Automatic Universal Testing Equipment

Ye Chance Design & manufacture materials Testing Equipment.

- An instrument automatically operated by computer programs.
- Meet the ASTM and CNS testing standards.
- Operation procedures simplified by the adoption of group testing.
- Appropriate for testing the stretch, compression and blending of materials.
- A variety of models from 20 to 200 tons.
- *Complete capability to process test report.*
- Data figures can be saved in diskette for permanent archives.



Specifications:

Operation: the computer does all the works automatically provided that the master power switch should be turned on/off manually.

Display: Computer monitors.

Testing methods: Groups testing method with a maximum of 15 specimens (rods) for each group.

Range control: The range of stress and strain diagram is adjusted automatically by the program, which switch the steps in accordance with the actual force imposed on the specimens (rods), No range button is needed to be chosen manually.

Overload shutdown: The top threshold of load is 97%.

Load segments: There are 11 electronic segments for the instrument load switched automatically by the program, including 0 to 5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100%.

Linear Variable Differential Transformers:

Compression Test LVDT: 0 - 50 mm (Standard device).

Extensioneter LVDT: 0 - 15 mm (Optional device).

Calibration accuracy: Within the range of +/-1%.

Minimum reading:

Load value: 1.0 kgf/div. S Stress value: 1.0 kgf/sq.cm/div (for Compression test). Strain value: 0.01 %.

Stress value: 0.1 kgf/sq.mm/div (for strain test). Deformation:0.01 mm/div.

Resolution: 0.003 mm/div.

Resolution: 0.001 mm/div.

Gross weight of mechanism: Automatic deduction.

Full automation: The interactive software performs the operating procedures automatically. For example, all the tasks involved in the oil motor, such as start or stop, pressurization or pressure-relief, pressure velocity, start/end point of test, are detected and recognized automatically by the computer program.

Velocity control:

Stroke control: (look for specifications of different instrument types)

Stress control: 0 – The maximum load is finished in 1 second (for steel materials), and may be set to kgf/cm^2/sec or ?kgf/mm^2/sec when testing.

Velocity display: Stress pressurizing velocity (kgf/sq.cm/sec, kgf/sq.mm/sec) and strain pressurizing velocity (mm/min). Hydraulic control: To lower the noise in the control compartment, the hydraulic has been under the control of computer

program. During test, the computer program will start or stop the hydraulic automatically to keep quiet. Control parameters: The control parameter files can be created as many as possible in accordance with the various tests standards (CNS, ASTM, etc.). before test, you may select on of the files for the computer program to performing test in accordance with the contents of parameters.

Test loops: When specimens (rods) have been placed on the test bench, the operator needs only to press the control button on screen, the computer program will automatically perform the testing procedures in accordance with the control parameters specified by the operator.

Test report: The formal testing report cued is printed each time when a batch of specimens (rods) has completed test. Stress and strain diagram: The dimensional fitting program for lines or curves self-determined is provided, that can accurately fit the tested values of various stress paths to make up continuous lines or curves.

Data access: The specified disk drives.

Test report: Access to a complete report (measured in group).

Stress and strain diagram: Access to Single specimen (rod).

Pressure power: Hydraulic system.

Pressurizing method: Stroke control and pressure loop automatically handled by computer program. Pressure relief method: Speedy-positioning loop of pressure relief automatically handled by computer program. Cooling system: Air-cooling liquid pressure heat sink with automatically electronic control.

Control range of computer program: Start and stop of the oil motor, start and stop of the cable rack motive motor, pressurization and pressure relief of the liquid pressure system, positioning and monitoring of the travel of piston, control and adjustment of pressure velocity, automatic switch system of high and low load detector, automatic step switch for the range of stress and strain diagram and display value, and automatic return to zero for the systems in the instrument.

Safety devices:

For program control: Automatically stop when overloaded (tested values reserved); Error operation directives are corrected automatically; automatically scan the piston to determine whether it is in the safety strokes; Automatically return the mechanism and probe system to zero before each test is performed.

