



Heat Deformation - HDT/VSP Tester



Heat Deformation – HDT/VSP Tester is a consistent tool useful for determining the ability of a given polymer to bear load at elevated temperatures. Accurate and reliable deflection or deformation is important component in plastics industry. Heat Deformation HDT/VSP Tester is designed as per standards IS 2530-1963, ISO 75-1(2004)-E, ASTM D648-01, ASTM D1525-00.

- Equipped with 2 stations to measure Deflection temperature and Vicat Softening temperature
- Precise measurement through Digital Dial Gauge
- Used for testing with both water and silicone oil
- Advanced Digital Microprocessor PID based temperature controller
- Inbuilt Auto tuning function
- Highly accurate test results under uniform temperatures in the chamber
- Setting to RTD PT-100 sensor through advanced PID controller
- High Quality rugged structure with corrosion resistant main body
- Digital Dial gauge to measure the deflection in test samples
- Fast Guiding Mechanism with plunger rod
- Single handed hassle free operation with test start operation
- Stirrer Motor for Precise stirring of sample inside the tank & for Uniformity of Temperature

Key Specifications:

Diameter of Indenter tip (VSP)	1mm circular (Flat ended needle)
Temperature Controller range	Upto 250°C
Rate of Heating	<ul style="list-style-type: none">• $120 \pm 10^\circ\text{C/hr.}$• $50 \pm 5^\circ\text{C/hr.}$
Weights	5 Kg (2 nos)
Dial Gauge Range	upto 10 mm
Resolution/Least Count	0.001 mm
Wet Heater	1 Kw X 2
Power	220V, 50Hz, Single Phase
Diameter of indenter tip (HDT)	13 MM (Approx)
Temp. Range with Silicon Oil	Ambient to 250°C
Temp. Range with water	Ambient to 90°C
Motor Capacity	1/70HP 1350rpm
Motor Type	Stirrer Motor

Highlights:

Digital Dial Gauge	2
No. of test stations	2 (HDT/USP)
Testing Medium	Water or Silicone Oil
Material	Mild Steel(Outer Body) Stainless Steel(Inner Body)
Dial gauge stand	2 - Inbuilt

- Silicon Oil is not a Part of supply

