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Product Name :	**Product Code :**
Computerized Universal Testing Machine (UTM)	TN415

Description :

Computerized Universal Testing Machine (UTM)

Technical Specification :

Computerized Universal Testing Machine (UTM)
Capacity: Up to 20 Ton
Test Speed
Test speed: 0.01 mm/min.
Test speed: 500 mm/min.
Full & return speeds: Compatible with above speed
Force at full speed: Compatible with full speed
Dimensions and features of cross heads of UTM
Width: in the range of 1000- 1200 mm
Depth: in the range of 500-600 mm
Height: in the range of 1600-2000 mm
Total crosshead travel: in the range of 1200-1400 mm
Total vertical test space: in the range of 1200-1400 mm
Frame Stiffness: Medium (Higher is preferable)
Mechanical test to be carried on UTM (able to performed all mentioned test)
Tensile Test
Compressive Test
Adhesion Test
Ductility Test
Fatigue/Cyclic Test

Flexure / Bending
Shear/Torsion Test
Operational Condition
Test Temperature: Room Temperature
Test Humidity: Normal
Display/User interface Digital Readout/Interface
Video/Graphic Display
Computer Interface: there (Via USB or Ethernet)
Application Software (Controlled by PC): there (Suitable and is compatible with OS)
Strain Measurement System: Industry Standards that is followed and their document Grade/Class Range limits Follow any of mentioned standards
Accuracy: ~ 0.5 Âµm
Repeatability: ~0.25Âµm
Discrimination / Resolution: 0.0004% of Range
Force measurement System
Accuracy: ~+_ the larger of 0.5 % of reading or 0.01 % of capacity
Repeatability: ~+_ the larger of 0.25 % of reading or 0.005 % of capacity
Load frame & drive system specification ~+_0.25mm (0.01 in.) over full
Lateral Motion: Crosshead Travel
Speed accuracy: ~+_0.1% of set speed for all forces within the capacity of the machine when average over the larger of 15 seconds or 50mm (2 inches)
Position Resolution: ~ 0.6 Âµm(25 micro inches) standard/0.06 Âµm is optional with high resolution encoder
Position accuracy: The greater of 0.025 mm (0.001in.)or 0.025% of movement
Measuring Units
Micrometer type: Reading to 0.001 mm (0.00005 in)
Caliper type: Reading to 0.01mm (0.0005 in)
Dial Indicator type: Reading to 0.025,0.0025 or 0.00025 mm (0.001,0.0001 or 0.00001 in)
Standard to be followed (follow one the mentioned standard relating to UTM and testing of materials)
Practice for Force verification of testing machine
Practice for calibration of Force measuring instrument for verifying the force indication of Testing machine
Practice for verification and Classification on extensometer systems
Practice for verification of test frame and specimen alignment under tensile and compressive Axial force application
Standard guide for evaluating computerized data acquisition systems used to acquire data from Universal Testing Machines;
Transmission: Hydraulic Type
Suitable for mechanical testing of following material
Tension Grip: Grip for rod, grip for plate
Compression Grip: Bending grip
Stainless Steel
Modified Stainless Steel such as SS 316, SS 316 LN (follow one the mentioned standard relating to UTM and testing of materials)
Polymer such as FRP, Polyamides, Epoxy esters
Different Metals such as Copper, Aluminum Alloys etc.

Naugralabequipments

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