Universal Tensile Testing

Model : CQC-513D Capacity 5 kN

Description

Desktop electronic materials testing machine is equipped with a new design of D1 controller and 7-inch TFT color touch screen, it can be operated in a stand-alone model.

Various units can be modified in accordance with the needs of users. Whenusing it, it can display the real-time data and record a short time testing data. Data can be restored and exported to EXCEL sheet for further analysis by USB, or the special software can also be an alternative option for proceeding with further data analysis

Specification

Model	CQC-513D1	CQC-508D1
Max. Capacity	5kN	
Force Precision	1/10,000	
Force Resolution	1/100,000	
Testing space	Ø70mm	
Test stroke	400 mm	800 mm
Stroke resolution	0.0002 mm	
Cantilever distance	70 mm	
Speed range/ force	20~35 mm/min 200kg	
Speed range/ force	35~600 mm/min 500kg	
PC-Port	TCP/IP	
Data sampling rate	1200Hz	
Hardware protection device	upper limit, lower limit, emergency stop	
Motor type	DC motor	
Feature	※connect with 7 -inch of TFT Color touch screen ※one set of stress sensor, one set of load sensor and 2 sets of Encoder ※can store testing data via USB ※can be operated via screen or via optional software computer. ※equip with overload and over displacement protective detection	
Power Supply	單向100 ~ 240 V	
Dimension of Machine	50 x 53 x 100 cm	50 x 53 x 145 cm
Weight of Machine	65kgf	80kgf

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. Can do hardware setting, testing setting, unit setting, data setting .protection setting, graph setting
5. Unit selection can be Metric unit, Imperial units of variety changed.
6. Can store up to 50 data.

(2)Extensometer

QC-557 Short extensometer

which is applied in under 50% of elongation test.

QC-515 Long extensometer
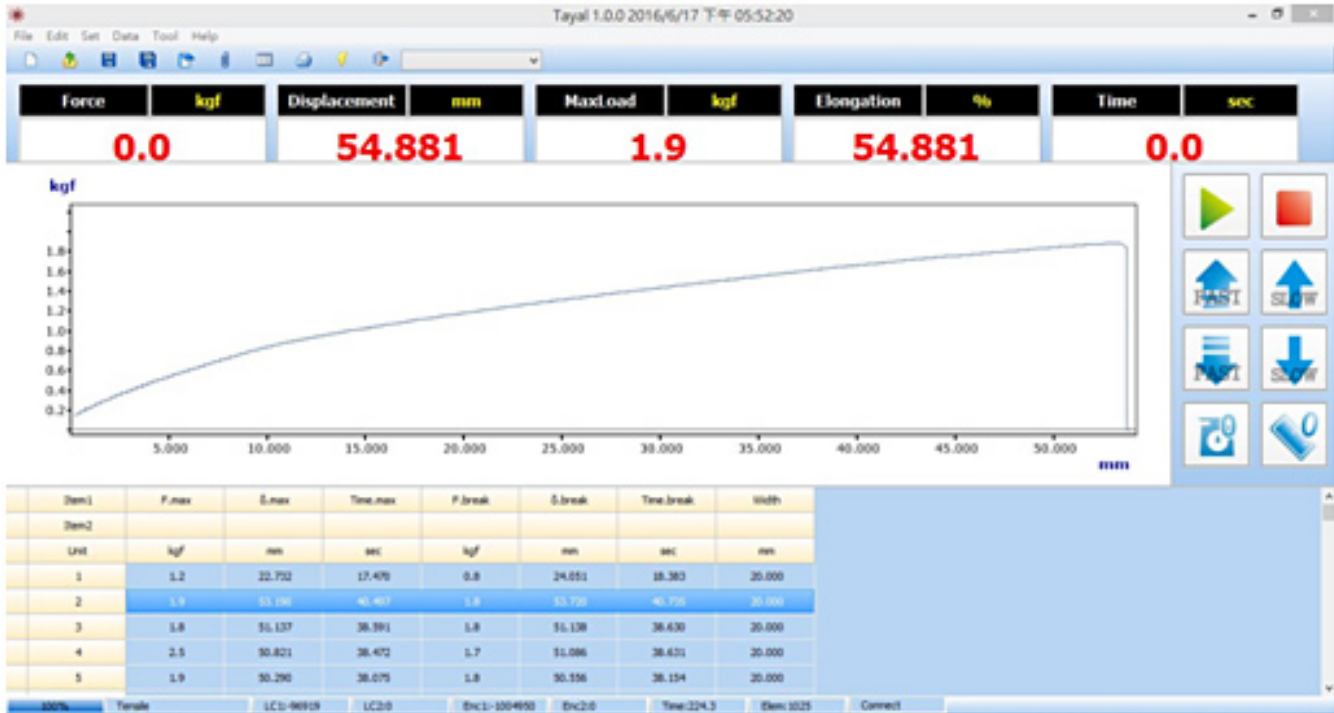
which is applied in over 20% of elongation test.

Software function

1. Data sample rate faster can be set up to 1200 Hz
2. Operation method:Full-computerized control to run the test or Jog button control
3. Compatible with Window 7 /8 system
4. Software has multi-languages.
5. Interface for TCP/IP
6. Multi-curves display and real-time plot
7. Various units of measurement are available
8. Flexible form to manage database.
9. Free to name the data file.
10. Testing screen is selective to display data, graph at the same time.
11. Data processing: file saving, setting loading, report printing and data comparing.
12. Graph display: strain v.s. elongation, strain v.s. time and so on.
13. Tensile test, compression test, bending test, peel test…
14. Software protection: Overload, over -displacement ,over-time protection

Software

Software interface

Report

Company Information

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Specification

Test NO.	1		
Test Spec	TEST1		
Tester	John		
Test Method	Tensile	**Test Speed**	500 mm/min
Pre-Load	0.1 kgf	**Test Date**	2016-06-17
Gauge Length	100 mm	**Inertia**	1.667 mm
Width	20 mm		

Data Table

Item1 Item2 Unit	F.max kgf	δ.max mm	Time.max sec	F.break kgf	δ.break mm	Time.break sec	Width mm
1	1.2	22.732	17.470	0.8	24.051	18.383	20.000
2	1.9	53.190	40.497	1.8	53.720	40.735	20.000
3	1.8	51.137	38.591	1.8	51.138	38.630	20.000
4	2.5	50.821	38.472	1.7	51.086	38.631	20.000
5	1.9	50.290	38.075	1.8	50.556	38.154	20.000
Max.	2.5	53.190	40.497	1.8	53.720	40.735	20.000

Graph