Product name:	Product code:
Rotating Beam Fatigue Testing Machine for Metal Specimens	CMI-IND-0308

Description

Four-point rotating bending fatigue machine that generates S-N curves for steel, aluminium and alloy specimens. Used in automotive, railway and aerospace material labs. Each specimen is cycled at constant bending stress until it fractures and the count is stored.

Technical specification

Standard Accessories

- Specimen collets
- Dead-weight set
- Alignment mandrel

A round specimen is rotated at constant speed under pure bending moment from a dead-weight loading system. A revolution counter and automatic cut-off at fracture log cycles to failure.

Features

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- Pure bending with constant moment reading gauge
- Speed up to 6000 rpm with VFD
- Automatic stop at specimen fracture
- Digital cycle counter
- Overload safe loading yoke

Technical Specifications

Bending moment	up to 100 N-m
Speed range	500 to 6000 rpm
Specimen diameter	6 to 12.5 mm
Cycle counter	up to 99,999,999 cycles
Test mode	Rotating bending, R = -1
Motor	1.5 kW, 3 phase
Power supply	415 V, 50 Hz
Standard	ISO 1143, ASTM E466 (rotating beam practice)