

Test

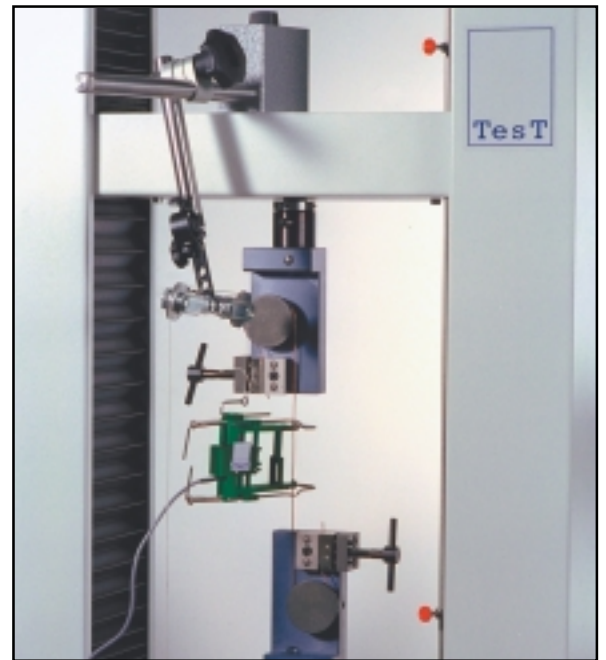


**Test** Universal testing machines  
Systematic component and materials testing



The need for component and material testing derives from the demand for effective fault identification. This is based on the realization that serious subsequent damage and costly manufacturing downtime can be avoided only with timely detection.

During research and development for new products precise and reproducible materials properties are documented using leading-edge technology. Here, again, avoiding safety risks and mis-investments is in the foreground



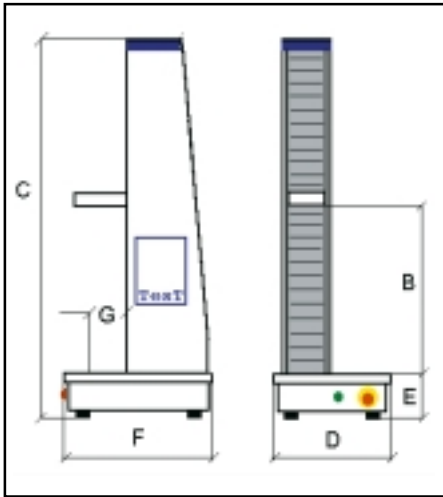
Model 114.H universal testing machine

When selecting your **Test** universal testing machine you can make use of complete and expert user consulting services.

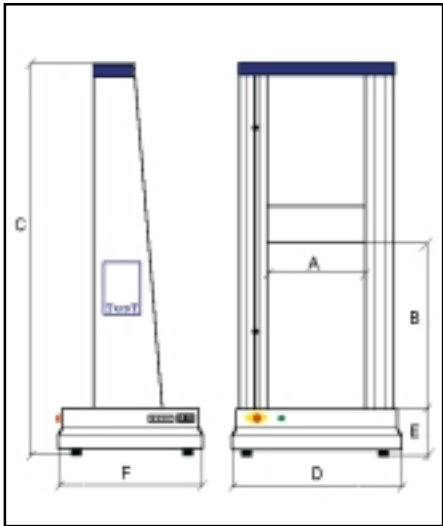
Model	Fmax (kN)	v (mm/min)	Force	Elongation	Path	Regulation	Connection (V, VA)	Mass (kg)
106.2kN	2	0-500	<b>Test</b> load cells Class 0.5 DIN ISO EN 10002/2	Separate extenso- meters	Incremental	Analog digital superimposed	230, 30	55
108.2kN	2	0-500					230, 60	70
108.5kN	5	0-500					230, 60	70
110.500N	0,5	0-500					230, 30	105
112.10kN	10	0-500					230, 60	140
112.20kN	20	0-500					230, 140	155
112.30kN	30	0-500					230, 210	180
112.50kN	50	0-500					230, 400	180
113.50kN	50	0-200					230, 500	750
113.100kN	100	0-200					230, 600	750
114.200kN	200	0-200					230, 600	1100
114.250kN	250	0-100					230, 800	1100
114.300kN	300	0-100					230, 800	1100
114.400kN	400	0-100					230, 1000	1270
115.500kN	500	0-100					230, 1000	1270
115.600kN	600	0-100					230, 1200	1720
Special models					On request			

Technical data as of May 2000; subject to change without prior notice.

