

**QC-501M2F, 502M2F, 503M2F (100 ~300kN)
UNIVERSAL MATERIALS TESTING MACHINE**

Standard

ISO 7500-1, ASTM E4 , ASTM D-76, DIN5122 , JIS B7721/B7733 , EN 1002-2,
BS1610,GB T228

Description

This serial model is capable for the capacity that above 100KN test. Qualify ASTM 、ISO 、JIS 、GB standard with material and end product. High rigid frame structure and precise servo motor transmission parts supply that offer stable machine operation for our UTM. Suitable for plastic 、Textile 、Metal 、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 tests. 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.

The separation design of the UTM and the controller make the Maintenance lot easier in the feature. Effectively decrease the maintenance fee, also extend the life time of machine.

The speed of M2F system is capable for 0.0001-375mm/min to increase the testing range. And satisfy more standard requirement.

Industry

Plastic, Textile, Metal and Architecture.

Appearance



Specification

Model	501M2F	502M2F	503M2F
Max. capacity	300 kN	200 kN	100 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)	1100 mm		
Stroke resolution	0.0001 mm		
Space between columns	550 mm(680mm,800mm optional)		
Speed range	0.0001 ~ 330 mm/min	0.0001~375 mm/min	
Speed precision	High speed mode:		
	0.02 ~ 330 mm/min	0.2 ~ 375 mm/min	

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	Low speed mode:		
	0.0001 ~ 1 mm/min	0.0001 ~ 2 mm/min	
PC-Port	RJ45(TCP/IP)(Connect software optional)		
Data sampling rate	1200Hz (Max.)		
Hardware safety protection	upper limit, lower limit, emergency stop button		
Motor type	Servo motor		
Feature	<ul style="list-style-type: none"> ※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 ※Loadcell anti-collision mechanism (lower damage rate) 		
Power Supply	3 phase200~2 40 VAC · 30 A	3phase200~240 VAC · 20 A	Signal phase 200~240 VAC, 10 A
Dimension	145x66x235cm		135x60x220cm
Weight	1250 kg	1250 kg	800 kg

Optional Accessories

(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.



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

Software

Software interface



Report

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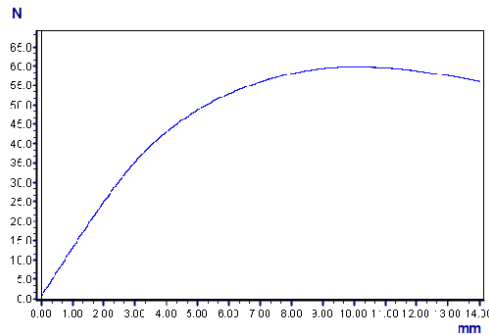
Name Cometech Testing Machines Co., Ltd.
 Address No.49, Ln. 39, Liancun Rd., Fengyuan Dist, Taichung City, 42082
 E-mail :
 Tel. +886-4-25368881 Fax +886-4-25368883

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	ob.max	eb.max	Specimen Name	Test Note
Item2					
Unit	N	MPa			
1	598	3638	0.072	PP	C-11
2	598	3640	0.072	PP	C-16
3	603	3671	0.073	PP	C-18
4	608	3699	0.073	PP	C-19
Mean	602	3662	0.073

Graph


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*Cometech reserves ultimate modification right of product specification.

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