# 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.



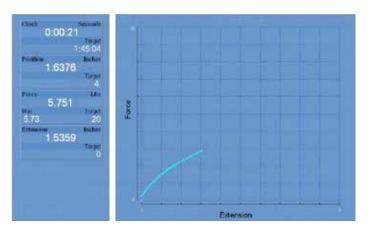


# **United Testing** Systems, Inc.

Established in 1964, United Testing Systems, Formerly known as 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 Fullerton, 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 0.5KN to 600KN. 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 Fullerton, California by United Testing Systems. Our products are also available worldwide through an international network of factory-trained authorized representatives.



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

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

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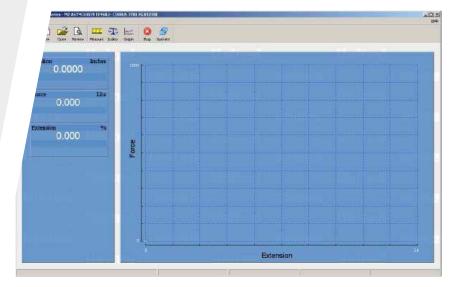
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DATUM's simple to follow screens make it easy to setup custom test methods **Function Selection** and Data Entry are Made Simple with Clear, Easy-to-Read Screens

Point-and-click operations 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.

	Report	TestDate	Test Number	Part Nu	mber	~
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Template Marker & Pair Setup Form	Form Template 999
Marker Number 1	Pair Number ( >0 )
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Argument 1	End Marker
Add Marker Delete Marker	Add Pair Delete Pair
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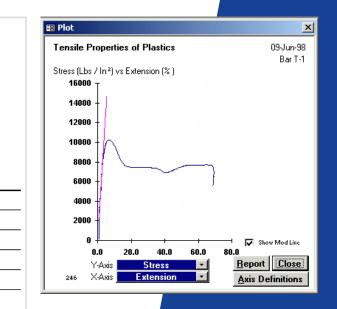
Test	Results						
				P/N	abc123		
	Templa	ate No 36	Tensile P	roperties o	f Plastics		
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			270	242	B-2	United Calibration Corp	
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			248	209	Bar T-3	XYZ Corp	1
	Delete	e Record	249	209	Bar T-4	XYZ Corp	1
			250	209	Bar T-5	XYZ Corp	
			251	209	Bar T-6	XYZ Corp	1
			252 1 253	209 209	Bar T-7 Bar T-8	XYZ Corp	1
	G	raph	253	209	Test 1	XYZ Corp Bohm & Haas	
		•	243	200	TestT	TIONIN & LIGGS	13
			Stress	vs Exter	ision <u>-</u>		
	Yield	Yield	Tensile	Tensile	Total Elong	Tan Mod	-
	Lbs	(Lbs / In <sup>2</sup> )	(Lbs)	(Lbs / In ²)		(Ksi)	
	131.4	9,230	150.8	10,590	126.0	235	

### GENERATE FULLY CUSTOMIZABLE **PLOTS & REPORTS**

	nit	-1	i 🗌					
							J	un 1, 2001
Tens	ile Propert	ties	of Plast	tics			Я	eport No. 209
	Test D	ate	09-Jun-98	Testing Machine	S ST M-500			
	Customer Name Operator			÷		Des	cription Acry	vlic Bars
						P/N abc123		
	Jaw Separat Lab Temperat					Lab Rei H	Lumidity 30	
Test No	Spec ID		Yield Lbs	Yield (Lbs / In *)	Tensile (Lbs)	Tensile (Lbs/h *)	Total Bong (%)	Tan Mod (Ksi)
246	Bar T-1	ok	133.8	10,137	134.9	10,219	68.8	269
247	Bar T-2	ok	132.8	9,324	157.4	11,057	131.6	189
248	Bar T-3	Et	131,9 ension artifac	9,267 tatabout90%	159.2	11,181	129.0	244
249	Bar T-4	ok	132.5	9,309	157.7	11,074	132.4	161
251	Bar T-6	ok	130.3	9,152	132.2	9,288	106.4	241
252	Bar T-7	ok	132.6	9,312	133.4	9,367	101.9	261
253	Bar T-8	ok	134.2	9,424	144.9	10,179	115.5	220
	Mean Median		132.6 132.6	9,418 9.312	145.7 144.9	10,338 10,219	1 12 2 1 15 5	226 241
	Std Dev		13	327	12.3	801	22.8	39
1	Vizoimum		134.2	10,137	159.2	11,181	132.4	269
	Minimum		130.3	9,152	132.2	9,288	68.8	161
	Range		3,9	985	27.0	1,893	63.6	108
Spe-	cification (min) (max)			10,000		10,000		250

