



Available Variants:

- Bending Strength Test Apparatus For Cable Duct & Covers
- Bending Strength Test Apparatus - For Box Culvert

Introduction:

- Electro-hydraulic design with quiet and vibration-free operation. The machine provides automatic pace-rate control from 1 kN/sec to 10 kN/sec and is suitable for bending strength testing of box culverts, concrete ducts, duct covers and allied concrete structures.

Compliance Standards:

- IS 5820
- IS 516
- IS 9399

Applications:

1. Bending strength testing of box culverts.
2. Bending strength testing of concrete ducts and cable ducts.
3. Bending strength testing of duct covers.
4. Testing of allied concrete structures.
5. Supports Three-Point Bending, Four-Point Bending and Cyclic Load Tests.

Details:

1. Electro-hydraulic system provides quiet and vibration-free operation.
2. Automatic pace-rate control is available from 1 kN/sec to 10 kN/sec.
3. Standard digital model with 7" touch screen display and computer connectivity provision.
4. Direct display of applied load / collapsing force.
5. Selectable test units are available in kg and kN.
6. Automatic stop function is provided upon completion of the test.
7. Emergency switch is provided to stop the load applicator at the required height.
8. Embedded push buttons are provided on the digital panel for operation.
9. Integrated AC induction motor with drive controls the rate of loading.
10. Adjustable test span is provided for bending strength testing.
11. Crosshead movement is motorized.
12. Complete unit is finished with attractive powder coating.
13. Three rollers of 15 mm diameter are provided in the duct / duct-cover testing configuration.
14. Dual-range capacity models are available as per application requirement.
15. Computer connectivity is provided with the 7" touch screen controller.

Test Specimen / Accommodation Range:

- Maximum Box Culvert Size: 4000 (H) × 4000 (W) × 2200 (D) mm
- Minimum Specimen Size: 300 (H) × 600 (W) × 600 (D) mm
- The machine can accommodate different specimen sizes as per the selected configuration and test span.

Types of Tests Supported:

- Three-Point Bending

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F



- Four-Point Bending
- Cyclic Load Test

Additional Features:

1. Auto-stop upon completion of test.
2. Emergency stop provision.
3. Motorized crosshead movement.
4. Adjustable test span.
5. Direct load / collapsing force display.
6. Integrated motor and drive system for automatic loading-rate control.
7. Computer connectivity provision.

Note:

- 3 KVA Servo Controlled Stabilizer is mandatory.
- All civil work has to be carried out by the purchaser.
- The purchaser has to arrange a suitable crane for movement and positioning of the duct / specimen on the machine.
- Machine configuration, capacity, ram diameter, piston stroke and least count vary according to the selected model.

Technical Specification:

Parameter	Specification
Design	Electro-Hydraulic
Operation	Quiet and Vibration-Free
Pace Rate Control	Automatic, 1 kN/sec to 10 kN/sec
Capacity	200 kN / 500 kN; Dual Range 200 kN / 500 kN as applicable
Least Count	0.001 kN / 0.1 kN as per model
Accuracy	0.2% of Full Scale
Controller / Display	7" Touch Screen Display with Computer Connectivity
Ram Diameter	120 mm / 170 mm as per model
Piston Stroke	100 mm / 150 mm as per model
Piston-Cylinder Type	Double Acting
Test Specimen Accommodation	Up to 4000 (H) × 4000 (W) × 2200 (D) mm, as per model/configuration
Test Span	Adjustable
Rollers	3 Rollers, 15 mm Diameter, as applicable
Test Units	kg, kN
Crosshead Movement	Motorized
Construction	Mild Steel Body

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EIE INSTRUMENTS PVT. LTD.

(An ISO 9001:2015 Certified Company)

Parameter	Specification
Paint / Finish	Powder Coating
Power Supply	230 V, 50 Hz, Single Phase, AC Supply
Test Types	Three-Point Bending, Four-Point Bending and Cyclic Load Test

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