

UNIVERSAL TESTING MACHINE



Make	Model
Shimadzu, Japan	Autograph AG100KNG

Brief Description:

Universal Testing Machine: Universal Testing Machine Shimadzu AG 100 KNG Range: 1 kgf to 10,000 kgf; 1 kgf, 5000 kgf, 10,000 kgf load cells Bending, compression, inter laminar shear strength (ILSS) testing of materials.

- ❖ Universal Testing Machine is a fully automated universal testing machine for complete and comprehensive determination of physical strength, stress, strain, tensile, compression, bending, peeling, fatigue tests on various specimens.
- ❖ It offers the high resolution and accuracy.
- ❖ Static strength testing of various materials is possible with optional testing accessories for tensile, bending, compression, torsion & atmosphere testing.
- ❖ Materials with low testing force like films, fibers and general plastics, as well as relatively strong materials such as fiber-reinforced plastic, plywood, metals, steel etc. can also be tested
- ❖ Shimadzu UTM performs ISO, BS, DIN, ASTM and JIS standard testing.

Specification:

- ❖ Capacity:-100 KN (10000 kgf)
- ❖ Load Measuring Accuracy:- $\pm 0.5\%$ of indicated load
- ❖ Cross head speed range:- 0.05 to 1000 mm/min
- ❖ Cross head speed precision:- $\pm 0.1\%$
- ❖ Effective test width:- 575 mm.
- ❖ Tensile test device (non-shift wedge type device 100KN)
- ❖ Compression test device
- ❖ Three point bending test device
- ❖ Shearing test device
- ❖ Load Cell of 100 KN, 5KN, 1kgf
- ❖ Clamps for fiber specimens
- ❖ 1kgf load cell for fiber specimen

Applications:

- ❖ Tensile strength of Fabrics, Tires, Cords, Polymers, Plastics, Rubber, Steel, Composite etc.
- Compression tests, Bending test, inter laminar shear strength (ILSS).