

QC-548D2 (5kN)

Computerized Tensile (Compression) Testing Machines

Industry

Paper, Tape, Electronics, Medical, Package

Feature

- Autocratically reading load cell and displacement sensor feature information
- Digital speed setting
- Equipped with 7" TFT color touch screen, able to support real-time test curve diagram display
- Automatically zero the test force
- Break detection
- Automatic return
- Force overload protection
- Support stand alone operation or choose the optional software to test and analysis
- Test condition modularize
- Able to add the optional printer



Description

QC-548D2 is the table type universal material testing machine which is equipped with 7" touch color screen for stand alone operation. User can also add the micro printer additionally to print out the real-time result. It's a machine suitable for the product line and those who require quick testing.

Our exclusive motor control and calculus system can increase the DC motor's control efficiency and make its ability nearly the same as servo motor. The machine will auto modify the rotating speed to reach the best speed performance. The digital type speed setting and one key test start function will highly improve the operation convenience and efficiency.

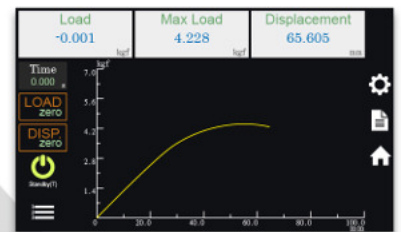
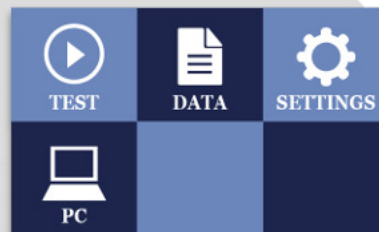
The optional software can connect the PC to operate the tensile, compression, bending, peeling and other various tests and analysis. It can support with not only different languages mode but also the metric/imperial units switching. The software can help to provide a complete analysis functions and the test module.

Specification

Model	QC-548D2-S		QC-548D2-M	
Max. Capacity	5 kN			
Force Resolution	23 bits			
Force Precision	1/10,000			
Test Stroke(Without grips)	400 mm		800 mm	
Stroke Resolution	0.0125 mm			
Speed Range	8 ~ 550 mm/min (digital type setting)			
Speed Error	Better than 1%			
Data Sampling Rate	Max. 400 Hz			
Cantilever Distance	80 mm			
Connection	RJ45(TCP/IP)			
Motor Type	DC Motor			
Machine Rigidity	4.1 kN/mm			
Hardware Safety Protection	Upper/Lower Limitation, emergency stop button			
Power	Single Phase, 100 ~ 240VAC, 5A			
Machine Dimension	50× 50 × 105 cm		50× 50 × 145 cm	
Machine Weight	65 kgf		80 kgf	

Display

- Adopted with 7- inch TFT color touch screen
- Three different languages can be selected including Chinese, English and Japanese
- Data Display : Force, Stress, Torque, Displacement, Time
- Able to set hardware, test, units, information, protection, curve graph setting
- Support different units switching including Metric and Imperial units
- Display supports to store up to 50 data result
- Able to save the results by USB



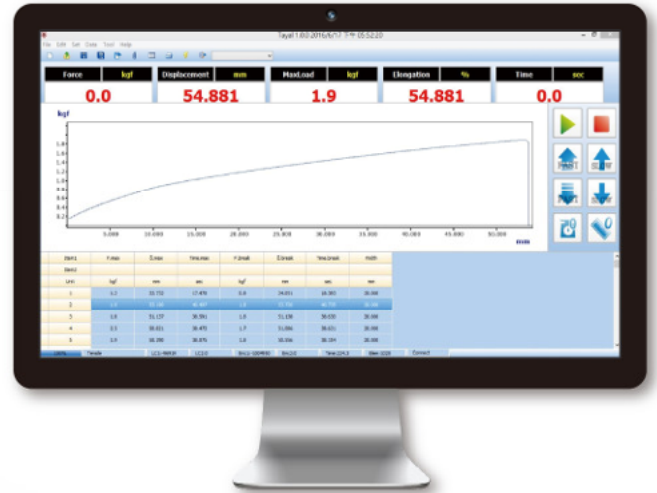
Load	Max Load	Displacement
-0.001 kgf	4.228 kgf	65.605 mm
Time 0.000 s		
LOAD zero		
DISP zero		
1 20.888	9.492	2.089
2 17.599	10.280	1.760
3 19.558	9.355	1.956
4 0.045	3.192	0.004
5 0.057	0.000	0.006

