

**QC-50AM1F & 500M1F (500 ~ 600kN)****COMPUTERIZED TENSILE (COMPRESSION) TESTING MACHINE****Standard**

ISO 7500-1, JIG475-88 , ASTM E4 , DIN5122 , JIS B7721/B7733 , EN 10002-1,EN 1002-2,BS1610,GB228

**Description**

This serial model is capable for the capacity that above 500KN test. It is design for tensile test, compression test, bending test and all kind of test. The UTM with high torque servo motor and high rigidity, high strength provide the motion and power. Effectively decrease the maintenance fee, also extend the life time of machine.

It is suitable for Metal, Composites and Architecture industry. Also provide the quiet testing environment and high accuracy test result. Support precision hand wheel to control the movements of the machines. Use precision positioning and the calibration of machines is more convenient to user. Also, could reduce overload situation. Can be stand-alone to processing simple test. Increase the usability of the machine in a variety of different environments.

**Industry**

Plastic, Textile, Metal and Architecture.

**Appearance**

## Specification

Model	50AM1F	500M1F
Max. Capacity	600 kN	500 kN
Units	Force: gf, kgf, lbf, N, kN, ozf, tonf(SI), ton(long), tonf(short) Pressure: Kpa, Mpa, psi, bar, mm-Aq, mm-Hg	
Force Resolution	31 bits	
Force Precision	1/100,000	
Test stroke(w/o grip)	1500 mm	
Stroke resolution	0.0001 mm	
Space between columns	550 mm(680mm, 800mm Optional)	
Speed range	0.2 ~ 330mm/min (adjustable)	
PC-Port	RJ45(TCP/IP)(software optional)	
Data sampling rate	Max.400Hz	
Hardware safety protection	upper limit, lower limit, emergency stop button	
Motor type	Servo Motor	
Feature	※Automatic reading of load cell feature information ※Automatic reading of displacement sensor feature information ※force display, displacement display, time display, stress display and strain display ※External analog input (2-channel simultaneous reading of voltage or current) ※Test force automatically zero ※Test force self-defined calibration ※Break detection ※Automatic return ※Force overload protection	
Power Supply	3 phase 200~240 VAC · 70 A	
Dimension of Machine	145 x 85 x 295cm	

Weight of Machine

2350kg

## Optional Accessory

### (1) Displayer:

1. Adopted with 7- inch of TFT Color touch screen
2. Chinese, English, Japanese, Three different languages can be selected.
3. Data Display: Force, Stress, Torque, Displacement, Time
4. Test setting, can set test speed, test direction, automatic position return, breaking point machine stop.
5. Data analysis, can read the maximum force, internal force, breaking point force and so on.
6. Can be stand-alone calibration.
7. Various machine shutdown conditions setting (force, displacement, time, elongation).
8. Can be restored to the original factory state.
9. Unit selection can be Metric unit, Imperial units
10. Over-travel, overload protection and overtime machine stop
11. Can store up to 50 data, USB storage data function.
12. Support multiple sets of signal sources.



## (2) Extensometer

① **QC-557 Short extensometer** which is applied in under 50% of elongation test.



② **QC-551 Long extensometer** which is applied in over 20% of elongation test.

