

Testing parameters	Repeatability	≤ 3 %
	Drop weight	3 or 14 mm
	Vibration frequency	50 to 300 times per minute (continuous adjustment)
	Control terminal	Touch screen, Mobile PC
Standards	US standard	ASTM standard D6393-14
	USP standard	USP32-NF27<616>
	EP standard	EP 7.0 07/2010:20934
Electronic balance	Maximum measurement range	1 kg
	Accuracy	0.01 gm

System	Dimension (L*W*H)	600 × 350 × 730 mm
	Weight	42 kg
	Power	230 W
	Power supply	AC 220 V, 50/60 Hz

Features :

- Designed using high quality components
- Continuous vibration frequency ensures uniform sample feeding from hopper opening
- Automatic operations excludes man-made interference/errors
- Repeatability of re-sampling test for same sample
- Use of Electronic weighing balance for sample weighing
- Built-in printer to print test results
- Comply with 21 CFR part 11, ISO 9001-2008 certification
- User-friendly operations

Applications:

Used for quality testing of powder across production, processing, packaging, transportation system in pharmaceutical, food, minerology, metallurgy, cosmetics, construction material fields.

Test Method:

Sr. No.	Name

1	Angle of repose
2	Angle of collapse
3	Angle of difference
4	Tap density
5	Bulk density
6	Compressibility
7	Flowability
8	Dispersity
9	Floodability
10	Cohesive sieve size

Accessories:

Sr. No.	Name
1	Electric balance
2	Spatula
3	Sample funnel (12.7 mm, 5 mm, 2.5 mm)
4	Metallic powder bulk density container (25 ml)
5	Tap or Bulk density container (100 ml)
6	Tap or Bulk density cylinder (100 ml, 25 ml)
7	Tap density assembly (long, A=14 mm, Short, A=3 mm)
8	Funnel clip
9	Platform for flat angle

10	Sample platform for angle of repose and collapse angle
11	Platform for stock pan
12	Sieve grill
13	Iron rod for stir (300 * 4 mm)
14	45° standard cone
15	Stock pan (10 or 18 mm)
16	Feeding funnel (big, small)
17	Metallic powder tap density container (100 ml, 25 ml)
18	Stacking assembly for flat plate angle
19	Sample feeding assembly

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