TMA-WDW-50E Computer Control Electronic Universal Testing Machine

1. Brief Information

Model TMA-WDW-50E computer control electronic universal testing machine is designed and manufactured according to ASTM, ISO, DIN, etc. Standard. It is computer-controlled precision testing machine, suitable for wide range of material for tension compression, bending and shearing test. It has high stability as well as high precision, equipped with PC system& printer for graph, test result display, test control as set program, printing & data processing. Complete with modulus for metal, spring, textile, rubber, plastic and other material testing & creep test. It is widely used in many fields such as industry factories, mineral enterprise and high schools.

Picture for reference

2. Features

- with remote control box to realize speed control of crossbeam, flexibly and freely switched. It can display load, displacement, peak, speed.

- with function of automatic return to original position, intelligently, efficiently, quickly;
- with limit protection function of any working position and over voltage, over current protection functions, reliable, safe;
- with strong test data, which can save, inquire and retrieve test data anytime.
- with many control modes of constant speed control to force, stress, deformation, strain, stroke, load, elongation, displacement and low cycle and user self-programming control;

switch among many test curves: stress-strain curve, load-deformation curve, load-displacement curve, load-time curve, deformation-time curve, displacement-time curve, load-strain curve, partial enlargement, overlap and comparison.

3. Technical Specification

Mode	TMA-WDW-50E
Load capacity	50KN
Grade/class	Class 0.5

Measuring range of load	1%-100%FS
Relative error of indication	±0.5%
Load resolution	1/±300000FS
Measuring range of deformation	0.2%-100%
Speed control range of displacement	0.005-500mm/min
Speed control accuracy of displacement	Within ±0.2% of the set value
Travel of cross beam (without grips)	1000mm
Test span	400mm
Motor power of machine	750W
Working voltage	240volts, Single phase, 50 HZ
Dimension of loading machine (W*D*H)	Approx. 950*640*1850mm

