

WDW-200 Computer Control Electromechanical Universal Testing Machine



Application:

Model WDW-200 computer control electromechanical universal testing machine is designed and manufactured according to ASTM, ISO, DIN etc standards. It is computer-controlled precision testing machine, suitable for wide range of material for tension, compression, bending and shearing test etc. It has high stability as well as high precision, equipped with PC system & printer for graph, test result display, printing & data processing. Complete with modulus for metal, spring, textile, rubber, plastic and other material testing. It is widely used in many fields such as industry factories, mineral enterprise and high schools.

Applied Standards:

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 and EN 10002-4.

Load Frame:

The floor type load frame is frequently the choice of those in the composites and metals industries where specimen size and strength require higher load capacity with the features as follows.

High accuracy:

The preloaded precision ball-screw ensures high speed and position measurement accuracy.

Safety features:

The testing machine stops automatically when the change in the test force exceeds a specified value during operations.

Large space in the working area

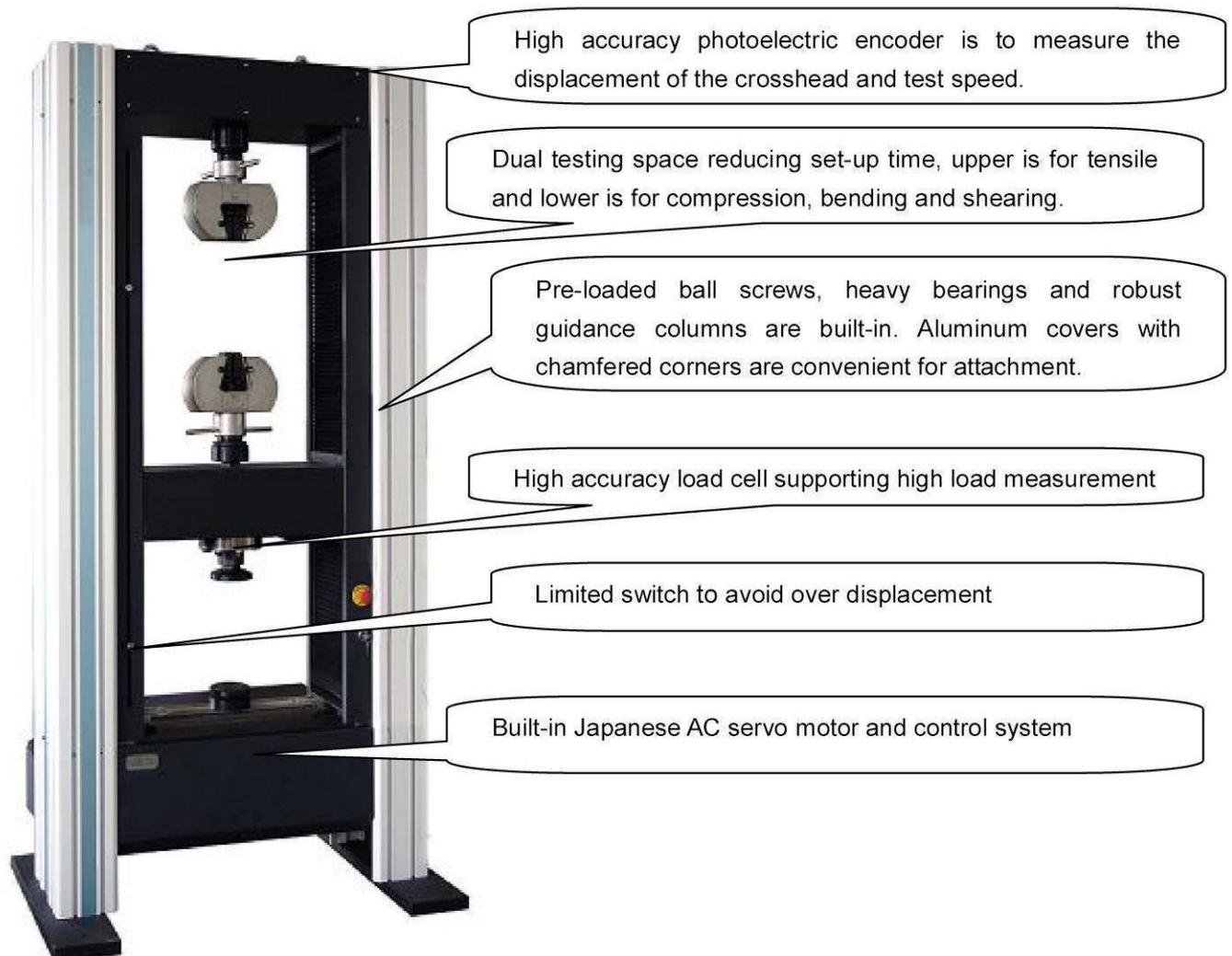
The insides of columns provide wide space for the operator.

