



HENGZHUN

东莞力显仪器科技有限公司

DONG GUAN LIXIAN INSTRUMENT SCIENTIFIC CO.,LTD

Product introduction

Name: HZ-1007E Desktop tensile testing machine



Equipment summary:

HZ-1007E desktop computer servo 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. This series of machine using single-space structure, operational space at the bottom, it is mainly applied to test non-metallic and metallic material ,which the load is less than 1kN, it has the parameters, such as stress, strain, control mode of displacement ,calculated max force, tensile strength, bending strength, compressive strength, elastic modulus, rate of elongation, yield strength and others.

Main function:

This machine can be applied to test lots of materials in tension, compression, tear, peel (can 90 degrees

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and 180 degrees) and other mechanical test, such as rubber, tires, belt, shoes, plastic, film, acrylic, FRP, ABS, EVA, PU, aluminum-plastic pipe, composite materials, waterproof materials, fibers, textiles, wire and cable, paper, gold foil, ribbons, thread, spring, wood, medicine packaging materials, tapes etc.

Main features:

1. Adopt Panasonic servo motor, the beam moves up and down to test the load through the transmission.
2. The whole control system is safe and high reliability.
3. Microcomputer control the whole testing process, real-time dynamic display the load values, displacement values, deformation, testing speed and testing curves.
4. Microcomputer for data processing and analysis, testing results can be saved automatically, testing curves can be transferred out after the test, you can know the testing process through the testing curves, or compare with others curves, or amplify the curves.
5. the testing software of the Window, with strong processed capabilities of data and graphics, it can immediate print out a complete testing report and testing curves.
6. Has limit protection, overload protection, emergency stop and other safe protective functions.

Applicable industry:

It is widely used in wire and cable, hardware, electronic and electrical equipment, packaging, printing, medical equipment, auto parts, textiles and leather, clothing, shoes, rubber and plastic products, colleges and universities; research laboratories; inspection arbitration, technical supervision departments and many other industries, it is the basic equipment for quality management and physical tested..

Technical parameters:

Model	HZ-1007E
Maximum load	50N,100N,200N, 500N, 1KN,2KN(optional)
Accurate grade	1grade / 0.5 grade
Effective measuring range	Force from 0.2% to 100% / from 0.4% to 100%
Measuring accuracy	the value $\pm 1\%$ / the value $\pm 0.5\%$
Tester resolution	Max load: 1/200000, constant the resolution
Load sensor	Basic configuration sensor max load: one
Effective tensile stroke	500mm (can be increased the tensile space according to customers requirement)
Testing speed	From 0.001 to 500mm/min
Accuracy of displacement measurement	Tolerance: $\pm 0.5\%$ / tolerance: $\pm 0.2\%$
Safety	Electronic-limit protection
Testing platform moving device	Fast /slow(two speeds to control),can jog
Return Back	Manual or automatic operation, After the test, the moving iron return to

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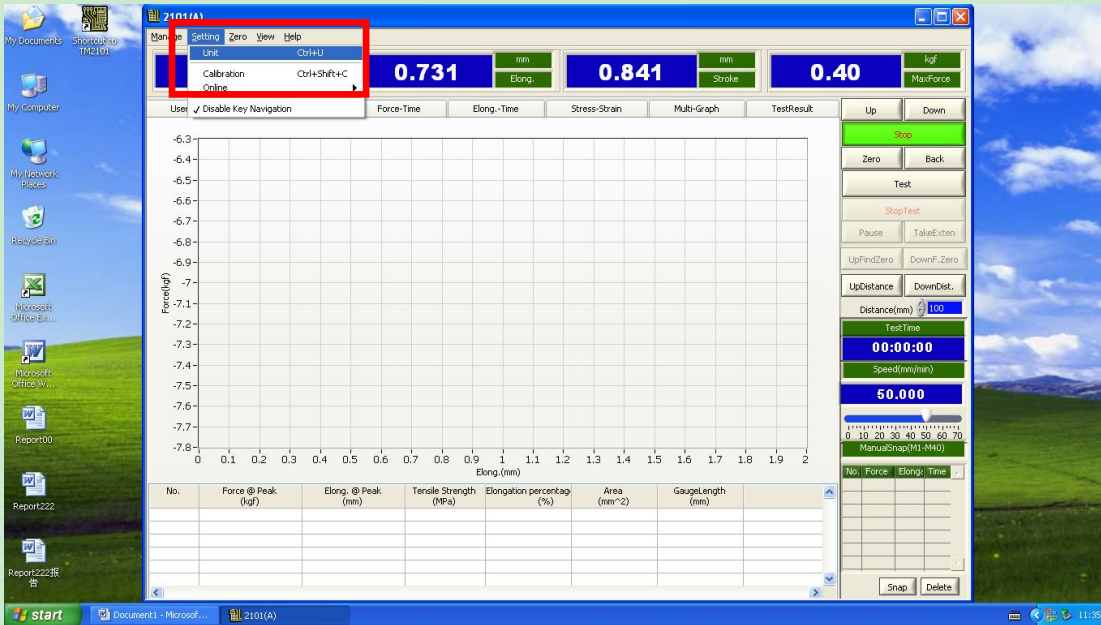
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	initial position with the highest speed by manual or automatic operation
Overload protection	Overload 10%, automatic protection
fixture	A set of tensile clamp
Machine size	45x58x135cm (L*W*H)
Motor	Zhongyuan AC servo motor and drive
Power supply	220V , 50HZ or according to the requirement
Power	0.4KW (depending on different demand of force,using different motor)
weight	About 75KG
Unit	KG,N,LB, TON can be exchanged.

