



Functions

This series of HDT/VICAT testing machine is mainly used to determine temperature of deflection under load and Vicat softening temperature of thermoplastic plastics, pipes and fittings.

Standards

ISO2507, ISO75, ISO306, ASTM D648, ASTM D1525

GB/T 8802, GB/T 1633, GB/T 1634

Features

- HDT and VICAT test can be conducted at the same time
- Switzerland made high precision micrometer provides high accurate displacement measurement with high stability
- Up to six test stations, maximally up to six deformation transducers, and one temperature transducer
- All test stations are motor-driven, raised from the bath by the touch of a button on the control panel, allowing easy placement of the test specimen
- Water cooling and nature cooling are available
- Professional test software with friendly interface, easy to operate
- Once the software is started, the test is completely automatic and is performed according to the user-defined program. Upon test completion, it will automatically cool the bath to the starting temperature in preparation for subsequent tests. Using tap water, the temperature of the silicon oil can be reduced from a maximum of 300 °C to 20 °C.



Perform HDT and VICAT in the same station.
Only change loading nose for HDT test, and needle for VICAT test.



Needle for VICAT



Loading nose for HDT

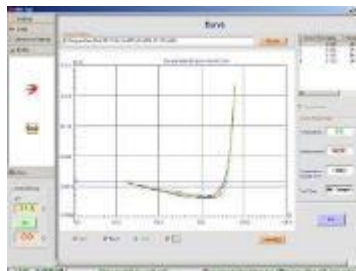
Micrometer
Weights tray



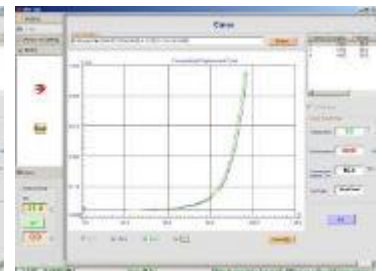
Close view of single station

Test software

- Friendly and easy operation interface
- Test resume function when a sudden shutdown happens
- Powerful monitor function on test curve
- Test curve can be real-time zoomed in
- Multi-station test curves can be generated on a single report
- Test report can be printed out
- Test report can be exported to EXCEL for review and print



HDT test curve



VICAT test curve

Specifications

Model		HVT302	HVT302	HVT302
Type		A	B	C
Test station		3	4	6
Immersion bath		1	1	1
Heat transfer medium		Methyl Silicon oil or transformer oil		
Temperature sensor		1	1	1
Temperature range		Ambient (20°C)~300°C		
Temperature accuracy		±0.5°C		
Heating speed	Speed A	5±0.5°C/6min		
	Speed B	12±1°C/6min		
Micrometer		3	4	6
Deformation measurement range		±5mm		
Deformation resolution		0.001mm		
Deformation measurement accuracy		0.003µm		
Vicat Loading capacity:		GA=10N±0.2N, GB=50N±1N		
HDT test		Method A: USE FIBRE STRESS 1.80Mpa		
		Method B: USE FIBRE STRESS 0.45Mpa		
		Method C: USE FIBRE STRESS 8.00Mpa		
Maximum heating power		4500W	5000W	
Power requirements		AC380V±10%	50HZ	15A
Dimension (LxWxH)		645x670x1450mm		835x670x1450mm
Weight		200kg		280kg
Cooling		Nature cooling or water cooling		

Standard accessories:

Model	HVT302	HVT302	HVT302
Type	A	B	C
Main frame	1 set	1 set	1 set
Test stations	3	4	6
Swiss Micrometers	3 sets	4 sets	6 sets
Temperature sensors	1 set	1 set	1 set
Loading nose for HDT	3 sets	4 sets	6 sets
Needle for VICAT	3 sets	4 sets	6 sets
Weights set (50N)	3 sets	4 sets	6 sets
Test software	1 set	1 set	1 set