Over-stroke limiter

The range of the crosshead movement mechanically limited.

Comfortable working area

The wide legroom under the load unit provides a comfortable working area for attaching and removing jigs.



Main Specifications:

- Max. Load (kN): 200KN
- Effective measuring range of load: 2-100% of F.S.

- Load accuracy: $\leq \pm 0.5\%$
- Deformation accuracy: $\leq \pm 0.5\%$
- Displacement resolution: 0.001mm
- Test speed: 0.0025-250mm/min
- Spacing of grip to grip: 500 mm
- Total crosshead travel: 1500 mm
- Space between columns: 590 mm
- Power: 380V, 3phs, 50Hz
- Dimensions: 1030×750×2420mm
- Weight: 1300kg

Standard Accessories:

1. 200kN capacity wedge action grips

Inserts for round specimen: $\Phi 8\sim 16\text{mm}$, $\Phi 16\sim 24\text{mm}$, $\Phi 24\sim 32\text{mm}$ 1 set for each

Inserts for flat specimen 0~9mm, 9~18mm, 18~27mm 1 set for each



2. Compression test with dia.100mm platens & ball seating assembly for upper platen: 1set



3. Bending test fixture with distance between lower rollers: 420mm, diameter of rollers: $\text{Ø}30\text{mm}$: 1 set



4. High precision load cell
Flat load cell 200kN, Tensile & Compression type

1 set



5. Photoelectric encoder
Measure the displacement

1 set



6. Electronic Extensometer for test in room temperature
Gauge length: 50mm, travel 10mm



7. Computer & printer & software 1 set

Computer: Dell with LCD 19inch screen

Printer: Hp

Software: **English & Russian** Version (For details, please refer to ANNEX-1)



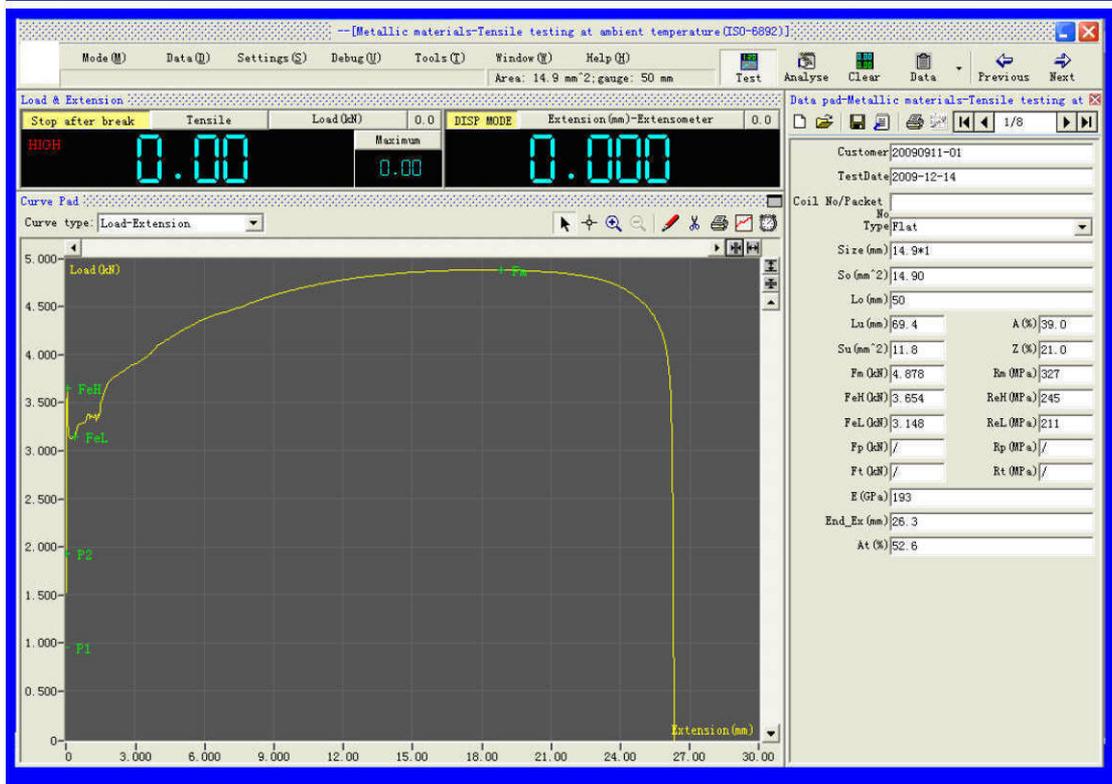
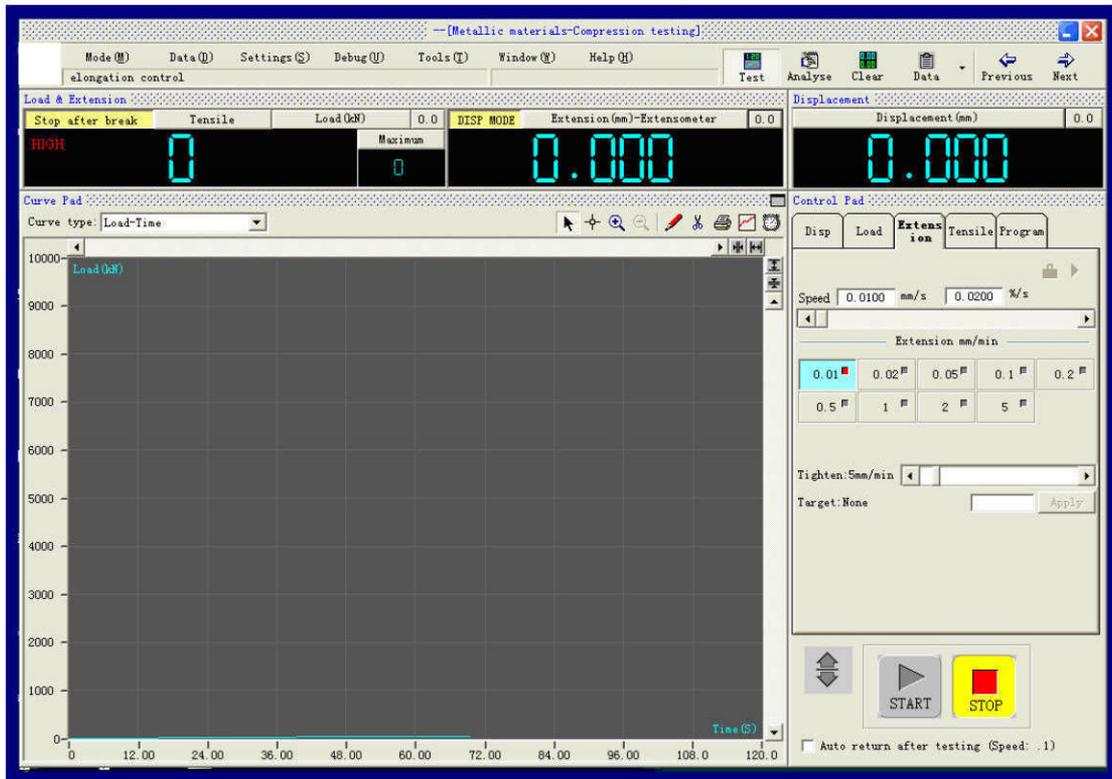
8. Servo Control system 1 set



