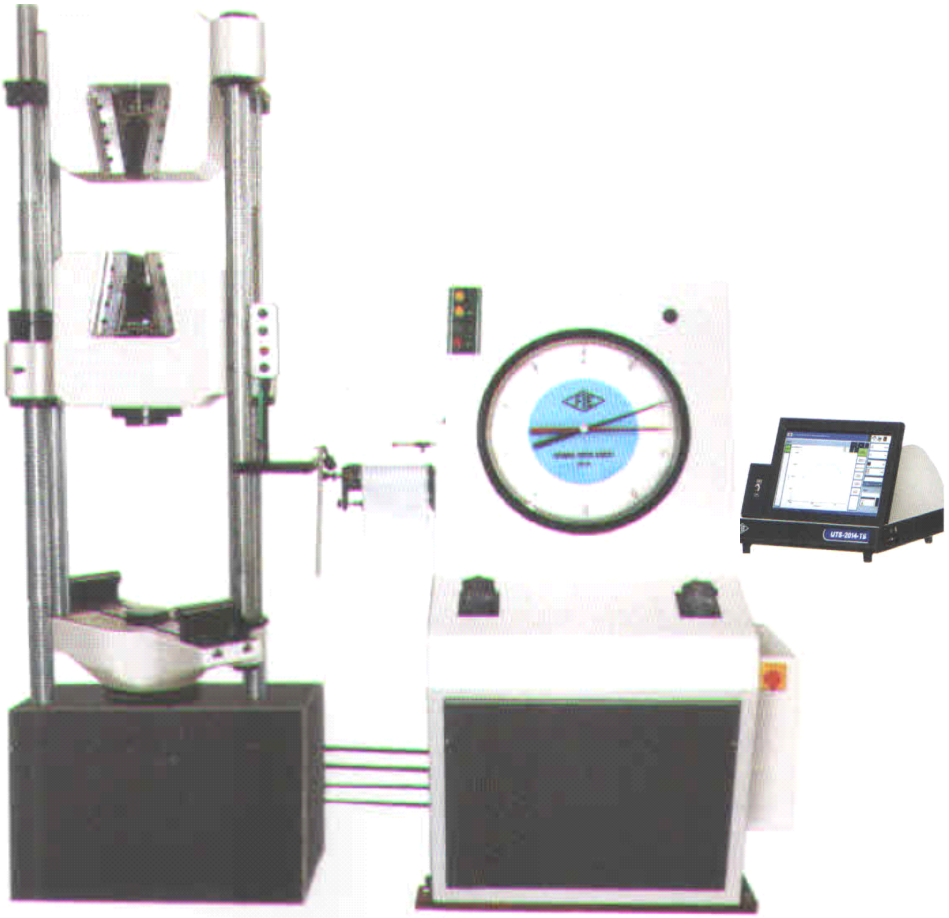
Over 50 years of consistent excellence

Analogue cum Electronic Computerized Touch Screen Hydraulic Grip Front Loading

Series: UTNE-HGFL-TS



Features :

- Open type cross head
- Hydraulic wedge action grips
- Long test stroke and dual test space
- Windows based touch screen control panel with printing connectivity.
- Loading accuracy as high as ± 1%
- Straining at variable speeds to suit a wide range of materials.
- Motor driven threaded columns for quick effortless adjustment of lower cross-head-to facilitate rapid fixing of test specimen.
- Wide range of standard and special accessories, including load stabilizer
- 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.
- Manual control & release valve operation.
- Load Capacity : 100 kN, 200 kN, 400 kN, 600 kN, 1000 kN and 1200 kN.

Computerized Touch Screen Control Panel
Series : UTE-2014-TS

PLC based panel incorporating state of art technology with following features -

- Front panel touch screen display
- Data entry of test parameters including pre-load, rupture %, Safe Load & Specimen data etc.
- Online graph of load Vs Displacement directly on screen.
- USB Printer port for printer interface with graph & result print out.
- Facility to export the result/ Data to PDF, EXCEL, WORD & CSV formats.
- windows based software available for Online graph on PC, Data analysis, Statistics, Point tracing, superimposing graphs to compare
- with standard, zooming graph etc.



Accuracy and Calibration :

FIE Electronic Universal testing machine is closely controlled for sensitivity, accuracy and calibration during every stage of manufacture.

Machine is calibrated over each of its measuring range in accordance with the procedure laid down in British standards 1610: Part1: 1992 and IS 1828: Part1: 1991.

