



东莞中力仪器科技有限公司

ZhongLi Instrument Technology Co., Ltd.

Introduction

**Name: ZL-8006A Computer Servo Type Universal Testing Machine
(5T, 10T, 20T, 30T)**



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Equipment summary:

ZL-8006A Computer Servo Type Universal Testing Machine is a new material testing machine that combined with the electronic technology and mechanical transmission, it has accurate load speed, range of force measurement, Has high accuracy and sensitivity for the load, displacement measurement and control, it also can be tested the constant velocity loading, constant- velocity displacement. This machine is simple to operate, especially suitable for controlling quality in production line, This series of machine is mainly applied to test the non-metallic and metallic materials which the load is less than 10ton.

Main function:

Mainly applied to test the metallic and non-metallic materials in tension, compression, bending, shear, peel, tear or two-points extensions and others., such as rubber, plastic, wire and cable, optical fiber and cable, safe belt, leather belt composite materials, plastic profiles, waterproof membrane, steel, copper, profiles, spring steel, bearing steel, stainless steel (as well as other high-hardness steel), castings, plate, strip, non-ferrous metal wire

Main feature:

Adopted photoelectric encoder to measure the displacement, the controller uses the embedded single-chip microcomputer structure with multi-function software, which combined with measurement, control, calculation and storage. It can automatic calculate the stress, rate of elongation (need to add with extensometers), tensile strength, elastic modulus, automated statistical results; automatically recorded the biggest point, breaking point, the designated point value or the rate of elongation; Using computer to display the dynamic curves in the testing process and process the data, After testing, it can re-analysis and editing the data by amplifying the curves through the graphics processing module, printing reports, product performance reached the international advanced level.

Corresponding standard:

《GB/T16491-1996 electronic universal testing machine》

Applicable industry:

It is widely used in controlling the quality; Rubber & Plastics; metallurgical iron and steel; manufacturing machinery; electronic equipment; automobile production; textile fiber; wire and cable; packaging materials and foodstuffs; instrumentation; medical equipment; civilian nuclear energy; civil aviation; colleges and universities; research Laboratory; inspection arbitration, technical supervision departments; building materials, ceramic; Petroleum & Chemical; other industries.

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Technical parameter:

Model	ZL-8006A
Maximum load	50KN,100KN,200KN,300KN
Accurate grade	1 grade / 0.5 grade
Effective measuring range	0.2%~100% (1 grade) /0.4%~100% (0.5 grade)
Measuring accuracy	Display the value±0.5%
Tester resolution	Max load 1/200000, constant the resolution
Load sensor	Basic configuration: sensor (max load) : one
	Extended configuration: can add more sensors
Effective testing width	400mm(can be widened according to customer's requirement)
Effective tensile stroke	800 (can be increased the height according to customer's requirement)
Range of testing speed	0.001~500mm/min
Accuracy of displacement measurement	Tolerance: ±0.5%
Deformation of measured system (according to the requirements)	Min span :10mm、Max range of deformation: 800mm
	Extended deformation: Min span: 25mm、50mm、100mm, range of deformation : 5mm、10mm、25mm
Accuracy of measured deformation	Tolerance :±0.5% (according to requirement of customer to choose the larger or small deformation)
Safety	Electronic-limit protection
Testing platform moving device	Fast /slow two speeds to control, can jog
Back to function of testing platform	Manual or automatic operation、After the test, the moving iron return to initial position with the highest speed by manual or automatic operation
Overload protection	Overload 10%, automatic protection
Fixture	A set of tensile fixture
Machine size	107*56*210cm(length*width*height)
Motor	Panasonic AC servo motor and drive
Sensor	USA Transcell high accuracy loadcell
Power	220V、50HZ、
Power	0.75KW (depending on different demand of force, using different motor)
Weight	(about) 320 KG
Unit	KG,N,LB, TON can be exchanged.



Software features:

The software description about computer servo type universal testing machine

- A. Function of standard modular: provide users with the necessary applications to the test, covering GB, ASTM, DIN, JIS, BS ... and other testing standard specification.
- B. Tested product information: provide users with the data to set about the products, one time to input and re-use permanently . for improving the accuracy, the data can be corrected by the formula automatically.
- C. Dual-Report Editor: provide users with the reported format that users choose (testing program add EXCEL reported format, Extend the previous single pattern of statements)
- D. The data's unit of length and force can be exchanged, unit of force is T, Kg, N, KN, g, lb, unit of length is mm, cm, inch.
- E. Auto-optimization of graphic scale, display the best measurement of graphics. It can test the moving exchange in graphics. It has the load - displacement, load - time, displacement - time, stress - strain load -2 points extending maps, and lots of graph compared.
- F. Test results can be output in EXCEL format.
- G. Testing result can be automatically preserved or manual preserved, after the test, it can automatically calculate the most strength, up and down yield strength, loop method, best method, non-proportional extended strength, tensile strength, compressive strength, tensile strength at any point, constant load extension, elastic modulus, rate of elongation, peel range of maximum force, minimum force, average force, total energy, bending modulus, x% load in break displacement, load X% in break displacement, and so on . the test data can be stored in any disk.
- H. Software has a capability that can output the before data.

The accessories about computer servo type universal testing machine

- A. warranted book within one-year and operating instructions.
- B. a group of fixture
- C. testing software for tensile machine.
- D. a set of brand computer, color printer

Items can be tested in the computer servo type universal testing machine

Common items: (display data and calculation)

- Tensile stress
- Tensile strength
- Fixed stress
- Stress strength
- The value of force at any point
- Pull-out strength
- Tensile strength
- Rate of elongation at break
- Rate of stress at break
- Tear strength
- Rate of elongation at any point
- Force of adhesion

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The Machine detail picture:



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The CE certificate:

CERTIFICATE	
With EU Directive of Machinery Directive (MD 2006/42/EC) & Low Voltage Directive(LVD 2014/35/EU)	
Certificate No.:	CE-15-1102-05
Holder:	DONGGUAN ZHONGLI INSTRUMENT TECHNOLOGY CO.,LTD. Room 722, Dongyuan Mansion, No.159 QiFeng Road, Dongguang city,P.R.C
Product:	Computer Universal tensile testing machine
Model(s):	ZL-8001 / ZL-8002 /ZL-8003 /ZL-8004 / ZL-8005 / ZL-8006ABCD/ZL-8007/ZL-8008/ZL-8009/ZI-8010
Standards:	EN ISO 12100:2010, EN 60204-1:2006+AC:2010
Based upon the voluntary assessment of the product sample and Technical Construction File, the apparatus is deemed to meet the requirements of the above standards and EC directives.	
The manufacturer has the responsibility for ensuring that all serial manufacture of the products are in compliance with the specification of the sample submitted for assessment and detailed in the technical file.	
CE	
Date: <u>11.02.2015</u>	Certification Body <i>For and on behalf of</i> EUROSCENE BUSINESS SOLUTIONS CO., LTD  Euroscene Business Solution
The CE marking may be used if all relevant and effective EC directives are complied with.	
Euroscene Business Solution Co., Ltd. 7/11 Minerva Road, Park Royal, London, NW10 6HJ	

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