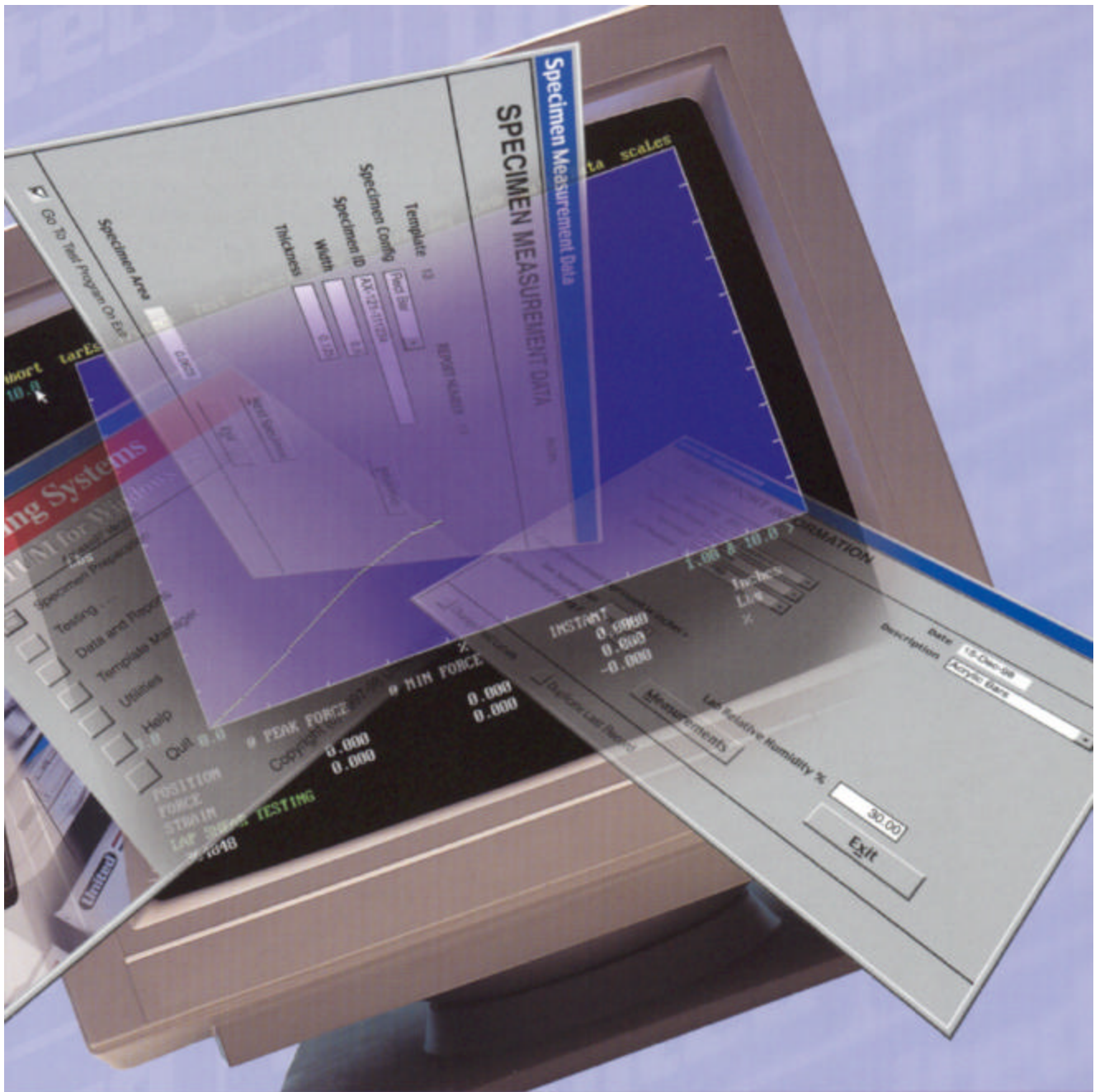


**MATERIALS TESTING SOFTWARE**



United's materials testing software offers solutions from a basic manual testing program to advanced database-centered software.

We also develop customized software solutions that provide the ultimate in precision machine control, accurate data recording and flexible analysis.

