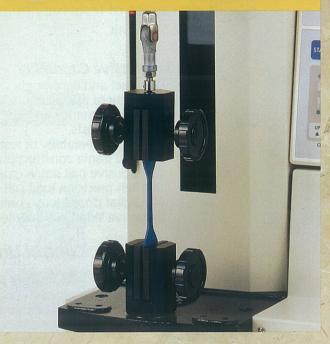
Single Column Type Material Testing Instruments

STA Series









...Clearly a Better Value



Material Testing Instruments

Type STA Series is an advanced

Tests Include

STA series is an advanced multi-purpose tester with the ability to test a wide range of products, materials and operating conditions. More than fifteen different types of tests may be performed with the STA unit.

- · Tensile tests
- ·Compression tests
- ·Bending tests
- ·Cycle tests
- ·Cycle tests with momentary stop
- Shearing tests
- · Peeling tests
- · Tearing tests
- · Adhesion tests
- Sticking tests
- ·Pull-out tests
- · Burst tests
- · Hysteresis tests
- ·Stress-relaxation tests
- · Creep tests

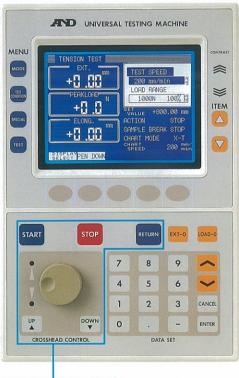


- ·Compact and lightweight, with a single-column loading frame that allows considerable flexibility of placement.
- ·High performance and improved operation at a lower puchase price and lower operating costs.
- · Assured repeatablity of tests results:
- (1) Solid frame construction
- (2) Exclusive ball screw crosshead control
- (3) High precision load cell
- (4) Digital closed loop control
- •Extensive Windows oriented data logging and recording capability (Option).

Control Unit-

LCD Display panel

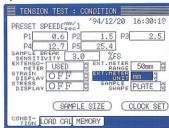
- ·Large LCD Display with back-light.
- ·Drop down menu allows quick and easy access to operational settings and instructions.



Menu



Special



Test Parameters



Calibration

	+0.00 SION LOAD		DAD	+0.00	N
	RATED CAP			N	
CALIB	RATION MO	DE M	ANUAL	10	
CALIB	RATION	EXE	CUTE)	
LOAD I		50 N	10	%_]∜ N	
			LOA	D-0 RESI	ET
CUNDI	LOAD CA	MEMOR'	Y CA	RIFI- TION	Water.

Crosshead Control

Large manual crosshead positioning knob and touch switches allow the operator to easily set the crosshead travel.

START Switch

Serial operation of the test start is carried out automatically.

RETURN Switch

Rapidly returns the crosshead to its original pre-set position. It includes an automatic slow-down function to provide precise positioning.

OUP △, **DOWN ▼** Switches

Allows adjustment of the crosshead fine positioning.

Manual Adjustment Knob

Allows fine positioning of the crosshead after use of UP ▲, DOWN ▼ switches.

Extends Strength Testing Applications (Option)

The STA Series is designed to accomodate various kinds of testing devices.

Jaw for rubber



Compression testing jig



Jaw for paper



90° peeling for printed circuit board



Air jaw

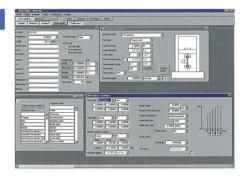


*It is important that the user advise A&D of his exact requirements to ensure proper operation.

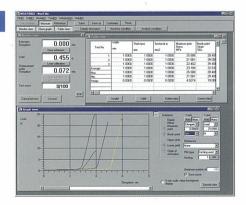
Meta Test-Pro Material Testing Software

Meta Test-Pro provides users specific Test Modules with visual conditions settings. These modules allow you to process the data taken by any material testing instruments to meet their testing machine and analysis needs. Test results can be stored in the data base, provided as part of Data Base Plus, regardless of the type of test. This makes it easier to search for the results based on the parameters provided for each material tested. When using the optional I/O box, you can process data taken by other manufacturers' testing instruments.

Set Test Parameters



Test Progress Display



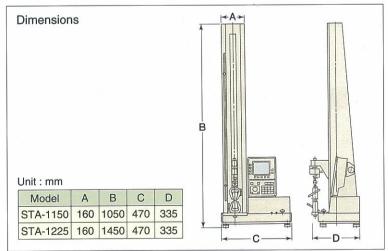
STA Series

Material Testing Instruments

Specifications

Model	STA-1225	STA-1150	
Loading System	Closed loop micro-computer controlled digital servo		
Max.Loading Capacity	2.5kN (250kgf)	500N (50kgf)	
Effective Stroke *1 (mm)	850	550	
Crosshead Speed *2 (mm/min.)	0.5~1000 (14 speeds)	0.5~500 (13 speeds)	
Crosshead Random Speed	Set with 0.1mm pitch. Up to 6 settings can be stored.		
Crosshead Speed Accuracy *3	±0.1%		
Return Speed (mm/min.)	1000, 500	500, 100	
Crosshead Manual Operation	Position the crosshead first using UP▲, DOWN▼ switches and use manual button to adjust fine position.		
Moving Crosshead Position Display (mm)	5 digital display (resolution : 0.01)		
Elongation Display used with Extenso-meter	5 digital display (Possible to display Extension), Unit: mm, %GL, %FS		
Load Display	5 digital display (with floating decin Unit: gf, kgf, N, gf/mm², kgf/mm², N	nal point and peak-hold functions), N/mm²	
Measurement Accuracy *4	$\pm 1\%$ of indicated value or 0.2% of full scale whichever is greater.		
Load Range	1, 2, 4, 10, 20, 40, 100% (7 steps) provided with auto-ranging function		
Load Calibration	1) Auto-zeroing, 2) Auto-spanning, 3) load cell discrimination		
Over Load Safety Function	Provided		
Sample Break Detection	Provided		
Stroke Safety Device	Upper/Lower limitters		
Cycle Test	·Upper/Lower limit points: select from either the crosshead position or le ·Possible to set momentary stop time at each upper/lower limit.		
Standard Load Cell and Jaws			
Load Cells (SI unit)	US-2.5KN	US-500N	
Universal Joints	J-UF-2.5KN	J-UF1-1KN	
Jaws	J-JCM-2.5KN: Wedge action	J-JFM1-1KN:Screw action	
General			
Dimensions (W \times H \times D mm)	470 × 1450 × 335	$470 \times 1050 \times 335$	
Weight (kg)	55	44	
Power Source	AC100V 1P 50/60Hz with 2P plug		
Consumption Voltage	350VA	150VA	
Environmental Conditions	Temperature : 5~40°C, Humidity :	20~80%RH	

^{*1):} Installed with standard load cell and jaw. *2): Speed system is 1, 2, 3, and 5. *3): Zero or constant load. *4): This accuracy is at load ranges 100%~10%.



All specifications are subject to change without notice.