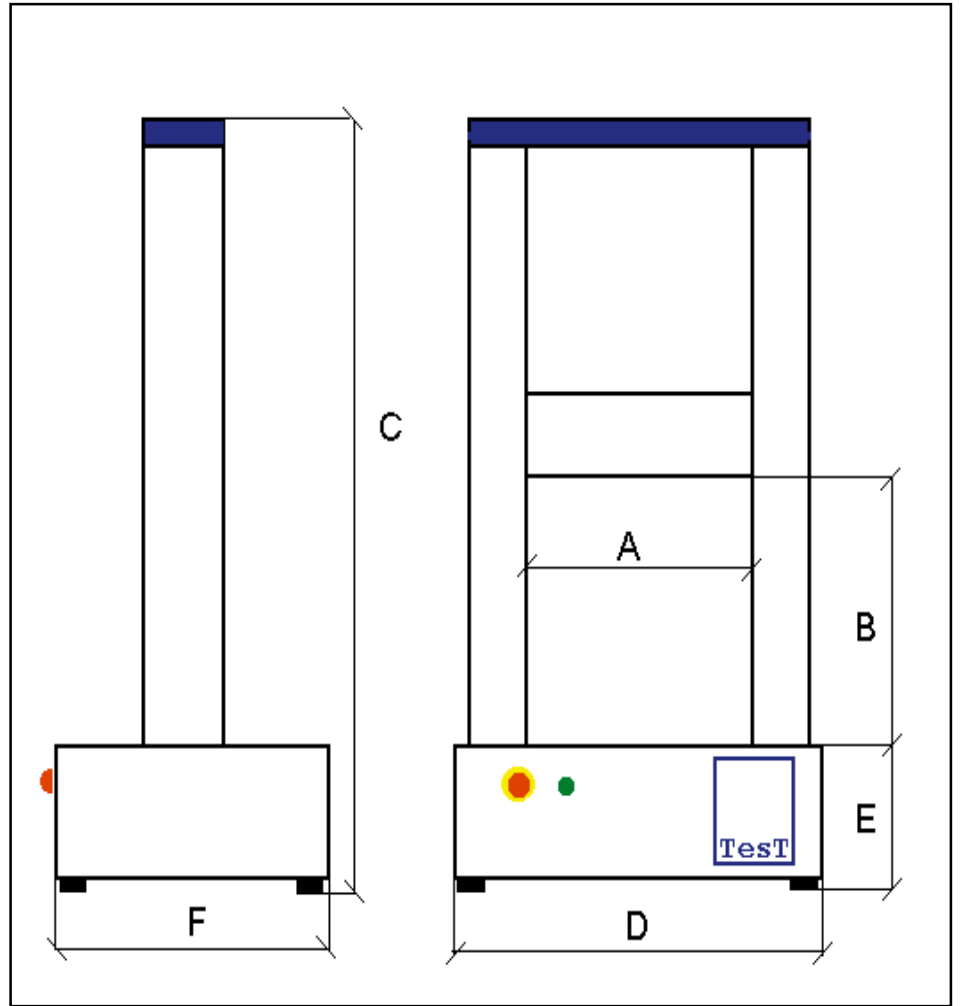
**Test** Universal testing machines  
Systematic component and materials testing



Dimensions of the single-column testing machine, Model 106



Dimensions of the double-column testing machines, Model 108-112



Dimensions of the double-column testing machines, Model 113-115

Model	Working range (mm)			Outside dimensions (mm)			
	Width A	Height B	Depth G	Width D	Height C	Depth F	Housing E
106.2kN	Not applicable	700	100	270	980	440	100
108.2kN	300	1000	Not applicable	550	1300	530	
108.5kN	300	500		550	720		
110.500N		1000		650	1300		120
112.10kN	400	1000		Not applicable	650	1350	150
112.20kN			2500			450	
112.30kN			1050			700	500
112.50kN	2800						
113.50kN	600	1700	Not applicable	1050	3000	700	
113.100kN					700		
114.200kN						500	
114.250kN							
114.300kN	600	1700	Not applicable	1050	3000	700	
114.400kN							
115.500kN	600	1700	Not applicable	1050	3000	700	
115.600kN							
Special models	On request						

Dimension as of May 2000; subject to change without prior notice.

**Test** Universal testing machines  
Systematic component and materials testing



Model 106.I universal testing machine



Model 810 control and display electronics

**Test 810** – The conception for the model 810 control and display electronics combines precise machine control with high-frequency measurement value registration. The motion of the crossbeam is measured about 1000 times a second and compared with the specified set-point values for force or path control; adjustments are made instantly. Further adaptation to suit your particular testing sequences is supported with a user-definable regulation factor.

