GLOBAL
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The Surest Way to Meet Product Performance Standard

GIE

Global Import - Export Inc. 16255 VENTURA BLVD,
504 ENCINO, CA 91436 USA.

COMPUTER TYPE
UNIVERSAL TESTING MACHINE
GIE-Series

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Accuracy certifications :
The accuracy and precision attained by Global testing machines conforms to the requirements of international standards.
ASTM E4, BS1610, DIN5122, EN10002-2, ISO 7500/1

Computer Servo Control Material Testing Machine
Console Control System

High precision, high accuracy, high stability material testing machine ISO9001 certified, superior products fabricated by highly trained and experienced personnel

Over-travel, over-load safety protection
Built-in over-travel limitation setup and overload safety protection functions.

High precision load cell
Features a low-profile load cell, with stable load induction, high accuracy, high stability, and a safety factor of 120%

Standardized, modular & interchangeable design
Can be used with a range of testing grips suitable for tensile, compression, bending, peeling tests, and more. Switch grips easily for different testing samples.

Safety protector
Designed with human engineering and safety in mind, the emergency stop button is located in the easiest access area possible.

Intelligent Control and Display Unit
Superior function, available to control and display data. Resolution 1/100,000 Available to extend the connection up to four sets of load cell, or LVDT Conversation type setting and accurate fine tuning speed control. Single line transmission online with computer system

Comfortable operating space
Plenty of leg room at the bottom of the console, comfortable and convenient when operating from a sitting position

Beautiful modeling & high strength structure
Rigid, stable structure with four lead columns
With large, attractive external cover
Dual-color painting, state-of-the-art design

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(GENERAL STYLE) DESCRIPTION :

This machine is available for testing the resistance of various finished products such as compression bending, adhesive, tensile strengh, fold-resisting, extension, flaking, shearing, peeling, etc. with microprocessor control.

Functions of yield point, elasticity modulus, young's modulus, Tangent modulus, chord modulus, etc. are also available and real time graph.

It is used in research institutes, school, cast steel/iron industries, metallic industries, geotextile industries, wire and cable industries, rubber, plastic, sporting goods, spring and electronic industries, etc.

Structure and Base : made of cast steel plant and hardened surface treatment and two ball screw column.

CONTROL UNIT :

- Load cell : safe overload rating 120%, Rate output accuracy 2mV/V, sampling rate 400 Hz, A/D for load and displacement 24 bits.
- Control box Fully automatic electronic control device with ISO standard design.
- Automatic endpoints ; the tester stops automati cally while specimen breaks. Emergency shut down button & over load, stoke protection (auto stop) function equipped and return to the specified position automatically.
- Max. capacity auto-protection ; to protect the computer system and prevent load cell from being over the safety capacity, it can be set in different safety capacity.

FUNCTIONS

- Only a single connecting cable between the controller and the computer, safe and convenient
- Control mode through closed-loop fuzzy control, with wide application
- The machine must be able to calibrate the correct calibration parameters, which use the Best Fit CAL function to calibration. And enter the password into the machine for adjust the calibration. The program will have password system.
- Four standard control modes:
  1. Fixed displacement control
  2. Fixed speed control
  3. Fixed load control
  4. Load cycle
  5. Displacement cycle
- A panel key directly controls the UP/DOWN function of the crosshead
- A rotating knob for direct fine tuning control of the UP/DOWN function of crosshead, and can be used to preset test speeds at low/middle/high settings
- A HOME key to return the crosshead back to original position from anywhere
- Displays the actual status of the tester
- Displays the values of load and displacement with the computer simultaneously
- Can be used to perform tensile testing, compression, etc.
- Can be extended up to 4 channels for load cell (optional)
- Load signal amplification 1,2,5,10 through auto range function
- Load unit : kN, g, kgf, lbf, N, mm, m, ft, in, cm
- Stress-strain, Load-Elongation, Load-time, Stress-time, Strain-time, Elongation-time
- Yield point & yield strength, 0.2% offset yield & yield strength, Percent elongation, Break Modulus, Ultimate value, Break value, Deformation 1 (load-elongation), Deformation 2(Elongation-load), X-Y diagrams, X-T diagrams, Compare diagrams, Average value, Standard deviation, Energy, Stress.
- The control Box (DSP) have 3 channels (Analog Output) as Load, Displacement, Extensometer

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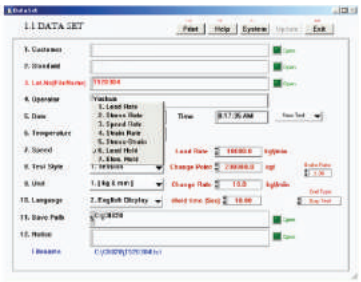
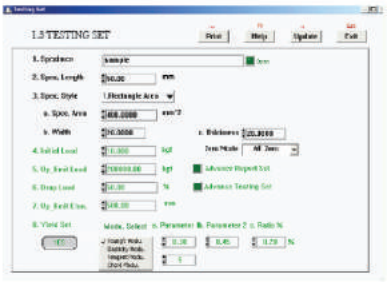
The data processing and control system are all located in one group in a designed console.

