



**COMPUTERIZED UNIVERSAL  
TESTING MACHINE**

Products | Applications | Software | Accessories | Consumables | Services

## COMPUTERIZED VERSION

The Machine is designed for testing metals and other material under TENSION, COMPRESSION, BENDING/ TRANSVERSE/SHEAR LOADS The machine is operable on 415 volts, three phase 50 Hz AC supply and based on the rated capacity of the machine, has FOUR LOAD MEASURING RANGES, as quoted below against each rated Capacity of the machine. AN AUTOGRAPHIC Continuous ROLL LOAD ELONGATION RECORDER load vs Elongation. The machine is supplied complete with the following Standard Accessories

## STANDARD ACCESSORIES

FOR CONDUCTING TENSION TESTS Clamping jaws for testing Round and Flat specimens under Tension Tests.

## FOR CONDUCTING COMPRESSION

TESTSA pair of Compression Platens, duly hardened ground and polished, with the bottom platen provided with guide- lines for placing the test specimen co-axial with the Hydraulic RAM

## FOR CONDUCTING BENDING/TRANSVERSE TESTS

A table with adjustable rollers complete with mandrel for conducting Bending /Transverse Tests.

## DOUBLE SHEAR TEST ATTACHMENT

The attachment is designed for conducting Double Shear on round specimen. The attachment comprises of a Double Shear Test Block and Bush.

## CAPACITY 500 KN,

Least Count (Resolution) 0.5 KN on the entire rated capacity of the machine

## APPLICATION SYSTEM:

- Peak load along with on line load
- Maximum elongation with online elongation
- Ultimate tensile Strength
- Graphical Display of load vs. time
- Graphical display of elongation vs. time.
- Graphical display of load vs. elongation
- Graphic display of stress vs. strain
- Complete statistical Analysis
- Data report management

## SAFETY FEATURES:

- Machine stops after specimen failure
- safety against over travel of piston
- Surge protector
- Auto machine diagnosis
- Safety against

## TECHNICAL SPECIFICATION:

Max Capacity: 50 Tonne  
Measuring Range: 0.5KN  
Max. Clearance for Tensile Test: 50-900mm  
Max. Clearance for Compression Test: 0-900mm  
Clearance between Columns: 850mm  
R A M Stroke: 300mm  
Straining/Piston Speed at no Load: 0-45mm Minimum  
Electric Supply: 3.0Kw

## STANDARD ACCESSORIES:

For Tension test: Clamping Jaws for round  
Specimen: 20-40, 40-60, 60-80mm  
Clamping Jaws for Flat Specimen: 0-20, 20-45, 45-70mm Width: 100mm  
For Compression Test: pair of compression plate of diameter: 220mm

**FOR TRANSVERSE TEST:** Table with adjustable rollers Width for rollers: 200mm

Diameters of rollers: 70mm  
Max. Clearance between support: 900mm  
Radius of punch Top: 30, 40mm



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