



Cometech
Testing Machines

廣 鋅 儀 器 股 份 有 限 公 司

QC-662B Vicat Heat Deflection Tester

Standard

ASTM D1525 ISO 306 GB T1633

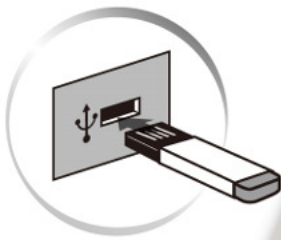
Industry

Plastic, Rubber

Introduction

The specimen is given a fixed 10N force (or 50N) at the center with a standard Ø1 mm pin, and the temperature should increase by 50 (or 120) degrees Celsius per hour. When the penetration depth of specimen reaches 1mm, the temperature is determined as the Vicat softening temperature VST.

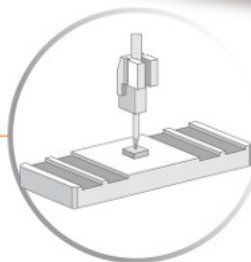
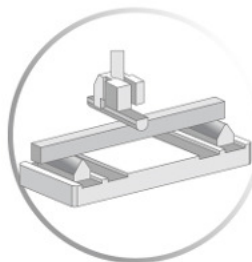
The tester is equipped with touch screen that guides users step by step. A user-friendly interface and standardized process are designed to orientate users in the shortest time possible and to reduce test errors. Each working station is equipped with temperature and deflection sensor. During the test, the display shows real-time temperature and deflection on each specimen. When it reaches deflection value, it will record the temperature and stops and start cooling system. Smart testing process is time-saving and requires only a minimum of testers.



Able to store the result and raw data with USB



Equipped with high accuracy LVDT to measure the displacement



Test jig switchable for both H.D.T and Vicat test

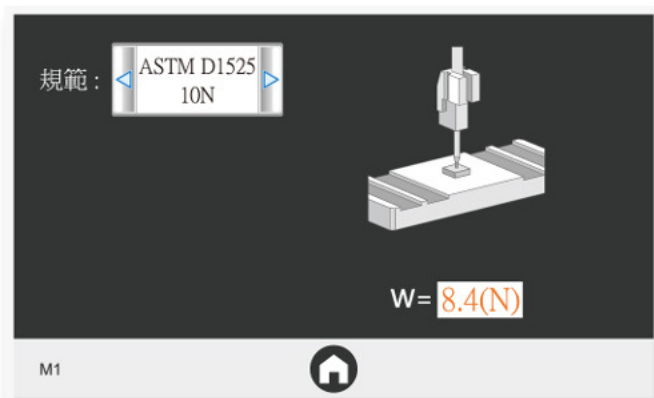
Specification

Temperature	Room temperature - 300°C
Temperature Control	50°C increase per hour (adjustable)
Weight	Method A: 10N; Method B: 50N
Deflection Reading	0.001 ~ 3.000 mm
Test head Diameter	Ø1.13mm (1mm ²)
Specimen Dimension	At least two flat, smooth, parallel specimens with thickness 3 to 6.5mm and area 10 x 10 mm ² or Ø10mm are needed. If the specimen is thicker than 6mm, reduce it by half on one side and keep the other side unchanged. If the thickness is below 2.5 mm, stack the specimen with less than 3 other materials and make the combination at least 3 mm thick.
Temperature Equalization Method	Circulation flow
Cooling Method	Water cooling
Stations	1, 2 or 3 stations
Power	Single phase 220VAC

Interface Introduction

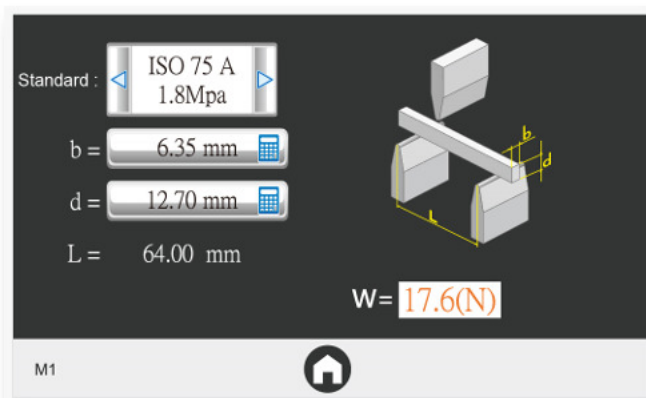
Vicat Heat Deflection

※ Switchable between ASTM or ISO standard.
The test load is calculated and displayed automatically.



