

EQVIMECH PVT. LTD.
D-22, Balaji Industrial Estate,
Taloja M.I.D.C, Navi Mumbai,
Maharashtra – 410208.
Contact: +91 9768965929.
www.Eqvimech.in

METAL TESTING MACHINE

MODEL NO. EM-AC/STB/L - 10 TO 200

METAL WIRE | METAL STRIP

Different machines or structures require different types of metals. The metal used in a bridge, for instance, is different from the metal used in a car fender. Each has varying mechanical properties which must be verified via testing to ensure safe use in the intended application. EQVIMECH materials testing machines are used all over the world by companies who need to make sure their metal materials make the grade.



EQVIMECH materials testing systems determine important characteristics of metals like elastic modulus, yield, elongation, reduction of area, n-value, R-value, Poisson's ratio, fracture toughness plus many torsional properties. Regardless of which metals you work with or how you need to test them, EQVIMECH offers accurate, reliable, rugged, easy to use testing systems that are made in the INDIA.

Tensile testing of metals such as steel or metal alloys. This test determines important mechanical properties such as yield strength, ultimate tensile strength, elongation, and reduction of area.

The compression testing of metals such as steel or metal alloys. This test method determines important mechanical properties such as the yield strength, the yield point, Young's Modulus, the stress-strain curve, and the compressive strength.

Testing standard that covers the tension testing requirements of metallic foil in thicknesses less than 0.006 in (0.150mm). (UTM Low Force Capacity)

Calculations: (LED Display / Software interface)

- Ultimate Tensile Strength or Peak Stress
- Compressive Strength
- Yield Strength by Offset or Extension Under Load Method
- % Elongation at Break (includes plastic deformations only)
- Reduction of Area
- Yield Point Elongation (YPE)
- Elongation at Fracture (includes elastic and plastic deformations)
- Bend Strength etc. (as per customer requirement)

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Recommended Equipment

Testing Equipment	 Model No. EM – AC/SS/TL/B – 10 to 200
Testing Standards	• ASTM D 370
	• ASTM D 938
	ASTM E 8
	ASTM E 9
	• ASTM E E 111
	• ASTM E 345
	• ASTM F 519
Accessories	 Extensometers



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Technical Specification:

Capacity	10 kN to 200 kN
Load cells available	1kN to 200kN (100kg – 20000kg)
Maximum crosshead travel	1000 mm
Testing speed range	0.1 to 500 mm/min
Maximum crosshead speed at 10 kN	500 mm/min
Jog speed	0. 1 to 500 mm/min
Return speed	0.1 to 500 mm/min
Frame stiffness	10kN/mm to 200kN/mm (as per model)
Dimensions (H × W × D)	1800 mm × 11000 mm × 450 mm
Weight (approx.)	400 - 800 kg (as per model)
Display	Graphical with test data output through inbuilt software
Power	220 V, Single phase , 50 Hz
Accuracy	± 0.5 % at 2 to 100 % Full Load
Standard Speed	0.5-500mm/min
	*Optional through computer software
Grip to Grip Suspension	Min 25 mm and Max.900 mm
	(applicable only with vice type standard grip)
Digital Load Suspension	LCD Display
Drive Mechanism	Variable Frequency Drive
Safety	Yes
Grippers	Vice Type (Screw Side Action Tensile Grips)
	Flexural
	Wedge Type
	Compression Plates
	Pneumatic
	Hydraulic
	3 – Point Bend Test
Communication Converter	RS 232
Material	Metal Sheet, Rods, Wire and More
Finish	Power coated / Zinc plating for corrosion resistant finish