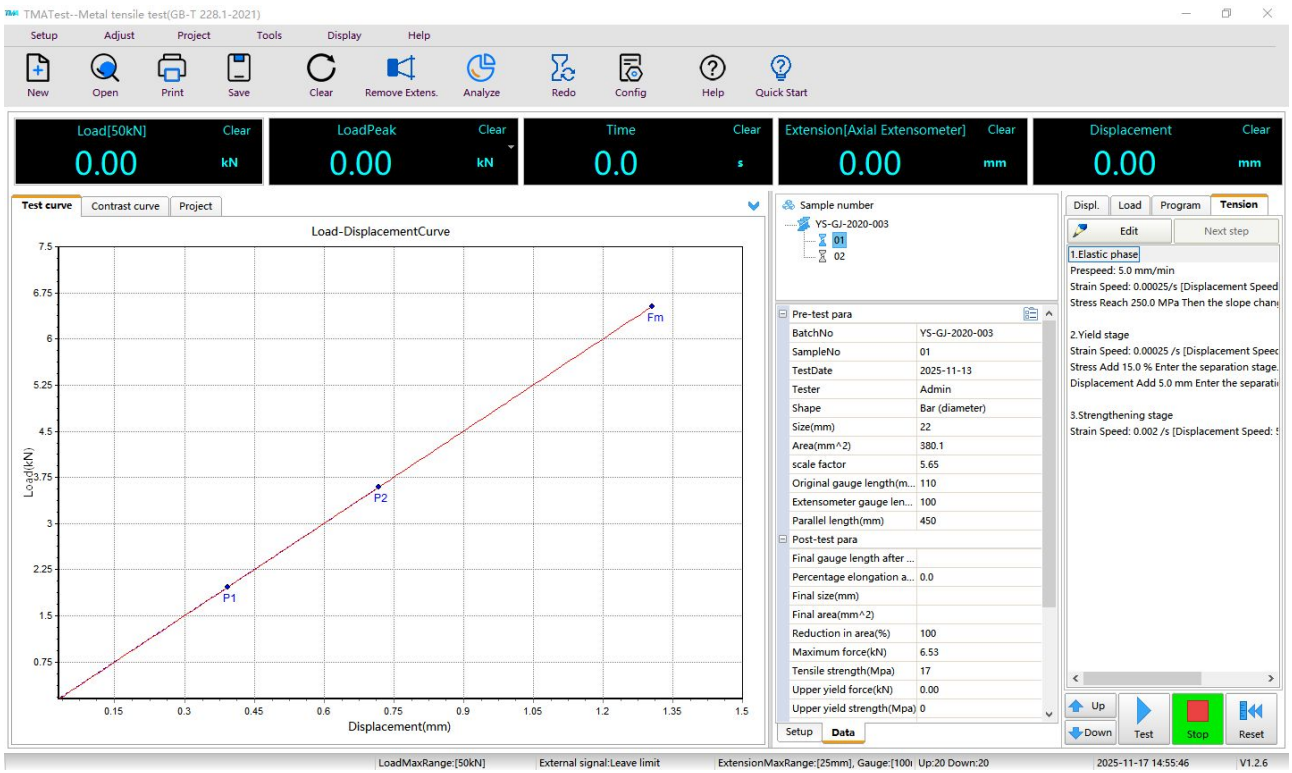
4. Standard Configuration

No.	Content	Details	Qty.
1	Load frame	Aluminum alloy cover with streamline design High intensity testing machine structure and cross head High stiffness to assure accuracy	1set
2	Servo motor and drive system		1set
3	Precise load cell	50kN	1 pc.
4	Hand-held controller	For control of the movement of the cross head	1pc.
5	Tensile test fixture	Wedge grips Flat jaws: 0-7mm, 7-14mm Round jaws: Φ4-Φ9mm, Φ9-Φ14mm	1set 2sets 2sets
6	Compression test fixture	Pressure platens Φ100mm	1set
7	Computer	Brand: Lenovo With Latest original English operation system	1set
8	TMATest software	Special for electronic UTM	1set

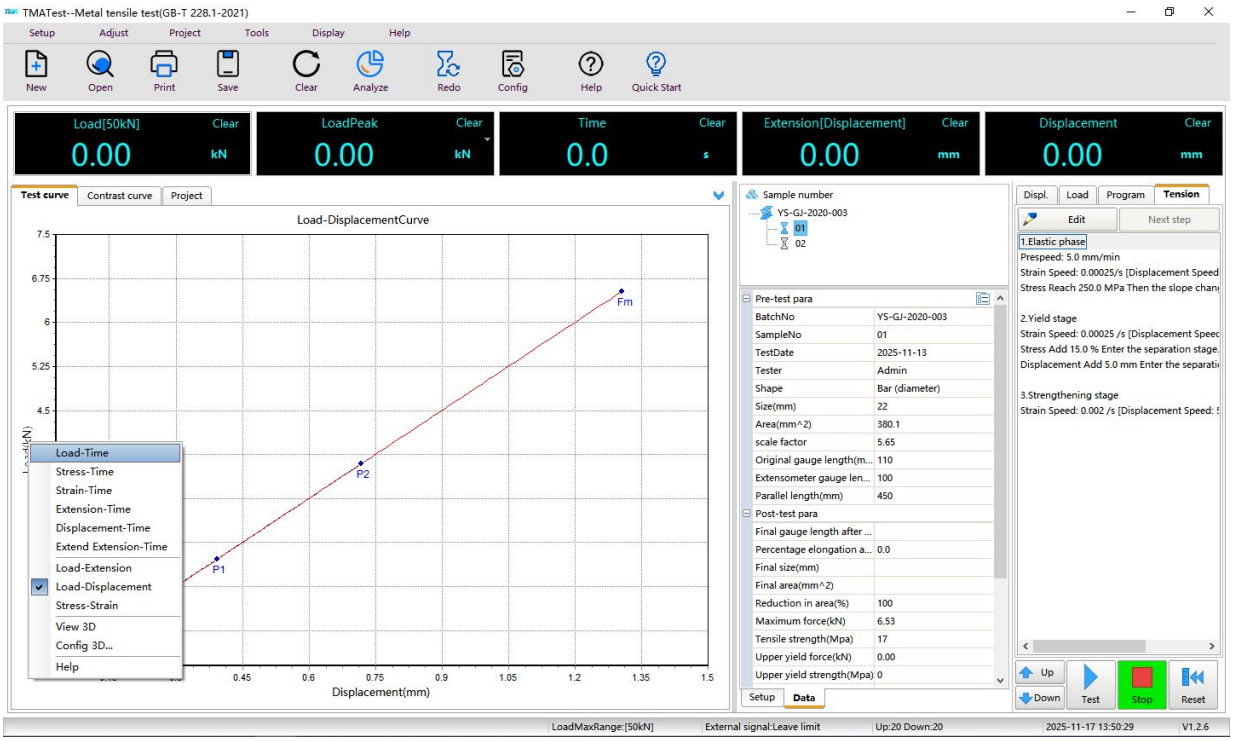
9	Documents	User manual, electrical diagrams, certificate, etc.	1 set

