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TRAVELLING BEAM DEVICE AZA0960

The AZA0960 Travelling Beam Device is a precision instrument designed for measuring longitudinal surface unevenness (road roughness) of pavements. It is widely used in road construction, quality control, and pavement evaluation to assess riding quality and serviceability.

This device provides a reliable, standardized, and cost-effective method for quantifying pavement roughness, ensuring compliance with specifications issued by MoRTH and IRC.

Key Functional Features

- Construction Quality Control

Assessment of newly laid pavement surfaces

Ensures compliance before project acceptance

- Pavement Performance Monitoring

Periodic evaluation of road roughness

Tracks deterioration over time

- Maintenance & Rehabilitation Planning

Identifies sections with excessive unevenness

Supports overlay and repair decisions

- Economic & Functional Evaluation

Roughness data used to estimate:

1. Vehicle operating costs
2. Pavement serviceability

Can be correlated with IRI (International Roughness Index)





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TECHNICAL SPECIFICATION

Parameter	Specification
Product Type	Travelling Beam Device / Road Roughness Tester
Beam Length	3 m or 4 m
Application	Measurement of longitudinal pavement unevenness
Measuring System	Central wheel/probe with dial gauge/digital indicator
Dial Gauge Range	Typically 0 – 10 mm
Least Count	0.01 mm or 0.1 mm
Output	Unevenness Index (mm/km)
Wheels	Precision smooth rolling support wheels
Material	Aluminum alloy / Steel
Weight	Approx. 20 – 40 kg
Operation	Manual
Compliance	MoRTH & IRC Specifications