

WDS Series Digital Display Type Electromechanical Universal Testing Machine (1-Column, Table-top, 500N-5kN)



1. Introduction

This WDS series one column digital display type UTM are suitable for tensile, compression tests of non-metal materials, like paper, rubber, plastic, cable wire, filament, thin films, adhesives, foam, packaging, composite material, plastic profile, spring, etc. It also can execute the other tests, like bending, shearing, peeling, friction, puncture test by adding relative optional accessories. It conforms to GB, ISO, JIS, DIN, ASTM, etc standards. It is an ideal testing machine for quality control department, scientific research, universities and colleges, industrial and mining enterprises.

2. Features

2.1 Host machine

- a. 1-Column structure, exquisite and artistic
- b. Tensile and compression grip for each one.
- c. High accuracy load cell
- d. Full digital AC servo motor and driver
- e. Precision lead screw and reducer, stable and low noise.



Jinan Victory Instrument Co., Ltd

Add: No. 2-9 Qilihe Rd, Licheng Dist., Jinan, China. 250100

E-mail: sales@victorytest.com Web: www.victorytest.com

2.2 Measuring and control system

- a. Auto zero: the master control system once receives the test start order, auto zero.
- b. Auto print: print out the test results by a mini-printer
- c. Real time display: load force and curve could real time displayed
- d. Limit protect: dual protection: program control and mechanical
- e. Over load protection: when load over max. load capacity of 2%-10%, auto stop.
- f. Emergency stop: emergency stop button is available.

3. Main technical parameters

Model	WDS-0.5	WDS-1	WDS-2	WDS-5
Specification				
Force Range(kN)	0.01- 0.5	0.02- 1	0.04- 2	0.10- 5
Force Accuracy	±1% of applied force			
Position Resolution (mm)	0.01			
Test Speed Range	0.1mm/min- 500mm/min, servo control			
Crosshead Travel (mm)	600			
Power Requirement	1 phase, 220V±10%, 50Hz			
Environmental Requirements	Room temperature ~40℃, relative humidity<80%			
Frame Dimension (mm)	530×270×1450			
Frame Weight (kg)	150			

4. Standard accessories

- High accuracy load cell: American Celtron
- AC Servo motor and driver: Japanese Panasonic
- Control card and display unit
- Flat tensile grip
- Compression plates
- Tools and cables

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