

**Specifications:-**

- Maximum Capacity : 1000kN
- Measuring Range : 0-1000kN
- Load Resolution (20000 Counts Full Scale) : 50N
- Load Range With Accuracy Of Meas +/- 1% : 20 To 1000kN
- Resolution Of Piston Movement (dISPLACEMENT) : 0.1mm
- Clearance For Tensile Test (aT Fully Descended Working Piston) : 50-850mm
- Clearance For Compression Test (aT Fully Descended Working Piston) : 0-850mm
- Clearance Between Columns : 750mm
- Ram Stroke : 250mm
- Straining/ Piston Speed (AT No Load) : 0-80mm/Min

**Connected Load :**

- Power : 3.5hp
- V : 400-440v
- $\Phi$  : 3

**Features :**

- Loading Accuracy As High As + 1%
- Straining At Variable Speeds To Suit A Wide Range Of Materials.
- Printer & Pc Graphs Enables To Study The Behavior Of The Material.
- Motor Driven Threaded Columns For Quick Effortless Adjustment Of Lower Cross-Head-To Facilitate Rapid Fixing Of Test Specimen.
- Simplicity In Reading Because Of Digital Readouts.
- Wide Range Of Standard And Special Accessories, Including Load Stabilizer

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



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- Easy Change From Plain To Threaded And Screwed Specimens.
- Large Effective Clearance Between Columns Enables Testing Of Standards Specimens As Well As Structures.
- Simple Controls For Ease Of Operation.
- Robust Straining Frame Of An Extremely Rigid Construction.
- Safe Operation Ensured By Means Of Safety Devices.
- Fully Enclosed And Protected Pressure Transducer.
- Rs 232 Serial Port To Transfer Data To Computer For Analysis/Storage Evaluation Etc.

#### Application :

- Electronic Universal Testing Machine Is Designed For Testing Ferrous & Non-Ferrous Materials Under Tension, Compression Bending, Transverse And Shear Loads. Hardness Test On Metals Can Also Conducted.

#### Straining Unit :

- This Consists Of A Cylinder Motor With Chain And Sprocket Drive And A Table Coupled With The Ram Of The Hydraulic Cylinder, Mounted On To A Robust Base.
- The Cylinder And The Ram Are Individually Lapped To Eliminate Friction. The Upper Cross-Head Is Rigidly Fixed To The Table By Two Strengthened Columns.
- The Lower Cross-Head Is Connected To Two Screwed Columns Which Are Driven By A Motor. Axial Loading Of The Ram Is Ensured By Relieving The Cylinder And Ram Of Any Possible Side Loading By The Provision Of Ball Seating.
- A Rotary Encoder Of Minimum Resolution 0.1mm Is Provided To Measure The Deformation Of The Specimen. Tension Test Is Conducted By Gripping The Test Specimen Between The Upper And Lower Cross-Heads.
- Compression, Transverse, Bending, Shear And Hardness Tests Are Conducted Between The Lower Cross-Head And The Table.
- The Lower Cross-Head Can Be Raised Or Lowered Rapidly By Operating The Screwed Columns, Thus Facilitating Ease Of Fixing Of The Test Specimen.

#### Control Panel :

- The Control Panel Consists Of A Power Pack Complete With Drive Motor And An Oil Tank, Control Valves And Electronic Display Unit.

#### Power Pack :

- The Power Pack Generates The Maximum Pressure Of 200 Kgf/Cm<sup>2</sup>. The Hydraulic Pump Provides Continuously Non-Pulsating Oil Flow. Hence The Load Application Is Very Smooth.

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**Hydraulic Controls :**

- Hand Operated Wheels Are Used To Control The Flow To And From The Hydraulic Cylinder.
- The Regulation Of The Oil Flow Is Infinitely Variable. Incorporated In The Hydraulic System Is A Regulating Valve, Which Maintains A Practically Constant Rate Of Piston Movement. Control By This Valve Allows Extensometer Reading To Be Taken.

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