

Digital display Manual Hydraulic Universal Testing Machine

Model: WES Series



1, General introduction

United Test make Universal Testing Machines are known for their long lasting trouble-free performance and highest quality material used in the manufacturing process. The Hydraulic universal testing machine can perform tension, compression, flexure/bending and shearing test for kinds of specimens. Suitable for metal and nonmetal material, such as iron, steel, steel bar, rebar, cement, concrete, rod and so on.

Specially design for production, research, student training and industrial laboratory. Available in wide range of loadframe capacities (300kN to 2000kN)/(10Ton to 200Ton) and with combination of control panels (Digital, Computerised) makes United Test product range suitable for every customer requirement. Load weighing system meets or exceeds the requirements of the following standards: ASTM E4, EN10002-2, BS 1610, DIN 51221, ISO 7500-1.

2, Application

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.

3, Key Features

- 1), The load frame adopts oil cylinder bottom type structure, hydraulic load, hydraulic clamping specimen (100B is manual clamping);
- 2), Adjust the test space by motor and chain at the bottom of the load frame.
- 3), Unique screw gap eliminating structure can guarantee the continuity of the test;
- 4), Independent hydraulic clamping structure can guarantee the reliability of the system; it will not hurt person for falling specimen and ensure the safety of operator.
- 5), Limitation and electrical protection system can ensure the security of using;
- 6), LCD screen to display load-time curve, load, peak load, some material yield point load; through the digital key to input sample No., cross area, can examine the tensile strength, yield strength etc., micro printer can use to print the test result;

4, Main technical specification

Model	WES-300	WES-600	WES-1000
Max. load	300KN	600KN	1000KN
Column Number	4 column and 2 leading screw, total 4 columns		
Measuring force range	2%~100%		
Accuracy of load	±1% of indicated value		
Accuracy of deformation	±1%, resolution: 0.01mm		
Max. tensile space	650mm	650mm	700mm
Max. compression space	550mm	550mm	600mm
Flat specimen range	0~15mm	0~30mm	0~40mm
Round specimen range	φ6~φ26mm	φ13~φ40mm	φ13~φ60mm
Piston stroke	200mm		
Clamping mode	Hydraulic Automatic		
Dim. of frame	860*560*2100mm		1160*850*2620mm
Dim. of oil source	520×380×1450mm		
Weight	2700kg		3600kg
Standard Accessories	Loadframe, oil source, control box, oil pressure sensor, tensile test Jaws, compression platen, bending test accessory, tools, anchor bolts, Operation Manual		