## United Calibration Corporation & United Testing Systems, Inc.

Established in 1964, United Calibration Corporation has succeeded in becoming one of the world's premier manufacturers of state-of-the-art materials testing systems.

United is committed to establishing and maintaining itself as the front-runner in materials testing technology. United pioneered the first automatic data acquisition and reduction system to be used in conjunction with physical testing. United developed the first fully automatic test system able to test several samples in sequence without operator involvement. These breakthroughs have earned United an enviable reputation as the **"Pioneer in Tensile Data Acquisition."**

Headquartered in Huntington Beach, California, United currently manufactures a diverse line of materials testing equipment to accommodate virtually any material or force-testing requirement. United is especially known for its line of computer-inclusive electromechanical test machines designated as the "SMART" series of test systems. These systems feature the latest in software technology and range in capacities from 100 to 120,000 pounds.

United prides itself on offering test equipment built to exacting quality standards and designed to meet or exceed all applicable national and international published specifications relating to the operation of material testing equipment. All United test equipment is backed by a generous warranty program and supported by well-trained, experienced staff of calibration and service engineers.

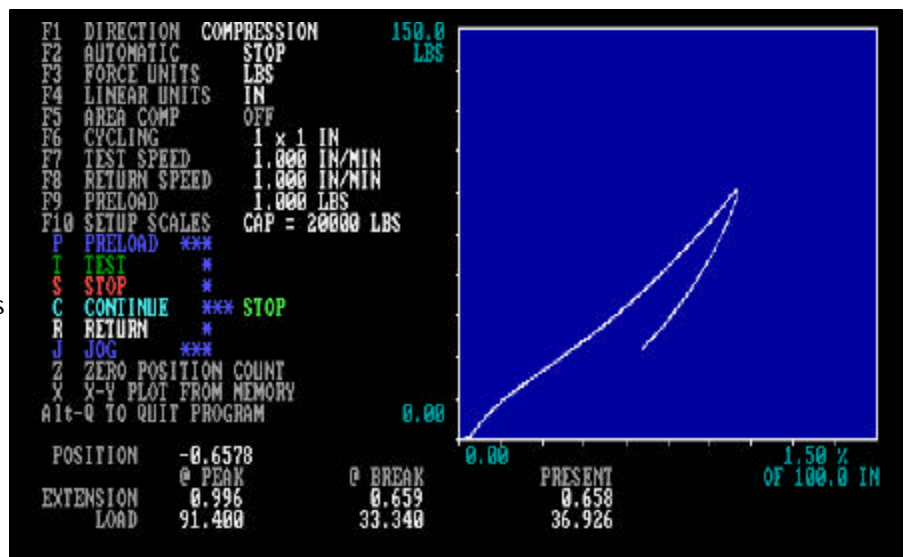
All test equipment and systems are manufactured in Huntington Beach, California by United Calibration Corporation, and marketed throughout the U.S. by United Testing Systems, Inc. Our products are also available worldwide through an international network of factory-trained authorized representatives.

## United offers ultimate flexibility in materials testing software.

Beginning With the basics, all United Smart Testing Systems include at no additional cost, United's time-tested and easy-to-use EZ-Man Materials Testing Software. EZ-Man features include:

- Selection of tension or compression mode
- Selectable units: lbs, Kg, N, oz
- Selectable crosshead speeds
- Save test set-up and test data
- Print test curves and peak values