4.Computer servo control material testing machine software operation interface

1.Choose you need units,setting==>unit



2.There are so many unit,just choose you need.

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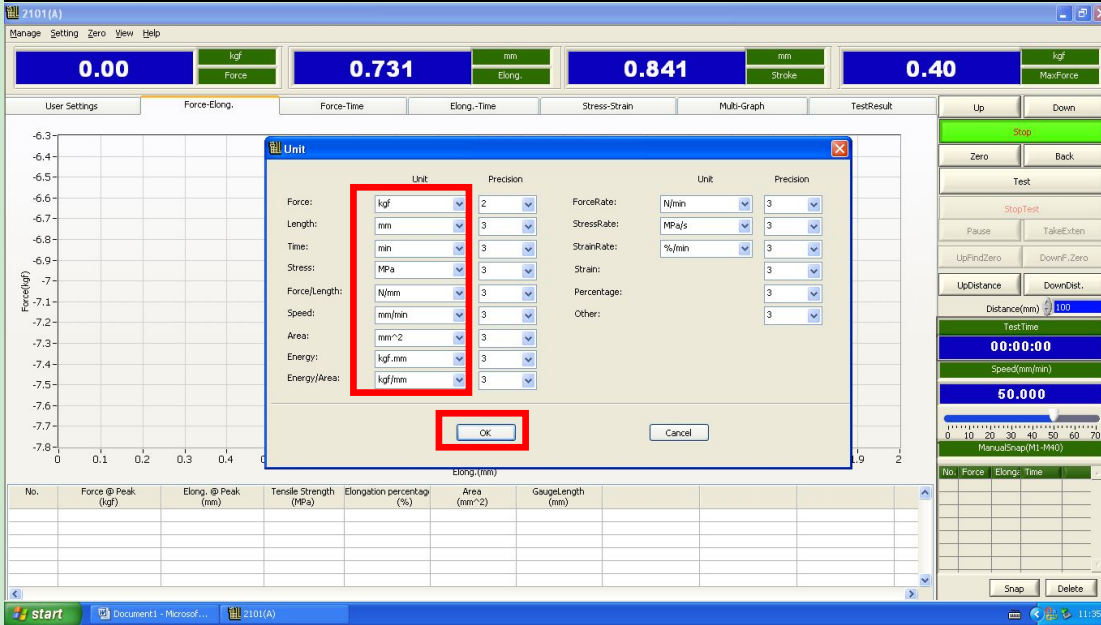
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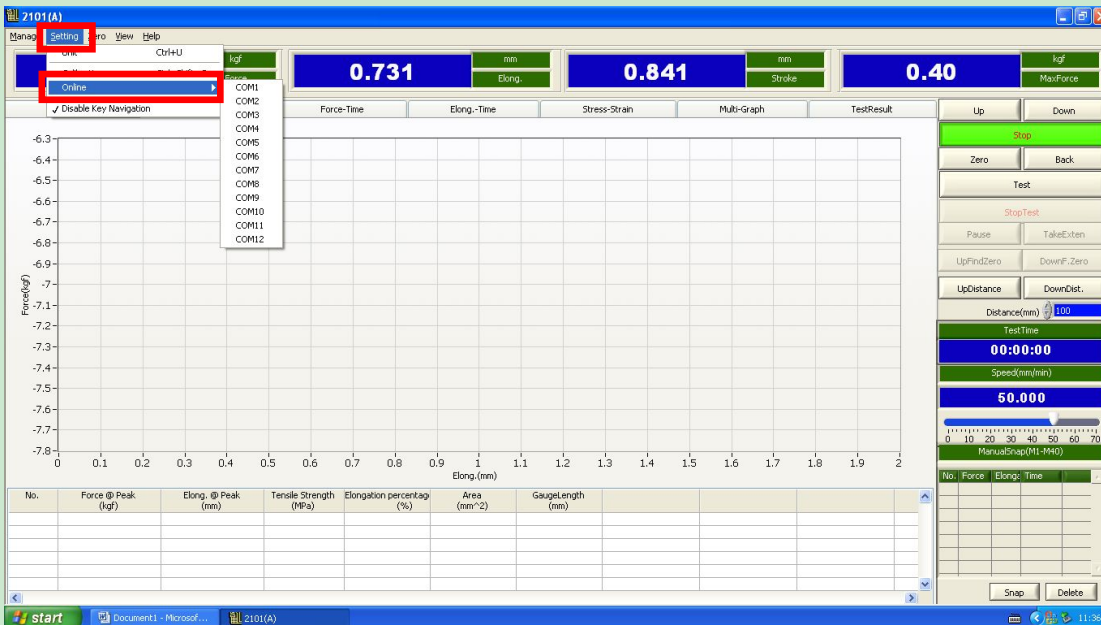
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3. Connect computer and software online. Setting ==> Online ==> COM1 or COM2..., after it show success connected.



