

## UniTek™ F9500 Series Universal Testing Machines



**UNITEK** UniTek Products  
by CCSi

The UniTek™ F9500 Series Universal Testing Machines are PC controlled electro—mechanical testers designed with state—of—the—art technology for testing and studying the physical properties and mechanical behavior of a wide range of materials such as polymers and elastomers.

### UniTek™ F9500 Series: System Features

- Servo drive with ball lead screws providing an advanced drive system with a wide speed range;
- High resolution digital encoder that measures crosshead movement to within 10 $\mu$  (100,000 Å);
- PC based system for data acquisition, analysis, storage, retrieval and display;
- User friendly menu—driven software;
- Integral crosshead safety interlocks;
- A wide range of load cells, grips & accessories;
- Suitable for R&D, education, QC/QA and production control applications.

### UniTek™ F9500 Series: Control System Features

- Pentium® PC with Windows 95/98® based measurement and control system;
- Advanced “pop—up · pull—down · message prompt” style menu driven software;
- Intuitive on-line help & appropriate error messages;
- Extensive easy—to—read real time graphics;
- Advanced file handling utilities create, store & retrieve test data for printing or graphical re—display;
- Database storage of batch test data;
- Wide range of available user selectable test parameters such as pre—load, rupture cut—out threshold, test speed, modulus data units and more;
- Wide range of available output parameters for evaluation such as ultimate stress, Young's modulus, yield stress, 0.1% and 0.2% proof stress, % elongation, uniform strain, bending stress and more;
- Available option for accurately plotting curves and printing test results;
- User selectable options for printed test results.

### UniTek™ F9500 Series: Optional PC Software

Optional Software packages are available for:

- Spring Testing;
- Statistical Evaluation;
- Torsional Tests;
- Polymers & Elastomers;
- Custom Designed to Customer Requirements.

### UniTek™ F9500 Series: Grips and Clamps

A wide range of grips and clamps are available:

- Wedge types for flat and round specimens;
- Vise types;
- Single strand (conductor);
- Pneumatic types;
- Compression plates;
- Bending fixtures;
- Shearing types.

### UniTek™ F9500 Series: Extensometers

Electronic analog extensometers are available to measure extension with 1 $\mu$  resolution:

- Model 1: EE—2 Strain Gage
- Model 2: LTE—50 LVDT Type

## UniTek™ F9500 Series: Strain Gauges

A variety of strain gage type load cells are available to meet most needs including:

- 10 kN
- 50 kN
- 100 kN

## UniTek™ F9500 Series: Specifications

UniTek™ F9500 SERIES SPECIFICATIONS			
MODEL:	F9510	F9550	F95100
LOAD RANGE:	0 – 10 kN	0 – 50 kN	0 – 100 kN
LOAD RESOLUTION:	1/25000 of nominal load cell		
LOAD ACCURACY:	± 1% through 2–100% of range		
VERTICAL CAPACITY:	1000 mm without grips or load cell		
COLUMN CLEARANCE:	450 mm		
CROSSHEAD SPEED:	0.25–500 mm/min		
CROSSHEAD MEASUREMENT:	0.01 mm		
POWER REQUIRED:	230 VAC, 50/60 Hz, 1 PH		
CONFORMS TO:	ASTM, BSI, ISO		
LIST PRICE:	<a href="#">Please Submit a Request for Quotation (RFQ)</a>		

## UniTek™ F9500 Series: Options

- Load Resolution: 0.001 mm resolution for crosshead displacement;
- Load Measuring Accuracy: ± 0.5% through 1–100% of load cell range;
- F9500 Software Packages:
  - Basic Evaluation,
  - Extensive Evaluation,
  - Polymer–Elastomer–Textile,
  - Compression–Shear–Bending,
  - Torsional Testing,
  - Spring Testing,
  - Statistical Evaluation.

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