When carrying out recurring tasks you can call up stored test parameters in a menu-driven routine. This gives the basis for registering tensile and compressive forces or flexure. Limit values can be entered to protect your test equipment against overloading.

The measurement results can be processed

- manually  
(handwritten)
- by way of data transfer to other programmes  
(**SoftTest 901**) or
- online when running under Windows® (**SoftTest910**)

Technical data:

- Dimensions (mm)  
300 x 270 x 105/30  
(W x D x Height at rear/front)
- Mass:  
1.25 kg
- Power supply:  
230 V, 50Hz
- Interface:  
RS 232

## Test Universal testing machines

### Systematic component and materials testing

**Test 820** – With the assistance of the PC board you can utilize all the advantages of computer-assisted measured value registration. On the basis of about 1000 regulation cycles more than 10,000 data records are generated each second. The open, flexible system offers in addition user-programmable channels for processing signals from other measurement devices and for integration into automated configurations.

The operation of the test device and the depiction of the measurement curves are handled online, using the monitor. Test routines are programmed and the results are reliably evaluated and administered using the corresponding **Test-Winner® 920** software.

Once the test parameters have been entered, the bi-directional PC board drives the machine controls and autonomously processes the measurement data captured through to the end of the program. The FiFo (first in – first out) buffer ensures dependable transmission of the measured data to the application.



Model 112.H universal testing machine

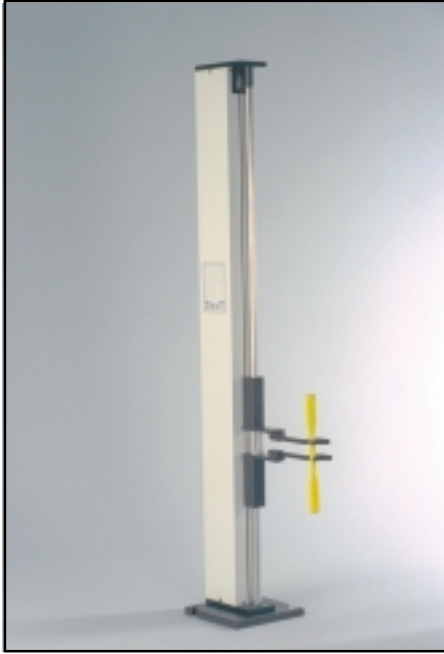
Minimum system requirements:

- 32-Bit operating system:  
Windows® NT 4.0 / 2000  
Windows® 95 / 98
- IBM compatibility
- 500 MHz, Pentium III  
processor or equivalent,  
ultimately dependent on the  
application
- 64 MB ROM
- 2 GB hard disk drive
- 256Kb cache
- 1 full-length slot

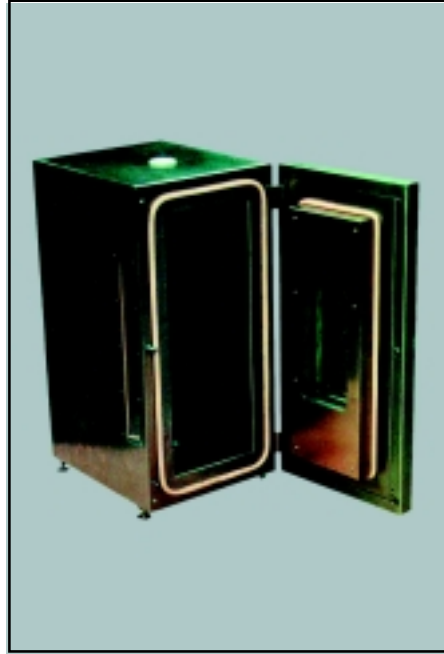


Type 820 PC board

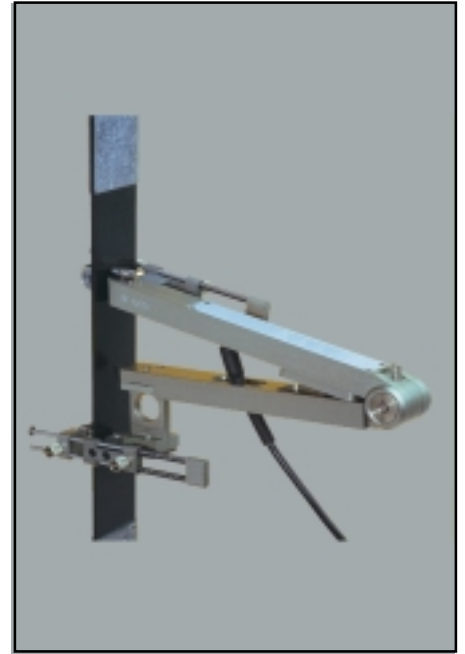
**Test** Universal testing machines - Accessories  
Systematic component and materials testing



