

WDS 200KN,300KN,20Ton,30Ton Digital Display Universal Tensile Strength Tester



Application

Digital Display Universal Tensile Strength Tester is applicable for wide range of material for tension, compression, bending, shearing and low cycle test. Suitable for metal, rubber, plastic, spring, textile, and components testing. It is widely used in the corresponding industries, research and development, test institutes and training centers etc.

Standard

Load meets or exceeds the following standards: ASTM E4, ISO7500-1, EN 10002-2, BS1610, DIN 51221.

Strain measurement meets or exceeds the following standards: ASTM E83, ISO 9513, BS 3846, EN 10002-4.

Safety: This machine shall conform to all relevant European CE Health and Safety Directives EN 50081-1, 580081-1, 73/23/EEC, EN 61010-1

2.1 Rigid and reinforced Plastics/ Composites:

EN ISO 6259 - parts 1/2/3 Determination of tensile properties of thermoplastic pipes;

EN ISO 527-1 - parts 1/2/3 Determination of tensile properties on plastics;

ASTM D638 Standard Test Method for Tensile Properties of Plastics

ISO 604 Plastics - determination of compressive properties

ASTM D695- Plastics -- Standard Test Method for Compressive Properties of Rigid Plastics

EN ISO 9969 Determination of ring stiffness on thermoplastic pipes;

ISO 14125 Flexural Properties of Fiber-Reinforced Plastic Composites

ASTM D3846 Standard Test Method for In-Plane Shear Strength of Reinforced Plastics;

EN ISO 13968 Plastics piping and ducting systems -Thermoplastics pipes-Determination of ring flexibility;

EN ISO 844 Determination of compression properties;

2.2 Geo-textiles:

BS EN ISO 10319 Geotextiles —Wide-width tensile test;

ASTM D3950 Standard Specification for Strapping, Nonmetallic (and Joining Methods);

JBT 8521(EN 1492-2): Textile slings. Safety. Round slings, made of man-made fibers, for general purpose use;

ASTM D 6775-02 Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material;

2.3 Metal:

ASTM E8 Standard Test Methods for Tension Testing of Metallic Materials;

ISO 6892 Metallic materials — Tensile testing — Method of test at ambient temperature;

BS EN 10002-1Determination of tensile properties on metals;

BS EN 10002-5: Metallic materials —Part 5: Method of test at elevated temperatures;
 ASTM E21: Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials;
 ISO 783: Metallic materials -Tensile testing at elevated temperature;
 EN ISO 7438 Determination of flexure tests on metals;
 ASTM F606: Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets;
 ISO 14589: Blind rivets - Mechanical testing;
 SAE J429: Mechanical and Material Requirements for Externally Threaded Fastener;

Specifications:

Model	HST WDS-200E	HST WDS-300E
Structure	Doublecolumn double spaces	
Max.capacity	200kN	300kN
Load accuracy	Class1according to ISO 7500-1 - Meets ASTM E-4	
Load range	2%~100%F·S	
Accuracy of test load	$\leq \pm 1\%$	
Resolution of displacement	0.01mm	
Testspeedrange	0.01 to 500mm/min	0.01 to 500mm/min
Speed accuracy	within $\pm 1\%$ set speed	
Tensile space	700mm	
Compression space	700mm	
Test width	600mm	
Dimension(L*W*H)	1108x870x2395mm	
Wight	1800kgApprox	
Power supply	2.5KW,3phase AC220V $\pm 10\%$,50/60Hz	

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