

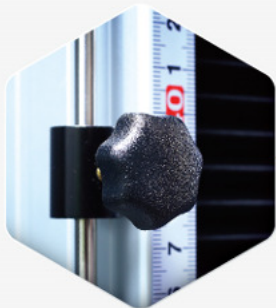
QC-501M2F, 502M2F, 503M2F (100 ~300kN) Computerized Tensile (compression) testing machine

Standard

ISO 7500-1, JJG475-88, ASTM E4, DIN5122, JIS B7721/B7733, EN 10002-1, EN 1002-2, BS1610, GB228

Industry

Plastic, Textile, Metal, Construction



Limit Switch



Up and down button



Jog controller

Description

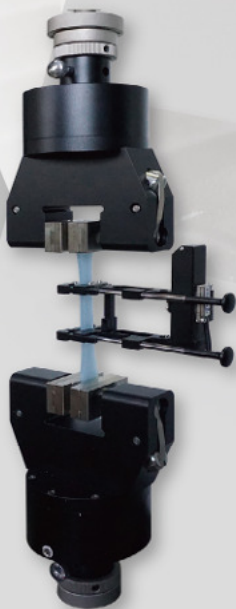
This serial model is capable for the capacity that above 100KN test. Qualify ASTM 、 ISO 、 JIS 、 GB standard with material and end product. High rigid frame structure and precise servo motor transmission parts supply that offer stable machine operation for our UTM. Suitable for Metal, Composite material, Architecture industry and other material with high strength. Also the machine provide a quiet testing environment and high accuracy test result.

With separate type control system, it can highly reduce the maintenance problem, reduce circuit interference occur and extend the machine service life. The speed range for M2F system is from 0.0001 to 375 mm/min. And satisfy more standard requirement. The machine is equipped with precise hand wheel to adjust the up and down forward movement slightly which is very suitable for positioning and load cell calibration usage.

Specification

Model	QC-501M2F	QC-502M2F	QC-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)	1100mm		
Stroke resolution	0.0001mm		
Space between columns	550 mm(680mm, 800mm optional)		
Speed range	0.0001~300 mm/min		0.0001~375 mm/min
Speed accuracy	High Speed : 0.02~330 mm/min		High Speed : 0.2~375 mm/min
	Low Speed : 0.0001~1 mm/min		Low Speed : 0.0001~2 mm/min
PC-Port	RJ45(TCP/IP)		
Data sampling rate	Max.1200 Hz		
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 information ※Automatic reading of displacement sensor information ※Force display, displacement display, time display, stress display and strain display ※External analog input (reading of voltage or current at the same time via two channels) ※Force zeroed automatically ※Force calibration based on user's preference ※Breaking point detection ※Automatic return ※Overload protection 		
Power Supply	3-phase200~240VAC , 30 A	3-phase200~240VAC , 20 A	phase 200~240 VAC, 10 A
Dimension	145 x 66 x 235cm		135 x 60 x 220cm
Weight	1250 kg		800 kg

Optional Accessories (Extensometer)



QC-557 Short Extensometer

For elongation lower than 50%

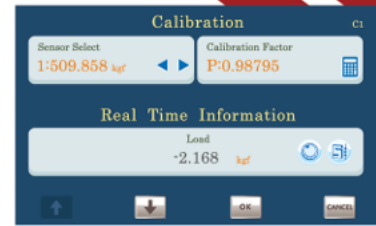


QC-551 Long Extensometer

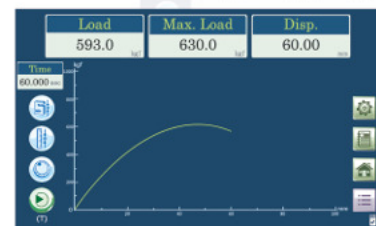
For elongation higher than 20%

Optional Accessories (Display)

- 7- inch of TFT colored touch screen
- Chinese, English, Japanese available
- Data display: Force, stress, torque, displacement, time
- Test setting can be adjusted: test speed, test direction, automatic return, stop at breaking point and so on
- Data analysis: Maximum force, interval force, force at breaking point and so on
- Settings to stop machine: Force, displacement, time, elongation
- Up to 50 data can be saved by USB
- Machine can be stopped at excessive displacement, capacity and time
- Machine can be rebooted
- Unit can be metric or imperial
- Multiple signals can be admitted
- Calibration on stand-alone mode



