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BENKELMAN BEAM AZA0961

The AZA0961 Benkelman Beam is a precision field instrument used for evaluating the structural strength and load-bearing capacity of flexible pavements through measurement of rebound deflection under a standard wheel load.

It is a widely accepted and standardized method for pavement evaluation, forming the basis for overlay design, strengthening strategies, and maintenance planning in road engineering projects. The device is extensively used by highway authorities, consultants, contractors, and research organizations.

Key Functional Features

- Pavement Structural Evaluation

Determines elastic response of flexible pavements

Identifies structurally weak sections

- Overlay & Strengthening Design

Primary input for:

1. Overlay thickness design
2. Pavement strengthening calculations

- Maintenance Planning

Helps prioritize rehabilitation works

Enables preventive maintenance strategies

- Remaining Life Assessment

Estimates pavement performance under future traffic loading





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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0961
Product Type	Benkelman Beam Deflection Tester
Application	Measurement of rebound deflection of flexible pavements
Beam Length	Approx. 3.66 m (12 ft)
Lever Ratio	2:1
Dial Gauge Range	0–10 mm / 0–25 mm
Least Count	0.01 mm
Beam Material	High-grade Aluminum Alloy
Fulcrum/Base	Steel
Support System	Adjustable reference legs
Weight	Approx. 10 – 15 kg
Operation	Manual
Compliance	IRC:81, MoRTH Specifications