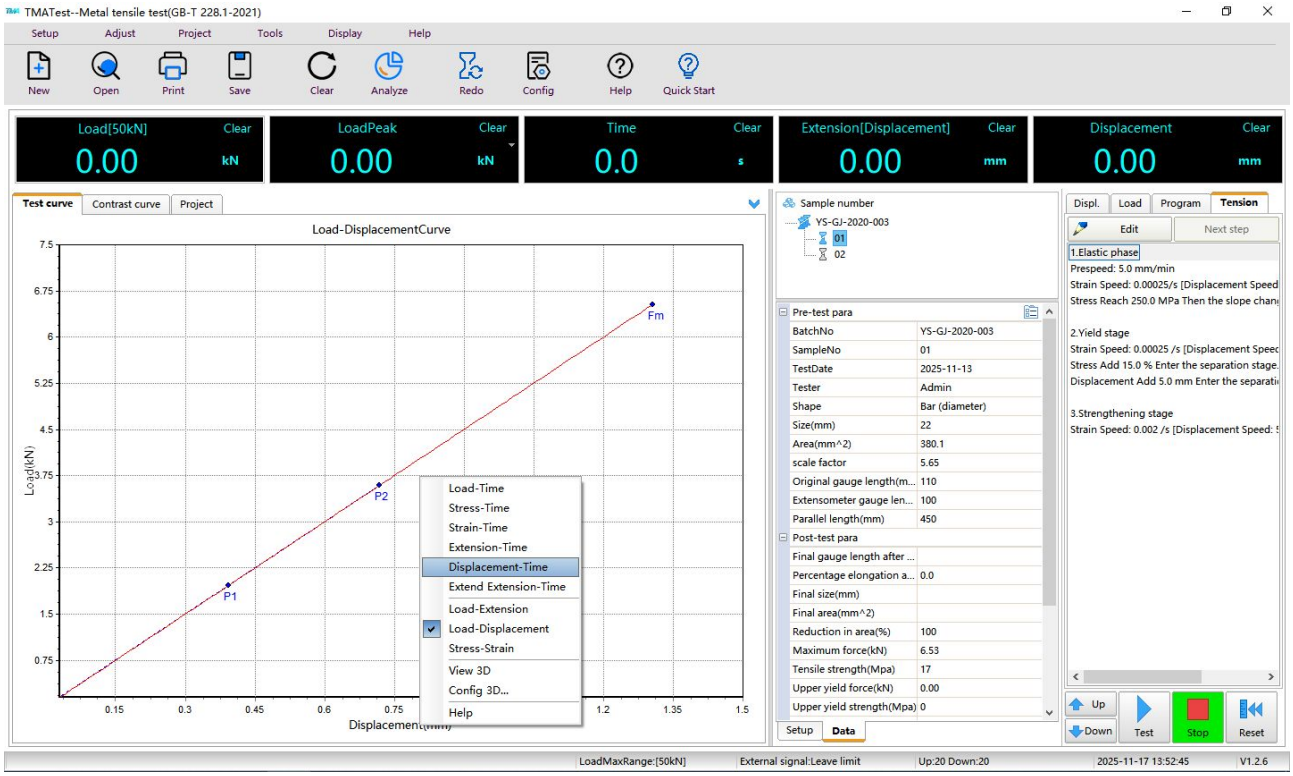
5. TMATest Software Introduction

- It is designed with simple and attractive test interface and test data and curves can be recorded and displayed in real time.