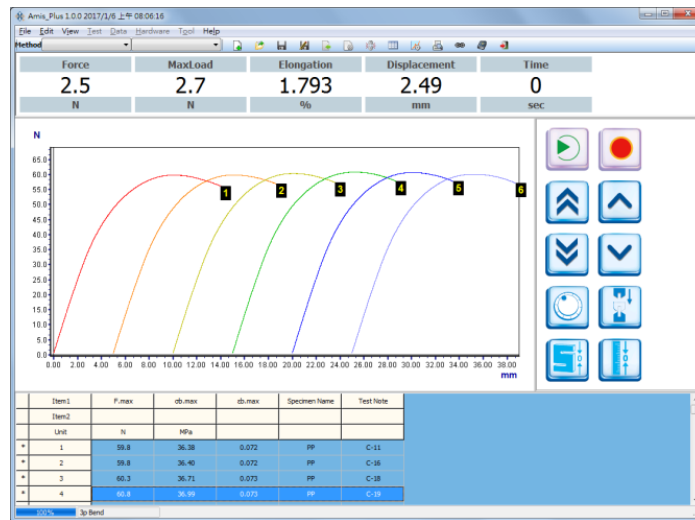


## Software Function

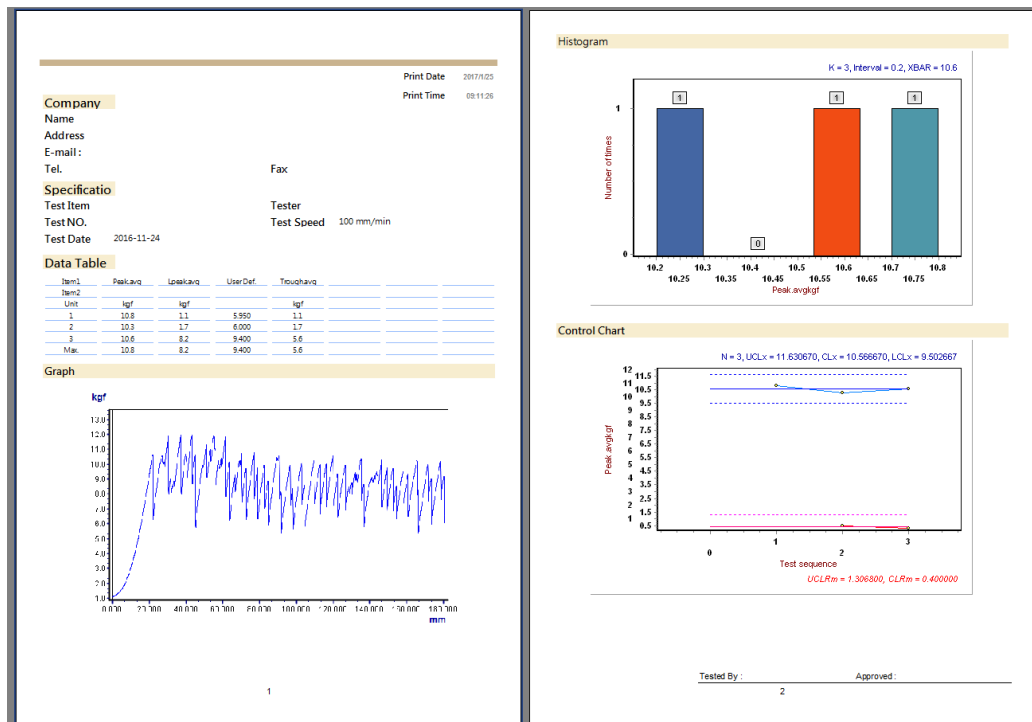
1. Data sample rate faster can be set up to 400Hz
2. Operation method: By keyboard and mouse control test, can also through up and down button to adjust the fixture position
3. Compatible with Window 7 /8 /10 system
4. Software has multi-languages with Chinese, English, Japanese, Korean, Spanish and Polish display
5. Operating mode: TCP/IP interface, two-way transmission, the computer directly control the machine action
6. Can import multiple test data display simultaneously.
7. Unit selection can be Metric unit and Imperial units.
8. Form flexibility, self-planning information analysis
9. Data name can be self-set and can self-defined formula
10. Test Screen can be selected data display, graphic display or simultaneous display
11. Data processing: store, call, list, statistical comparison, etc.
12. Graph X-Y axis physical quantity adjustment, graph-specific mark, interval mark, slope and son on.
13. Test tensile, compression, bending, peeling, spring and other tests
14. Software protection: Overload, over -displacement, over-time protection
15. Variety of test actions, Ex. hold tensile (compression), 10 grades of the actions.
16. Modularization of specimen setting, providing easy to set specimen.
17. Modularization of test conditions to reduce artificial setting negligence and error.
18. Key data capture, can set the upper and lower limits of test data specifications
19. Support multiple sets of I / O signals, increase testing mechanism

## Software

### (1) Software interface



### (2) Report



\*Cometech reserves ultimate modification right of product specification.

1<sup>st</sup> version, 2017

