

FABRIC / TEXTILE TESTING MACHINE

MODEL NO. EM – ACSL – 1 TO 10

Textile| Coated Fabrics | Yarn| Non-Woven

EQVIMECH's materials testing systems help companies in the textile industry test their fabrics, cords, yarns, ropes, and thread for breakage strength, elongation, and tear resistance. Equipment includes test methods for covering a wide range of mechanical properties of coated fabrics. Designed to measure the tensile properties of threads and yarns. This test method is by far the most common specification that is followed for determining the breaking strength, elongation, and energy of threads, yarns, or other single strand textiles.

Fulfilling all common testing standard for those needing to test fabrics made from Acetate, Acrylic, Cotton, Flax, Nylon, Olefin, Polyester, Rayon, Silk, or Wool. These fabrics may be woven, knitted, or nonwoven. A Universal Testing Machine which can pull at a Constant Rate of Extension (CRE) is required as well as the necessary grips to secure the sample.

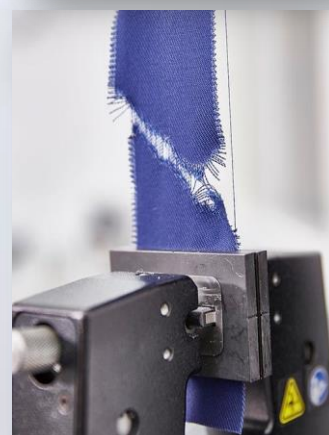
All Eqvimech's Testing Machines can be equipped with one of two closed loop servo controllers. Our most advanced testing system, is a PC-based unit that offers a wide range of flexibility in control, data acquisition, analysis, and reporting. Equipment automatically calculates common mechanical properties in accordance with specifications such as ASTM D638, ASTM D790, ASTM D412, and ASTM D624 among others. The Digital Controller, a standalone touch panel unit, offers a balance between performance and simplicity.

Calculations: (Software interface)

- Breaking Force
- Breaking Toughness
- Breaking Tenacity
- Elongation
- Maximum Load
- Load at Extension Point
- Tearing Force
- Tearing Strength etc. (as per customer requirement)

Recommended Equipment

Testing Equipment	• Model No. EM – ACSL – 1 to 10
Testing Standards	• ASTM D 412
	• ASTM D 790
	• ASTM D 638
	• ASTM D 76
	• ASTM D 5035
	• ASTM D 5587



Technical Specification:

Capacity	1 kN to10 kN
Load cells available	50N to 10kN (5kg – 1000kg)
Maximum crosshead travel	1000 mm
Testing speed range	0.1 to 500 mm/min
Maximum crosshead speed at 10 kN	500 mm/min
Return speed	0.1 to 500 mm/min
Frame stiffness	10kN/mm
Dimensions (H × W × D)	1200 mm × 500 mm × 450 mm
Weight (approx.)	115 kg
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) Wedge Type Roller Type Pneumatic 3 – Point Bend Test Peel Adhesion Test Burst or Puncture Coefficient of Friction Test Webbing Tensile
Communication Converter	RS 232
Material	Fabric, Yarn, wool, Thread, Rope etc.
Finish	Power coated / Zinc plating for corrosion resistant finish

