

### Standard

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

### Industry

Plastic, Textile, Composites, Metal, Construction, and others



### Machine Description

This series is capable of conducting material and product tests that are above 100kN according to standards ASTM, ISO, JIS, and GB. The machine is equipped with Servo motor and precise transmission system.

The rigid and endurable structure makes the test more stable and reduces damages to the machine. This series of UTM can be applied to metal, composites, construction material, and other materials that require high test force.

Low noise operations and accurate test results are guaranteed.

The 7" TFT touch screen is an optional accessory to perform tests on a standalone basis. The ups and downs of the cross-head can be slightly adjusted by jog controller, which makes the process of calibration and positioning more convenient and safe, thus preventing overload. The speed range is 0.2-375 mm/min, which conforms to various standards.

## Machine Specification

Model	QC-501M1F	QC-502M1F	QC-503M1F
Max. Capacity	300 kN	200 kN	100 kN
Unit	Force : gf, kgf, lbf, N, kN, ozf, tonf(SI), ton(long), tonf(short) Pressure : Kpa, Mpa, psi, bar, mm-Aq, mm-Hg		
Force Resolution	1/50,000 (31 bits)		
Force Precision	±1% (within 2%-100% of load cell capacity; higher accuracy is optional)		
Test Stroke (w/o grips)	1100 mm		
Stroke Resolution	0.0001 mm		
Cantilever Distance	550mm (680mm, 800mm are optional.)		
Speed Range	0.2 ~ 330.0 mm/min		0.2~375.0 mm/min
Speed Precision	±1%		
PC-Port	RJ45 (TCP/IP) [Software is optional]		
Data Sampling Rate	Max. 400 Hz		
Motor	Servo Motor		
Machine Stiffness	388.60 kN/mm		85.10 kN/mm
Hardware Safety Protection	Upper/Lower limit, Emergency Stop Button		
Software Safety Protection	Force, Displacement, Time Protection		
Power	3 Phase 200~240VAC , 30 A	3 Phase 200~240VAC , 20 A	Single Phase 200~240VAC , 10 A
Dimension	140 x 66 x 235 cm		120 x 60 x 220 cm
Weight	1250 kg		800 kg

## Machine Feature

- Supports auto-identification load cell parameter.
- Supports auto-identification displacement accessories parameter.
- Provides screw holes for future multi-usage of other fixtures.
- The jog controller can adjust the displacement precisely and be more convenient for calibration.
- No specification limitation of PC for connecting software. It's easy for PC maintenance.
- Maximum 10-stage speed setting in one test.

## Optional Accessories - Extensometer



**QC-557 Short Extensometer**

Suitable for elongation below 50%



**QC-551 Long Extensometer**

Suitable for elongation over 20%.



