

WE Series Dial Display Hydraulic Universal Testing Machine

This series machines are widely used for tension, compression, bending and shearing test of metal materials and also used for compression and bending test of nonmetal materials, such as cement, concrete and so on. Equipped with simple auxiliaries, it can be used for mechanical property testing of fastener, wire rope and components. They are perfect testing instrument project quality testing section, universities and colleges, research institution and industrial and mining enterprise. The machine is designed and made according to ISO75001, ISO6892, ISO7438, ASTM A370, ASTM E4, ASTM E8 and BSEN standards.

Features

- ✘ This machine adopts oil cylinder on bottom type structure, hydraulic load, hydraulic clamping specimen.
- ✘ The main machine is separated with dynamometer, connected by high-pressure oil pipe and wire, avoiding the influence of dynamometer accuracy when the specimen is breaking, which makes the value precision.
- ✘ Testing force indicator dial adopts closed type, which makes scale clear.
- ✘ Loading speed indicator makes operation more convenient. It has three kinds speed: 0.4 rpm, 0.8 rpm and 2 rpm.
- ✘ Automatic tracer is installed upright of dynamometer can magnify the straining original shape by 2 or 4 times according to the requirements of test.



WE-300,600,1000

WES Series Digital Display Hydraulic Universal Testing Machine



WES-300,600,100

- ✘ Full digital sensor and data processing with microchip.
- ✘ Data acquisition system consists of two high precision A/D conversion channels.
- ✘ The maximum resolution of 1/200000 .
- ✘ There is no subsection of all process , meanwhile, it can have 4 subsections according to customers' requirement.
- ✘ Integrated dual roads precision instrument programmable amplifier, digital zero.
- ✘ Password operation management. User can set different right of running and control.
- ✘ Batch test sample test support.
- ✘ 64 groups test data and result storage.

Optional selecting computer interface and software

- ✘ Extensometer to test sample deformation, encoder test the displacement
- ✘ Interface to PC or Laptop by Ethernet Interface. Support Wireless WI-FI transmission
- ✘ MaxTest software runs on Windows98/2000/XP/VISTA/Win7
- ✘ Real-time record and dynamic display test curve.
- ✘ Adopts human-computer interaction to analyze and count
- ✘ Software can automatically finger out routine data, such as tensile strength, yield strength, modulus of elasticity, extend rate after rupture, non-proportional extend strength RP0.2, etc.
- ✘ Adopts standard database to manage test data and support batch test.
- ✘ Customer can add test methods and rules for his need.

Specification

Parameters		WE-300	WES-300	WE-600	WES-600	WE-1000	WES-1000
Measuring range of force(kN)		6-300kN		12-600kN		20-1000kN	
Accuracy		±1% of indicated value					
Subsection of force		1,2,5 or No grade by Digital					
Tracing Plate speed		0.4r/min, 0.8r/min, 2r/min for Dial type					
Clamping diameter for round specimen(mm)		φ10-32		φ13-40		φ13-φ60	
Clamping width of flat specimen		70 mm		75 mm		80 mm	
Clamping thickness of flat specimen(mm)		0-15		0-30		0-40	
Testing space	Tension	650	620	700	690	700	690
	Compression	550	550	600	620	600	580
Compression Platen size		170x170	φ130	170x170	φ180	204x204	
Distance of bending by pass roll(mm)		30-320	100-320	30-450	100-500	30-450	100-500
Piston stroke		250mm					
Power supply		380/220v±10%, 50/60Hz, 3 phase					
Working environment		Room temperature 10℃～30℃,relative humidity≤80%					
Overall dimension(mm)	Host machine	800x500x1950		950x630x2265		980x650x2450	
	Dynomometer	1070x810x1730		1070x810x1730		1070x810x1730	
Weight(Kg)		2700	2000	3200	2500	4100	3300

Accessories

Description	WE Series	WES Series
Standard Accessories	Tension Test Accessories , Compression Test Accessories , Bending Test Accessories, A ,B ,C ,Weights, coordinate paper, Dynomometer	Digital Indicator, Hydraulic Pressure Sensor, Tension Test Accessories, Compression Test Accessories, Bending Test Accessories, Installation Tools
Optional Accessories	Shearing Test Accessories	Shearing Test Accessories, photoelectric encoder, Extensometer, PC interface and Software