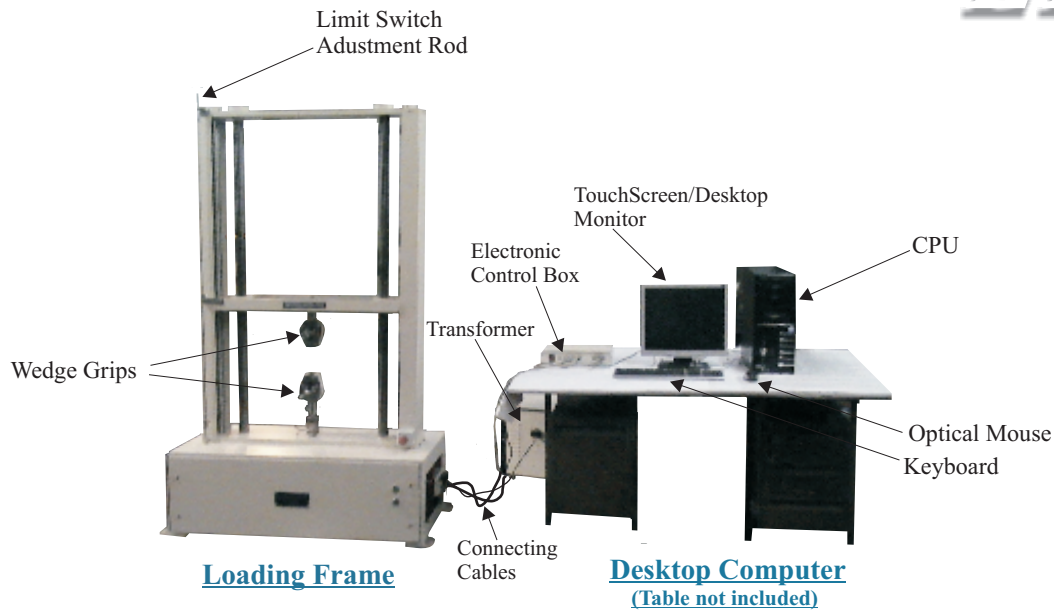


COMPUTERIZED UNIVERSAL TESTING MACHINE (Servo-Controlled)

A product from an ISO 9001-2000 Certified Company

ETS



'ETS' COMPUTERIZED UNIVERSAL TESTING MACHINE(SERVO-CONTROLLED)

The Universal Testing Machine shall be able to perform the following tests for a wide variety of materials and components:-

- a. Tensile
- b. Compression
- c. Shear
- d. Flexural
- e. Low Cyclic Test

The system includes:

- 1) Loading unit
- 2) Measure and Control unit
- 3) Operation unit
- 4) Testing Jig
- 5) High precision loading cell
- 6) Extensometers(Optional)
- 7) Transformer (Optional)
- 8) Software
- 9) Data processing software for tensile and compression test compatible with Windows Operating System.
- 10) Data Processing Unit

Technical Specification:

- 1) Loading Unit
 - Two column loading frame and of floor type
 - Loading method by high resolution digital AC servo motor
 - The capacity : 10 to 10,000 KGF/ KN equivalent.
(tension and compression mode)
 - The effective test width : 400 mm or more
 - The crosshead clearance : 1000 mm or more
 - Maximum speed : upto 500 mm/min or more

2) Measure And Control Unit

The crosshead speed range from 0.001 to 1000 mm/min with accuracy of $\pm 0.1\%$.
The crosshead return speed 500 mm/min or more and shall have auto-return function.
The crosshead stroke measurement shall be by means of optical encoder.
The crosshead stroke display resolution should be at least 0.001 mm
The crosshead control shall consist of single test control, cycle test control and manual test control.

3) Operation Unit

The operation unit must come with Desktop PC or LCD touch-screen(optional) for efficient system control and test results display.

The operation unit shall have the following function: -

Test Force Calibration Function

Break Detection Function

Automatic Read Function For Load Cell Characteristic Value

Peak/Break Value Display Function

Cycle Figure Display Function

Test Condition File Function, minimum 15 files.

Real Time S-S Curve Display.

4) Testing Jig

Tensile Test Device

The following devices shall be supplied to perform tensile test:

Wedge type grips Flat and Round specimens.

Compression Test device

The following devices shall be supplied to perform compression test:

A pair of fixed type 100 mm diameter compression plate

5) Load Cell

The load cell supplied shall have the accuracy of 1.0% of indicated load

6) Extensometer(Optional)

The extensometer shall give more accurate measurement of elongation

Strain gauge/LVDT type one touch extensometer gauge length 50 mm.

7) Software

The software shall have the following features:

The software shall support latest window based operating system.

The software shall comprise with the following test:-

▪Tension

▪Compression

▪Three-point Bending

▪Four-point Bending

▪Peel

▪Friction

•The software shall have real time curve plot.

•The software shall have data analysis mode.

8) Processing Unit

A set of computerized data processing and recording system interfaced with the controller consisting of:

i.Processor 530 with HT Technology, Intel Pentium 4,

ii.Min: 3.0 GHz, 1MB Cache, 800MHz FSB

iii.Motherboard c/w min: Intel 850 chipset

iv.Installed with latest Windows Operating System.

v.Cache memory on die.

vi.Main memory: min. 256 MB DDR-2 SDRAM (expandable to min 768 Mb)

vii.Hard Disk : min. 80 GB .

viii.128MB PCIe x16 ATI Radeon x300SE

ix.Floppy Disk drive : 1 x 1.44Mb

x.CD-ROM: min. 50 x speed

xi.Monitor. 17" color monitor.

xii.Windows keyboard and mouse:

Power source AC 220-240V 60Hz

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