

**Applications:**

- Used for tensile tests of Plastic, FRP, HDPE, Rubber, Fabric, Yarn, Belt, Geotextile, Paper, Adhesive Tapes, Adhesive bonds, Plastic Films etc.

**Salient Features:**

- Floor standing model
- Uniquely designed servo controlled operation
- Aesthetic exterior appearance
- Strong and durable load frame
- Simple and easy to understand operation
- Equipped with Twin Load cells (10kN and 100kN - 01 no each) to carry out various tests
- Equipped with Servo Motor, Servo drive, PLC controller and Touch screen Display HMI for Automatic operations
- Auto Load rate/Strain rate control using Imported SERVO DRIVE
- Smooth and accurate load rate control
- Easy on-screen load cell selection
- All Load-cell are permanently mounted, no need to remove any load cells
- Overload & extension protection parameter for mechanical safety by help of limit switches
- Also fitted with Emergency stop button to test the stop in between

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Automatic electronic controllable movement of Cross-head travels (START-STOP-UP-DOWN)
- Auto-stop / Return of cross heads to home position as and when sample breaks
- Speed Variation by Servo Drive from 0.01 mm/min to 500 mm/min
- Extension indication with least count of 0.5 mm through Proximity switch
- Supplied with Dedicated UTM Software to carry out various operation of the machine through software itself, User can also log and modify the recorded data, An operator can also plot various online graphs i.e. stress vs strain, Stress vs Time, Strain Vs Time within the software itself
- User can also export the generated data to excel files for further analysis
- Also, Supplied complete with Instruction manual, Test report and calibration certificate

**Software Facility (Standard Supply):**

- Specially designed Windows based Graphical Dedicated Software
- RS 232 interface with WINDOW based software to conduct the test directly from software itself
- Can store generated data with corresponding graph
- Can also store Yield Load, Yield Extension, Break Load, Break Extension, Max load and Modulus of Elasticity
- User can export the generated data in various file formats such as i.e. Excel, PDF etc
- Large Storage capacity (More than 50,000 tests) Depending upon Hard Disk capacity.
- User can change the design of generated graphs i.e. Line, Dotted line, etc facility in graph
- Graph Grids color combination facility
- Graph zooming facility
- Individual graph comparison facility
- Graph overlapping facility for analysis of material property
- Auto scaling facility

**Additional Features:**

- Company logo insertion facility
- Software can run various tests and can recall data for any test conducted in the history. (If Saved)

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- Software is Menu Driven for easy navigation.
- Test reports and graphs directly printed on terminal printer through direct print commands
- Data and Result Units Selectable
- User can operate the machine directly from the software itself

**Protection:**

- Overload protection for load cell
- Over travel of traversing crosshead in both direction
- Automatic stopping and return of cross head at original position immediately on breakage/Failure of specimen
- Higher traverse speed
- Emergency Manual switch for stopping the machine

**Commissioning of universal testing machine:**

Customer has to prepare foundation for the machine as per the drawings supplied by the manufacturer. Also, all electrical connections to be completed before the machine arrive and shall render assistance of semi/unskilled labor to complete the commissioning part. Unloading the machine and placing the same on the foundation has to be arranged at the customer end.

**Technical Specifications :**

Parameter	Specification
Motor type	Servo motor
Motor rating	7.5 kW motor
Motor speed control	Through dedicated servo drive
Speed range	0.01 – 500 mm/min
Horizontal daylight (in mm)	450 mm
Vertical daylight (in mm)	1100 mm
Cross head travel	1000 mm
Position resolution	0.01 mm

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Parameter	Specification
Controller	Touch screen HMI & PLC controller
No. of load cells	2 nos
Load cell capacity	10 kN and 100 kN (1000 KGF & 10000 KGF)
Load least count	0.1 kN and 1 kN respectively
Load cell accuracy	—
Encoder	For elongation indication, 500 PPR
Least count for elongation	0.5 mm travel
Unit selection	Newton / Kgf / kN
Indication parameters	Maximum load, Maximum elongation, Selected load cell, Breaking load, % Elongation, Current load
Paint	Powder coating in attractive shades
Supplied complete with	RS-485 PC connectivity and PC software
Jaws / Fixtures / Grips	As per application
Power supply	415 volts, 50 Hz, three phase, AC supply
Standard supply	Cord wire 2.5 meter long, Power plug, Software

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