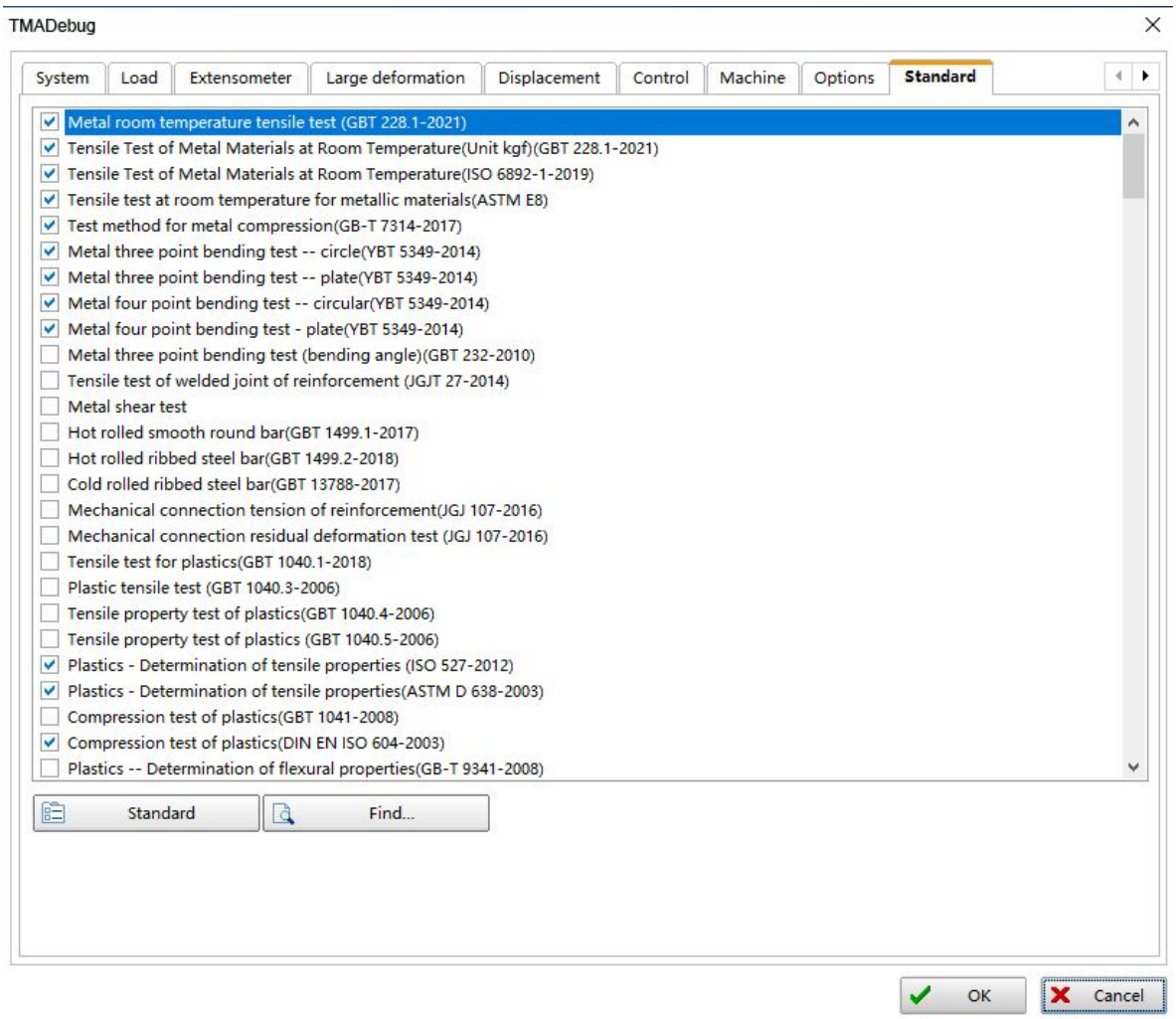


- It can support multiple load cells and extensometers.
- Users can select required test curves, such as Load-Displacement, Strain-Displacement, etc.