5. Test results

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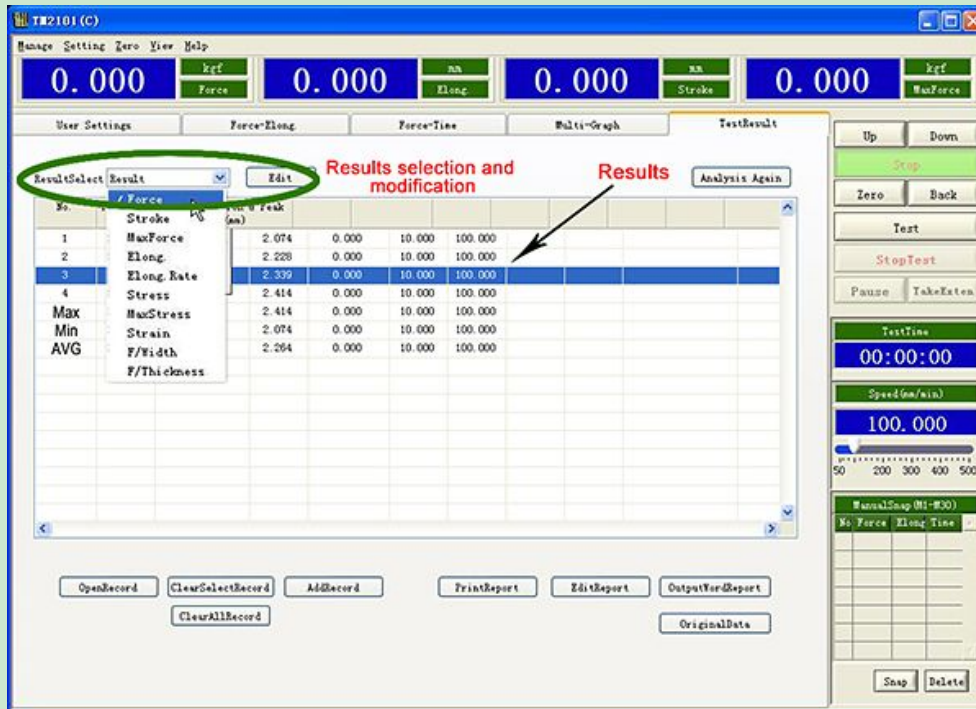
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6. Computer servo control material testing machine test curve



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C Shape Fixture



Large C-clamp



Large C-clamp



Plate Fixture



3 point bending device



Packaged with special fixtures



Rubber Tensile Fixture



Jaw tension clamp



Universal tensile fixture

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Locking Pincer clamp



90 Degree Peel fixture



Eccentric clamp



Extensometer



Metal Extensometer



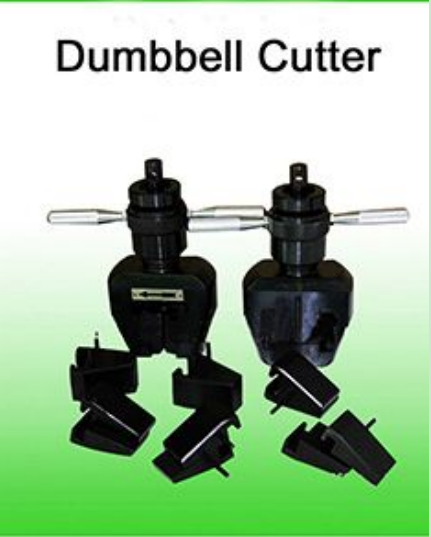
Dumbbell Cutter



Seat belts fixture (braid)



Fixture(E shape)



Tensile fixture (20T,30T)

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Servo motor+Driver

Sensor O type

Sensor S type

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