

Standard

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

Industry

Rubber, Plastic, Paper, Textile, Metal, Wood, Tape, Electronics, Package, Medical, Construction and others



Machine Description

The single-column tensile (compression) machine has relatively compact size, taking up less space. The machine is equipped with servo motor, ball screw and is suitable for test that requires capacity below 2kN. Test stroke can be adjusted for different dimensions of sample; different sorts of grips are available for diverse tests.

The M1F special test software is compatible with the Windows system, and can perform various functions such as tensile (compression) force test, bending test, peeling test, and hold tension (compression). The software operation is simple and easy to learn, with multiple languages, various metric and English unit choices, real-time graph display, and provides complete test analysis data, report planning, complete analysis or archiving after the test is completed. This tester can also be equipped with a display for stand-alone operation to capture effective test data quickly.

Machine Specification

Model	QC-548M1F-S	QC-548M1F-M
Max. Capacity	5 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	Class A: $\pm 0.5\%$ (0.2~100% of the load cell capacity) Class B: $\pm 1\%$ (1~100% of the load cell capacity)	
Test Stroke (w/o grips)	400 mm	800 mm
Stroke Resolution	0.0001 mm	
Cantilever Distance	80 mm	
Speed Range	0.2 ~ 2000.0 mm/min	
Speed Precision	2.0~2000.0 mm/min $\pm 0.5\%$ 0.2~2.0 mm/min $\pm 3\%$	
PC-Port	RJ45 (TCP/IP) [Software is optional]	
Data Sampling Rate	Max. 400 Hz	
Motor	Servo Motor	
Machine Stiffness	4.10 kN/mm	
Hardware Safety Protection	Upper/Lower limit, Emergency Stop Button	
Software Safety Protection	Force, Displacement, Time Protection ※The anti-collision function is optional, it can avoid damaging the load cell under 1000mm/min high-speed tests. For load cells over 50kg, it provides around 90% protective efficacy.	
Power	Single Phase 200 ~ 240VAC · 5A	
Dimension	50× 50 × 105 cm	50× 50 × 145 cm
Weight	65 kgf	80 kgf

Machine Feature

- Supports auto-identification load cell parameter.
- Supports auto-identification displacement accessories parameter.
- Independent electronic control box.
- 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

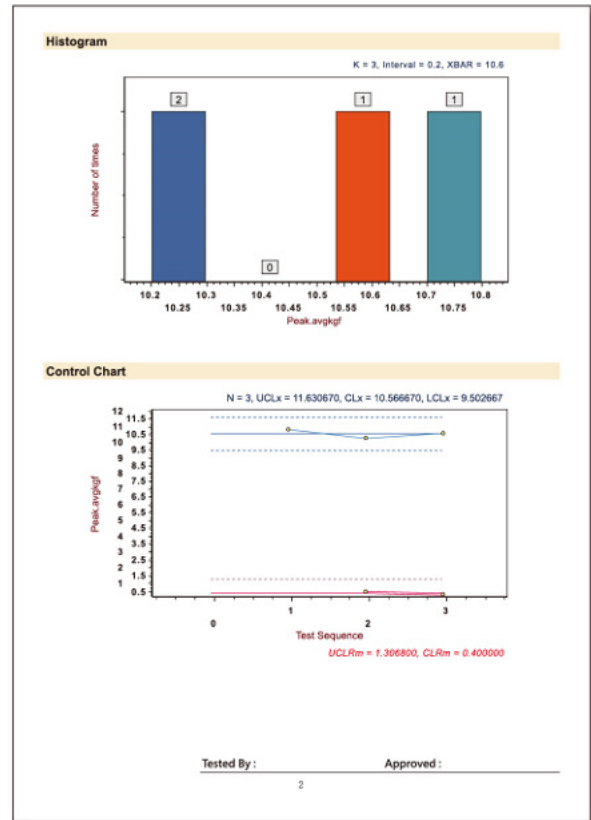
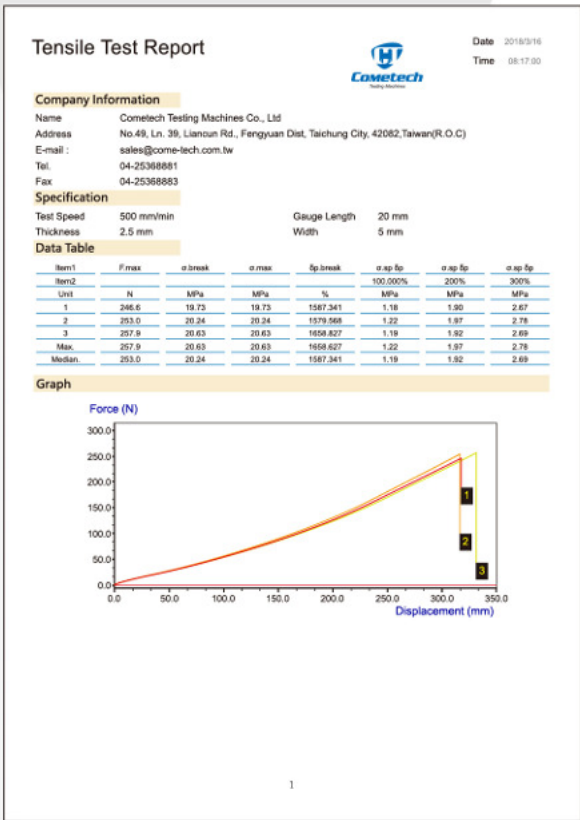
- 7" color touch TFT display panel is used.
- Chinese, English, Japanese are supported.
- Displays force, pressure, displacement and time.
- Can perform test condition settings: test speed, direction, auto-return, stop at the break point.
- Can analyze max. force, interval force, force at break point, 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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