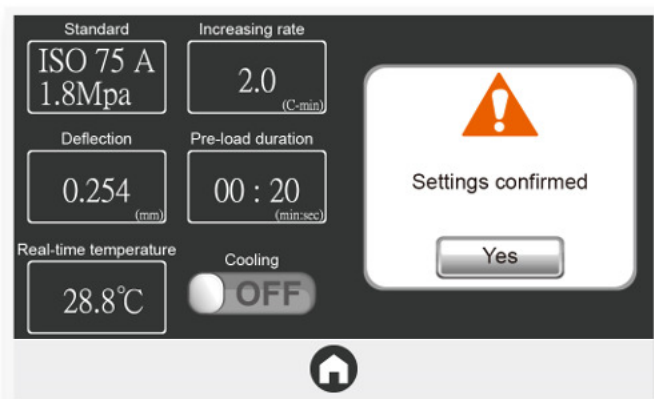
Heat Deflection Temperature Test

※ The machine can also be configured in H.D.T test mode conforming to ASTM or ISO standard.
When the specimen dimension is given, the test load can be calculated and displayed automatically.



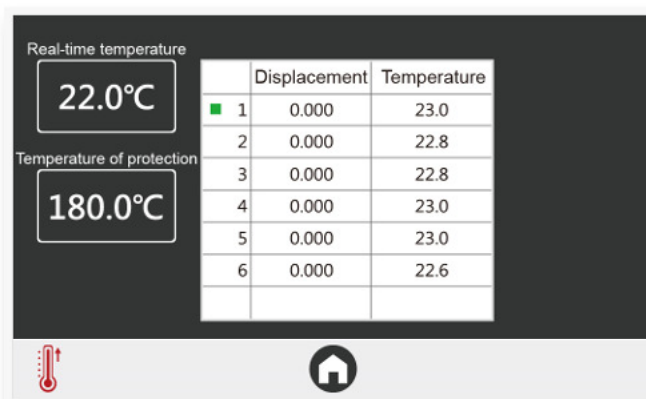
Test Setting

※ Built-in standard test condition and standard test process can reduce the test error.
Able to support with special test condition setting.



Test Display

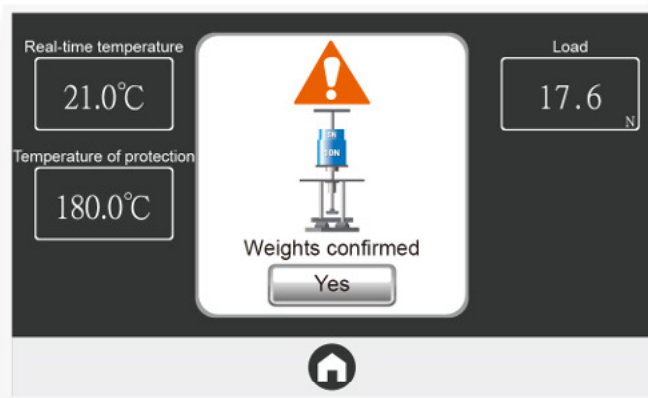
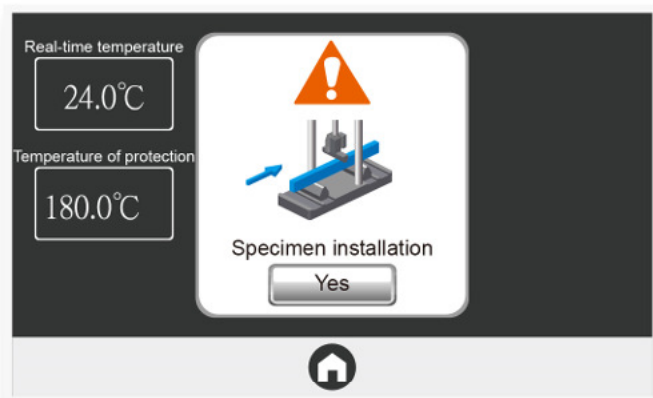
3 working stations work at the same time and each station display its own temperature and deflection in real-time.
At the end of test, the cooling system will be started automatically. Smart testing process is time-saving and requires only a minimum of testers.



