



ZEAL INTERNATIONAL (An ISO 9001 Certified Company)

Head Office: 1, Netaji Subhash Marg Daryaganj, New Delhi - 110002 INDIA

Phone: +91-11-23276114, 23244474, 23250281, 23278846 **Fax:** +91-11-43580558

Branch Office: 4/20 Kirti Nagar Industrial Area New Delhi - 110015 **Phone:** +91 11 45380800

Warehouse: 4/26 Kirti Nagar Industrial Area New Delhi – 110015

info@zealinternational.com

sales@zealinternational.com

support@zealinternational.com

quotation@zealinternational.com

Visit us at: www.zealinternational.com

Flexure Testing Machine - Hand Operated ZI 2062

Standards:

Specification:

Capacity: 100 and 250 kN

Flexure Testing Machines have been designed to meet the need for reliable and consistent testing of flexural test on standard concrete beams, transverse test on kerbs and flagstones, indirect tensile tests on concrete and interlocking pavers. It consists of a two pillar load frame with lock nut. The lower platen has two rollers, the distance between which is adjustable. For 150 mm x 150 mm x 700 mm beam, the center distance between the rollers is 600 mm, while it is 400 mm for beams of size 100 mm x 100 mm x 500 mm. The upper platen has also a pair of rollers whose distance is adjustable. It is 200 mm center to center, for 150 mm x 150 mm x 700 mm size beam and 133 mm for 100 mm x 100 mm x 500 mm size beam. Total capacity of the machine is 100 kn. A 200mm dia pressure gauge of 0-100 kn x 0.5 kn least count to indicate load is fixed on the load frame. A hand operated pumping unit attached to the load frame is supplied. Rate of loading is maintained manually while pumping the hydraulic pump with the handle.

The versatile load frame is designed for minimum deflection at maximum load resulting in very high accuracy. The load frame on 2 pillar lock nut type fabrication carrying the ram fitted to the lower base. It has a single acting down stroking ram with



over travel switch protection to shut the machine down should maximum ram travel be reached. The return of the ram is done by dead weight to get maximum accuracy on the load measurement. All flexural frames have been designed to accept all the accessories for flexural and transverse tests

Note: Compression platen for compression test should be ordered separately.

Specifications:

Ram Diameter	mm	82
Ram Travel	mm	50
Pressure Gauge Diameter	mm	200
Pressure Gauge	kN	100
Least Count	kN	0.5
Maximum Pressure	Kg./cm	200
Platen Diameter	mm	Nil
Horizontal Clearance	mm	210
Vertical Day Light	mm	160 (adj)
Height of Load Frame	mm	850
Weight of Load Frame	Kg.	150
Lead Screw		Yes
Specimen Size (Can Also Be Tested)		
Cube	mm	50, 70.6
Cylindrical	mm	50 x 100
Flexural Test	mm	100 x 100 x 500 150 x 150 x 700