DYNAMIC CONE PENETROMETER AZA0872

The AZA0872 Dynamic Cone Penetrometer (DCP) is a robust, field-proven instrument designed for rapid in-situ evaluation of soil strength, stiffness, and compaction. Widely used in pavement design, construction quality control, and geotechnical investigations, the DCP provides immediate results that can be directly correlated to California Bearing Ratio (CBR) values—eliminating the need for time-consuming laboratory testing.

Key Features

- Rapid In-Situ Testing

Immediate assessment without laboratory delays

- CBR Correlation

Direct estimation of California Bearing Ratio values

- Continuous Strength Profiling

Penetration data provides layer-wise soil behavior

- Fully Mechanical Operation

No power supply required

- Portable & Field-Friendly

Suitable for single-operator use

- Heavy-Duty Construction

Designed for repetitive impact and rugged environments

TECHNICAL SPECIFICATION

Parameter	Specification
Model Number	AZA0872
Apparatus Type	Dynamic Cone Penetrometer (DCP)
Purpose	Soil strength & compaction evaluation
Compliance	ASTM D6951, AASHTO T 252 (principles)

Hammer

Parameter	Specification
Weight	8 kg (approx.)
Drop Height	575 mm
Operation	Manual free fall

Cone Tip

Parameter	Specification
Material	Hardened steel
Cone Angle	60°
Base Diameter	20 mm

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TECHNICAL SPECIFICATION

Drive Rod

Parameter	Specification
Material	High-strength steel
Design	Sectional / quick-connect rods

Measuring System

Parameter	Specification
Scale Length	1000 mm / 1500 mm
Graduation	Clear millimeter divisions

Performance

Parameter	Specification
Maximum Depth	Up to 2–3 meters (soil dependent)
Construction	Heavy-duty steel