

SCITEQ

HDT Vicat – 311 Series



We help you perform even better

About HDT Vicat



Function

The SCITEQ HDT/VICAT tester is designed to determine the Heat Deflection Temperature (HDT) or the Vicat softening point of plastic and thermoplastic samples. The specimens are charged with a constant load and immersed in a bath, where temperature is increased at a standard velocity. The attained heat resistance rate of plastic material is a widely required parameter for product characterization, for quality control, as well as for evaluating their conformity to the previewed applications.

Standards

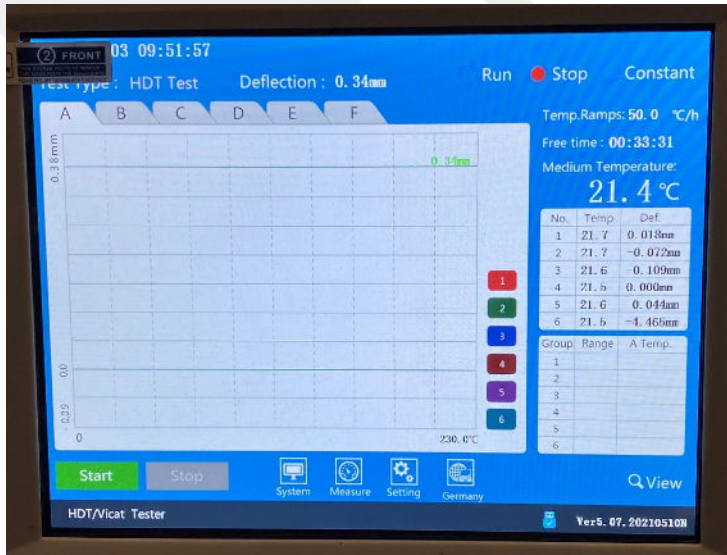
The user-friendly HDT/Vicat combines high accuracy and precision essential for quality control and R&D.

Complies with following standards:

- ISO 75
- ISO 306
- ISO 2507
- ASTM D 648
- ASTM D1525 and equivalent.

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Features

The HDT/Vicat is controlled via touch screen equipped with software to control test temperature and deformation, describe & record test curves, output testing result. Transfer test data via USB (storage unit) to your PC to view data and generate test reports and graphs showing the deformation of each specimen and temperature increase versus time.



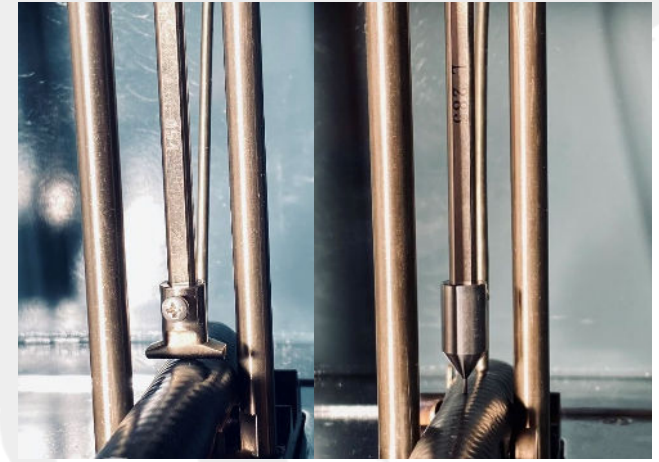
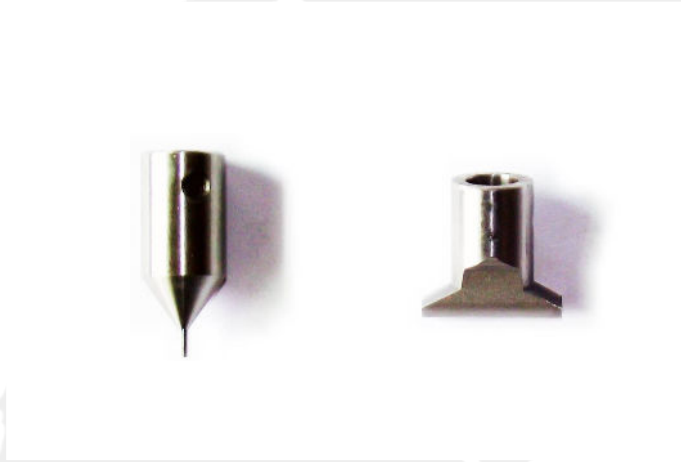
Designed to last