For safety circuit: The fuses have been installed on separate power output systems; the piston moves with the stroke limit circuit installed.

Electric power: 220 VAC, 50/60 Hz., 3 Phases.

The specifications of different instrument types:

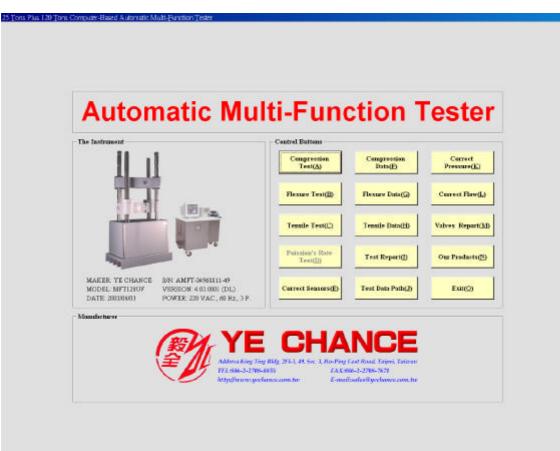
M	odel	UTM20AS	UTM30AS	UTM50AS	UTM120AS	UTM200AS				
Ma	aximum Load (kg)	20,000	30,000	50,000	120,000	200,000				
Pre	essure Transducer (kg)	20,000	30,000	50,000	120,000	200,000				
Re	solution of Pressure (kg/div)	1.22	1.83	3.05	7.30	12.2				
Mi	nimum Reading (kg)	1.0	1.0	1.0	1.0	1.0				
L۷	/DT (mm)	0 – 250 mm, 0.015 mm/div (For trisection bending resistance)								
	libration Accuracy (%)	Within the range of +/- 1.0								
Co	omputer System	Celeron 2.2GHz, 256MB DDRRAM, 15" CRT color monitor, 40GB HDD, 52X CD-ROM								
System Software		Interactive software package specific to the universal testing machine.								
	Operation Method	Full automatic operation with computer program. (Except that the master power switch should be turned on/off manually, all the procedures are handled by the computer, in addition, the stress or strain control can also be selected)								
Inf	ormation Display	Color monitor.								
Stretch Comp	Maximum Spacing mm	800	800	900	950	1000				
	Tie bar Diameter mm	57	57	76	90	125				
	Circle Clamp mm	6-30	8-40	10-55	10-70	10-70				
	Parallel Clamp Wait mm	60, 0-20	60, 0-30	70, 0-30	80, 0-60	90, 0-80				
	Maximum Spacing mm	800	800	900	950	1000				
	Compression Plate dia mm	100	100	160	160	200				
Bending	Maximum Spacing mm	600	600	600	700	900				
ing	Height of Test Bench mm	130	130	150	190	230				
Travel of Piston mm		250	250	250	250	250				
Distance between Tie bars mm		500	500	600	630	780				
Move Speed of Cable Rack mm/min		200	200	200	200	200				
Pressurizing Velocity mm/min		0 - 150	0 - 150	0 - 150	0 - 72	0 - 54				
Pressure Relief Velocity mm/min		Over 80	Over 80	Over 80	Over 80	Over 80				
	Oil Motor HP	1.0	1.0	2.0	2.0	3.0				
	Lifting Motor HP	0.5	1.0	1.0	1.0	1.0				
	Power Supply	220VAC., 60HZ. 3PHASE								
D	imensions (about: W x D x H) cm	138 x 58 x 185	144 x 58 x 205	152 x 68 x 210	170 x 80 x 250	176 x 120 x 300				
	Weight (about: kgs)	1900	2000	2250	3500	5300				
No	otes: No notification will be given v	while the specification	ns changed.							