	Load	Max. Load	Disp.
	100.000	100.000	200.000
Time	Max. Load	Max. Displacement	Strength
60.000 min	kgf	mm	kgf/mm
1	10.000	10.000	10.000
2	10.000	10.000	10.000
3	10.000	10.000	10.000
4	10.000	10.000	10.000
5	99.000	999.000	9999.000
6	99.000	999.000	9999.000



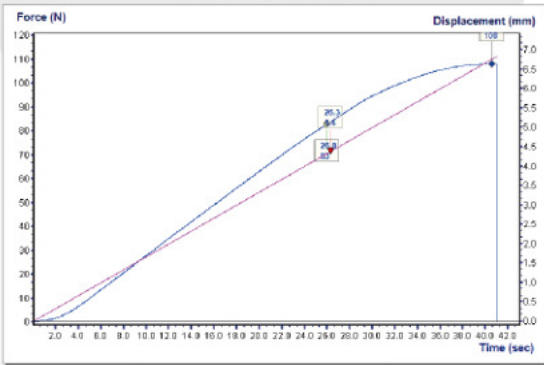
Software

- Controlled by mouse and keyboard. Grips can be moved by up/down buttons on the machine
- Chinese, English, Japanese, Korean, Spanish, Polish, Portuguese available
- Operation: TCP / IP two-way transmission. Machine controlled directly through PC
- Data's name can be modified and formula can be created
- Data can be shown through table, graph or both
- Multiple test data can be shown at the same time
- Flexible test table for user's preference
- Compatible with Window 7/8/10
- Data sampling rate up to 1200 Hz
- Modularization of specimen data
- Unit can be metric or imperial
- Multiple I/O signals can be admitted
- Data processing: Save, call, list, statistical comparison, etc.
- Graph's parameter on X-Y axis can be adjusted: point marked on curve, interval marked, slope
- Tensile, compression, bending, peeling, spring, creep and other tests available
- Protection from excessive displacement, capacity and time by software setting
- Various test patterns ex. reciprocation, creep, hold tensile (compression), test pause, slip test, etc.
- Modularization of test conditions to reduce unwanted mistake and errors
- Upper and lower limits on data settings for useful data



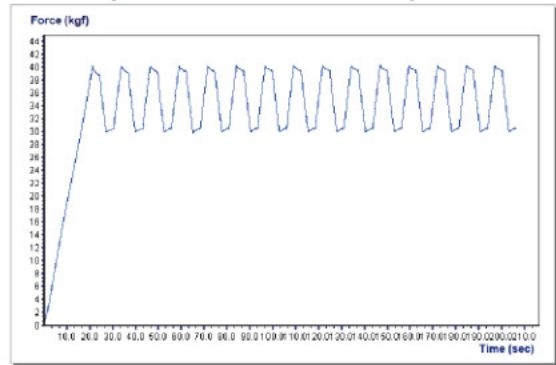
M2F feature

Double curve



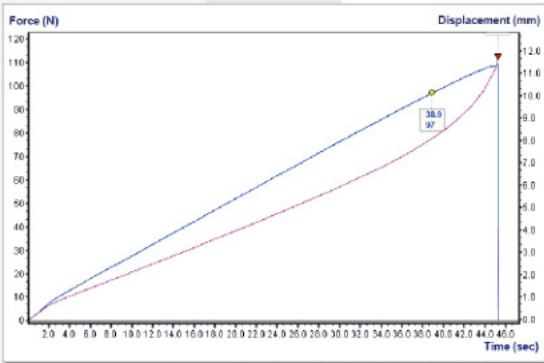
Double curves can be shown on M2F software. Different parameters are visible on real-time graph.

Test steps based on user's preference



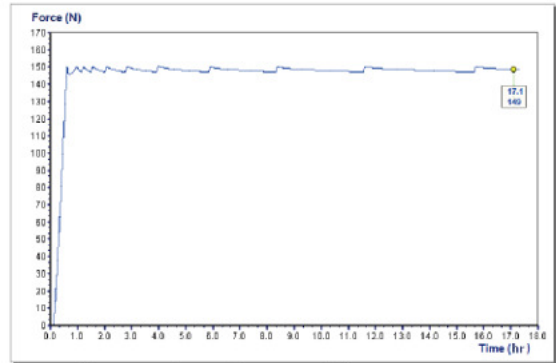
Complicated test settings on displacement, force, elongation, reciprocation, and so on are practicable by the sophisticated M2F controller.

