



STANDARD COMPACTION TEST AZA0863

The AZA0863 Standard Compaction Test Apparatus is a laboratory system designed to determine the Maximum Dry Density (MDD) and Optimum Moisture Content (OMC) of soils using the Standard Proctor method.

This apparatus simulates light compaction effort typically applied in the field and provides accurate, repeatable results for soil compaction analysis, ensuring proper performance of earthworks in construction projects.



Main Components

Compaction Mould with Collar & Base Plate

- Heavy-duty steel mould with precise internal volume
- Detachable collar for easy filling and trimming

Standard Compaction Rammer (Hammer)

- Accurately machined for controlled weight and drop height
- Ensures uniform and repeatable compaction energy

Optional Accessories

- Sample extruder
- Mixing tray
- Straight edge / trimming tools

Standards Compliance

- ASTM D854 – Specific Gravity of Soil Solids
- IS 2720 (Part 3 / Section 1) – Determination of Specific Gravity



Key Features & Benefits

- Automated Reciprocating Motion

Simulates precise manual shaking as per international standards

- High Stroke Accuracy

Maintains exact travel length and shaking frequency

- Adjustable Timer Control

Enables repeatable, hands-free operation

- Dual Cylinder Capability

Supports 1–2 standard sand equivalent cylinders

- Robust Construction

Heavy-duty steel frame with industrial-grade motor

- Stable Operation

Low vibration design ensures consistent performance

- Compact Footprint

Space-efficient for laboratory benches

- Plug-and-Play System

Easy installation with minimal setup

Applications

- Road and highway construction quality control
- Earth embankments and dam construction
- Foundation and subgrade preparation
- Geotechnical and soil mechanics laboratories
- Academic and research institutions



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TECHNICAL SPECIFICATION

Parameter	Specification
Model Number	AZA0863
Test Type	Standard Compaction (Standard Proctor)
Compaction Mould – ASTM	101.6 mm dia × 116.4 mm height (~944 cm ³)
Compaction Mould – IS	100 mm dia × 127.3 mm height (1000 cm ³)
Rammer – ASTM	2.49 kg, 304.8 mm drop, 50.8 mm face dia
Rammer – IS	2.6 kg, 310 mm drop, 50 mm face dia
Compaction Layers	3 layers
Blows per Layer	25 (4-inch mould)
Construction	Heavy-duty steel, corrosion-resistant finish
Compliance	ASTM D698, IS 2720 (Part VII), BS 1377-4