



HVT302A  
3-station



HVT302B  
4-station



HVT302C  
6-station

## 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 Viscosity: 300 cSt, or 300 mm <sup>2</sup> /s <i>Known silicon oil brand: DON CORNING PMX-200 350 cSt, Shin-Etsu KF96-300</i>			
	Or transformer oil 10#			
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	0.003mm			
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



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