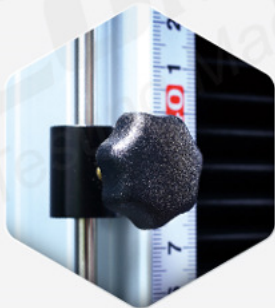


Standard

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

Industry

Plastic, Textile, Metal, Construction and others



Limit Switch



Common Joint for Both Tensile and Compression Test



Up and Down Button



Jog Controller

Machine Description

This kind of floor type UTM with a max. capacity of 50kN has upper and lower two test spaces. The machine provides a stable test situation because of the high stiffness construction and the maintenance-free transmission mechanisms of the servo motor. The standardized machine design supports different kinds of tests with expandable accessories, meanwhile, it provides users a quiet testing environment and high precision test results.

The M1F software is compatible with Windows system and is able to analyze tests such as tensile, compression, bending, peeling, constant tensile, constant compression, etc. The software is user-friendly and available in many languages and units (metric or imperial); it shows integrated test data in real-time graph and test report for a complete analysis. The display panel is an optional accessory that can capture useful information rapidly.

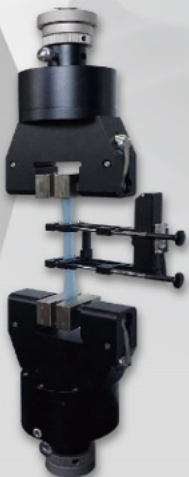
Machine Specification

Model	QC-505M1F
Max. Capacity	50 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
Space Between Columns	420mm (550mm 、 680mm 、 800mm are optional.)
Speed Range	0.2 ~ 600.0 mm/min
Speed Precision	±1%
PC-Port	RJ45 (TCP/IP) [Software is optional]
Data Sampling Rate	Max. 400 Hz
Motor	Servo Motor
Machine Stiffness	53.10 kN/mm
Hardware Safety Protection	Upper/Lower limit, Emergency Stop Button
Software Safety Protection	Force, Displacement, Time Protection
Power	Single Phase 200 ~ 240VAC , 8A
Dimension	90 × 60 × 195 cm
Weight	280 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%

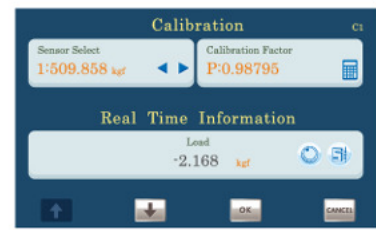


QC-551 Long Extensometer

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 .

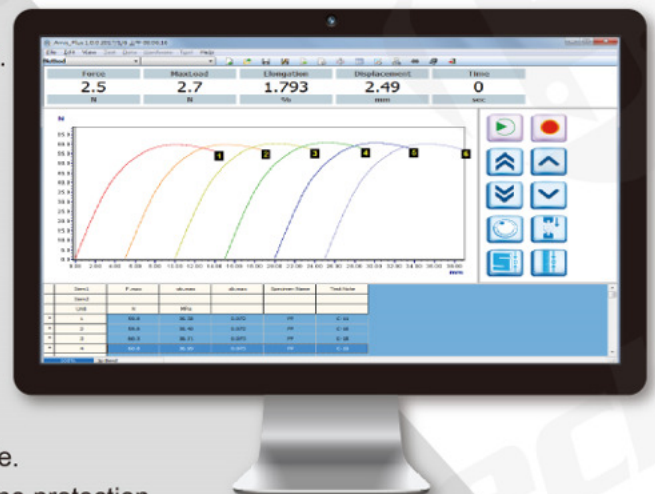


Time	Load	Max. Load	Max. Displacement	Strength	Elongation %
1	10.000	10.000	10.000	10.000	10.000
2	10.000	10.000	10.000	10.000	10.000
3	10.000	10.000	10.000	10.000	10.000
4	10.000	10.000	10.000	10.000	10.000
5	99.000	999.000	9999.000	99999.000	99999.000




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.



Tensile Test Report



Date: 2016/3/18
Time: 08:17:00

Company Information

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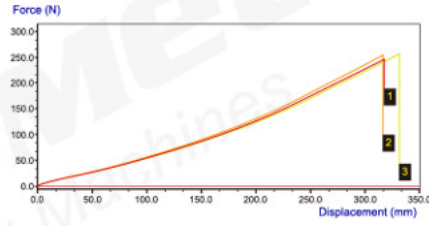
Specification

Test Speed: 500 mm/min Gauge Length: 20 mm
 Thickness: 2.5 mm Width: 5 mm

Data Table

Item1	F _{max}	σ _{break}	σ _{max}	ε _p break	σ _{0.2} Rp	σ _{0.01} Rp	σ _{0.05} Rp
Unit	N	MPa	MPa	%	MPa	MPa	MPa
1	246.6	19.73	19.73	1587.341	1.18	1.90	2.67
2	253.0	20.24	20.24	1579.568	1.22	1.97	2.78
3	257.9	20.63	20.63	1608.827	1.19	1.92	2.69
Max.	257.9	20.63	20.63	1608.827	1.22	1.97	2.78
Median	253.0	20.24	20.24	1587.341	1.19	1.92	2.69

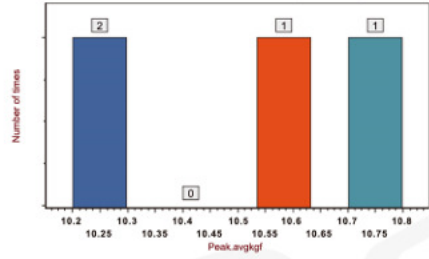
Graph



1

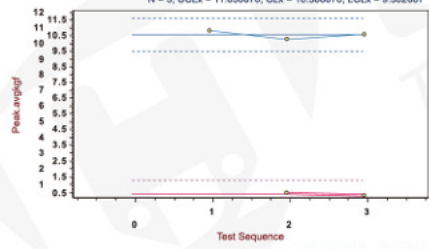
Histogram

K = 3, Interval = 0.2, XBAR = 10.6



Control Chart

N = 3, UCLx = 11.630670, CLx = 10.566670, LCLx = 9.502667



UCL_{Rm} = 1.306800, CL_{Rm} = 0.400000

Tested By: _____ Approved: _____

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*Cometech reserves the right to modify product specification.

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