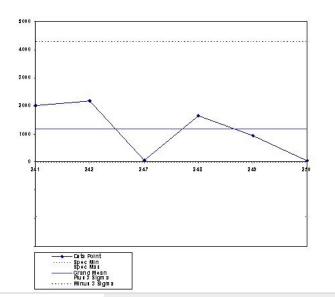


Test results are posted automatically in the Microsoft Access database for subsequent analysis



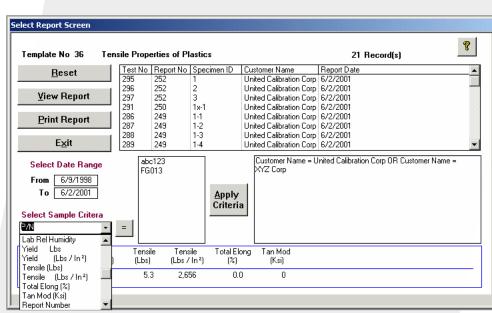
## United

United Testing Systems Control Chart for P/N FG013 Tensile Properties of Plastics - Tensile  $(Lbs / ln^2)$ 6/1/2001 to 6/2/2001



Valuable features such as system security, charting and a flexible report generator are built into DATUM. They are included at NO extra cost.

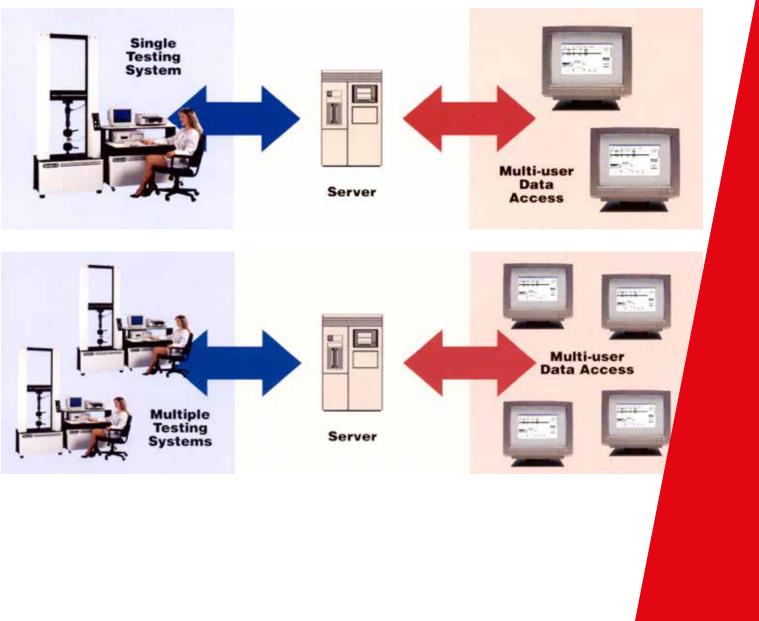


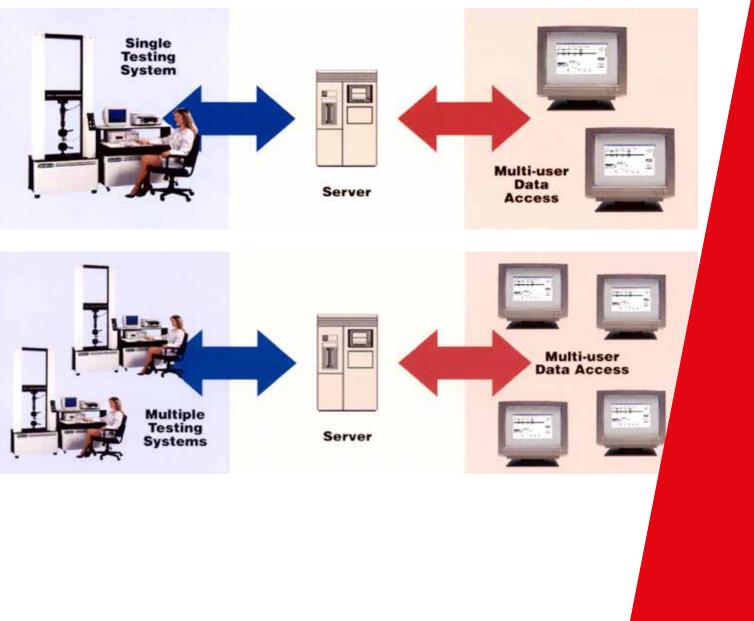


#### **System Requirements**

United DATUM requires a PC-compatible computer running Microsoft Windows 7/10, 4GB memory, 500GB HD, Intel i5 processor Microsoft Access 2013/2016.







### **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 all possible.

### **FREE Factory Training**

When you purchase a United "SMART" material testing system, you are eligible for two days of FREE training at our factory in Fullerton, California, prior to system delivery. At the end of the training period, you will be familiar with the hardware and software, that make up your system and be comfortable conducting tests in your own laboratory. A certificate of completion is provided at the end of training.







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