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Product Name :

Computerised VSP & HDT Apparatus

Product Code :

SLE/ET/05



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Description :

Computerised VSP & HDT Apparatus (Product Code: SLE/ET/05) is a heated-bath testing instrument used to find the Vicat softening point (VSP) and heat deflection temperature (HDT) of plastics in polymer testing and quality-control laboratories. Loaded specimens are heated from ambient to 300 °C at 120 °C/hour or 50 °C/hour while sensors with 0.01 mm resolution follow them, and 2 to 6 stations can be specified. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, among its test and measurement instruments in India.

Specifications

Parameter	Detail
Temperature range	Ambient to 300 °C
Rate of heating	120 °C/hour and 50 °C/hour
Number of stations	Options from 2 to 6 stations
Sensor	Range up to 10 mm, resolution 0.01 mm
Weights	Set ranging from 5 g to 2000 g for incremental loads
Inner bath	Stainless steel
Outer body	Mild steel
Direct display	VSP and HDT results, through microcontroller
PC output	Penetration/deflection vs temperature graph and numeric reports of Vicat softening temperature and heat deflection temperature, printed by attaching a printer to the PC
Power supply	230 V, 50 Hz, single phase
Product code	SLE/ET/05
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the VSP & HDT Apparatus Used For?

Both tests show how a plastic behaves as it warms under load. In the Vicat test a flat-ended needle rests on the specimen under a set load, and the bath temperature at which it penetrates a specified depth is taken as the softening point; in the HDT test a bar is loaded in bending, and the temperature at which it deflects by a specified amount is recorded. The microcontroller shows both results directly, and the PC software plots penetration or deflection against temperature.

Material suppliers, moulders and polymer courses use these results to compare grades and judge the temperature limit of a moulded part. Choose the heating rate your method requires, build the load from the 5 g to 2000 g weight set, and zero each sensor before heating begins. With several stations, specimens from one batch run side by side under identical heating, which makes the unit a productive choice among polymer laboratory instruments in India.

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