



20KN Double Column Electronic Universal Testing Machine / Tensile Strength Tester



Accuracy:	±0.5%	Capacity:	500, 1000, 2000KG
Elongation Accuracy:	0.001mm	Motor:	AC Motor
Power:	Electric	Resolution:	1/100,000
Sensor:	Load Cell Normal Load Cell	Type:	Tensile Tester

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[604 haida universal test machine.pdf](#)

Main Technical Parameter

Items	Specification
Sensor	Normal Load cell
Capacity	500, 1000, 2000KG
Unit Switchover	G, KG, N, LB
Display Device	PC
Resolution	1/100,000
Accuracy	±0.5%
Max. Stroke	1000mm (excluding fixture)
Test Speed	20-300mm/min (adjustable)
Motor	AC Motor
Screw	High Precise Ball Screw
Elongation Accuracy	0.001mm
Power	1 ϕ , AC220V, 50HZ
Weight	Approx.200kg
Accessories	One set tensile clamp, one set Lenovo computer, one piece English software CD, one piece operation video CD, one piece English user manual

Product Features

1. Motor system: AC Motor +Driver +High precise ball screw (Taiwan)
2. Control system: a, computer control with TM2101 software; b, Back to origin automatically after the test, c, store data automatically or by manual operation
3. Data transmission: RS232
4. Displacement resolution: 0.001mm
5. Graph scale automatic optimization can make graph to display with best measurement and can implement graphics dynamic switching in the test and has force-elongation, force- time, elongation -time, stress - strain.
6. 20KN Double Column Universal Material Tensile Testing Machine can save results automatically after test finished, and it is manual filing. It can display maximum force, yield strength, compressive strength, tensile strength, elongation, peel interval maximum, minimum and average, etc.
7. User can set parameters of product material such as length, width, thickness, radius, area and so on.
8. Many languages random switching: Simplified Chinese, Traditional Chinese, and English.

Product Description

20KN Double Column Universal Material Tensile Testing Machine is widely used in wires & cables, hardware, metal, rubber, footwear, leather, apparel, fabric, tape paper products, pharmacy and so on, for tensile strength, tear resistance, peel strength, bend strength, shear force , ect with different fixtures according to national and international standards customer required.

20KN Double Column Universal Material Tensile Testing Machine is a kind of electric tensile tester which uses the motor to drive ball screw to move fixture. Place the fixture with sample between the upper and lower fixture, use a given speed to pull sample upward by upper fixture. Load cell above upper fixture will sense tensile strength, and convert the strength into voltage sign and output to the display screen. And the strength value will be displayed automatically.



Software and Curves

The TM2101 software is designed purposely for computer controlled 20KN Double Column Universal Material Tensile Testing Machine, used for tension, compress, bend, shear, tearing and peel test. With the personal computer and interface plate, it could collect, save, process and print test result. Further it can calculate multiple parameters, i.e. maximum force, yield strength, average peel force maximum deformation, yielding point and elastic modulus; this system is featured in curve process, multi-sensor support, image interface, flexible data process and powerful system function.

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kgf	0.00	mm	0.00	mm
Force		Elong.		Stroke

Force-Elong. Force-Time Elong.-Time Multi-Graph

Force (kgf)

Time (min)

Elong. (mm)

Time (min)

Measuring Unit	Speed (mm/min)			

Force (kgf)

Elong. (mm)

Time (min)