The system is robust enough to be used in an industrial environment, as well as a laboratory. The temperature protective circuit, being independent from the controlling system, is designed to protect the tester when temperature of medium exceeds its using range. Test specimens are lowered and raised automatically into/from the oil bath



Construction

The unit consists of a temperature controlled oil bath with 3 (three) or 6 (six) testing stations, each of which may be configured for either HDT or VICAT test methods. The inner bath is constructed in stainless steel and the designed volume ensures a good thermal exchange. The rod and frame members have the same linear thermal expansion coefficient.



Accessories:

- HDT head
- Vicat Indenting tip
- Complete weight set box

Technical Specification HDT Vicat

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HDT/Vicat model 311	Description
Temperature range	approx. 20° to 300°C (68°F to 572°F)
Number of stations:	3 stations or 6 stations
Auto weight load:	Yes
Auto specimen lift:	Yes - specimens are lowered and raised automatically into/from the oil bath.
Temperature measuring points:	6 (six)
Temperature ramp rate:	User selectable via software 50°C/hour or 120°C/hour
Temperature display error:	+/- 0,5°C
Weights:	1 g up to 1000 g
Heating:	Immersed heating element. Fully automatic
Cooling:	fully automatic
Deformation measuring device:	Digital microgauge
Deflection measure range:	-1 mm ~ 9 mm
Deflection display error:	(max.) +/- 0,005 mm
Specimen support span:	64mm, 100mm
Electrical supply:	220/230 V 50/60 Hz. Max. consumption 7.5 KW
Water supply:	cold water source
Volume:	27 litres tank capacity
Medium:	methyl silicon oil (excluded)*
Dimensions:	890mm×500mm×710mm (length x width x height)
Net weight:	110kg

*Please note that oil (liquid) is not part of the supply and should be sourced locally or ordered separately with SCITEQ.





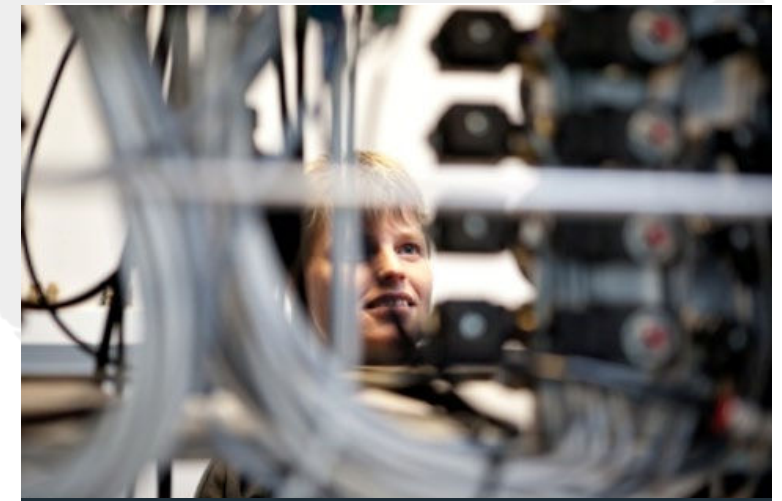
Installation & training

SCITEQ offers onsite installation of new SCITEQ equipment and onsite or remote training of the operating personnel that are going to use the equipment.



SCITEQ Care Service

You will find the level of service suitable for your test setup with SCITEQ Care. SCITEQ service engineers will visit you annually to perform the best service and calibration. With SCITEQ Basic, More or All Care package you gain access to a long list of advantages, discounts and free support from SCITEQ skilled technician. [Learn more about SCITEQ Care](#)



Support online & on-site

SCITEQ offers online and on-site support on all SCITEQ products, for fast and effective problem solving, training, setup, etc. If you have an unforeseen challenge or you need advise asap, you can contact service@sciteq.com or call us for urgent support.