The test measurements are monitor displayed in real time graph, as well as connected to a PC (having MS Windows operating system) via Chun Yen's , USB or RS-232





Computer Measuring System

Control & Edit Setting Functions

Intelligently engineered computer control & measuring software. Improve testing efficiency with powerful control functions.

Servo control mode

constant speed load , constant speed stress , constant speed rate, constant speed strain , constant speed stress vs. Strain, constant load control , constant displacement control.

- Available to freely set up cyclic mode
- Define cyclic times
- Conduct the next stage of control mode after the preset cycle is up
- Mode set up for tensile and compression
- Control mode database management, available to repeat editing and setting.
- Control mode can cover most international test standards like ASTM, ISO, DIN, JIS,
- Low frequency testing

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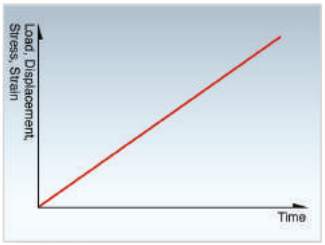
Computer Measuring System
Operation Software Control Mode Functions
A variety of powerful test operation software is available,
meeting major test requirements

STANDARD CONTROL MODES



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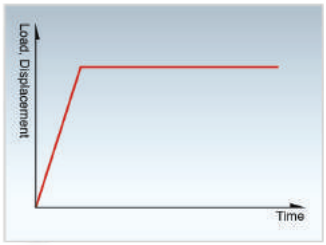

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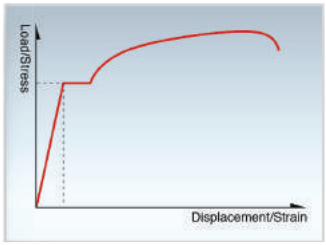

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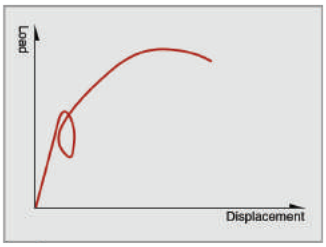
SPECIAL CONTROL MODES :



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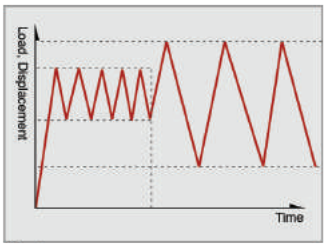

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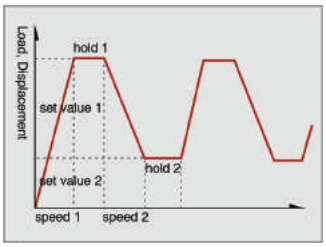

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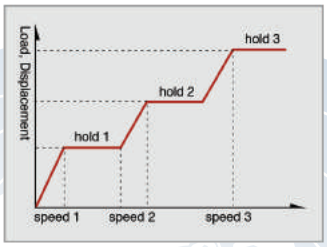
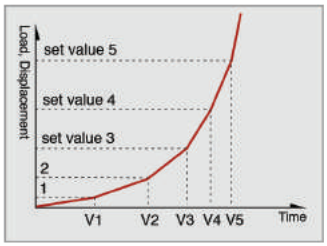


No. 7

cyclic modulus No. 8



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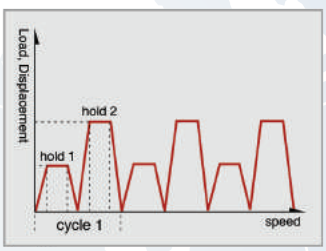

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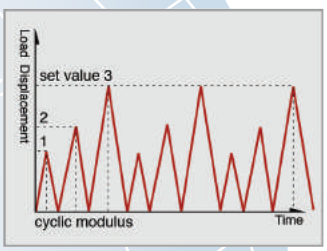

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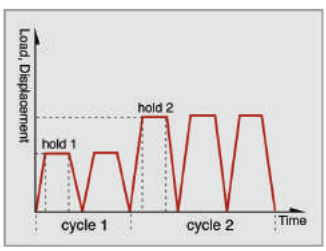

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Specification :

Capacity (kN)	50,100, 200, 300
Resolution	1/100000
Accuracy	0.5%
Rotary Encoder	1,000 CPR. (0.001 mm)
Driving method	Servo motor system
Effective stroke (mm)	1,200 (not include grip)
Effective column interval (mm)	600 (or request)
Testing speed (mm/min)	0 -150 (or request)
Dimention (WxDxH) mm approx.	1,320x700x2,350
Machine weight (kg) approx.	1,400
Control box dimention (LxWxH) mm approx.	800x800x1,800
Control box (kg) approx.	80
Power	380V, 50HZ, 3 phase or 220V, 50HZ, 1 phase
Digital display	LCD monitor display
Standard accessories	(control software by computer display)
Software	- Operated under Windows 10. - Analysis Software - Color Laser Printer - Computer
Options	Tensile Grip (ASTM D4595), Tear Grip (ASTM D4533), CBR Puncture Grip (BS 6906/4), Grap Grip (ASTM D4632), Shearing Grip, Extensometer
Load Cell capacity (kN)	1, 2, 5, 10, 20

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