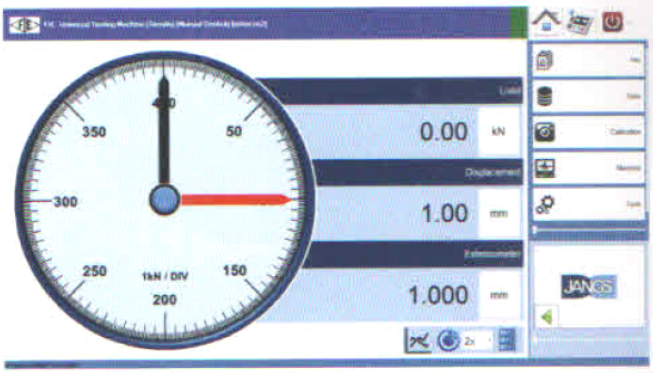
FIE Electronic Universal Testing Machine complies with Grade "A" of BS: 1610:Part1:1992 and class 1 of IS-1828-Part1:1991.

Over 50 years of consistent excellence

Tension & Compression Test Software Packages

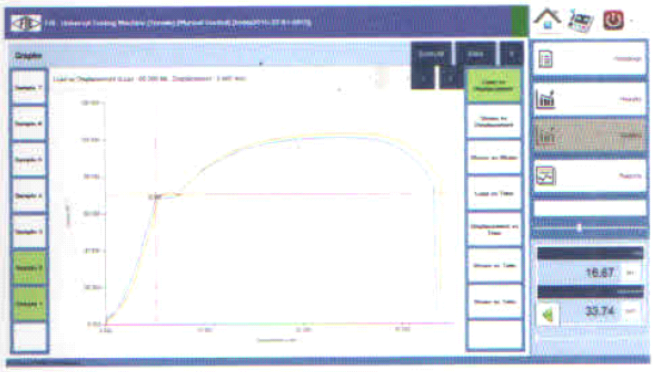
'FIE' Tension & Compression Test Software Package for -
UTE-TS, UTES-TS, UTE-HGFL-TS, UTES-HGFL-TS
(Standard Supply with TS Models).

Home Screen



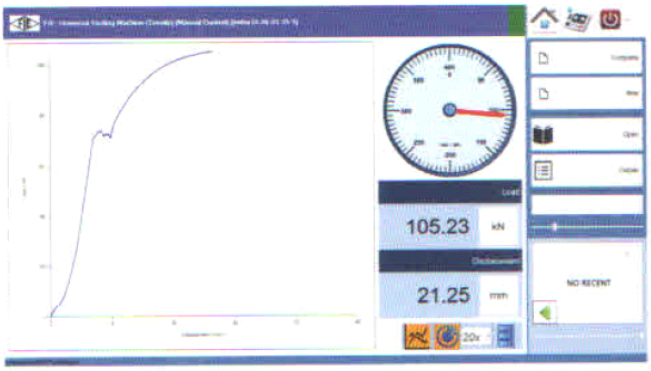
Displays values of load, displacement & extension with dial for displaying load.

Graph superimpose, Comparison & point tracing



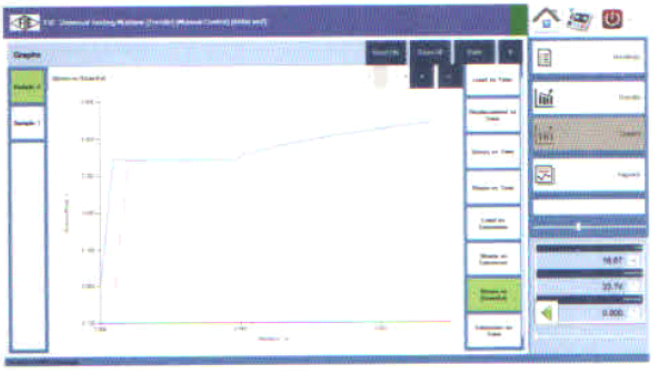
Graph comparison, superimpose of batch sample tests with Graph zooming and point tracing facility.