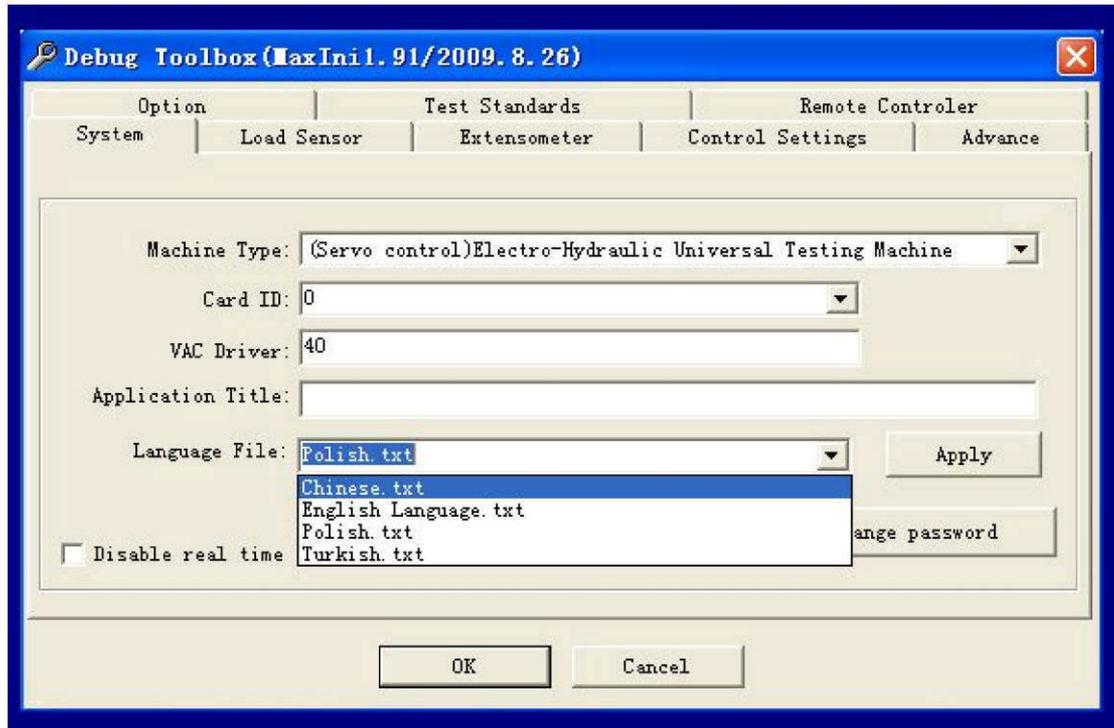
Annex-1

Features of TE Measuring & Control Software

TE software refers to the software characteristics of the top manufacturers of testing machine in the world and proposals of various testing requirements from the end users, and combines all the advantages of former versions of software with lots of new features. Optimized software structure makes the testing operation easy, convenient and powerful.



