

Universal Testing Machine

QC-506M2F-LWH (20kN)

Computerized Tensile (compression) testing machine

Standard

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

Description

The table type with double column has great configurations of test space and stroke. Conducive to large specimen testing and environmental testing function expansion, With servo motor and sophisticated ball screw which is suitable for under 20KN test. According to the length of specimen and the elongation have different stroke for optional. Also, we provide completed fixture planning which can proceeding variety of test method.

This model is using special testing software M2F which is used Windows 7/8 /10 of Person computer. It can do tensile test, compression test, bending test, peeling test, hold tensile (compression) and all kind of test. 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 can do variety of material analysis or storage after finished test. Multiple control systems can choose special displayer, M2F, without connect computer (stand-alone) that can capture fast and effective test data.

Industry

Rubber, Plastic, Paper, Textile, Metal, Wood, Tape, Electronics, Packaging, Medical, Architecture.

Appearance





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Specification

Model	QC-506M2F (Lengthened)
Max. Capacity	20 kN
Temperature Range	25 -200 °C(appointed by customer)
Chamber Inner Size	300 × 300 × 650 (W×D×H) mm
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)	1200 mm
Stroke resolution	0.0001 mm
Space between columns	425 mm (500mm 、 680mm 、 800mm Optional)
Speed range	0.05 ~ 830 mm/min (Can be set by computer digital)
PC-Port	RJ45(TCP/IP) [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



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Power Supply	Single phase 200 ~ 240VAC · 5A
Dimension of Machine	95 x 171 x 244 cm
Weight of Machine	310 kg

Optional Accessory

(1) 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.



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(2) Extensometer

① QC-557 Short extensometer

which is applied in under 50% of elongation test.



② 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.



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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

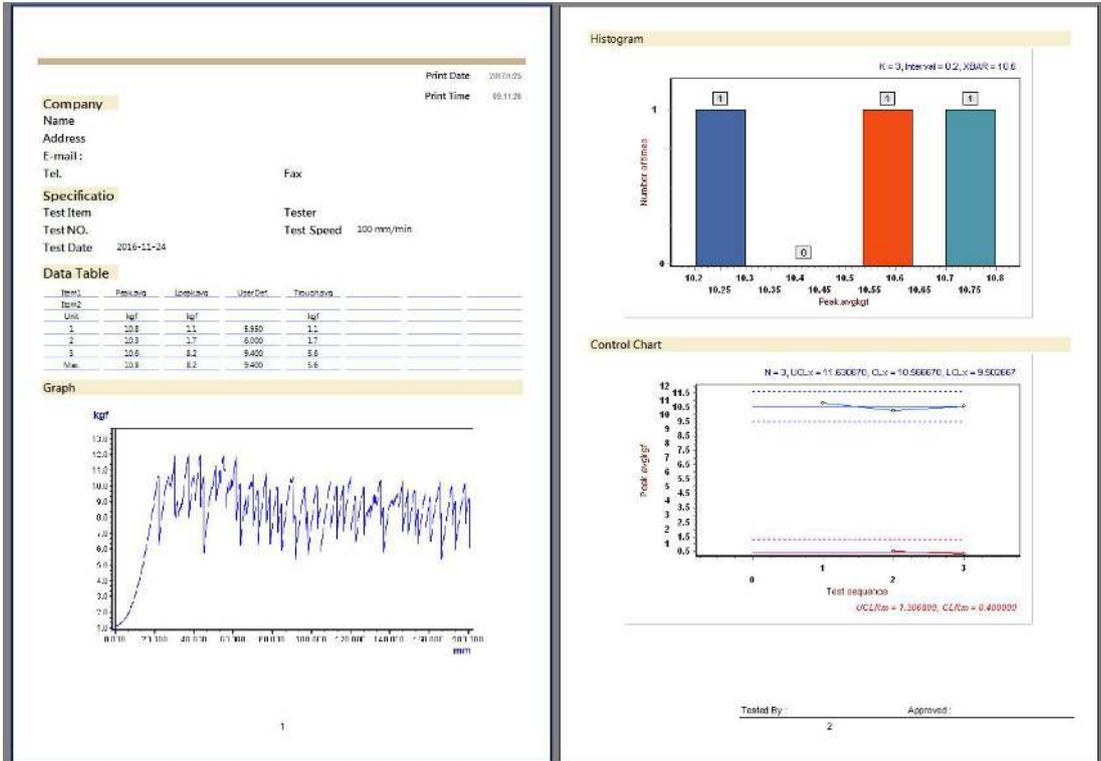
(1) Software interface





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(2) Report



*Cometech reserves ultimate modification right of product specification.