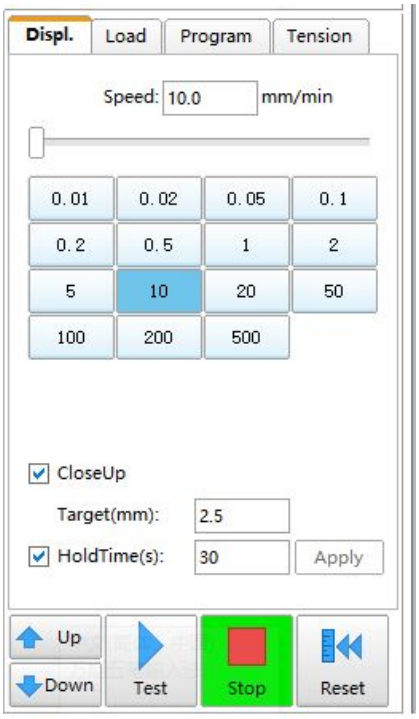




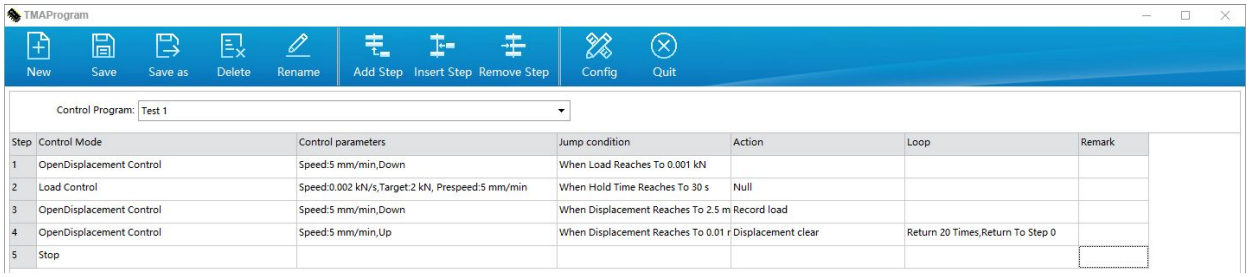
- The software fully compliance with the corresponding international standards like ISO, ASTM and BS EN etc. and also we can program your test standards into our software.

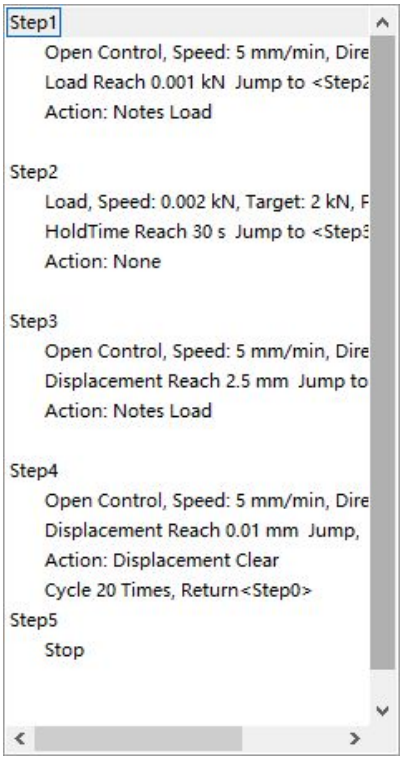


- It has different control modes and closed-loop control is feasible.

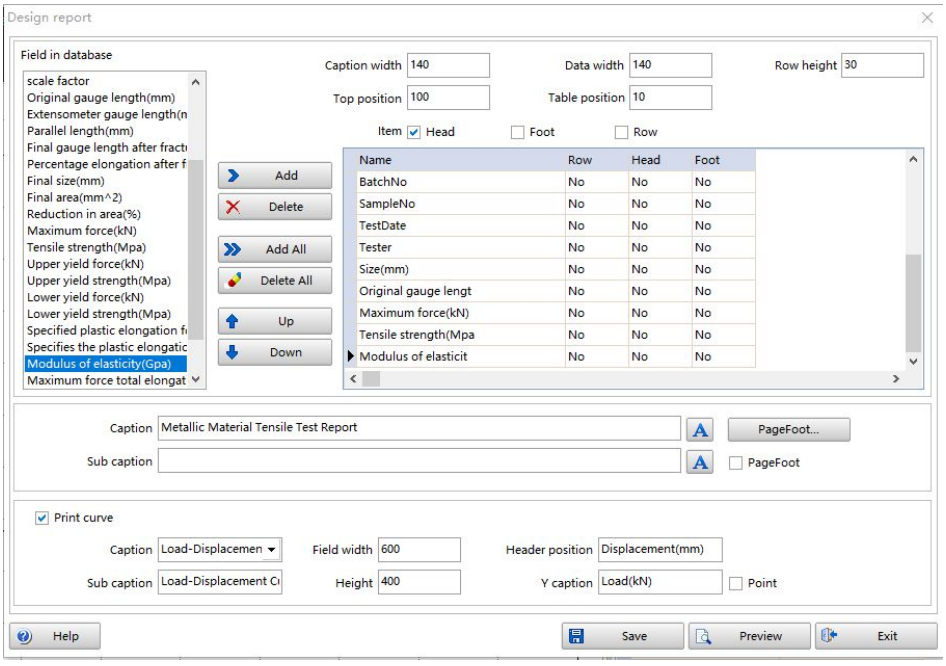


- Users can program test procedure as their own requirements.

