



Application

The Refabricated Deflection Measuring Apparatus is designed for educational laboratory experiments to study and analyze beam deflection under applied loads. The system is suitable for strength of materials laboratories and engineering institutions.

Type

Mechanical Deflection Measuring Apparatus

Design & Working Principle

Design Similarity

- Similar in construction and working principle to a Bending Moment Apparatus

Operating Principle

- Measurement of deflection of a beam subjected to incremental loading
- Deflection measured using a precision mechanical dial gauge

Support Condition

- Freely Supported Beam (Simply Supported Configuration)

Technical Specifications

Dial Gauge

- Type: Mechanical Dial Gauge
- Range: 0–10 mm (minimum)
- Least Count: 0.01 mm
- Ensures precise and repeatable deflection measurement

Test Beam

- Lightweight and rigid construction
- Suitable for repeated laboratory testing

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Material Options:
 - Aluminum Alloy
 - Mild Steel

Dial Gauge Mounting System

- Rigid horizontal bar
- Supported by two vertical towers
- Ensures accurate alignment and stability

Support Towers

- Adjustable
- Firmly fixed on either side of the base frame

Base Frame

- Heavy-duty metallic structure
- Portable design suitable for laboratory use

Base Supports

- Pin-point or knife-edge type supports
- Ensures accurate and stable load distribution

Load Application System

- Load hangers
- Calibrated slotted weights
- Designed for controlled incremental loading

Performance & Accuracy

- High repeatability
- Minimal measurement error
- Stable operation without vibration

Ease of Use

- Student-friendly setup
- Simple operation and experiment handling

Maintenance

- Easy to maintain and service
- Durable mechanical components

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Finish

- Anti-corrosion coated surface
- Long-lasting and suitable for laboratory environments



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