

# HMKTest

## TAP DENSITY TESTERS

### PRODUCT CATALOG 2018



**AS-100**



**LABULK 0335**

### Standard Packing List

- incl. glass cylinder 100 mL
- incl. glass cylinder 250 mL
- incl. cylinder washers
- incl. cylinder pads
- incl. sample spoon
- incl. brush
- incl. installation tool
- incl. power cable
- incl. fuse

### Overview

Tap density tester measures bulk density of powder after packing by tap. HMKTest maintains its leadership in tap density testers all the time. HMKTest tap density tester is divided into 2 models: Economic & Intelligent to meet requirements of users. AS-100 Tap Density Tester is economic model and LABULK 0335 Tap Density Tester is intelligent model. Both are welcome by user around the world in various industries and applications.

### \* Basic Functions

- Measure tap density of bulk powders
- 110/220V and plug available as per request
- Timed working, automatically stop at set time
- Double work stations, two samples are tested at the same time
- Appearance is exquisite, light weight and size, reasonable structure for easy maintenance
- Tap height adjustable from 3 up to 14 mm to meet all standards
- Meet accuracy and precision requirement of pharmaceuticals

**AS-100 Economic Tap Density Tester**

No.030198

- 2 stations
- Timed tapping(manual calculation of time as per calibrated speed)
- Height adjustment
- Easy work
- Meet basic requirement on tap density measurement.

**LABULK 0335 Intelligent Tap Density Tester**

No.033598

- Intelligent high-end
- Touch panel operation and control
- Parameters flexible adjustment
- Printer output
- Meet Maximum requirement on tap density measurement

**Working Principle**

Put bulk powder into graduated cylinder, measure the volume. Fix cylinder onto the tap assembly. A cam is driven by motor at standardized frequency and height, the cam drives bottom of tap assembly to make cylinder up and down. Powder inside reduces in volume according to its characteristics. Divide mass of sample by tap volume to calculate the tap density of powders

**Applications and Industries**

- Automobile and aerospace
- Pharmaceutical
- Mineral and metal powders
- Food
- Chemicals
- Plastics and rubbers etc

## AS-100 Economic Tap Density Tester No.030198

### Overview

AS-100 Economic tap density tester is designed to meet basic requirement on tap density measurement. It consists of a timer, tap assembly, motor and cylinders. AS-100 is designed with rotating rate of  $300 \pm 15$  rpm. User needs to set the time of rotating according to the calibrated speed. It automatically stops when the time finishes. Manually calculate the tap density and tap volume to get the tap density of this powder.

### Specifications

- Physical property to measure: tap density
- Sample loading volume: 5-250 mL
- Timer range; 0-99999 sec
- Tap height: 3 or 14 mm adjustable
- Tap frequency:  $300 \pm 15$  rpm
- Measurement: W28 x D24 x H18cm (Cylinder excepted)
- Power: 220V/110V/50/60Hz



### Functions

All \* basic functions

- Measure tap density of bulk powders
- 110/220V and plug available as per request
- Timed working, automatically stop at set time
- Double work stations, two samples are tested at the same time
- Appearance is exquisite, light weight and size, reasonable structure for easy maintenance
- Tap height adjustable from 3 up to 14 mm to meet all standards
- Meet accuracy and precision requirement of pharmaceuticals

## LABULK 0335 Intelligent Tap Density Tester No. 033598

### Overview

LABULK 0335 is an intelligent tap density tester used to measure the tap density of powders. It consists of touch panel, printer, electronic balance, tap assembly, motor and glass cylinders. LABULK 0335 is designed according to all known international standards. The parameters are flexible to set in order to get results as per users diversified requirements. In addition to auto measurement, auto print and auto calculation of tap density, LABULK 0335 can also automatically measure the flowability of this powder such as Hausner Ratio and Compressibility Index.