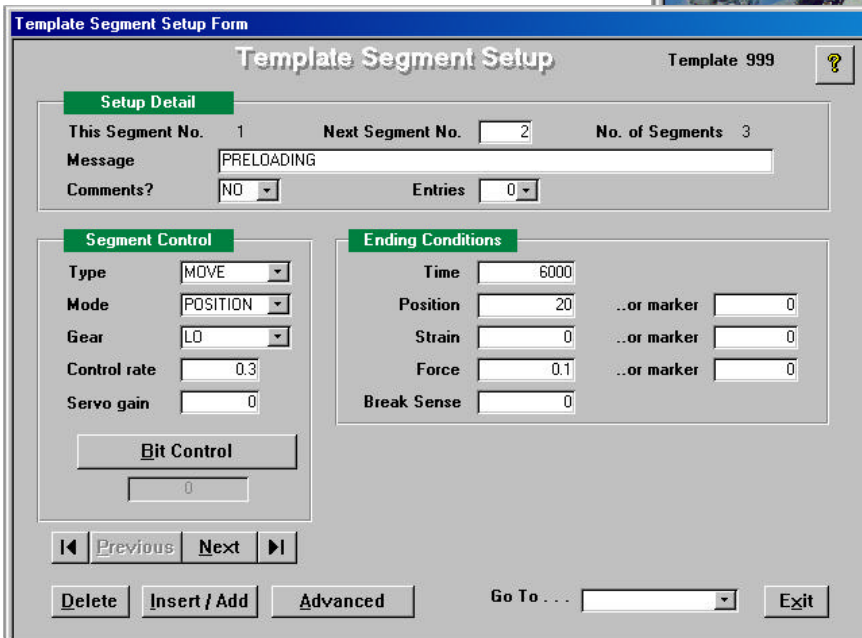
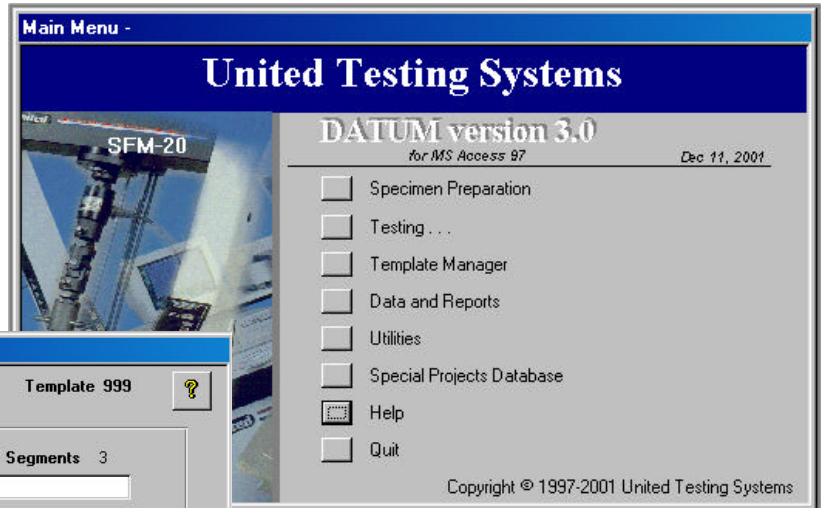
EZ-Man is the basic way to get results from your new United tester. It is as simple as loading your sample in the grips and pressing "T" on the keyboard to start the testing. EZ-Man does the rest for you! In addition to a numeric reading of the test results it also plots them graphically.



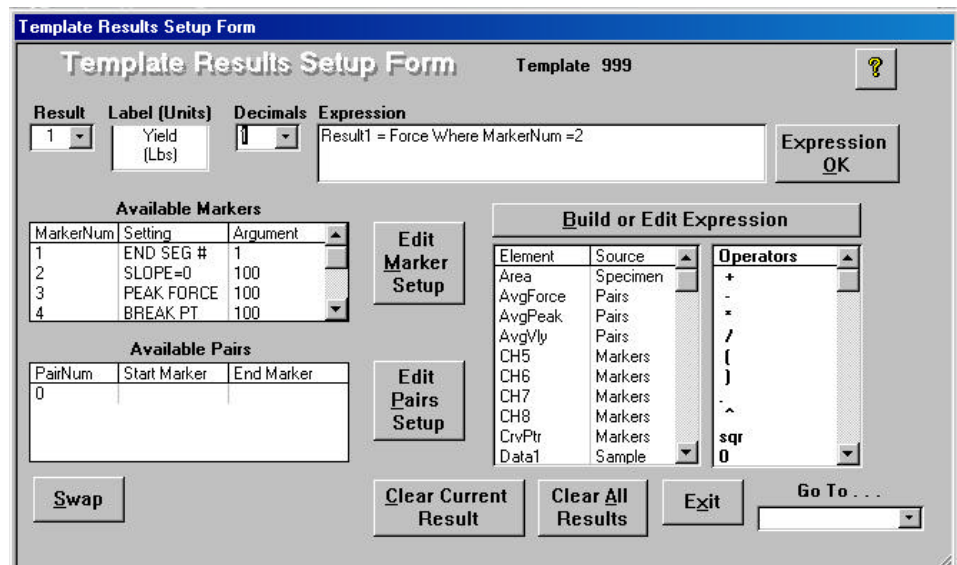
## United's DATUM: Advanced Database-Centered Software

