



Universal Testing Machine

QC-50AM2F & 500M2F (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 and Architecture industry. Also provide the quiet testing environment and high accuracy test result.

Go with Cometech specialist M2F testing software which is used Windows 7/8 of Person computer. It can do tensile test, compression test, bending test and all kind of test. The software with multi-languages is very easy to operation. It also has all kind of metric units, real-time graphs and also provides complete analysis test data which finish test can do variety of material analysis.

Standard equipped with sophisticated hand wheel which can be in precision position. The external signals can connect an external test signal function to expand to machine operating modes.

Industry

Plastic 、 Textile 、 Metal and Architecture.

Specification

Model	QC-50AM2F	QC-500M2F
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	



Universal Testing Machine

Space between columns	550 mm
Speed range	0.0002 ~ 330 mm/min
Speed accuracy	High speed mode
	0.02 ~ 330 mm/min
	Low speed mode
	0.0002 ~ 2 mm/min
PC-Port	RJ45 (TCP/IP)
Data sampling rate	1200Hz (Max.)
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 200V -240 V, 70A
Dimension of Machine	155 x 85 x 295 cm
Weight of Machine	Around 2350kg

Appearance





Universal Testing Machine

Optional Accessory

(1) Grip & Load Cell

Each test will require different test grips and accessories for the plastics, metal, biomedical, composite, elastomer, component, automotive, aerospace, textile and other applications industries.

- ★Tensile grip
- ★Compression grip
- ★Bending grip
- ★Peeling/Tearing grip
- ★Film friction grip
- ★Load cell



(2) 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.





Universal Testing Machine

(3) Extensometer

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



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 1200 Hz
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 system
4. Software has multi-languages with Chinese, English, Japanese, Korean and Spanish 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, creep and other tests
14. Software protection: Overload, over -displacement, over-time protection
15. Variety of test actions, ex. reciprocation, creep, hold tensile (compression), test pause, slip test, etc.
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

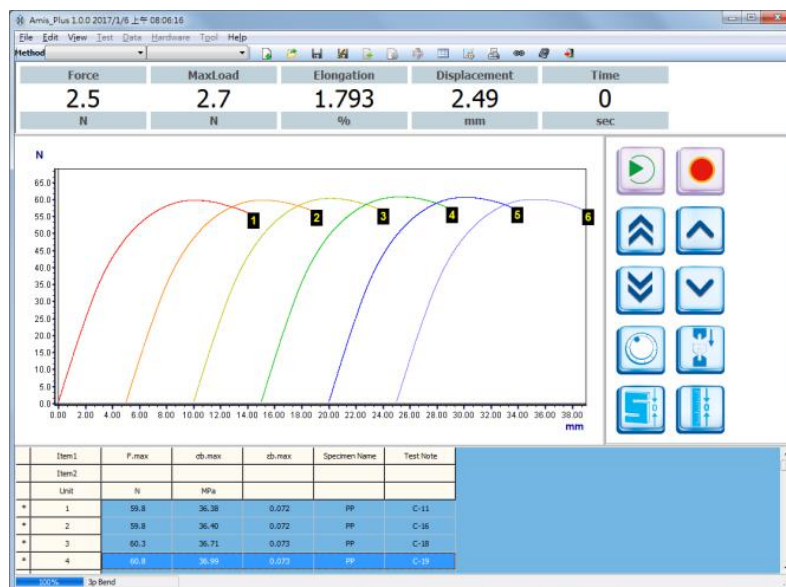


Universal Testing Machine

19. Support multiple sets of I / O signals, increase testing mechanism

Software

Software interface



Report

Company

Name Comotech Testing Machines Co., Ltd.

Address No.49, Ln. 39, Liancun Rd., Fengyuan Dist, Taichung City, 42082

E-mail :

Tel. +886-4-25368881

Fax +886-4-25368883

Specification

Test Item ASTM D790

Tester Kevin

Test NO. 001

Test Speed 1.3 mm/min

Test Date 2016-07-01

Test Time 15:32:10

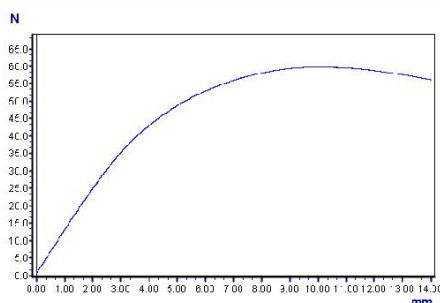
Gauge Length 1 mm

Section Area 40.192 mm²

Data Table

Item1	F.max	db.max	cb.max	Specimen Name	Test Note
Item2					
Unit	N	MPa			
1	59.8	36.38	0.072	PP	C-11
2	59.8	36.40	0.072	PP	C-16
3	60.3	36.71	0.073	PP	C-18
4	60.8	36.99	0.073	PP	C-19
Mean	60.2	36.62	0.073		

Graph



*Comotech reserves ultimate modification right of product specification.





Universal Testing Machine