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WEW-1000D Computer Display Hydraulic Universal Testing Machine

Brief Introduction: WEW-1000D computer display hydraulic manual control universal testing machine is mainly used to execute the tension, compression, bending, flexural etc. test for metal materials. Attached with simple accessories and devices, it can be used to test wood, concrete, cement, rubber, and so on. It is very suitable for making test to different metal or nonmetal materials under high toughness and hardness against extreme big loading force.

Standards: In accordance with or exceed the requirements of the ISO6892.

D Type Load Frame: The oil cylinder is at the bottom of the load frame. Tension space is at the upside and compression & bending spaces are between lower crosshead and working table. It is adopting oil hydraulic power to push the piston in the oil cylinder to provide loading force. The lower crosshead is driven by motor through decelerator, chain transmission device and screw pair to realize the adjustment of testing space.

Measuring System: The machine adopts oil pressure transducer to measure load and use photoelectric encoder to measure the displacement. The computer is timely collecting the testing parameters like loading force, stroke etc. Our Winwew software based on Windows system is able to display the load, load peak value, deformation, testing curves etc. very easily, and can make automatic calculating of test results, i.e. tensile strength, up / low yield strength, Non proportional stress point etc. Report creation function makes it is very simple to make testing report in your needed format.

Applications: It is widely used in different steel works, engineering areas, quality control department, universities and institutes as well as other areas and works.

Features:

- ◆ Full computer displayed of testing process.
- ◆ Manual loading speed will meet your appropriate testing speed.
- ◆ Stable and reliable high intensity 4 columns and 2 reeling screw columns structure load frame.
- ◆ Adopt oil-hydraulic automatic clamping which can be operated by separate control box.
- ◆ Timely display software will provide accurate record of testing process.
- ◆ Report guide will create your testing report very easily.
- ◆ Overload protection will secure operators.

Common sense: The differences between WAW, WEW and WE series testing machines

WAW Series is computer controlled servo hydraulic universal testing machine. The space adjusting, & test processes could be controlled by the software and the test result could be transferred to the software in the computer for further analysis. It is the most advanced series in hydraulic universal testing machines.

WEW Series is computer display manual control hydraulic universal testing machine. The space adjusting & force loading could be executed by manual control. The test result could also be transferred to the software for further analysis.

WE Series is pendulum dynamometer display manual control universal testing machine. The space adjusting & force loading could be executed by manual control, and the test result could be shown through dynamometer.



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Specification		WEW-1000D	
Max. capacity (KN)	:	1000	
Measuring range	:	2%-100% of FS	
Relative error of reading	:	≤±1%	
Clamping method	:	Hydraulic clamping	
Round specimen clamping range(mm):	:	Φ13-Φ60	
Flat specimen clamping range(mm):	:	0-40	
Flat specimen clamping width(mm)	:	125	
Max. tension test space (mm)	:	600	
Max. compression test space (mm)	:	470	
Cabinet dimensions (mm)	:	610*700*1100	
Load frame dimensions (including piston stroke) (mm)	:	1100*900*2510	
Motor power (KW)	:	2.1	
Load frame weight (KG)	:	5000	
Column net distance (mm)	:	565	
Compression platen size (mm)	:	204*204	
Span of bending roller (mm)	:	800	
Width of bending roller (mm)	:	140	
Allowable camber (mm)	:	150	
Max. piston stroke (mm)	:	250	
Piston max. speed (mm/min)	:	Approx. 50	
Crosshead max. speed (mm/min)	:	Approx 150	

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Introduction of WEW Series Software

1 Software Main Interface

The screenshot shows the main interface of the WEW Series Software. It features a top status bar with 'W Hydraulic universal testing machine with computer servo control v1.62'. Below this are several data fields: Load (0.00 kN), Peak (0.00 kN), Deformation (0.000 mm), Displacement (0.000 mm), and Time (0.0 s). A central 'Test Curve' window displays a 'Time-Load Curve' graph with axes for Load (kN) and Time (s). To the right, a 'Speed' panel shows real-time values for Piston Speed (0.00 mm/min), Load Speed (0.00 kN/s), Stress Speed (0.000 MPa/s), and Strain Speed (0.000 %/s). A 'Specimens' list on the left allows for specimen selection. Callouts identify the 'Main menu', 'Area for real time test data display', 'Area for drawing test curve & inputting specimen parameters', 'Area for choosing specimen', 'Area for data processing', and 'Area for test speed timely display'.

