

Tensile Strength Testing Machine-tensile testing machine



This machine/Tensile Strength Testing Machine is suitable for rubber, tires, hoses, tapes, soles, plastics, films, acrylic, FRP, ABS, EVA, PU, aluminum-plastic pipes, composite materials, waterproof materials, fibers, textiles, wires and cables, paper, gold foil, tapes, silk threads, springs, wood, pharmaceutical packaging materials, tapes, etc. for tensile, compression, tearing, peeling (90 degrees and 180 degrees) and other mechanical properties test and analysis.

This machine /tensile testing machine-

is a combination of electronic technology and mechanical transmission of a new type of material testing machine, load, deformation, displacement measurement and control has high precision and sensitivity, the series of models using a single space structure, test space in the lower space, mainly suitable for test load less than 2kN metal, non-metallic material test, with stress, strain, displacement control mode, can find the maximum force, tensile strength, bending strength, compressive strength, elastic modulus, elongation at break, yield strength and other parameters.



Dongguan Hust Tony Instruments Co.,Ltd

东莞华科东尼仪器有限公司

Addr: No. 1 Tech 9 Road, High-New Tech Development Zone, Songshan Lake, Dongguan City 523808,China

Tel: 86-769-23010657 Fax: 86-769-23010667 Email: addams@tonyhk.hk

Introduction to control software

- 1.Software operating system language:** Chinese Simplified/English
- 2.Force unit:** N, KN, Kgf, Lbf, length unit: mm, cm, in can be freely converted
- 3.Automatic zeroing:** the computer receives the test start command, and the measurement system automatically returns to zero;
- 4.Display mode:** The data and curves are dynamically displayed with the test process
- 5.Result reproduction:** The test results can be accessed arbitrarily, and the data curve can be reanalyzed
- 6.Comparison of results:** Multiple test characteristic curves can be superimposed with different colors, reproduced, enlarged, and presented with the analysis and comparison of a set of samples
- 7.Emergency stop:** equipped with an emergency stop switch for cutting off the power supply of the whole machine in an emergency;

Control mode

Computer software sets speed, sets load fracture (rupture), running time and other control methods

Automatic determination of material fracture, crushing, etc. and automatic shutdown, automatic return can be set

Curve type:

- 1.Load-displacement, load-time, displacement-time.**
- 2. Stress-strain, strain-time, stress-time. The curve aspect and abscissa can be set arbitrarily**

Test data available:

Maximum force, minimum force, fracture value, upper and lower yield strength, tensile strength, compressive strength, elastic modulus, elongation, peel interval maximum, minimum, average, etc. With overload, overcurrent, overvoltage, undervoltage, overspeed, stroke and other multiple protection. The data results are exported from the crystal report format currently used by the national standard.

technical parameter:

- 1.Capacity selection:** 200kg 500kg 1000kg 2000kg sensor, American force transmission high-precision load element
- 2.Accuracy level:** 1.0 level
- 3.Effective force measurement range:** 0.4%~100%
- 4.Force measurement accuracy:** within $\pm 0.5\%$ of the indicated value
- 5.Testing machine resolution:** maximum load $1/\pm 250000$ yards, no internal and external gears, and the whole process resolution remains unchanged
- 6.Basic configuration:** pulling and pressure sensors (maximum load)
- 7.Effective test width:** 380mm



Dongguan Hust Tony Instruments Co.,Ltd

东莞华科东尼仪器有限公司

Addr: No. 1 Tech 9 Road, High-New Tech Development Zone, Songshan Lake, Dongguan City 523808,China

Tel: 86-769-23010657 Fax: 86-769-23010667 Email: addams@tonyhk.hk

- 8.Effective stretching space: 800mm (without fixture)
- 9.Test speed range:0.01 - 500mm / min. or specified per customer.
- 10.Displacement measurement accuracy: within $\pm 0.5\%$ of the indicated value
- 11.Test bench safety device: electronic limit protection
- 12.Test bench return function: manual or automatic options, automatic or manual return to the initial position of the test after the test
- 13.Overload protection: more than 10% of the maximum load, machine automatic protection
- 14.Fixture configuration: one set of tensile fixture
- 15.Main machine size: 700×600×1800mm
- 16.Motor: 220V $\pm 10\%$ 0.37KW Funeng Precision Machinery Frequency Conversion Motor
- 17.Transmission mechanism: high-precision ball screw
- 18.Main machine weight: (approx) 200 kg