Load control



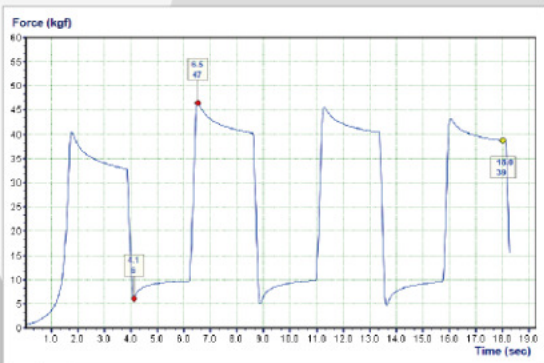
Load control is achievable by M2F controller. The system controls force increase rate for an instant adjustment on test speed by analyzing acceleration.

Steady force for a long period (creep)

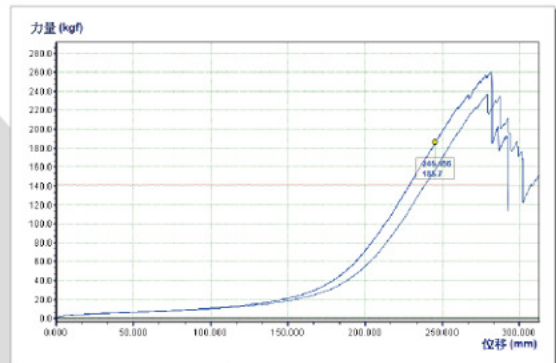


The test shows how an object reacts at a external steady force for a long period. When the force drops the system detects it and exerts extra force. The system reduces sampling rate to avoid unnecessary data storage in PC.

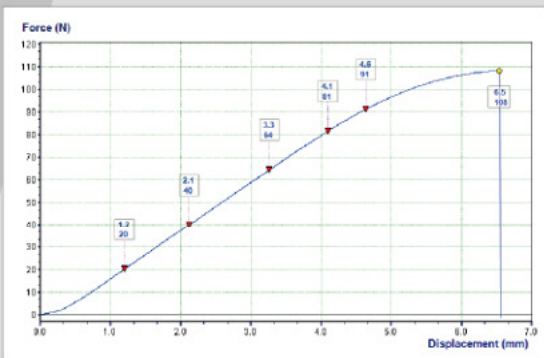
M2F specialties



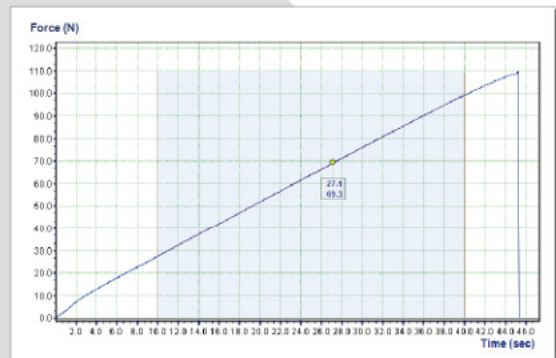
Data analysis in special test steps



Slip test for fabric material to obtain data under specified force and displacement