2 Multilevel authorization access

This section shows the 'User Login' dialog box and a portion of the 'Speed' panel. The 'User Login' window has fields for 'User' (with a dropdown menu showing 'Expert User', 'Supper User', 'Expert User', and 'Development User') and 'Passport'. It also includes 'Change Passport' fields and a 'Restore Factory Default' button. A callout points to the user selection area, stating 'Multilevel authorization access to guarantee the safety use of software'. The 'Speed' panel shows the same speed values as in the main interface. A callout points to the speed display area, stating 'Piston speed, load speed, stress speed and strain speed timely display.'

3 Timely display

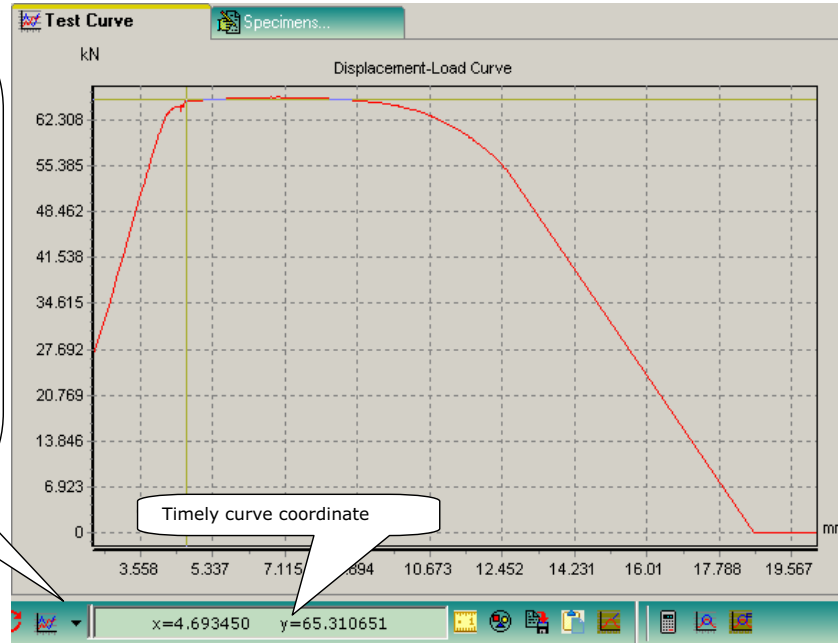
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Introduction of WEW Series Software

4 Curves switching option

Diversified curves choice

- Time-Load Curve
- Displacement-Load Curve
- Deformation-Load Curve
- Displacement-Stress Curve
- Deformation-Stress Curve
- Strain-Stress Curve**
- Time-Stress Curve
- Time-Strain Curve
- Time-Displacement Curve
- Time-Deformation Curve
- Display Giving Curve



5 Units could be converted as per your requirement based on International System of Units

- Load Unit: kN, Kip, Lbs, Kg, N
- Deformation Unit: mm, inch
- Displacement Unit: mm, inch
- Stress Unit: MPa, Psi, Kg/sc
- Modulus Elasticity Unit: GPa, Ksi
- Specimens Size Unit: mm, inch