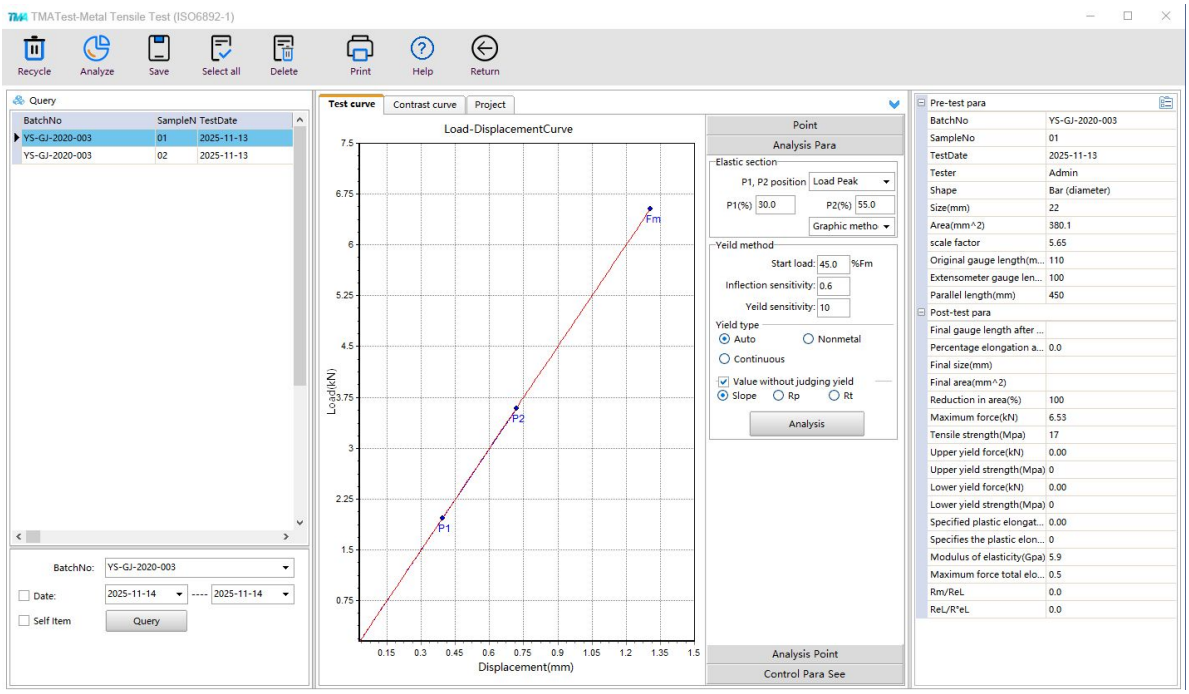




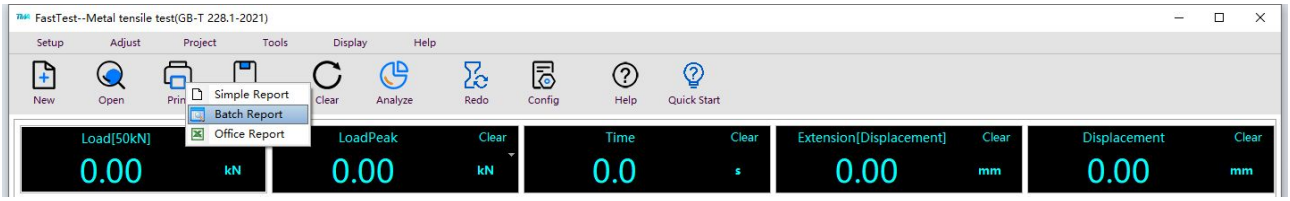
- Users can edit test report by adding or delete items as their own requirements

