



# SUZUKI INSTRUMENTS

Think Reliability. Come To Us

## Electro Mechanical Universal Testing Machine

MODEL : S-UNITEK -1600TS



Micro Controller Based Panel,  
Front Panel Touch Screen Display



Facility for mounting different load cells  
& clamping devices



Provision for load cell interchangeability  
(Automatic selection of load full scale)



Best in Class Analysis Software

Plot No. A-803/804, Ajanta Ellora,  
Navyug Nagar S. V. Road, Dahisar East,  
Mumbai-400068, Maharashtra, India

E-MAIL : Suzuki.inst@gmail.com  
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## Features :

- Precision AC servo motor & drive with ball lead screw gives an advanced drive system with 1 to 500 standard speed range.

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- Provision for load cell interchangeability & thereby automatic selection of load full scale & Units (kN or N).

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- Speed selection through data entry .

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- Facility for mounting different load cells & clamping devices to suit different tests & materials such as thin wires, metal sheets, fiber glass, leathers, springs, card boards etc.

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- Built-in parallel interface to connect Dot matrix printer for data & curve print-out.

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- Safety interlock for overload & limit switch sensing to ensure protection during test.

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- Universal applications in R& D, Education, Quality control & Production for test like, Tensile, Compression, Bending etc.

## Load Cells :

"SUZUKI "offers Strain gauge type Universal load cells in different capacities in the following nominal ranges : 100N, 250 N, 500 N, 1 kN, 2.5 kN, 5 kN, 10 kN, 25 kN, 50 kN, 100 kN, 200 kN load cells to different capacity can be offered as per customers requirements.

## Grip & Clamping Devices :

- Wedge type grips for flat & round specimens with different inserts. (Manual / Hydraulic)

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- Vice type grips

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- Single threaded grips.

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- Compression plates.

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- Bending fixtures.

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- Shearing attachments.

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## TOUCH SCREEN PANEL FEATURES :

Micro Controller 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 & 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.

Printer port for printer interface with -

- Graph & result print-out.
- Test Certificate print-out.
- Batch certificate print-out.
- Simple statistics print-out.

## Extensometers :

- Electronic extensometers are offered with interface card on the control panel to measure extension.  
Model : EE2-Strain Gauge (With 1 micron resolution).
- Long travel extensometer, Model : LTE-800.

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MODEL		UNITEK 1601 TS	UNITEK 1605 TS	UNITEK 1610 TS	UNITEK 1650 TS	UNITEK 16100 TS		UNITEK 16200 TS	UNITS
						250	500		
Load Range		0-1	0-5	0-10	0-50	0-100		0-200	kN
Load Resolution	0-100% of nominal load cell connected	1/40000 of F.S.		1/40000 of F.S.	—				
Load Measuring Accuracy		±1% from 2% to 100% of load cell used.		±1% from 2% to 100% of load cell used.	—				
Max. Crosshead Stroke		1000 (without grips & load cell)		800 (without grips & load cell)	mm				
Clearance between columns		450	450	450	450	450		430	mm
Crosshead displacement Measurement		0.01	0.01	0.01	0.01	0.01		0.01	mm
Crosshead Speed Range		0.5-500	0.5-500	0.5-500	0.5-500	0.5-250 or 0.5-500		0.5-100	mm/min
Power Supply		230 VAC, 50 Hz Single Phase	440 VAC, 50 Hz Three Phase		440 VAC, 50 Hz Three Phase	—			

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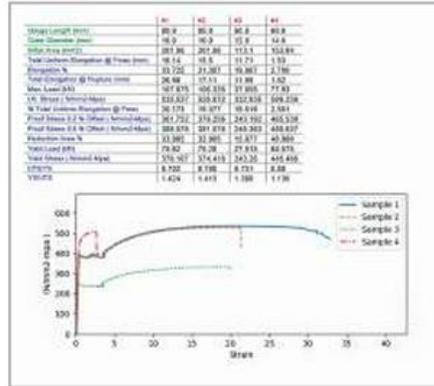


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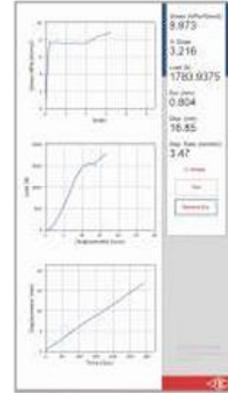
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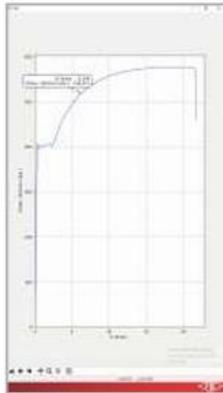
Home Screen



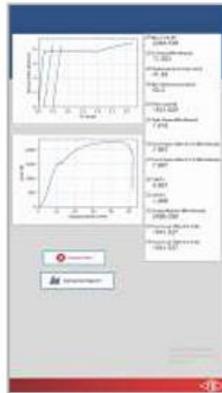
Graph of superimpose & Comparison



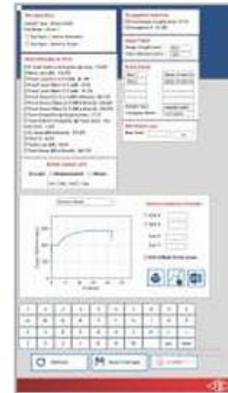
Real time graph



Point Tracing & Zoom



Results after Test



Results

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