### Specifications

- Physical Property to measure: tap density
- Hausner ratio, Compressibility Index
- Sample Loading Volume: 5-250 mL
- Timing range: 0-99999 sec(freely set)
- Counting range: 0-999999 (freely set)
- Tap height: 3 or 14 mm
- Frequency: 250/300(freely set)
- Measurement: W33 x D 31 x H23 cm (Cylinder excepted)
- Power: 220V/110V/50/60Hz

### Functions

- All \* basic functions
- New generation of operating system, control the operation by 7" LCD precisely
- Automatic communication check between host and modules and host and accessories.
- Alternative testing mode, tap time or number freely set
- Tap height selection, being printed on the test report
- In addition to default frequency, user can freely set any rpm to meet special requirement
- In addition to tap number, user can freely set any tap number to meet special requirement.
- During test all the set parameters are visible to understand and evaluate working conditions
- RS-232 connects host and balance, weight number automatically shown on LCD
- Simply a touch to print reports in very detail
- Flowability such as Hausner ratio or Compressibility are obtained during measure tap density
- 2 login status as either administrator or user, access by password, GMP compliance **NEW !**
- Database stores test results **NEW !**
- Only Administrator has right to change time or delete records, GMP compliance **NEW !**



## Compare between LABULK 0335 and AS-100 Tap Density Tester

LABULK 0335 Intelligent Tap Density Tester No. 033598		
AS-100 Economic Tap Density Tester No. 030198		
BASIC FUNCTIONS		
Measure tap density of powder	✓	✓
Provide voltage and plug as per request US type or EU type etc.	✓	✓
Timed operation, automatically stop on time	✓	✓
2 stations measure 2 samples simultaneously	✓	✓
Good appearance, easy carry, reasonable structure, simple maintenance	✓	✓
Measurement height adjustable 3/14 mm, meet various standards	✓	✓
Meet critical requirement of pharmaceuticals on tap assembly	-	✓
OPERATION PANEL & INTERFACES		
Operation panel	-	✓
New generation operating system, control operation by 7" LCD touch panel	-	✓
Connect host to electric balance by RS-232 cable, real time communication	-	✓
Self check between host and accessories, easily solve connection trouble.	-	✓
ANALYSIS RESULT		
Tap density	✓	✓
Powder flowability such as Hausner ratio and Compressibility Index	-	✓
Automatic print by simply a touch, detailed test report	-	✓
OTHER FUNCTIONS		
Alternative measure mode, tap time or count number freely set	-	✓
Touch to choose tap height, automatically output to printer	-	✓
In addition to default tap speeds, user can freely set any tap speed	-	✓
In addition to default tap number, user can freely set any tap number	-	✓
Real time show under what parameter the machine is working	-	✓
Login as Admin or User <b>NEW !</b>	-	✓
Save test results to database <b>NEW !</b>	-	✓
Only Admin has right to change time or delete records <b>NEW !</b>	-	✓
STANDARD ACCESSORIES		
Glass cylinders	✓	✓
Cylinder washer (up)	✓	✓
Cylinder pad (bottom)	✓	✓
Sample spoon	✓	✓
Brush	✓	✓
Tool	✓	✓
Electric cable	✓	✓
Fuse	✓	✓
SPECIAL ACCESSORIES		
RS-232 Electronic Balance	-	✓

“√” = included in package

“—” = not included in package

## 2. Accessories • 2.1 Electric Balance

### 2.1 Electric balance

Accurate and data transferable electric balance

No. TY-DZC

- Accurate down to 0.01 g
- Data transferred to micro processor by RS232 cable
- 1100g