6 Over load protection and stop condition setting

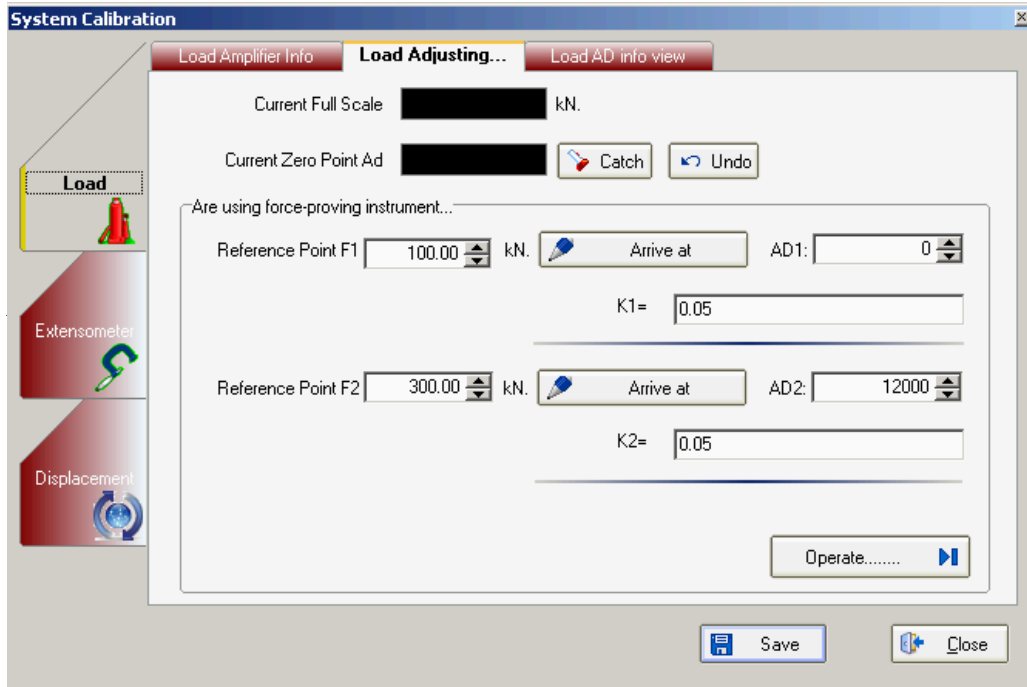
7 International standard test results process method input

For more functions, please enquiry our sales manager.

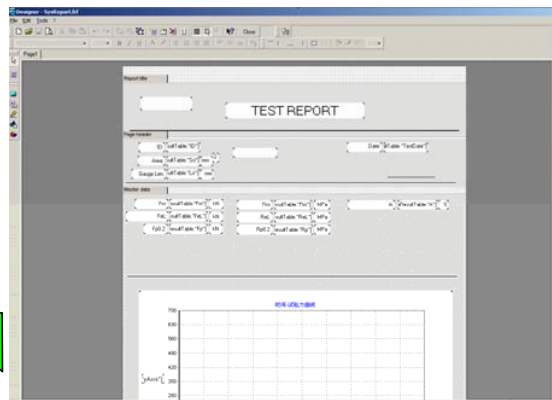
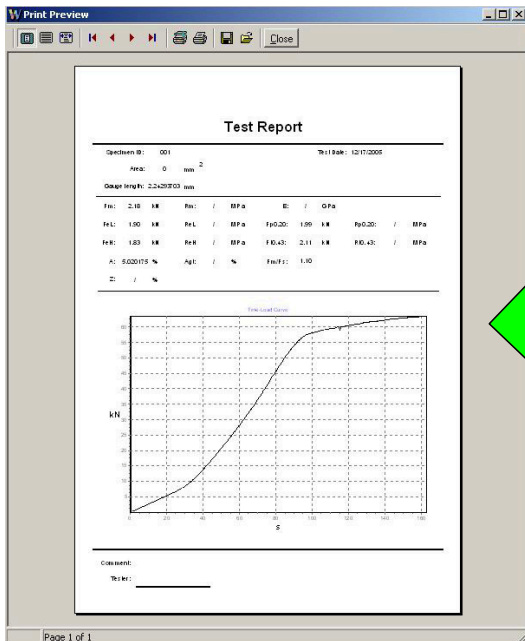
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Introduction of WEW Series Software