Interface Introduction

Test Process

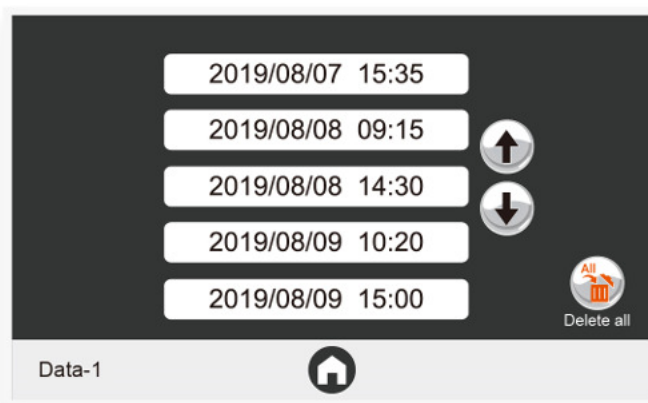
※ Exclusive test operation leading can make it easier to use and help user to reduce the man-made improper operation.



Result Saving

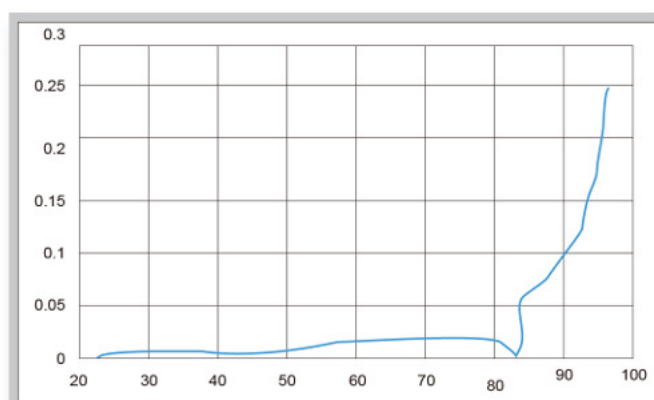
1. Display can store 30 test data and able to save the result with USB.

	Displacement	Temperature
1	0.254	120.4
2	0.254	120.8
3	0.254	120.5
4	0.254	120.6
5	0.254	120.8
6	0.254	120.5
Avg	0.254	120.6



2. Plugging in the USB while testing can record the whole test process and save the raw data in CSV format for analysis.

	A	B	C
1	31	0	23.9
2	35	0	23.8
3	40	0	23.8
4	45	0	23.8
5	50	0	23.6
6	55	0	23.6
7	60	0	23.5
8	65	0	23.4
9	70	0	23.4
10	75	0	23.3
11	80	0	23.3
12	85	0	23.3
13	90	0	23.3
14	95	0	23.3
15	100	0.001	23.3
16	105	0.001	23.3
17	110	0.001	23.4
18	115	0.001	23.4
19	120	0.001	23.5
20	125	0.001	23.5
21	130	0.001	23.7
22	135	0.002	23.8
23	140	0.002	23.9
24	145	0.002	24
25	150	0.002	24.1
26	155	0.002	24.2
27	160	0.002	24.3
28	165	0.002	24.5
29	170	0.002	24.7
30	175	0.003	25
31	180	0.003	25.2
32	185	0.003	25.6
33	190	0.003	25.9
34	195	0.003	26.2
35	200	0.003	26.5
36	205	0.003	26.9
37	210	0.003	27.2
38	215	0.003	27.5
39	220	0.003	27.8
40	225	0.003	28.2
41	230	0.003	28.4
42	235	0.004	28.7
43	240	0.004	29.1
44	245	0.004	29.5



*Cometech reserves ultimate modification right of product specification.

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