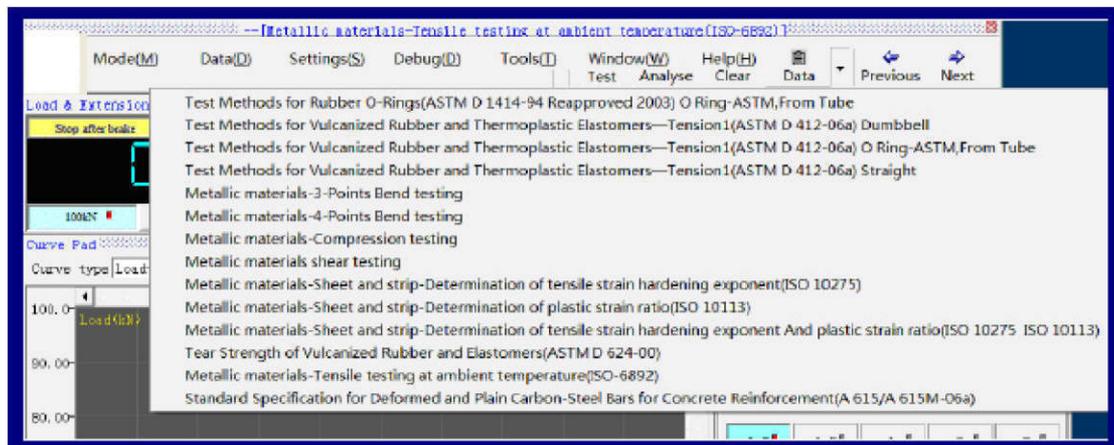
The control modes, test data and curves can be displayed in real time in the main interface and can be shifted at any time.