#### Technical specification

Accuracy: 0.01 g

Communication: RS232

Digit: 8

Range: 1100g

Dimensions: W23 x D17.2 x H6 cm

Weight: about 1030 g

Weight station size: thickness 7mm, Dia. 11.4cm

Voltage: DC 7.5V 450mA

- incl. 1x 6V DC power
- incl. 1x power cable
- incl. 1x balance hood



### 2.2 Acoustic cabinet

Reduce noise to person feel comfort

No. TY-GYZ

- Reduce noise effectively
- Light weight easy to move
- Small foot print

#### Technical specification

Function: Reduce noise to 40-60 dB

Material: Alloy & Plexiglas

Dimensions: W44 x D40 x H55 cm

Weight: 8 Kgs



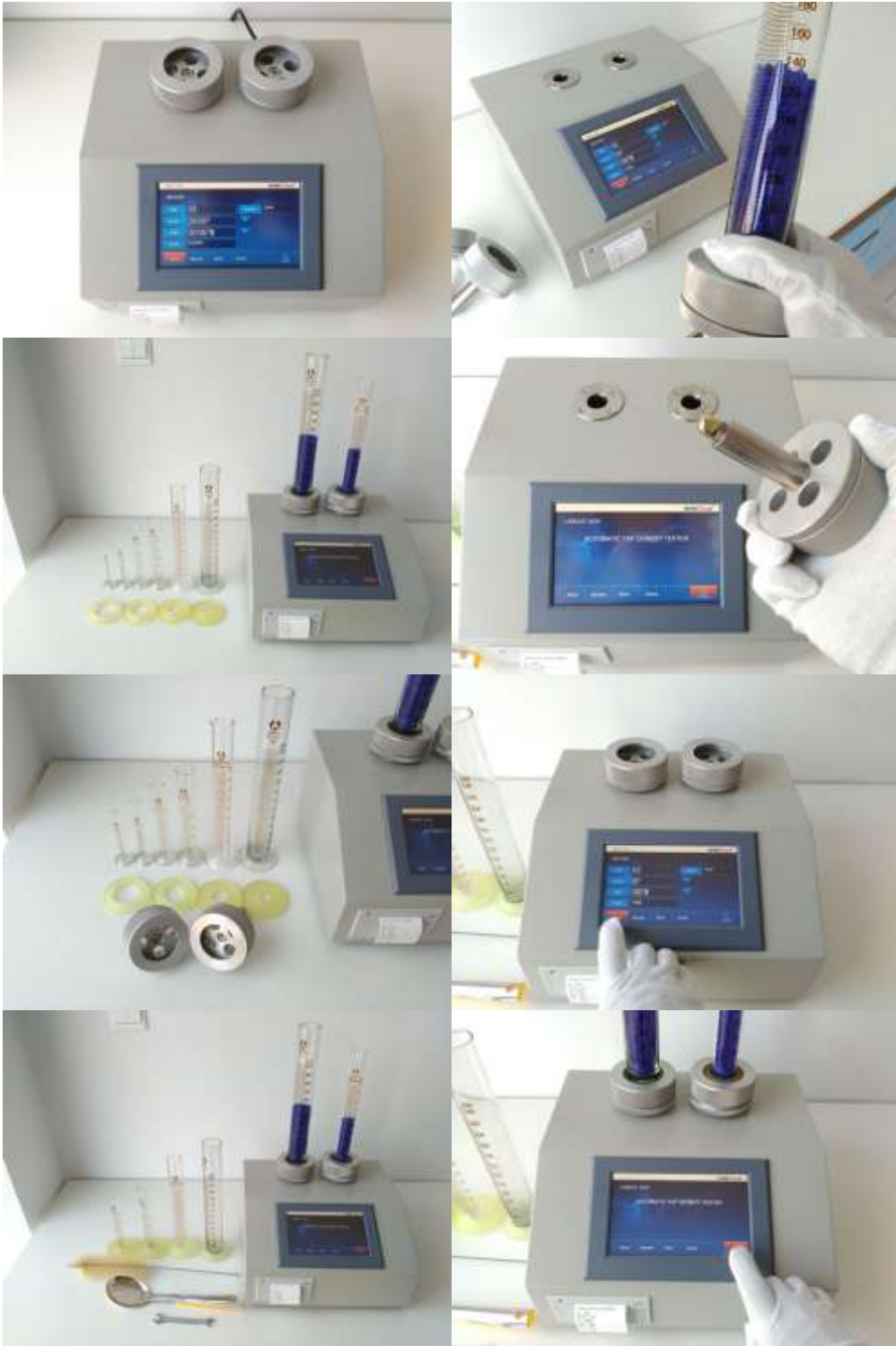


### 3. Reference User List

Company Name	Country	Qty.	Industries
SUPPLYGO FZC	Algeria	1	
Nutrition & Education International	Afghanistan	1	nutrition
ScienceTech Corporation	Bangladesh	1	
Pharmakho	Brunei Darussalam	1	pharmaceutical
Maple Lab Systems Inc.	Canada	1	
Carbon Drilling Products	Canada	1	carbon
Raymor Industries Inc.	Canada	1	carbon
Perfect Lithium Inc.	Canada	1	lithium
Importadora y Distribuidora Arquimed Ltda.	Chile	1	
SAFINA	Czech	1	Metal (precious)
Exova Toulouse	France	1	
Koniambo Nickel SAS	France	2	metal(nickel)
Medii Technology Ltd.	Hongkong	1	
Gimpex - S&B India Private Ltd	India	1	
Q-SpicIng	Indonesia	1	
Kulicke & Soffa, Bonding tools	Israel	1	semiconductor
BOART & WIRE S.R.L.	Italy	1	
Fraupharma	Italy	1	pharmaceutical
MATRIX FLAVOURS & FRAGRANCES SDN. BHD.	Malaysia	2	food(flavours and fragrances)
SUKHTIAN BROTHERS COMPANY- MS GROUP	Palestine	1	
Oman Foodstuff Factory LLC	Oman	1	
TECH-EJAZ Corporation.	Saudi Arabia	1	
LEE HUNG SCIENTIFIC PTE LTD	Singapore	1	
UNICHROGEN	South Korea	1	