While EZ-Man can handle the basics, DATUM provides all the features you want in materials testing software in a single station or multi-user network environment. DATUM provides:

- Precise machine control
- High-speed data acquisition
- Template manager for flexible test method design
- Microsoft Access®-based software links with specialized databases
- Powerful built-in analysis tools included or design your own with the query capability of Access
- Generate publication-quality reports that are fully customizable



DATUM's simple to follow screens make it easy to setup custom test methods



Function Selection and Data Entry are Made Simple with Clear, Easy-to-Read Screens

Sample Information & Specimen Measurements, Template 36

### TEST REPORT INFORMATION

Report No 239 5/29/01 2:27:28 PM

Customer Name  Description

Operator  Lot No

Test Request #

P/N

Change Field Labels  Duplicate Last Test Report  Add Tests to Prior Test Report

Linear Dimensions Expressed in Inches Jaw Separation  Lab Rel Humidit

Lab Temperature

### SPECIMEN MEASUREMENTS (1)

Specimen Configuration >

Spec ID	Width	Thickness					Area
Bar T-6	0.5	0.125	0	0	0	0	0.0625
							1

Delete All Specimens

Template Marker & Pair Setup Form

### Template Marker & Pair Setup Form

Template 999

Marker Number  Pair Number (>0)

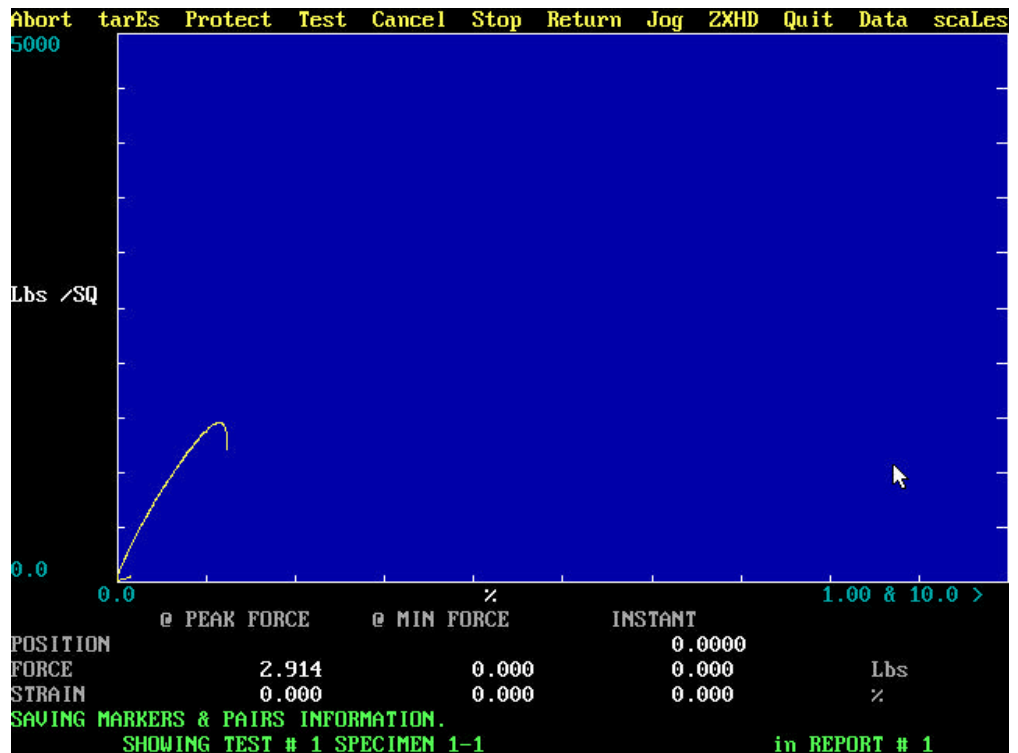
Marker Setting  Start Marker

Argument  End Marker

Record:  of 4 Record:  of 1

Go To ...