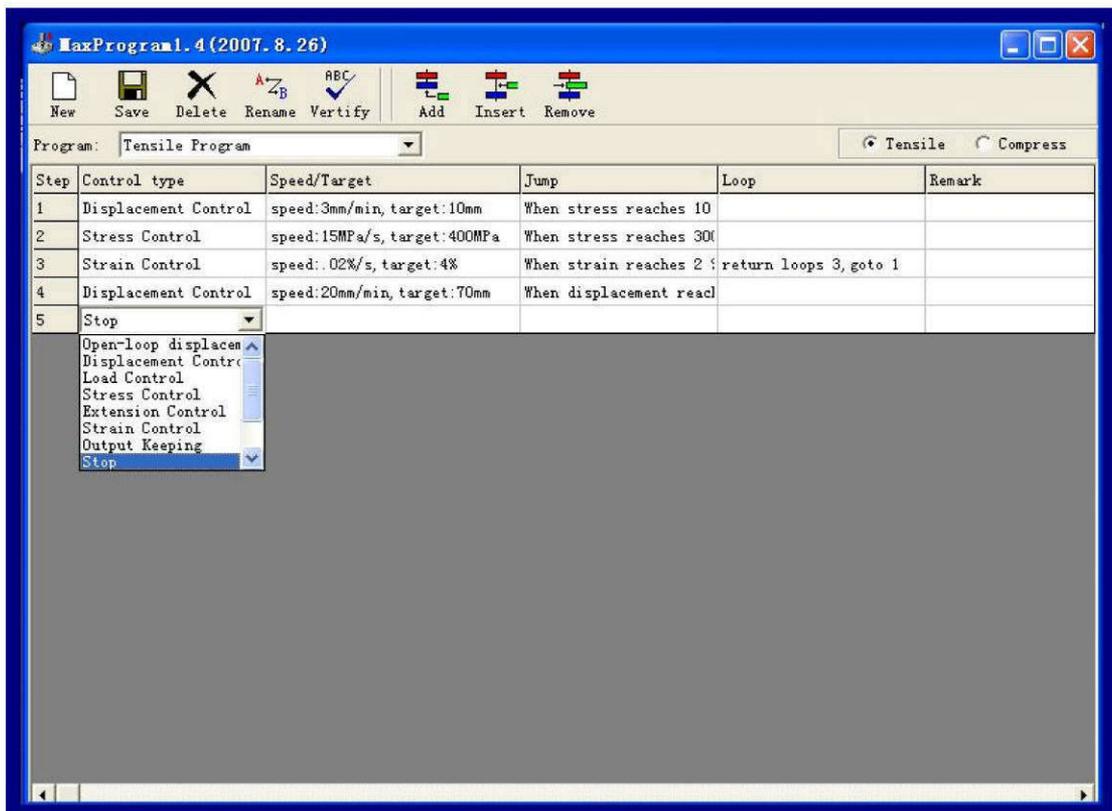
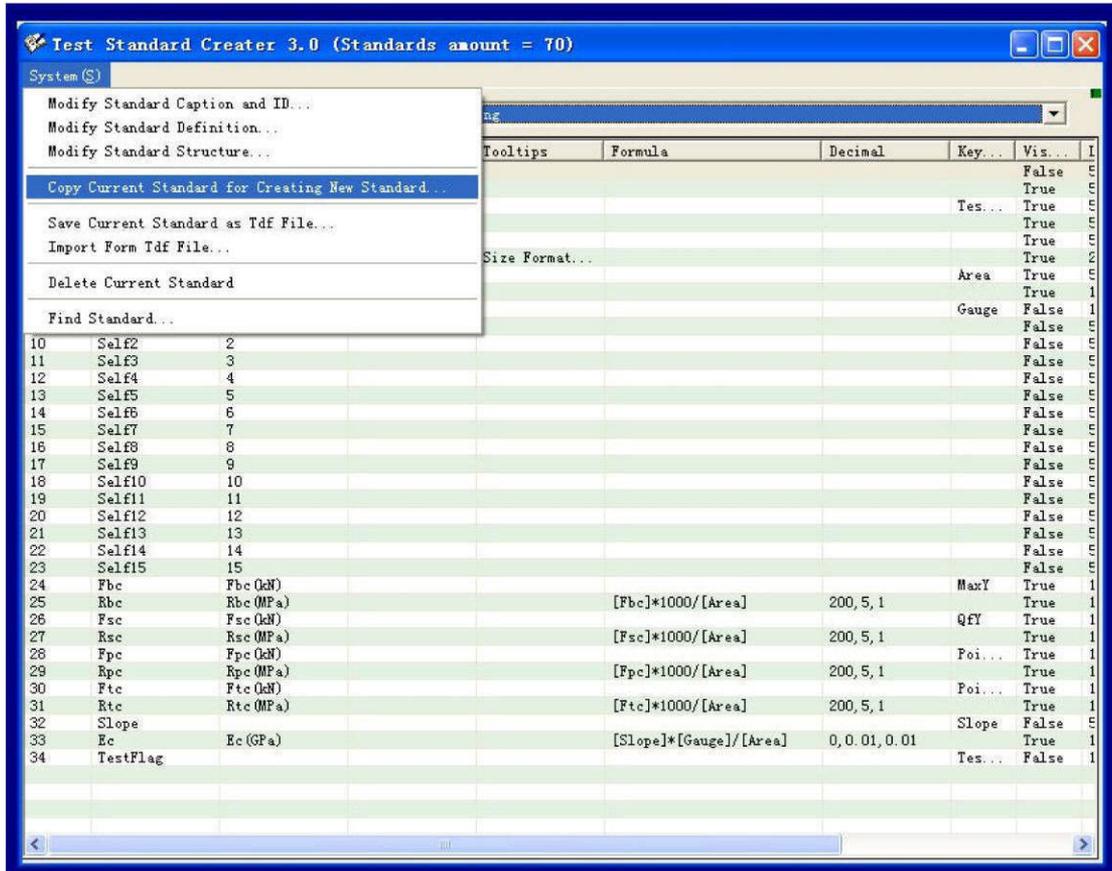
The deep-seated parameters of software are contained in Debug Toolbox

Multi-language function:

With the flexible language edited function, it can support multi-language such as English, Chinese etc. and you can translate the software language into the native language by yourself.