TRW Automotive Espaa, S.L.	Spain	1	metal(automotive)
Compressor Tech Trading	UAE	1	
Nothing But Tea Limited	UK	1	
Cultech Limited UK	UK	2	food(supplements)
Teacraft Ltd	UK	1	food(tea)
Avon Metals Ltd.	UK	1	metal(hard alloy)
Intertek	UK	1	test lab
Concentrated Aloe Corporation	USA	1	
GE	USA	1	
Cat Testing Labs Inc.	USA	1	
Glanbia Nutritionals Ingredient Technologies	USA	1	
Acuitive Technologies	USA	1	
NIOSH	USA	1	
Bio-Botanica Inc.	USA	1	

WESTINGHOUSE ELECTRIC CO.	USA	1	
Urban Electric Power LLC	USA	1	
TURTLE & HUGHES INC.	USA	1	
Gentherm Incorporated	USA	1	
Industrial Distributors International Co.	USA	1	
Coulometrics	USA	1	
FlexEI, LLC	USA	1	
Continental Industries	USA	1	
The Bernd Group	USA	1	
Virginia Tech Foundation, Inc	USA	1	
Encell Technology, Inc.	USA	1	
Navitas ASG, LLC	USA	1	battery
Energy Power Systems, LLC	USA	1	battery
ActaCell Energy Systems, Inc	USA	1	battery
NanoResearch, Inc	USA	1	carbon
Cat Testing Labs Inc.	USA	1	catalyst
BioLab, A Chemtura Company	USA	1	chemical
Stryker Orthopaedics	USA	1	medical
Vanton Research Laboratory, LLC	USA	1	pharmaceutical
UL	USA	1	test lab
Roosevelt University	USA	1	university

### 3. Reference Pictures



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### **HMKTest**

HMKTest is a world leading manufacturer of lab instruments. We major in powder physical property testing instruments and equipments such as particle size, bulk density and powder flow characterizations. Our widely used products are tap density testers, air jet sieves, hall flowmeters, fisher sub sieve sizers, rotary sample dividers, planetary ball mills, vibration test sieve shakers, tap sieve shakers, tablet friability testers, bulk density testers.