Point-and-click operation for basic selections along with clearly defined data fields make DATUM the easy-to-use choice for materials testing environments. Sophisticated routines automatically set marker positions and perform calculations in accordance with test method requirements.



Test results are posted automatically in Microsoft Access® database for subsequent analysis

**Test Results** P/N abc123  Warnings On ?

Template No 36 **Tensile Properties of Plastics**

**Reports**

**Specimen Prep**

**Exclude - Include**

**Delete Record**

**Graph**

Test No	Report No	Specimen ID	Customer Name	Report Date
270	242	B-2	United Calibration Corp	6/1/2001
271	242	B-0	United Calibration Corp	6/1/2001
269	241	14	RTI	6/1/2001
265	239	1-1	RTI	6/1/2001
246	209	Bar T-1	XYZ Corp	6/9/1998
247	209	Bar T-2	XYZ Corp	6/9/1998
248	209	Bar T-3	XYZ Corp	6/9/1998
249	209	Bar T-4	XYZ Corp	6/9/1998
250	209	Bar T-5	XYZ Corp	6/9/1998
251	209	Bar T-6	XYZ Corp	6/9/1998
252	209	Bar T-7	XYZ Corp	6/9/1998
253	209	Bar T-8	XYZ Corp	6/9/1998
245	208	Test 1	Rohm & Haas	6/9/1998

**Stress vs Extension** **Recalculate** **Exit**

Yield Lbs	Yield (Lbs / In <sup>2</sup> )	Tensile (Lbs)	Tensile (Lbs / In <sup>2</sup> )	Total Elong (%)	Tan Mod (Ksi)
131.4	<b>9,230</b>	150.8	10,590	126.0	<b>235</b>

