

Computer Controlled Electronic Universal Testing Machine

Model: WDW-Y/E Series



<u>WDW Series Computer Control Electronic Universal Testing Machine</u> made by UNITEDTEST range from 100N to 600KN load capacity with various models like single columns, table type, door frame type etc., is used to perform tension, compression, flexure/bending, shearing, peeling etc., test for metal and nonmetal specimens.

Single Column Tabletop universal testing systems can be used over a range of force applications up to 5 kN (500 kg). A variety of load cells are available to provide accurate measurements for applications ranging from micron-size fibers to those utilizing the full capacity of the load frame. Additionally, a full range of grips, fixtures, and strain measurement devices are also available.

2, Application

Applications solutions include medical devices, biomaterials, textiles, elastomers, food, small components, wire, paper, plastic, film, fibers and threads, adhesives and many more.

Widely used for industrial application, factory quality control, science and research institute, QC &QA college student training, education institute, testing and inspection center, laboratories, construction company, aerospace, mechanical production, electric appliance fields.

Comply with different standards such as ASTM D638, ASTM D695, ASTM D790, ASTM D412, 624, ASTM D882, ISO 527, ISO 37, ISO 604, ISO 178 and other equivalent BS, ASTM, JIS standard.

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3, Key Features

Load frame and driven type

 Frame are proof loaded to 200% of capacity, with concentric arrangement of the drive lead screw and crosshead guide which assure high accuracy and strong reliability;





Leading screw

AC servo motor

- Adopt Japan Panasonic/FUJI AC servo motor and driving system, ensure transmission and moment of force stable;
- Adopt Circular Arc Profile Synchronous Belt Transmission, eliminate dual direction clearance, prolongs the life of synchronous belt;
- Multiple load cell in one machine available.

Grip and test fixture

- Manual, hydraulic, pneumatic tensile test fixture available;
- Removable grip-jaws can be changed rapidly to meet variable wider applications in tension test.
- Versatile test fixture like peeling, shear, bending, flexure, tear, burst, puncture, compression test for kinds of material;













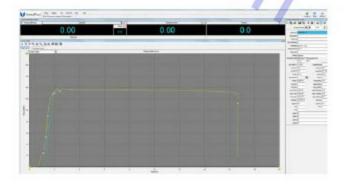
Security function

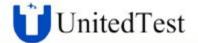
- 1), Sensor of position limitation switch;
- 2), Emergency stop switch;
- Hardware driving system overload protection, over voltage, current protection;
- 4), Software over load protection.

Control system, Software

- Based on full digital STC8800 measuring and control card; Data collection system use 4 channel of high accuracy 24 digit A/D conventer;
- Real time load, deformation, corsshead displacement, test precess four kind close loop control;
- Resolution can upto 1/500000, full range without step;
- 4), Level authorization management function: to improve sftware and data security, can set different password to realize several class authorization management. Different user with different right to operate the machine, avoiding unexpected mistake because human error.
- 5),Load~Time, Load~displacement, Displacement~time etc. curve smoothly switch, display test data, save, analysis and print.







4, Main technical specification

100N, 200N, 500N, 1Kn, 2KN, 5KN	
150% of rate capacity	
YES	
Class 1/0.5 according ISO7500-1	
150% of rate capacity	
1/500000 FS, stepless	
0.001mm	
1150mm	
800mm	
900mm	
Corrugated Opposite clamping	
Ф 100mm	
0.001 mm/min \sim 500 mm/min, stepless,	
adjustable arbitrarily	
110kg	
220/110V, 50/60HZ, 1 phase	
520×410×1500mm	
SmartTest English version	
MS Win7 / Win10	
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