Max Load	Max Displacement	Max Stress	Max Elongation
kgf	mm	kgf/mm ²	%
1 13.829	21.468	1.383	107.337
2 17.595	20.205	1.754	101.025
3 13.108	12.852	1.311	64.263
4 10.474	21.583	1.047	107.913
5 11.929	25.560	1.193	127.800

Data		U1
Maximum Load	Yes	Yes
Maximum Stress	Yes	Yes
Break Load	No	No
Maximum Displacement	Yes	Yes
Break Displacement	No	No

Optional Accessories - Software Functions

- Data sampling rate can be set up to 400 Hz
- Information analysis
- Compatible with Windows7/8/10 system
- Color touch screen can support different language display including Chinese, English, Japanese
- Interface: connect PC with TCP/IP
- Multi-curves display at the same time
- Various units including Metric and Imperial units
- Flexible form to manage database.
- Free to name the data file.
- Test page can support display test data value, curve graph or both
- Data processing : save, load, list and compare data
- Axis can be set as force, elongation, displacement, time, strain, stress and so on.
- Can support with tensile, compression, bending, peeling test and so on.
- Software supports with over-load, over-travel or overtime machine stop protection.



Optional Accessories - Extensometer



QC-557 Short Extensometer

Suitable for elongation below 50%



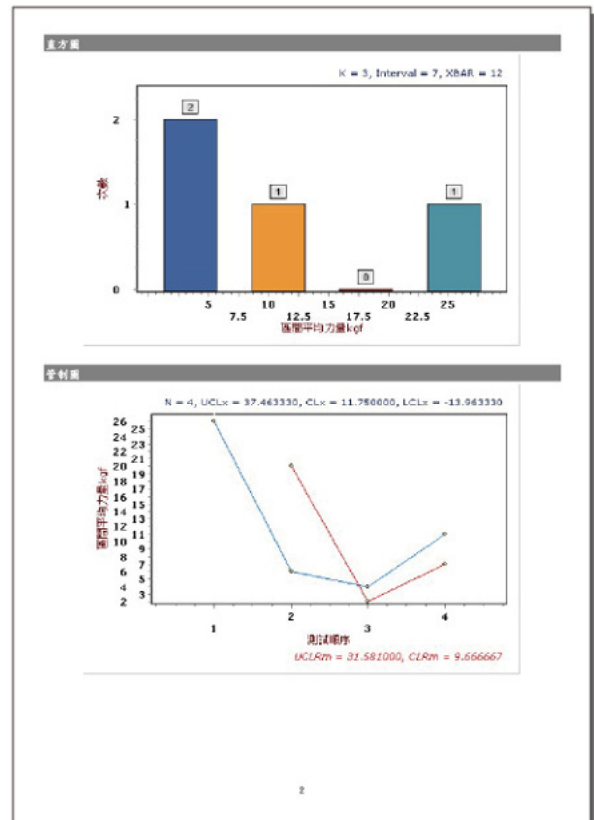
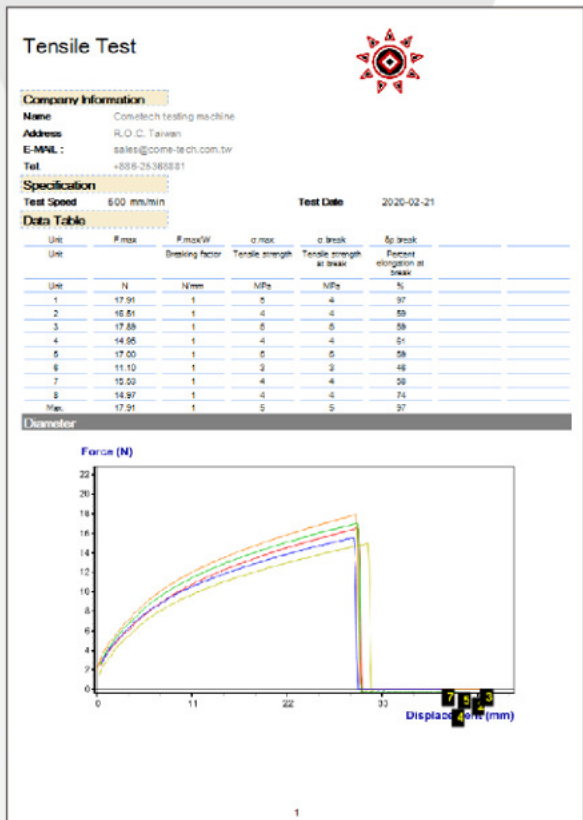
QC-551 Long Extensometer

Suitable for elongation over 20%



Printer

Able to directly print out results



*Cometech reserves ultimate modification right of product specification.

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