



**Multiplelabs**™  
Turnkey Laboratories Solutions



**Analytical**®  
Technologies Limited

## DIGITAL AUTOMATIC TAP/BULK DENSITY TEST APPARATUS MODEL: ATD 3000 SERIES



Tap Density Test Apparatus is designed for determination of the tapped density of powder samples by tapping the cylinder under specific conditions. It can also be used for Granules, Flakes etc.

This unit is designed as per USP Specification, suitable for both USP Method I & II having provision to hold two cylinders. Unit is used for measuring bulk/tapped density of powder, granules, pellets etc. The illuminated alpha numeric screen makes instrument users friendly. It calculates the Percentage Difference between Tapped Volumes, Tapped Density, Compressibility Index and Housner Ratio automatically. For details, refer enclosed leaflet.

EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)



## Features

- ➔ Incorporated with Advanced Microcontroller.
- ➔ Supports USP – I and USP – II.
- ➔ Alphanumeric display and user friendly feather touch keypad.
- ➔ Built-in validation facility.
- ➔ Informative help prompt messages displayed, to guide user while conducting test.
- ➔ Updated test status displayed.
- ➔ Password protection facility to safeguard data.
- ➔ Non-volatile memory for storage of 24 test method.
- ➔ Updated test status displayed.
- ➔ Calculates Bulk Density, Tapped Density, Compressibility Index and Hausner Ratio
- ➔ Simultaneous action of rotating and tapping of the cylinders.
- ➔ Print format as per GLP requirements.
- ➔ Compliant with USP Specifications.

## Technical Specifications

- ➔ Test Method: USP – I and USP – II
- ➔ Tapping Range: 1 – 9999 Taps
- ➔ Drive: Stepper Motor
  
- ➔ USP – I
  - 1 Tap Height: 14mm ± 2mm.
  - 2 Tapping Rate: 300 Taps/Minute. approx.
  
- ➔ USP – II:
  - 1 Tap Height: 3mm ± 0.3mm.
  - 2 Tapping Rate: 250 Taps/Minute. approx.
  
- ➔ Display: 20 x 4 Lines, Wide Angle, Alphanumeric Backlit LCD
- ➔ Key Board: 4 x 4 Matrix Feather Touch Key Board
- ➔ Parallel Port Printer Interface for Dot Matrix Printer
- ➔ Compliant with USP Specifications:
- ➔ Power Supply: 230 ± 10 V AC, 50/60 Hz, 2 Amps Max.

►► **Servicing, Validation, Trainings and Preventive Maintenance :**

- Servicing : We have team of service engineers who can attend to any make of instrument promptly @the most affordable cost.
- Trainings :We also take up preventive maintenance to reduce downtime of instrument's Trainings.
- AMC's/CMC : We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► **Our Products & Technologies**

						
UV/VIS Spectro 2080+ Double Beam	Infra FTIR	Optima Gas Chromatograph 3007	Optima Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	Semi Auto Bio Chemistry Analyzer	HEMA 2062 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon 3800
						
Fully Automated CLIA	NOVA-2100 Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	TOC Analyzer	Laser Particle Size Analyzer	Ion Chromatograph	Water purification system

▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ Reach us @



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