



## Vicat/HDT series

The Coesfeld Vicat/HDT series provides test devices for determining

- the **VICAT softening temperature (VST)** of thermoplastics and
- the **heat deflection temperature (HDT)** of fibre-reinforced and filled thermosetting plastics, as well as of thermoplastics and hard rubber.

Our portfolio ranges from simple manual testing up to more advanced applications with automatic test procedure. All devices work with software for reliable analysis of the results.



### Basic Vicat/HDT

- Tests according to ISO and ASTM
- Creep tests possible
- **Automatic** start of cooling (*water supply required*)
- **Manual** specimen immersion
- **Manual** load application



### Compact Vicat/HDT

- Tests according to ISO and ASTM
- Creep tests possible
- **Automatic** start of cooling (*water supply required*)
- **Motorized** specimen immersion
- **Upgrade to Compact+** for automatic load application



### IC Vicat/HDT

- Tests according to ISO and ASTM
- Creep tests are possible
- **Automatic** start of **integrated cooling** (*water supply required*)
- **Motorized** specimen immersion
- **Upgrade to IC+** for automatic load application



### External heat exchanger for Basic/Compact

- Device for fast cooling of heat transfer fluid
- Cooling time from 300 °C to 23 °C in approx. 25 min.
- Volume: approx. 2.0 l transfer oil
- To activate manually after measurement (*Water supply required*)



The ECO Vicat and the HDT Automat enable tests to be carried out without an operator, e.g. overnight or at the weekend.



### ECO Vicat (oil-free)

- Tests without oil (contact heat transfer) acc. to ISO 306
- **Automatic** test procedure
- Cooling by **pressurized air** or **water**
- No need to apply weights, **automatic loading**
- Optional: robotic sample feed → can test up to 120 specimens fully automatically



### HDT Automat

- Fully automated 24/7 measurement of the heat deflection temperature
- 6 measuring stations
- Automatic weight appliance, sample measurement and sample feeding
- Cooling from 300°C to room temperature in 12 minutes
- Magazine for up to 90 samples

## Features overview

Product	Basic Vicat/HDT	Compact Vicat/HDT	IC Vicat/HDT	ECO Vicat	Automat HDT
Test method	Vicat/HDT	Vicat/HDT	Vicat/HDT	Vicat	HDT
Test stations	1 to 6	2 to 6	1 to 6	2, 3 or 6	6
Temperatures up to 300°C	•	•	•	•	•
Temperature sensor for each measurement station		•	•	•	•
Creep tests possible	•	•	•		
Thermal-mechanical-analysis possible	•				
Automatic start of cooling	•	•	•	•	•
water cooling coil	•	•		•	
Integrated cooling			•		•
Optional external oil-cooling	•	•			
Automatic specimen immersion		•	•	•	•
Automatic load application		optional	optional	•	•