

WEW Series Computer Display Hydraulic Universal Testing Machine

Features:

WEW Series machine is adopting oil hydraulic power to push the piston in the oil cylinder to provide loading force. It is very suitable for making test to different metal or nonmetal materials under high toughness and hardness against extreme big loading force. By using load transducer and photoelectric encoder, the computer is timely collecting the testing parameters like loading force, stroke etc. This machine is adopting manual control mode and computer collecting and displaying methods to process the testing parameters. The software based on Windows system is able to make automatic calculating of test results, i.e. tensile strength, up / low yield strength, Non proportional stress point etc. Report creation function makes it very simple to make testing report in needed format. This machine is widely used in different areas and facilities.

CROSSHEAD MOVING
Crosshead is directed by reeling screw column. So that to meet different length of specimen.

FRAME STRUCTURE
High intensity 4 columns structure load frame. Very stable and reliable during high force tests.

COMPRESSION TEST
Adopt double-test-space, easy to achieve tensile test and bending test at the same time.

STROKE CALCULATE
Crosshead displacement is counted by a scale or software through photoelectric encoder (OPTIONAL)

OIL CYLINDER
Oil cylinder is put at the bottom to reduce unnecessary machine height.

THE GRIPS
Auto Wedge Clamp, firmly hold the specimens. Convertible grip will fit for different kinds of specimen.

OIL CONTROL CABINET
Two handwheels manually control the inlet and outlet quantity of oil to apply load on samples.

DIGITAL DISPLAY & RESULT OPERATION
TIME SHIJIN Controller directly collect testing data, fast results process and display.



WEW-1000D

Features:

- Full computer displayed of testing process.
- Manual loading speed will meet your appropriate testing speed.
- Adopt manual / oil-hydraulic automatic clamps which can be operated from separate control box.
- Timely control software will provide accurate record of testing process.
- Report guide will create your testing report very simply.
- Overload protection will secure operators.

Main Technical Specifications:

Specification Model	WEW50A	WEW-100A	WEW-100C	WEW-300A	WEW-300C	WEW-300D	WEW-600A	WEW-600C	WEW-600D	WEW-1000A	WEW-1000C	WEW-1000D	WEW-2000A
Max. load(kN)	50	100	300	2000	6000	10000							
Attenuation of load amplifier	Stepless, equivalent 3 scales		Stepless, equivalent 4 scales										
Accuracy of test load	< 1%												
Accuracy of deformation	< 1%												
Scope of deformation measure	2%-100% of the full scale of the extensometer												
Grip Dia. of round specimen (mm)	Φ3-Φ14	Φ6-Φ22	Φ6-Φ22	Φ10-Φ32	Φ10-Φ32	Φ10-Φ32	Φ13-Φ40	Φ13-Φ40	Φ13-Φ40	Φ13-Φ60	Φ12-Φ60	Φ13-Φ60	Φ15-Φ70
Grip Thickness of flat specimen (mm)	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15
Max distance between grips (include piston stroke) (mm)	600	580	550	600	600	600	600	600	600	780	600	600	850
Space for compression (mm)	0-355	0-500	0-500	0-550	0-550	0-550	0-300	0-550	0-450	0-650	0-800	0-470	0-720
Columns distance (mm)	Tension	395	435	590	530	460	580	650	515	675	760	565	900
	compression	255	255	380	380	380	370	370	490	490	490	490	690
Attenuation of deformation amplifier	1,2,5,10												
Max grip width of flat specimen (mm)	70	70	70	70	70	70	80	80	80	125	70	125	140
Dimension of compression plates (mm)	Φ125	Φ125	Φ125	Φ130	Φ130	Φ120	204	204	204	204	Φ160	204	204
Span of bending roller (mm)	600	600	350	350	350	350	1000	800	800	1000	800	800	800
Length of bending roller (mm)	100	100	100	140	140	140	140	140	140	140	140	140	140
Max bending flexibility (mm)	80	80	80	100	100	100	100	100	100	150	150	150	190
Dimension of specimen for shear (mm) (Optional accessory)	10	10	10	10	10	10	10	10	10	10	10	10	10
Power of pump motor (kw)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	7
Power of crosshead motor (kw)	0.55	0.55	0.75	0.60	0.75	0.37	0.6	1.1	0.6	0.6	3	0.6	2.2
Measuring device of deformation	Extensometer												
Crosshead adjust structure (Means of Transmission)	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive	Disc motor worm gear drive	Ordinary motor worm gear drive
Safety protection	Limited switch												
Overload protection rate	2%-5%												
Software	TIME SHIJIN Software												
Dimension of mainframe (include piston stroke) (mm)	610	700	725	810	700	725	810	700	725	810	700	725	810
Dimension of the control cabinet (mm)	610	700	725	810	700	725	810	700	725	810	700	725	810

