



# METTECHNIK

One stop solution in Metallurgy Testing

## COMPUTERISED TENSILE HARDNESS TESTER



These models are suitable for testing metals and iron, Plastics, Rubber, Ceramics, Fabrics , Composites, Cables and wires. Load is measured through a strain gauge based Load Cell and elongation is through rotary encoder. Depending upon the customers requirement a suitable type of grips are available. Extra Load cell can be offered suitable for low load samples

### Technical Specifications of Tensile Testing Machine:-

Max. Capacity-2500N

Measuring range -0-2500N

Ranges Least Counts-0.125 N

Elongation Scale L.C.- .001mm

Grip separation without Grip :

Min-25mm

Max-750 mm

variable speed drive stepless variation-5 to 300 mm/min

H.P. (for standard speed)- 1 Hp

Supply- 3 Phase, 415Volts, 50Hz AC

Over travel Safety-Provided with each model

### Software Features:-

Menu driven form system with colour graphs to compare sample test results.

Test details and reports are stored in database

User programmable master test templates

User can select test from master test Templates and can start similar test

Load and Elongation is continuously displayed on screen

Overload protection for machine by electronic control

Tare Load and Reset Elongation facility available

User selectable sample break detect condition

Load rate and strain rate are also displayed while testing

Unlimited Load rate and strain rate control steps \*

With Load rate controller, user can hold the load on specimen for unlimited time \*

With Load rate control, user can specify positive or negative Rate of Loading \*

User selectable units for load and displacement (kg, kN, N, Tbf, mm, cm, inch etc.) Results and graphs are automatically displayed accordingly.

On line display of Load and Displacement (Stress, Extension, Strain) etc. while test is conducted

Provision of auto zeroing of Elongation at preload set by user

User Programmable Reports. User can select Header, Footer, Specimen information, Dimensions, Test information, Test results, Statistical analysis as per his need.

Generated reports can be exported to PDF file and can be e-mailed

If electronic extensometer is used then proof stress values from 0.1% to 1% can be determined

Software will give alert to user to remove extensometer when load crosses .2% of Gauge length selected then proof load value is calculated. (With extensometer)

Separate graph of extensometer and encoder is displayed

Provision of calculation of Load and Elongation at yield, Peak load and Load at break, Yield stress, Ultimate stress etc.

Special software for tensile, compression, bend, TOR steel and other test software as per customer requirements.

**We also supply all types of Metallography Equipments**