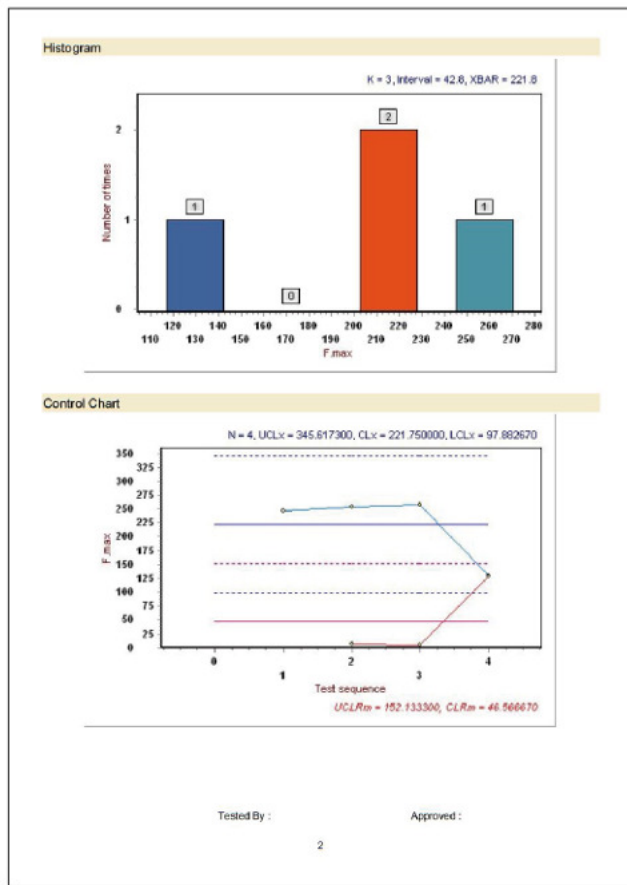
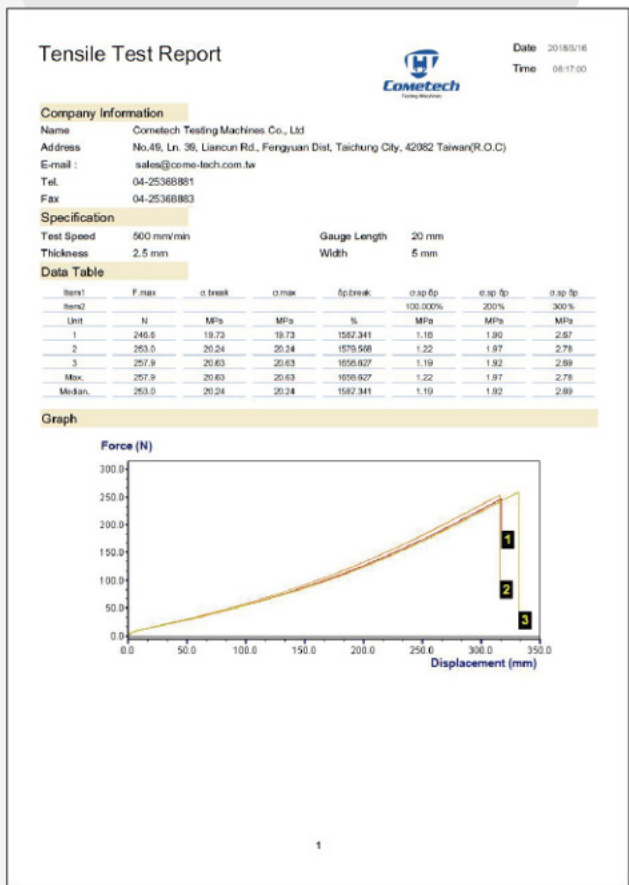


User marks specified data on the curve

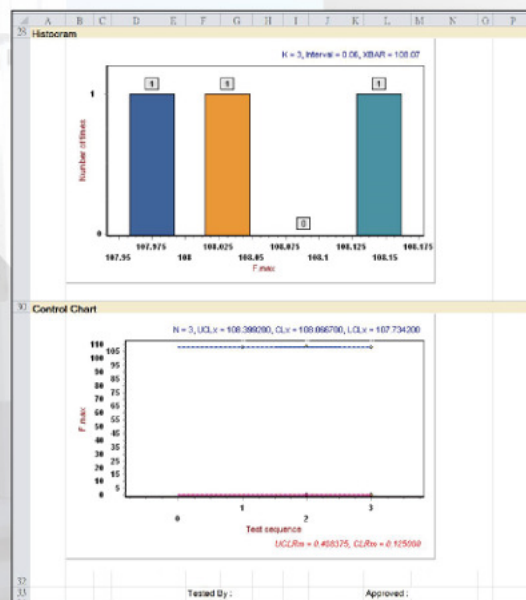
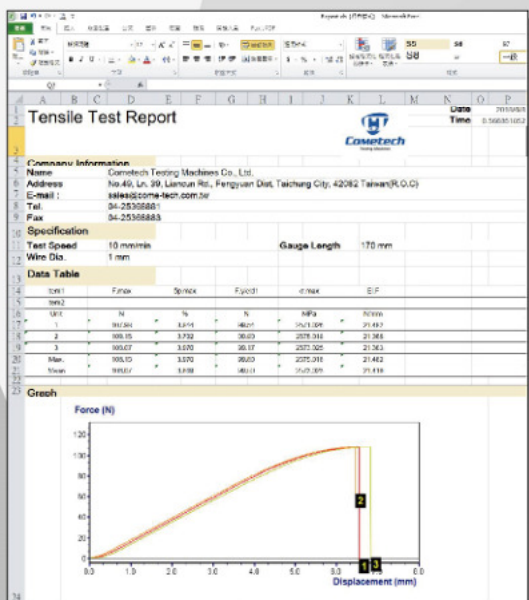


The software shows how change of force is relevant to change of length

Built-in format



Excel format



*Cometech reserves ultimate modification right of product specification.

COMETECH TESTING MACHINES CO, LTD.
 No.49,Ln,39,Liancun Rd, Fengyuan Dist, Taichung City420,Taiwan
 Tel:886-4-25368881 / Fax:886-4-25368883
 E-mail: sales@come-tech.com.tw
 URL: http://www.come-tech.com.tw

