CURVED BEAM DEFLECTION APPARATUS AZA1338

The AZA1338 Curved Beam Deflection Apparatus is a precision laboratory instrument designed to study the horizontal and vertical deflection characteristics of curved beams subjected to end loading.

Widely used in:

- Strength of Materials laboratories
- Theory of Structures practicals
- Applied Mechanics experiments
- Civil and Mechanical Engineering education

the apparatus enables students and researchers to investigate the deformation behavior of curved structural members under cantilever loading conditions.

The system provides a practical demonstration of how beam curvature and geometry influence:

- Stress distribution
- Structural stiffness
- Horizontal deflection
- Vertical deflection

The apparatus includes interchangeable curved beam configurations and a precision dial gauge measurement system for accurate experimental analysis and comparison with theoretical calculations.

TECHNICAL SPECIFICATIONS

Parameter	Details
Model	AZA1338
Apparatus Type	Curved Beam Deflection Apparatus
Beam Material	High-strength steel
Beam Configurations	Circle, semicircle with straight arm, quadrant, quadrant with straight arm
End Condition	Fixed at base, load applied at free end
Measurement Type	Horizontal and vertical deflection
Dial Gauge	25 mm travel with magnetic base
Mounting	Rigid base frame
Usage	Educational and laboratory experiments
Brand	AZALAB

Standard Supply Includes

- Curved beam test members
- Rigid base frame
- Precision dial gauge
- Magnetic gauge stand
- Experimental accessories