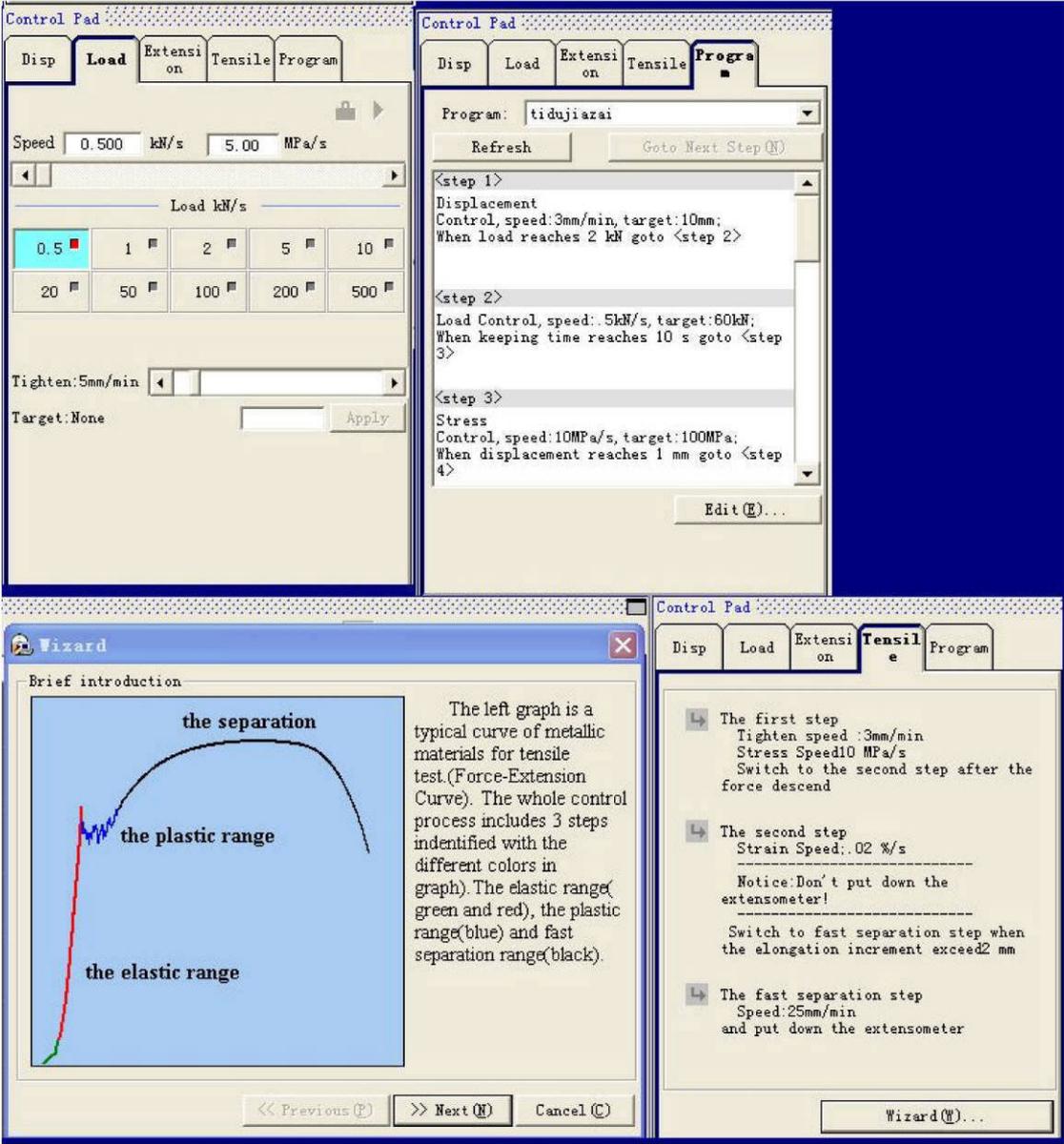


Software supports all kinds of popular testing standards i.e. ISO, ASTM, BS EN, DIN, JIS, GB etc. Users can modify and add own testing standards and methods.