Generate fully customizable plots & reports

**Jun 1, 2001**

**Report No. 209**

**Tensile Properties of Plastics**

Test Date 09-Jun-98 Testing Machine SSTM500

Customer Name XYZ Corp Description Acrylic Bars

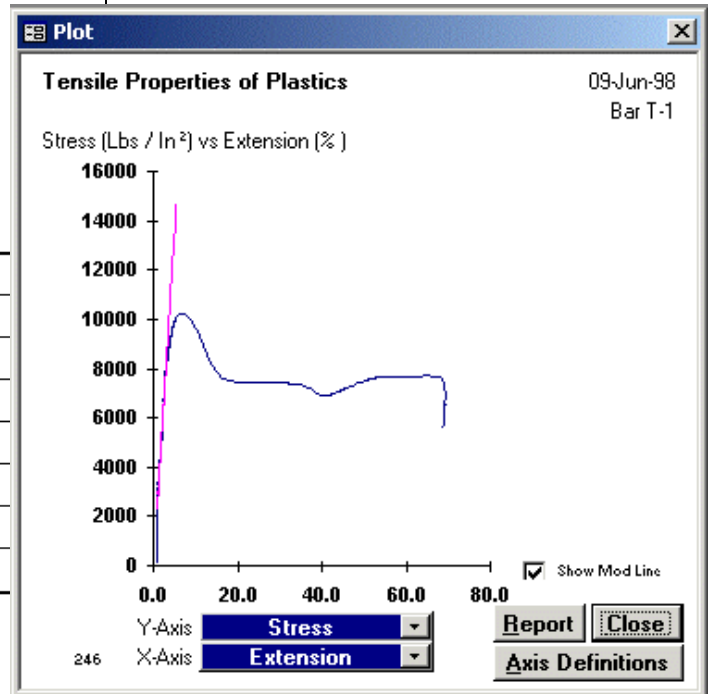
Operator Tom Settimi

PN abc123

Jaw Separation 1.25

Lab Temperature 72 Lab Rel Humidity 30

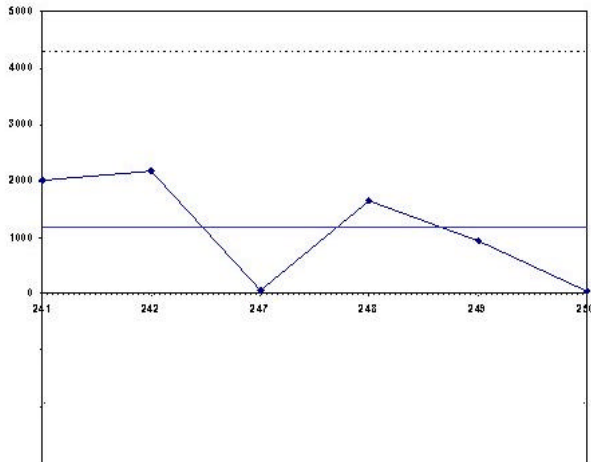
Test No	Spec ID	Yield Lbs	Yield (Lbs / In <sup>2</sup> )	Tensile (Lbs)	Tensile (Lbs / In <sup>2</sup> )	Total Elong (%)	Tan Mod (Ksi)
246	Bar T-1	133.8	10,137	134.9	10,219	88.8	269
	ok						
247	Bar T-2	132.8	9,324	157.4	11,057	131.6	189
	ok						
248	Bar T-3	131.9	9,267	159.2	11,181	129.0	244
	Extension artifact at about 90%						
249	Bar T-4	132.5	9,309	157.7	11,074	132.4	161
	ok						
251	Bar T-6	130.3	9,152	132.2	9,288	106.4	241
	ok						
252	Bar T-7	132.6	9,312	133.4	9,367	101.9	261
	ok						
253	Bar T-8	134.2	9,424	144.9	10,179	115.5	220
	ok						
Mean		132.6	9,418	145.7	10,338	112.2	226
Median		132.6	9,312	144.9	10,219	115.5	241
Std Dev		1.3	327	12.3	801	22.8	39
Maximum		134.2	10,137	159.2	11,181	132.4	269
Minimum		130.3	9,152	132.2	9,288	88.8	161
Range		3.9	985	27.0	1,893	63.6	108
Specification (min)			10,000		10,000		250
(max)							



### United Testing Systems

#### Control Chart for P/N FG013

Tensile Properties of Plastics - Tensile (Lbs / In<sup>2</sup>)  
6/1/2001 to 6/2/2001



◆ Data Point  
 - - - Spec Min  
 - - - Spec Max  
 — Grand Mean  
 - - - Plus 3 Sigma  
 - - - Minus 3 Sigma

Valuable features such as **Control Charting** and flexible report generator are built into **DATUM**. They are included at **NO** extra cost with every purchase.

**Select Report Screen**

Template No 36    Tensile Properties of Plastics    21 Record(s)

**Reset**

**View Report**

**Print Report**

**Exit**

Test No	Report No	Specimen ID	Customer Name	Report Date
295	252	1	United Calibration Corp	6/2/2001
296	252	2	United Calibration Corp	6/2/2001
297	252	3	United Calibration Corp	6/2/2001
291	250	1x-1	United Calibration Corp	6/2/2001
286	249	1-1	United Calibration Corp	6/2/2001
287	249	1-2	United Calibration Corp	6/2/2001
288	249	1-3	United Calibration Corp	6/2/2001
289	249	1-4	United Calibration Corp	6/2/2001

**Select Date Range**

From: 6/9/1998    To: 6/2/2001

abc123  
FG013

Customer Name = United Calibration Corp OR Customer Name = XYZ Corp

**Apply Criteria**

**Select Sample Criteria**

P/N =

	Tensile (Lbs)	Tensile (Lbs / In <sup>2</sup> )	Total Elong (%)	Tan Mod (Ksi)
Yield (Lbs)				
Yield (Lbs / In <sup>2</sup> )				
Tensile (Lbs)				
Tensile (Lbs / In <sup>2</sup> )	5.3	2,656	0.0	0
Total Elong (%)				
Tan Mod (Ksi)				
Report Number				

### System Requirements:

United DATUM requires a Pentium III PC-compatible computer running Microsoft Windows 98, 98SE, Me, or XP, with 128MB memory, CD-ROM drive, 3.5" floppy and 2.0GB hard drive.



**PROVIDING QUALITY CONTROL & ENGINEERING WITH THE TEST DATA THEY NEED USED TO BE A PROBLEM.**

**NOT ANY MORE!**

Flexible network configurations custom tailored to your requirements make it possible.

