



LUMETRON ME-999 Tumbling Barrel Apparatus



The **LUMETRON ME-999 Tumbling Barrel Apparatus** from **Lumetronics** is specially designed and manufactured for use in laboratories involved in testing Appliances, Electrical Accessories, Luminaires and other related Electro-technical products. It is used to perform the test specified in many standards to determine compliance with safety requirements, particularly mechanical strength of test samples.

It consists of a wooden barrel, with a shape and dimensions as specified in the relevant standard. The barrel is rotated about its central axis by a motor such that its speed is five revolutions per minute. The test sample placed inside the barrel will undergo repeated falls from a height of 500 mm on the steel plates fitted inside the barrel. The number of falls are programmed with the help of the digital preset counter, which will stop the barrel rotation after the preset number of falls are achieved. The equipment has several safety and operational features that make it one of the most advanced equipment of its type. The apparatus is housed in a rugged enclosure affording very high mechanical rigidity and strength. The enclosure and panels are epoxy powder coated / anodized for long term protection. Its compact size allows it to be mounted on any laboratory floor. Leveling feet are provided to ensure stable installation.

Features

- * Self contained, compact unit that can be floor mounted.
- * Laminated wooden barrel mounted on a sturdy support frame.
- * Motorized operation enables ease of use.
- * Rotation speed of five revolutions per minute providing a fall rate of ten falls per minute.
- * Steel base plate fixed at both ends of the barrel as specified in the standards.
- * Digital pre-set four digits counter with bright LED dual display, membrane keypad selection and battery back-up to memorize count value in case of power cut off.
- * Audible / Visible 'End of Test' indication.
- * Transparent acrylic sliding cover allows easy loading and unloading of the test sample, and allows visual inspection during the test. Cover can be locked during the test.
- * Two castor wheels and one adjustable foot provide mobility as well as leveling facility.
- * Non contact proximity sensor ensures reliable operation by eliminating Electro-mechanical micro switches.
- * Barrel JOG switch to bring the barrel to upright position after End of Test.

Specifications

Type	: Tumbling Barrel, motorized rotation, electronic control.
Drop Height	: 500 mm
Base Plate	: 3 mm thick Steel plate
Rotation Speed	: 10 falls per minute (5 rpm)
Control	: Digital Pre Set Counter, 4 digit, with battery back-up
Sensor	: Non contact Inductive Proximity sensor, 18 mm diameter
Indicators	: Power ON : Barrel ON : End of Test (Audible beeper)
Access	: Through sliding acrylic cover with magnetic latch & key lock
Drive	: AC Induction motor, geared, with reduction pulley and V-Belt
Power	: 230 V AC, 50 Hz, single phase,
Safety Fuse	: 2 Amp, slow blow, glass cartridge, 35 x 6 mm
Dimensions	: 450 mm W x 750 mm D x 1000 mm H approximate