8 Easy software calibration



9 Firendly test report



Customization of test report

	A	B	C	D	E	F	G	H	I	J	K
1	No:	01	0	0	3.05	0	2.55	0	2.69	0	0
2	1	470.4	50	335.5	715	0	280.9	595	280.5	595	0
3	2	470.4	50	345.35	710	0	285.3	590	291.9	600	0
4	3	495.8	50	345.35	710	0	285.3	590	291.9	600	0
5	4	441.9	0	335.9	753.3	0	291.5	650.6	283.95	643.3	0
6	5	441.9	0	335.9	753.3	0	291.5	650.6	283.95	643.3	0
7	6	470.4	50	335.5	713.2	0	280.9	597.2	280.5	595.5	0
8	7	0	0	3.05	0	0	2.55	0	2.69	0	0
9	8	0	0	22.35	0	0	0	0	0	0	0
10	9	0	0	22.35	0	0	0	0	0	0	0
11	10	470.4	50	335.5	713.2	0	280.9	597.2	280.5	595.5	0
12	11	495.8	50	345.35	709.4	0	292.2	600.2	291.9	599.5	0
13	12	0	0	0	0	0	0	0	0	0	0

The test report could be customized as per your requirements and be transferred to Excel easily for further analysis.
















Original

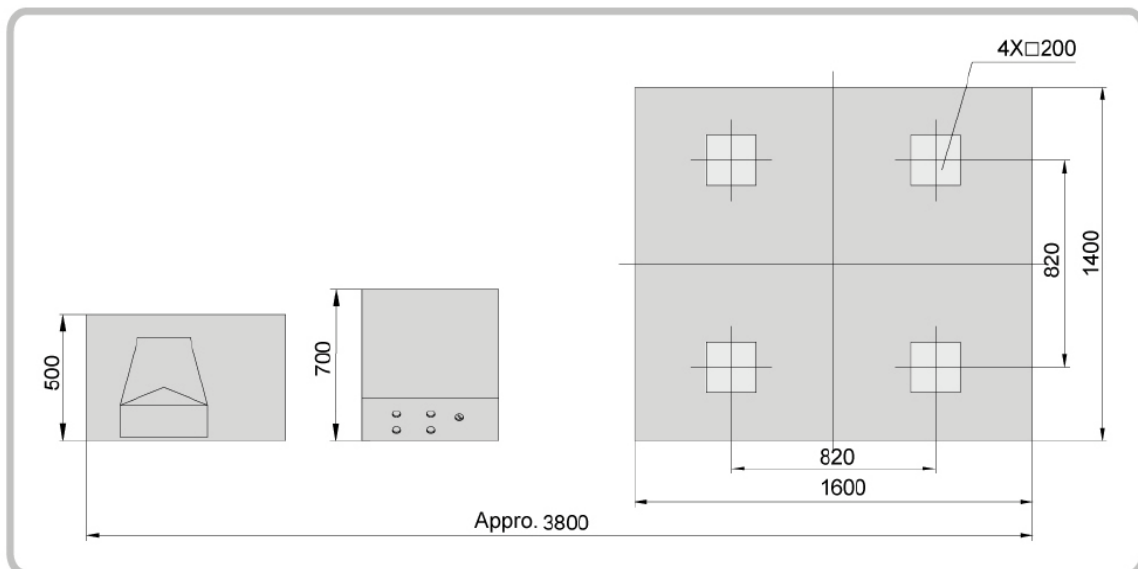
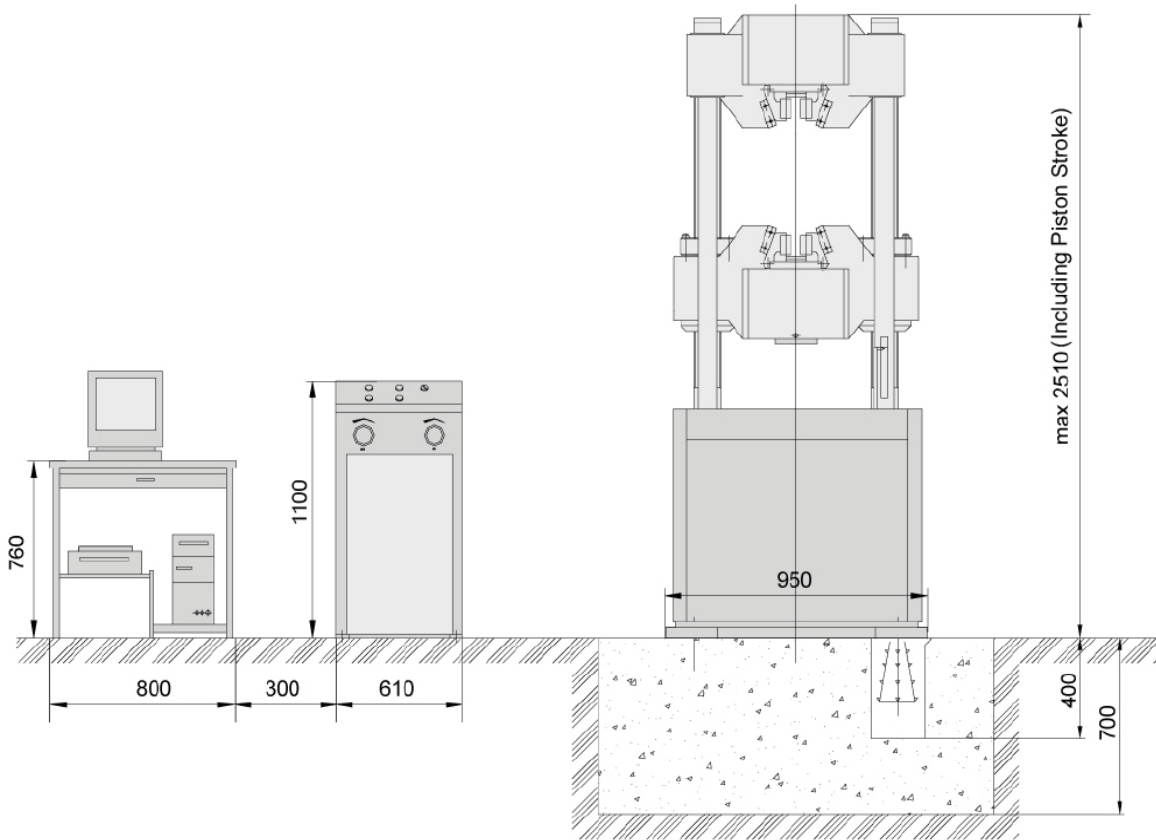
ISO9001 International Quality Certificate