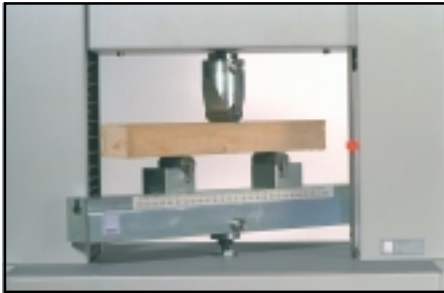
Longitudinal extensometer, DA 164



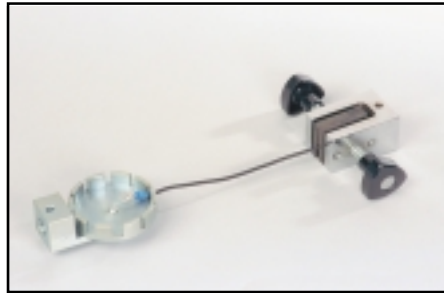
Climate control chamber



Clamp-mounted extensometer, MF



3-point flexure jig, SP 173



Crimped cable terminator mounting device, SP 189



Clamp-mounted extensometer, EP



Eccentric chuck, SP 174



Screw clamps, SP 175



Film tensioning chucks, SP 176



Scissors mounts, SP 179



Wedge chuck heads, SP 180



Wire / fiber clamp, SP 183

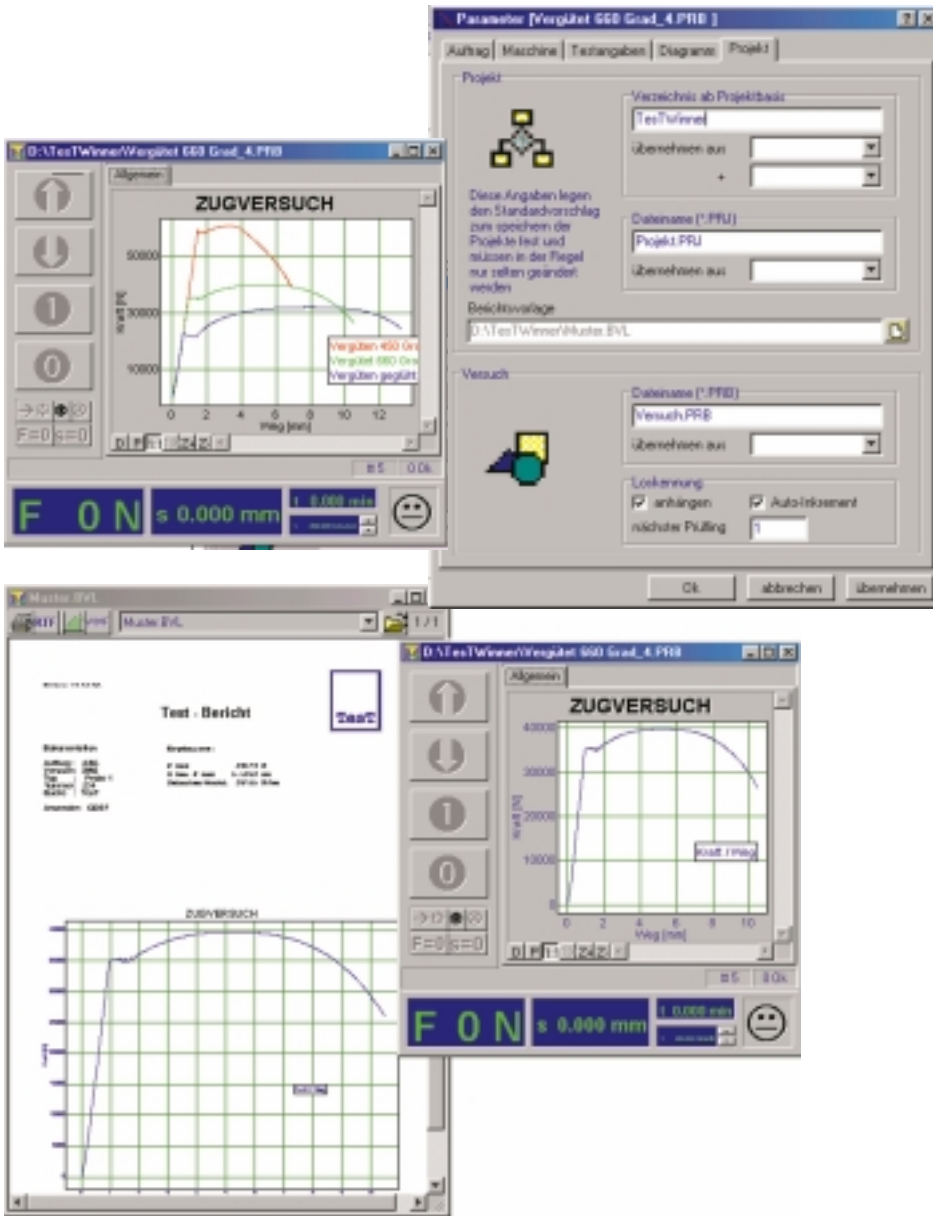


Belt tensioning chuck, SP 184



Pull-off device, SP 187

**Test** Universal testing machines  
Systematic component and materials testing

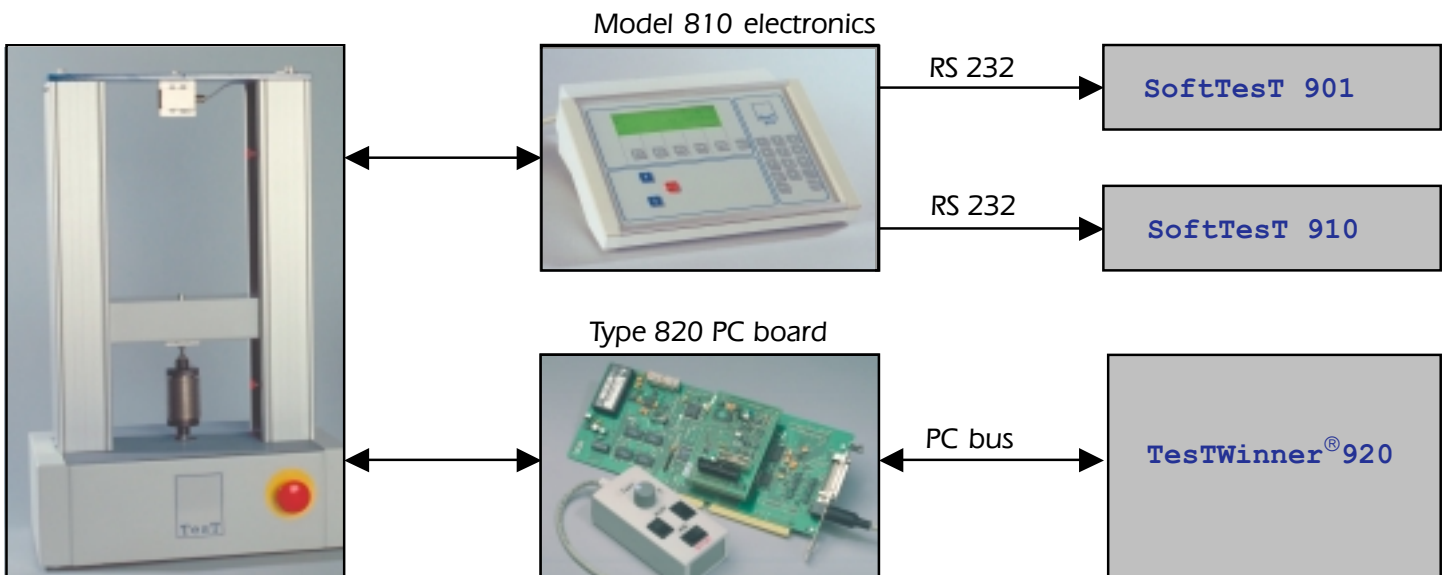


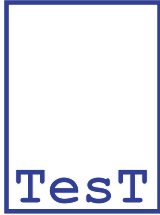
**TestWinner® 920**

**Test®-Software** - Based on our customers' needs and requests, three standard applications have been developed to date for measurement, data capture and processing:

In conjunction with the Model 810 electronics, **SoftTest 901** forwards its measured values to other programs for processing. **SoftTest 910** handles online depiction, evaluation and administration of the values measured during testing.

**TestWinner® 920** offers user programming of test sequences. Operating in conjunction with the Type 820 PC board it provides online depiction of the machine control sequence and handles measured value acquisition. The program locates and calculates data as per your specifications. Here you can conveniently combine a wide diversity of routines, depiction modes and data assessments.





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