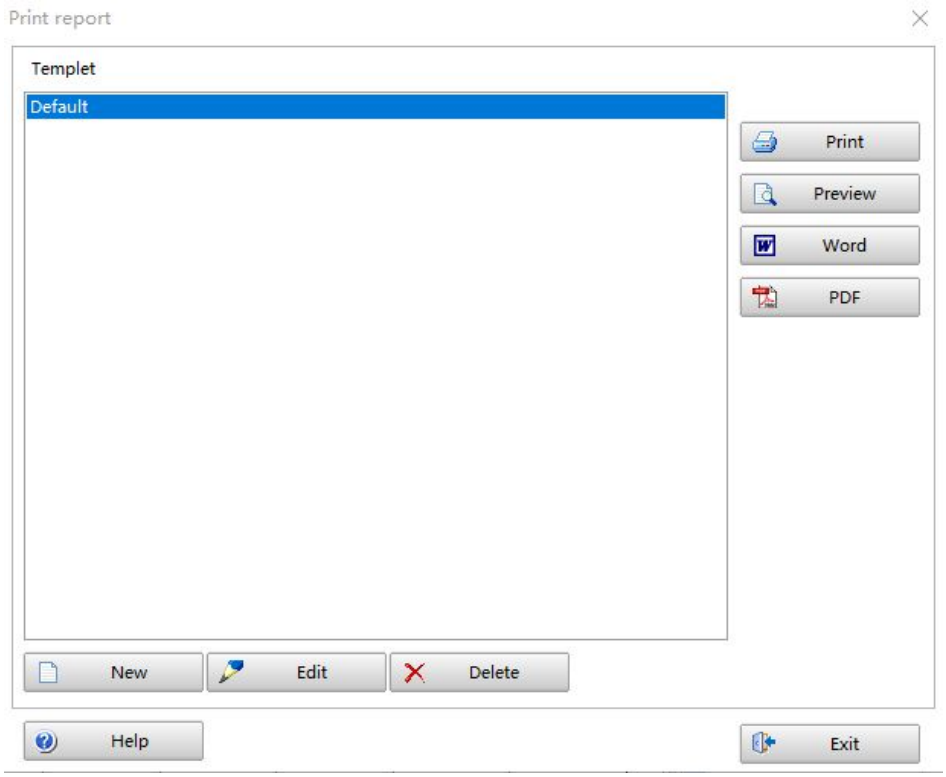


- Users can quickly inquire previous test data by using data inquiry module.

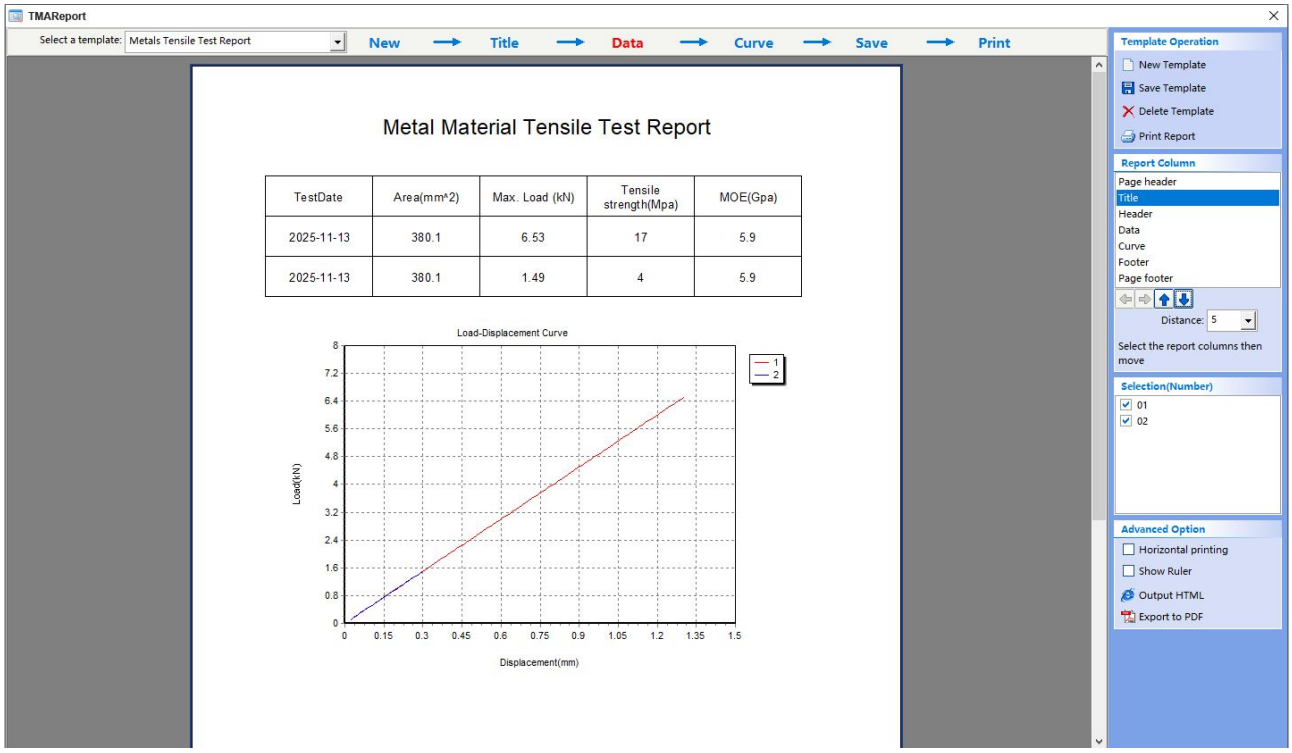


- Users can select test report template: single, batch or office.