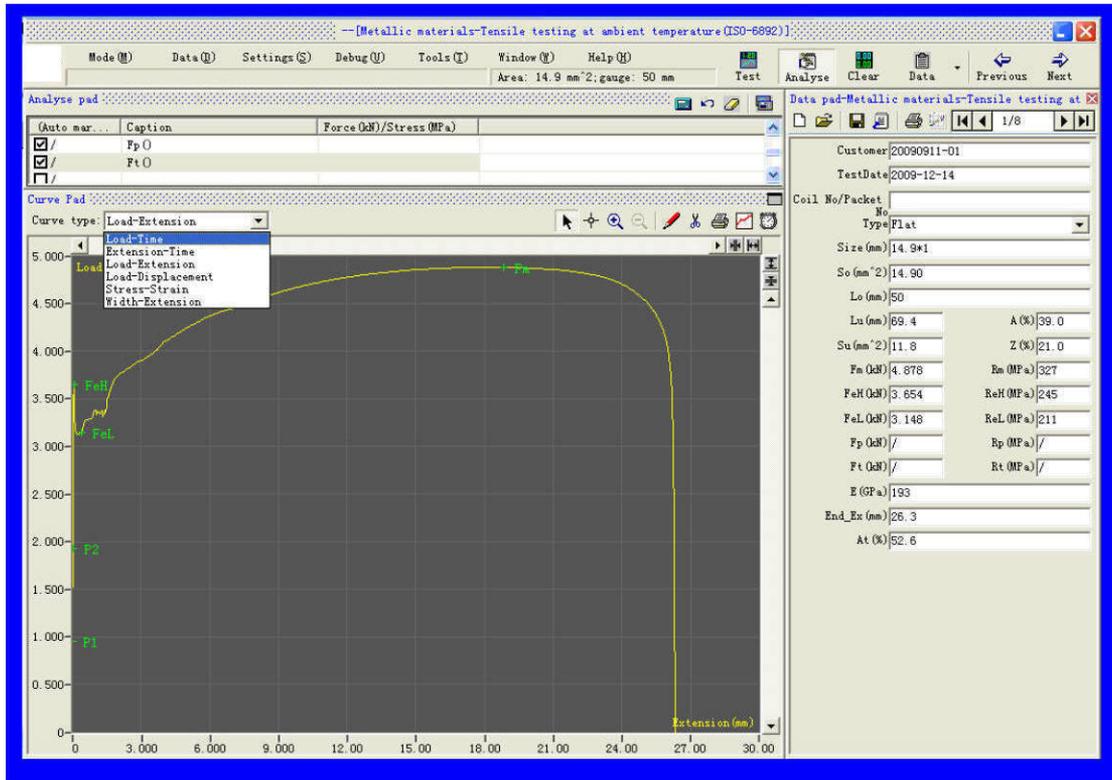


MaxProgram Editor possesses of multiple full digital control modes, i.e Displacement control, Stress

(Load) control, Strain (Deformation) control, Low cycle control. User can edit the most complex and logical procedure by MaxProgram Editor. The combination of above functions can meet all kinds of routine test purpose.



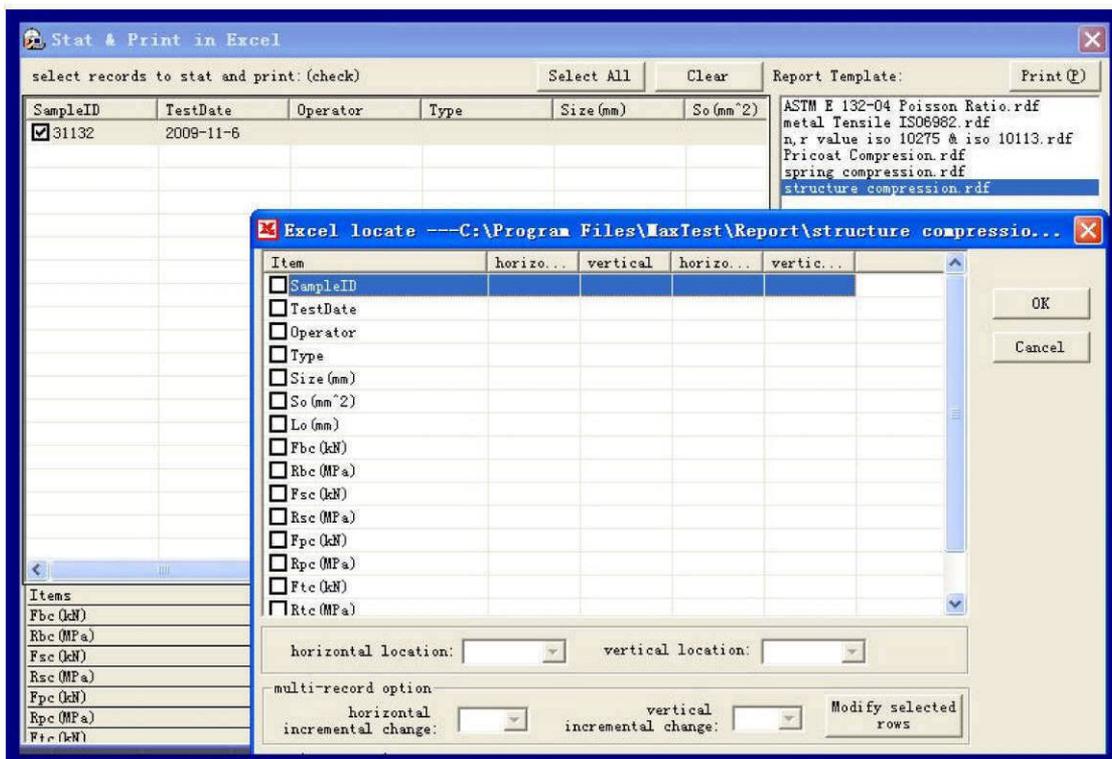
Through the Tensile Program Editor, user can setup test steps according to the requirements of standards.



Multiple curves function in real time display including Load-Extension, Load-Displacement, Stress-Strain, Load-Time, Extension-Time, and Width-Extension.

Characteristic points such as Elastic Modulus, Yield points, Rp, Rm etc. can be marked on the curves, for a highlighted and visual observation.

