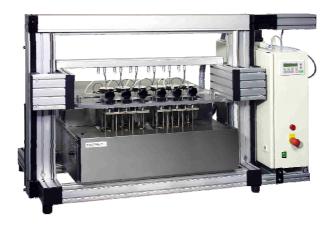




# 40-190-... IC Vicat/HDT

#### **Standards**

ASTM D 648, ASTM D 1525, BSI 2782 (method 120 C), BSI 2782 (method 121 C), DIN 53460, DIN 53461, ISO 75, ISO 306, NT T 51-005, NT T 51-201, UNE 53075, UNE 53118



## **Application**

The Coesfeld Vicat/HDT IC series provides test devices for determining the VICAT softening temperature of thermoplastics and the heat deflection temperature (HDT) of fibre-reinforced and filled thermosetting plastics, as well as of thermoplastics and hard rubber.

#### **Features**

The IC series provides automatic measuring and with integrated cooling. Depending on the requirements, there are device configurations with 1 to 6 measuring stations. The integrated motorised platform with the optionally extendable weight support lowers the measuring stations automatically into the tempering bath during the tests. After measuring, the integrated high-performance heat exchanger ensures rapid recooling of the bath liquid to the start temperature.

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#### **Technical Data**

Temperature range
Temperature gradient
Start temperature
Inductive displacement gauges, resolution
Inductive displacement gauges, accuracy
Displacement range
HDT support clearance
Bath volume
Creep tests

from +20°C ... +300°C 50 K/h, 120 K/h or freely selectable freely selectable 0.001 mm better than 0.01 mm up to 13 mm 64 mm, 100 mm, 101.6 mm approx. 13.7 I (IC/A) / approx. 21.1 I (IC/B) possible

E-Mail: mail@coesfeld.com

Internet: www.coesfeld.com





### **Dimensions and Connection**

Dimonolono una Comicotton				
	IC/A - up to 3 measuring stations	IC/B - up to 6 measuring stations		
Dimensions (WxDxH)	1230 x 710 x 910 mm	1500 x 710 x 910 mm		
Weight	approx. 138 kg (without accessories)	approx. 156 kg (without accessories)		
Mains	230 V, 50 Hz	230 V, 50 Hz		
Power	3000 VA	3000 VA		
Interfaces	RS232			
Air	n.a.			
Cooling	integrated high-performance heat exchanger; from 300°C to 23°C in approx. 25			
	min (depending on cooling water temperature)			
Others	n.a.			

# **Device configuration**

incl.	Articlenumber	Description
-	40-190-001	Vicat/HDT Tester IC 3
-	40-190-002	Vicat/HDT Tester IC 3+
-	40-197-004	Vicat/HDT Tester IC 4
-	40-197-003	Vicat/HDT Tester IC 4+
-	40-197-001	Vicat/HDT Tester IC 6
-	40-197-002	Vicat/HDT Tester IC 6+

### **Accessories**

Accessories				
incl.	Articlenumber	Description		
-	3-897-068	Transformator for Coesfeld devices; 110 V / 5000 W		
-	3-897-065	Transformator for Coesfeld devices; 127 V / 5000 W		
-	40-191	Vicat indenter		
-	40-192	HDT compression fin	V	
-	40-196	Vicat weights set 10 N and 50 N in accordance with ISO 306 and ASTM D 1525 (1 set required per measuring station)		
-	40-217	HDT weight set ISO 75-2, flatwise; for test samples 4 x 10 x 80mm for bending stresses of 1.8/0.45 or 8 MPa (1 set required per measuring station)		
-	40-218	HDT weight set ISO 75-2, edgewise; for test samples 4 x 10 x 120mm for bending stresses of 1.8/0.45 or 8 Mpa (1 set required per measuring station)		

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st standards, all 1g steps	

-	40-261	Universal weight set for Vicat/HDT test standards, all loads from 1 to 5500g are possible in 1g steps (1 set required per measuring station)	
-	40-199-001	Automatic weight application device	
-	40-194-001	HDT calibrating and centring tool for aligning the HDT compression fin (1 required per tester)	
-	40-240	Calibrating set for displacement sensor, for VICAT and HDT (1 required per tester)	
-	40-197-MESS	Measuring station, complete (measuring stand, displacement sensor and temperature sensor), for retrofitting to existing IC devices	
-	40-212-006 40-212-005	Heat transfer liquid (silcone oil, 5 l container) Heat transfer liquid (silcone oil, 10 l container)	
-	60-005-027	Recirculating cooler for Vicat/HDT water cooling (Volume water reservoir 35 I; Cooling output at 25°C water outlet temp. 4.70 kW)	
-	40-213 40-201	Nitrogen cover for additional cooling for IC devices Cutting pincers for 10x10 mm Vicat specimen preparation	

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