Real time graph



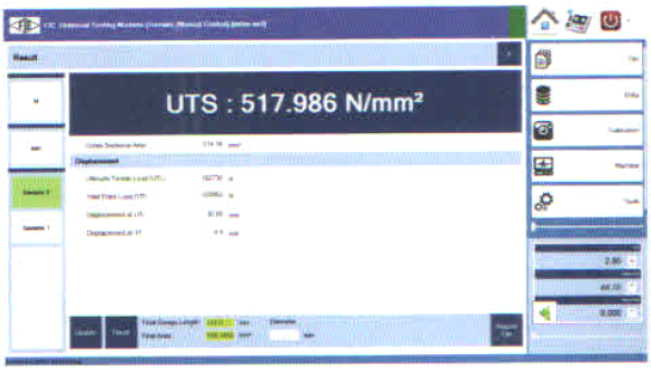
Real time values of load and displacement / extension used for plotting its graph & can be seen real time during testing & facility to convert the units simultaneously.

Load Vs Extension



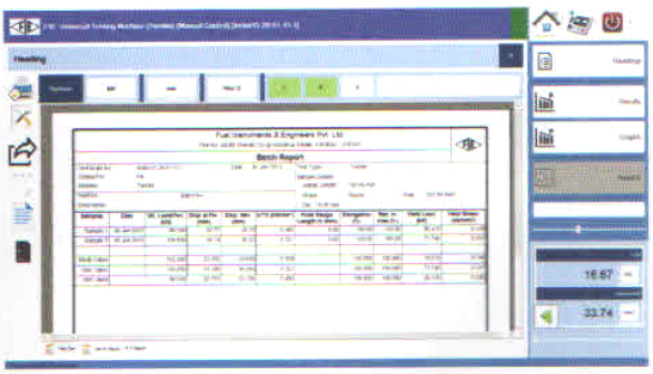
Displays graph for extensometer readings against load with proof lines for proof stress.

Final Result



Displays basic results of test conducted & automatically pop ups after test ends with facility to convert the units.

Statistics



Batch test reports with statistics for batch sample results & can be exported to various formats (DOC, XLS, CSV & PDF)

Technical Specifications for - Universal Testing Machine
Series – UTE-HGFL, UTES-HGFL, UTE-HGFL-TS, UTES-HGFL-TS

MODEL	UNIT	UTE 10	UTE 20	UTE 40	UTE 60	UTE 100	UTE 120
Maximum Capacity	kN	100	200	400	600	1000	1200
Measuring range	kN	0-100	0-200	0-400	0-600	0-1000	0 – 1200
Load resolution (20000 counts full scale)	N	5	10	20	30	50	60
Load range with accuracy of Measurement +/-1%	kN	2 to 100	4 to 200	8 to 400	12 to 600	20 to 1000	24-1200
Resolution of piston movement (Displacement) for UTE	mm	0.1	0.1	0.1	0.1	0.1	0.1
Resolution of piston movement (Displacement) for UTES, UTE-TS & UTES-TS series)	mm	0.01	0.01	0.01	0.01	0.01	0.01
Clearance for tensile test (At fully descended working piston)	mm	50-700	50-700	50-700	50-800	50-850	50-850
Clearance for compression test (At fully descended working piston)	mm	0-700	0-700	0-700	0-800	0-850	0-850
Clearance between columns	mm	500	500	500	600	750	750
Ram Stroke	mm	150	200	200	250	250	250
Straining/ Piston Speed (at no load)	mm/min	0-300	0-150	0-150	0-100	0-80	0-65
CONNECTED LOAD							
Power	HP	2.33	2.33	3.33	3.5	3.5	3.5
V		400-440	400-440	400-440	400-440	400-440	400-440
Φ		3	3	3	3	3	3
STANDARD ACCESSORIES							
FOR TENSION TEST							
Clamping jaws for round specimens of diameter	mm	10-20	10-20	10-20	10-20	10-20	10-20
		20-30	20-30	20-30	20-30	20-30	20-30
		.....	.....	30-40	30-40	30-40	30-40
		.....	.....	.....	.....	40-50	40-50
Clamping jaws for flat specimens of thickness	mm	0-10	0-10	0-10	0-10	0-10	0-10
		10-20	10-20	10-20	10-20	10-20	10-20
		.....	.....	20-30	20-30	20-30	20-30
		.....	.....	.....	.....	30-40	30-40
Width	mm	50	50	65	70	70	70
FOR COMPRESSION TEST							
Pair of Compression Plates of diameter.	mm	120	120	120	120	160	160
FOR TRANSVERSE TEST							
Table with adjustable rollers							
width of rollers	mm	160	160	160	160	160	160
Diameter of Rollers	mm	30	30	30	50	50	50
Maximum clearance between supports	mm	500	500	500	600	800	800