Automatic Vicat Apparatus

LT-CE0016 | Programmed penetration and digital test records

0.1 mm resolution • Touchscreen control • Computer connection



0.1 mm

PENETRATION MEASUREMENT RESOLUTION

10 kg

APPARATUS WEIGHT

EN 196-3 • EN 13279-2 • EN 480-2 • ASTM C191 • ASTM C187

LT-CE0016

Photograph and Control Components

Vertical penetration system, control screen and specimen area

LT-CE0016 performs penetration at programmed intervals and records penetration depth. The test profile, appropriate tool and mould support evaluation of initial and final setting times.

PENETRATION SYSTEM

The vertical system applies the appropriate needle or probe to the specimen. Check the tool and reference level before testing.

TOUCHSCREEN

Manage the test profile, start delay and penetration intervals through the on-device interface.



SPECIMEN AREA

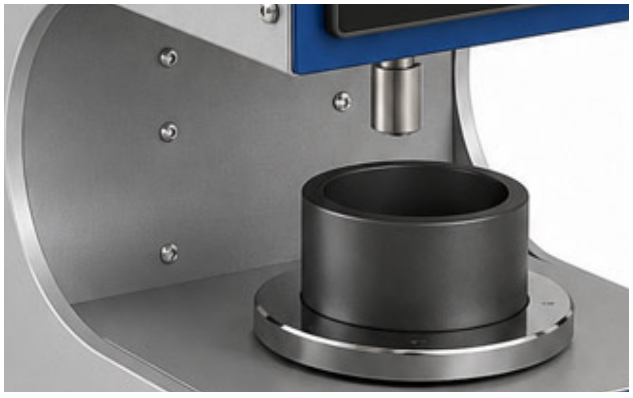
The accessible test area simplifies mould placement. Prepare the specimen and mould according to the selected method.

SPECIMEN PLATFORM

Positions and supports the mould. Penetration locations change automatically during the programmed sequence.



Photograph detail of the touchscreen control



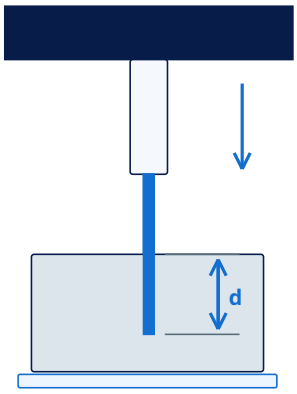
Penetration tool, mould and specimen platform

LT-CE0016

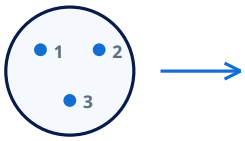
From Programmed Penetration to Setting Time

Select profile • Measure at intervals • Evaluate depth and time records

AUTOMATIC PENETRATION • POINT REPOSITIONING



NEW MEASUREMENT POINTS



d / t

1 • 2 • 3

d: PENETRATION DEPTH • t: ELAPSED TIME

DEPTH / TIME RECORDS = SETTING TIMES

FUNCTIONAL SCHEMATIC • REPRESENTATIVE POINTS • NOT TO SCALE

Prepare and Program

Install the appropriate tool and mould. Prepare the specimen; select the profile, start delay and measuring interval.

Measure and Reposition

The apparatus applies penetration automatically. It records depth and moves to a new location for the next reading.

Evaluate and Record

Compare depth values with the method limits. Record initial and final setting times with the test information.

Penetration depth generally decreases as the specimen sets. The apparatus evaluates depth and time together. Setting criteria depend on the method. The 0.1 mm resolution is separate from measurement accuracy or setting-time tolerance.

Specimen and Method Selection

Select needles, probes and moulds for cement, mortar or suitable gypsum-based specimens. Match tool geometry and the test profile to the applied standard.

EN 196-3 addresses cement; EN 13279-2 addresses gypsum; EN 480-2 addresses admixture setting tests. ASTM C187 covers consistency; ASTM C191 covers Vicat setting time. Report results with the applied method.

Local Control and Data Management

The touchscreen manages test settings and results on the apparatus. Computer connection supports reviewing records and storing test data.

Record specimen identity, water-addition time, ambient conditions and test profile. Review setting results together with depth-time records. Verify tool cleanliness and the reference level before each test.

LT-CE0016

Technical Specifications and Test Control

LT-CE0016 • Automatic Vicat penetration system

Specification	Technical Information
Product Code	LT-CE0016
Test Function	Determination of initial and final setting times
Measurement	Automatic penetration at programmed intervals
Measuring Resolution	0.1 mm
Operator Interface	Touchscreen
Program Settings	Test profile, start delay, measuring interval
Point Positioning	Automatic relocation between penetrations
Data Records	Penetration depth and test time
Computer Connection	Test management and data evaluation
External Dimensions	200 × 400 × 410 mm
Apparatus Weight	10 kg
Standards	EN 196-3, EN 13279-2, EN 480-2; ASTM C191, C187

Tool, Reference Level and Test Profile

Select the tool and mould for the specimen. Check the reference position; match time origin, measurement interval and setting criteria to the method.

From Specimen to Digital Setting Records

01
Prepare
Position the specimen in its appropriate mould.

02
Program
Select the test profile and measuring interval.

03
Measure
Run automatic penetration and repositioning.

04
Record
Save setting times with the test details.

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