## Optional Accessories - Display panel

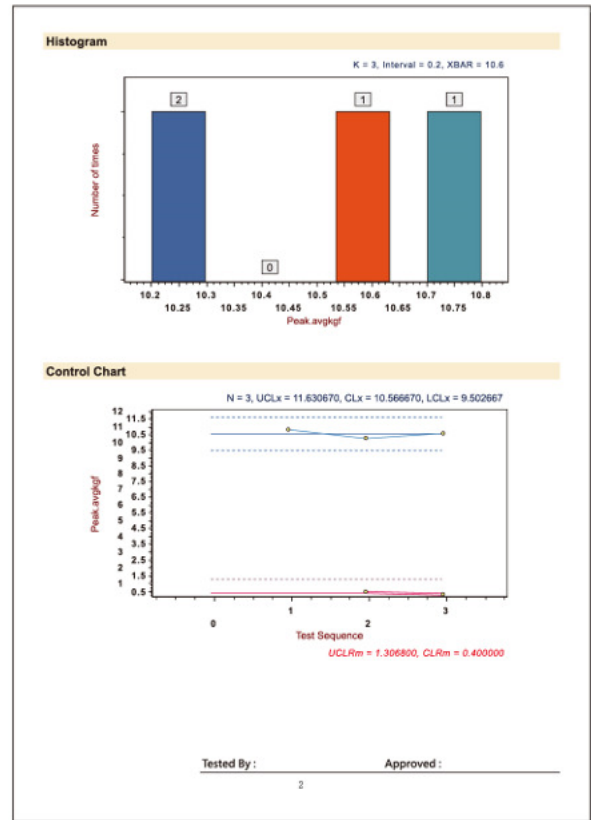
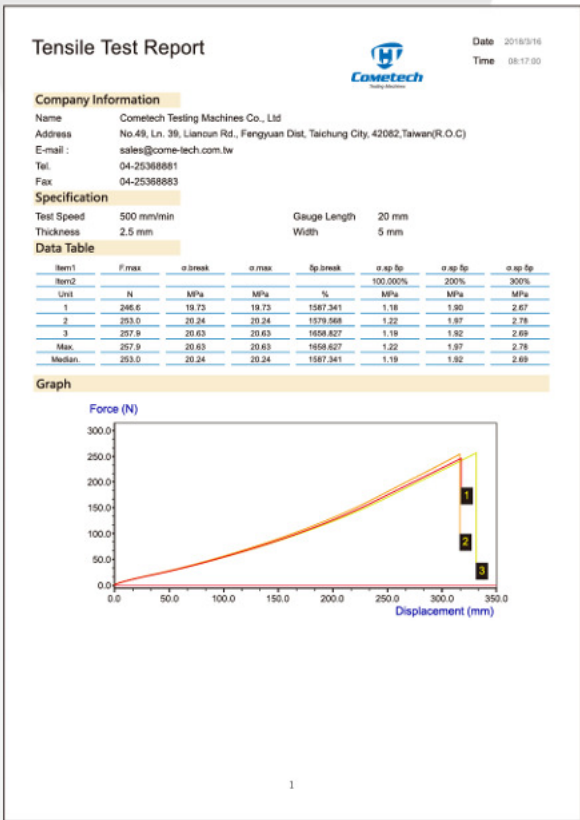
- 7" color touch TFT display panel is used.
- Chinese, English, Japanese are supported.
- Displays force, pressure, displacement and time.
- Can perform test condition settings: test speed, direction, auto-return, stop at the break point.
- Can analyze max. force, interval force, force at break point, and so on.
- Provides multiple stopping point settings: force, displacement, time and elongation.
- Supports over travel, overload, overtime stop protection settings.
- Can save up to 50 test results; it also supports saving to USB.
- Restore the machine to factory setting is available.
- Can calibrate under stand-alone mode.
- Supports switching between Metric and Imperial units .



## Optional Accessories - Software

- The data sampling rate is up to 400 Hz.
- Controlled by mouse, keyboard and the up/down button on the machine to quick-adjust the position of grip.
- Windows system required.
- Chinese, English, Japanese, Korean, Portuguese, Polish, Spanish and Russian are available.
- Operation Mode: TCP/IP two-way transmission to connect with PC.
- Can import multiple test data and display at the same time.
- Supports switching between Metric and Imperial units .
- Provides a flexible table for data analysis.
- Can name the data results and create a user-defined formula.
- Data can be shown through the table, graph, or both.
- Data processing: save, import, list, statistical comparison, and so on.
- The X-Y axis of the graph is adjustable including marks on the curve, interval marks, slope, and so on.
- Tensile, compression, bending, spring, and other tests are available.
- Supports over travel, overload, over time stop conditions as machine protection
- Supports various test patterns such as constant tensile (compression) and 10-stage setting.
- Specimen modular design is for easy and quick specimen information setting.
- Test condition modular design can reduce human setting error.
- Supports upper and lower limits for data selection to get the key information.
- Supports multiple I/O ports for the additional test functions.





\*Cometech reserves the right to modify product specification.

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