



## UNITEK UniTek Products by CCSi

The UniTek™ UTE Series Electronic Universal Testing Machines are designed for testing a wide range of materials under tension, compression, bending, transverse and shear loads.

This solidly built instrument employs a hydraulic power unit that generates 200 kgf/cm through a non-pulsating pump, allowing for extremely smooth and accurate operation compared to its mechanical counterparts.

The oil flow is infinitely variable and the regulating valve maintains a smooth and constant rate of piston movement.

### UniTek™ UTE Series: System Features



WIRE TENSION TEST

- Loading accuracy of  $\pm 1\%$ ;
- Infinitely variable strain;
- Simple controls, easy-to-operate;
- Heavy Duty cast frame;
- Large clearance accommodates a wide range of specimens;
- Fully enclosed pressure transducer;
- X-Y plotter option;
- High torque electric motor drives on large twin threaded columns;
- Effortless adjustment of central crosshead;
- Electronic digital console;
- RS-232C serial port option;
- Optional TekWare software package.



TENSION TEST



COMPRESSION TEST



THREADED TENSION TEST



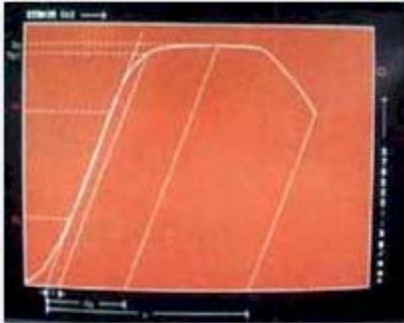
TRANSVERSE TEST



ELECTRONIC CONTROL PANEL



TEKWARE SOFTWARE SCREEN



TEKWARE SOFTWARE SCREEN

### UniTek™ UTE Series: Control System Features

- 8085 microprocessor based measurement;
- Panel mounted membrane type keyboard;
- 7 segment digital display of load, extension displacement data in real time;
- Printer port for printing of data;
- Optional serial port for PC communications;
- Optional electronic extensometer;
- Storage of critical test data such as peak load, displacement at pre-load & maximum displacement;
- Keyboard selection of compression, tension or cyclic test types;
- Pre-load "thumbwheel" selection of from 0.01 to 1%;
- End of test crosshead position selector: "stop" or "return".

### UTE Series: Optional TekWare Software

- User friendly "pop-up" menus;
- Prompt messages and help menu;
- Evaluation of user selectable parameters:
  - Young's modulus,
  - Yield Stress,
  - Proof Stress,
  - Many More!
- Optional Statistical Package;
- Printout options: Tabular or Graph format.

### UniTek™ UTE Series: Specifications

Model:	UTE10	UTE20	UTE40	UTE60	UTE100	UTE200	UTE300
Capacity (kN):	100	200	400	600	1000	2000	3000
Measurement Range (kN):	0-100	0-200	0-400	0-600	0-1000	0-2000	0-3000
Load Range(kN): (± 1%)	2-100	4-200	8-400	12-600	20-1000	40-2000	60-3000
Piston Resolution (mm):	0.1						
Tensile Clearance (mm):	50-700		50-800		50-850	50-900	
Compression Clearance (mm):	0-700		0-800		0-850	0-900	
Between Column Clearance (mm):	500		600		750	850	
Ram Stroke (mm):	150	200		250		300	
Piston Speed (mm/min):	0-300	0-150		0-100	0-80	0-45	0-50
HP:	1.3	1.3	2.3	2.5	3.5	6.5	8.5
Dimensions (mm):							
L	2032	2032	2060	2265	2415	3000	3500
W	750	750	750	750	815	1200	1900
H	1960	1960	2180	2534	2900	3600	4550
Weight (kg):	1500	1500	2500	3500	5500	12500	22000
List Price:	<a href="#">Please Submit a Request for Quotation (RFQ)</a>						

### UniTek™ UTE Series: Standard Accessories

- 1 pair clamping jaws for round specimens;
- 1 pair clamping jaws for flat specimens;
- 1 pair compression plates;
- Transverse testing table with adjustable rollers.

### UniTek™ UTE Series: Optional Accessories

- Load stabilizer;
- Printer or plotter;
- Brinell test attachment;
- Shear test attachment;
- RS-232C serial port;
- Mechanical extensometer;
- Electronic extensometer;
- kg/kN selectable display;
- 0.01 mm piston resolution;
- Increased load resolution.

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