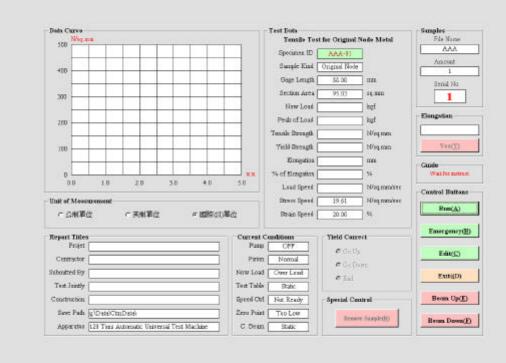


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Specimens	ecineus Information							Stress Spoed	Amount of Sample	
ID	Dianete	r Height mni	Width mm	Area sq.rom	Oage L mm	Code ¥	Code D	Kind Code	2.00 kgDsq.mm/sec	<u> </u>
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Test-02 Test-03		0.0	0.0] 0.001] 0.001	0.0 0.0	#0 #0	D0 D0		20	Tea
]]]]					Type of Display ← Show Old Fold Ø Build New File	Moterial
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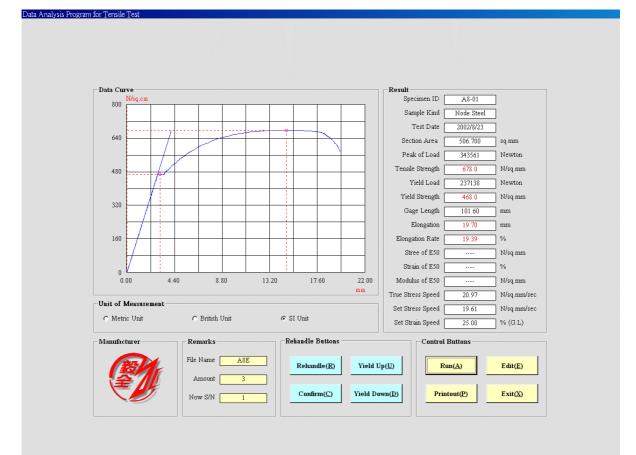


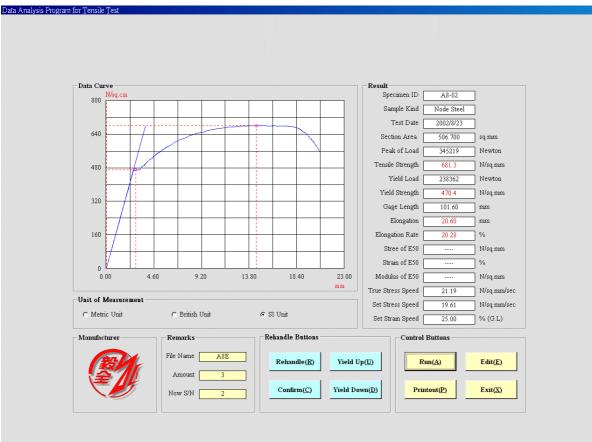
建立動操作業

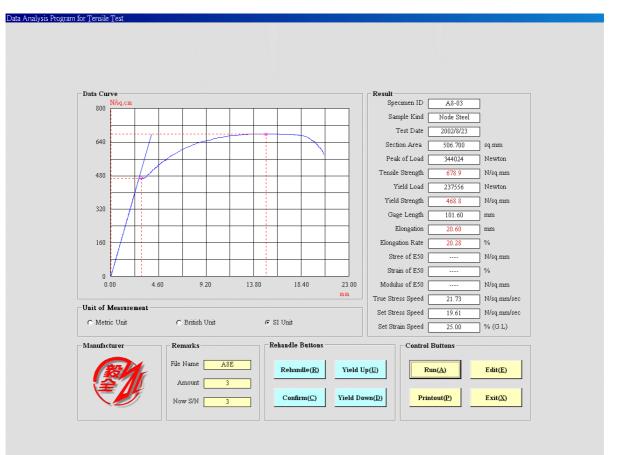
Tensile Testing program for 120 Tons Automatic Universal Test Machine

Files Information		File will be madyze	Method of Sampling
		Report No. ASE	# Lot Specimens
		Annat 1	" Bingle Specimen
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		A8-E5 WISA	
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Construction		6	Cantral Batterrs
Manafacturer			Cantral Dations
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