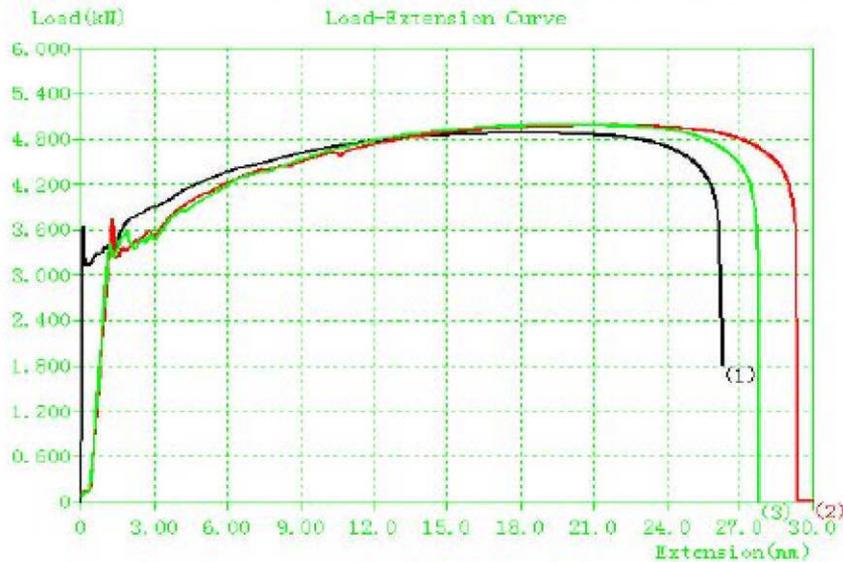
Test result can be obtained automatically and also it can be got from the test curves manually.



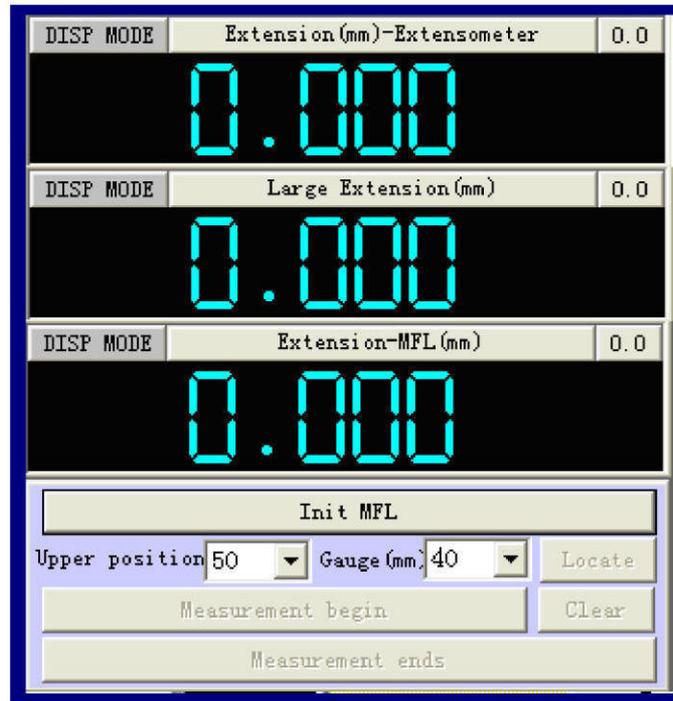
TE software contains all kinds of Report Templates. Customer can design various testing reports according to the requirements. Test result and curve can be printed in Excel or the auto-creating report template.

Metallic materials -- Tensile testing at ambient temperature
ISO 6892 : 1998

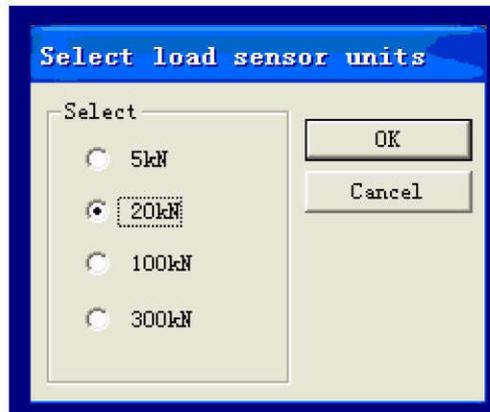
TestDate	2009-9-11	Operator	LW					
Temperature	20℃	Size(mm)	14.9*1					
Lo(mm)	50	So(mm^2)	14.9					
PrintID	SampleID	Rm(MPa)	ReH(Mpa)	ReL(MPa)	Rp(MPa)	E(GPa)	A(%)	Z(%)
1	QD01	327	245	210	233	193	39	21
2	QD02	334	251	223	234	198	42	23
3	QD03	335	240	229	228	205	38	27
4								
Max value		335	251	229	234	205	42	27
Min value		327	240	210	228	193	38	21
Average value		332	245.3333	220.6667	231.6667	198.6667	39.6667	23.667



Print Date: 2009-12-8



Except the clip-on Extensometer, TE software supports Long Travel Extensometer, Full Automatic Extensometer, video Extensometer, laser Extensometer, and it can be added eight Extensometers at most.



TE software supports four load cells.