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Standard accessories of WEW-1000D UTM

	Content	QTY	Picture
	Loadframe Four supporting columns and two leading screws structure. High intensity testing machine structure and crosshead, high stiffness to assure accuracy;	1 set	
	Control cabinet Manually control the inlet and outlet oil valves through two handwheels to control the oil quantity to apply load on specimen	1 set	
	Clamping jaws Jaws for round specimen: Φ 13- Φ 26mm, Φ 26- Φ 40mm, Φ 40- Φ 60mm Jaws for flat specimen: 0-20mm, 20-40mm	Each 1 set Each 1 set	
	Compression test attachment Dimension: 204 x 204 mm	1 set	
	Bending test attachment Span: 800mm Width of roller: 140mm Allowable camber (mm): 150mm	1 set	
	Tool kit Screw, Spanner, Socket Board etc.	1 set	
	Extensometer YYU-10/50 Standard gauge: 50mm Deformation: 10mm)	1 set	
	Photoelectric encoder	1 pc	
	Oil transducer Model: CYB-12SA	1 pc	
	Data-processing system TIME WINWAW Software	1 set	
	Industry computer (Lenovo Brand) Intel Pentium E2200/Core 2 Duo 2.2G/ 1 G memory 160G Hard disk/ DVD-ROM/17" LCD screen	1 set	
	Printer (HP 1468):	1 set	
	Computer desk		
	Note: Pictures is for reference only. Please make the objects as standard.		

Original **DIMENSION & FOUNDATION**



(Unit: mm)