

## function

The HDT/VICAT tester is designed to determine the Heat Deflection Temperature (HDT) or the Vicat softening point of plastic and thermoplastic samples. The HDT/Vicat tester complies with ISO 75, ISO 306, ASTM D 648, ASTM D1525, and equivalent.

## highlights

simple set-up

robust construction

touch screen

high accuracy

quality product

Auto weight load

version 09/2021

## features

Test specimens are charged with a constant load and immersed in a bath, where the 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 and for evaluating the conformity to the previewed applications.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

## construction

The unit consists of a temperature controlled oil bath with three or six testing stations with individual temperature probes. The test stations 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.

The weight loading mechanism automatically lowers and raises weights. Test specimens are lowered and raised automatically into/from the oil bath.

The HDT/Vicat tester is controlled by touch screen, equipped with software to control test temperature and deformation, describe & record test curves, output testing result.

With the optional software system it is possible to produce graphs showing the deformation of each specimen and temperature increase versus time.

The system is robust enough to be used in an industrial environment, as well as a laboratory.

associated | equipment | essential equipment

software

test weights

<b>VICAT</b>	3 or 6 stations model
<b>temperature range:</b>	approx. 20° to 300°C
<b>no. of stations:</b>	3 stations or 6 stations
<b>station lift:</b>	fully automatic
<b>weight lift:</b>	fully automatic
<b>Temperature measuring points:</b>	3 points for 3 stations / 6 points for 6 stations
<b>temperature ramp rate:</b>	user selectable via software 50°C/hour or 120°C/hour
<b>Temperature display error:</b>	+/- 0,5°C
<b>weights:</b>	1 g up to 1000 g
<b>heating:</b>	immersed heating element. Fully automatic
<b>cooling:</b>	fully automatic
<b>electrical supply:</b>	220/230 V 50/60 Hz
<b>Deflection measure range:</b>	-0,2 mm ~ 10 mm
<b>Deflection display error:</b>	(max.) +/- 0,005 mm
<b>water supply:</b>	cold water source
<b>volume:</b>	17L for 3 stations 27L for 6 stations
<b>medium:</b>	methyl silicon oil (not supplied as standard)
<b>dimensions:</b>	dependant on model
<b>net weight:</b>	dependant on model
<b>power supply</b>	220VAC-15%~220VAC+10% Single-phase three-wire



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