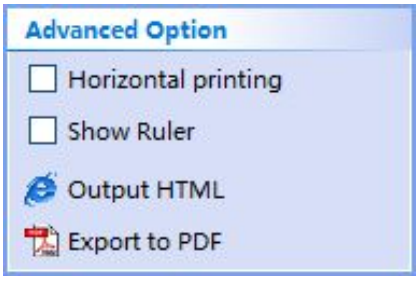


Single Report

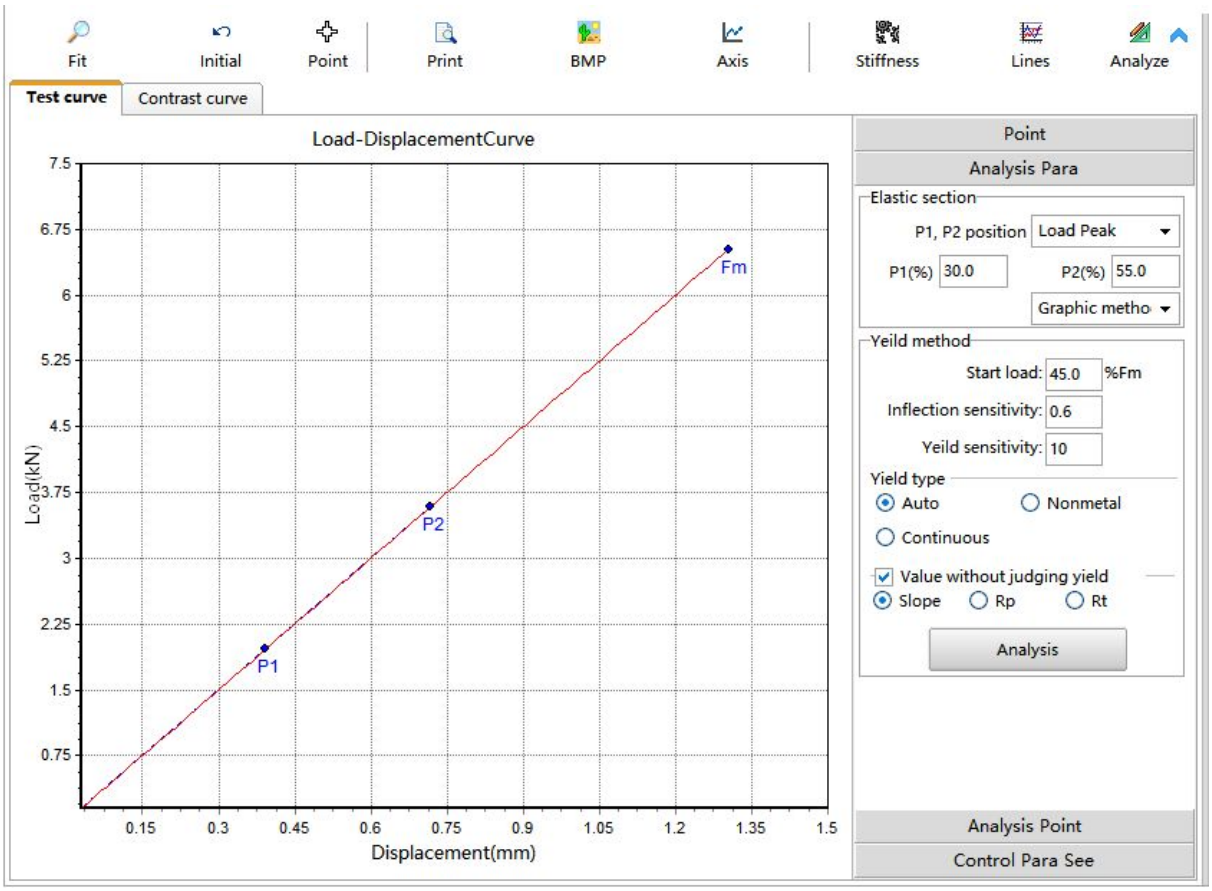


Batch Report

- Batch reports can be displayed in one paper and also can be output in PDF or HTML format.



- The software automatically figure-out routine data such as tensile strength, yield strength, modulus of elasticity, extend rate after rupture, non-proportional extend strength etc.



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