CEMENT

MORTAR MIXER

PRODUCT CODE

NT-CE5880A Automatic 5 liters capacity cement mixer, ASTM
NT-CE5880E Automatic 5 liters capacity cement mixer, EN
NT-CE5885A Manual 5 liters capacity cement mixer, ASTM
NT-CE5885E Manual 5 liters capacity cement mixer, EN

STANDARDS

EN 196-1, 196-3, ASTM C187, C305, AASHTO T129, T131, T162

SPECIFICATIONS

Developed to a high level of quality and reliability, this cement and mortar mixer fully complies with standards and offers a wide range of uses in testing different materials for research applications.

Thanks to its planetary mixing mechanism, the mixing paddle rotates around its own axis and orbits the mixing vessel. This bi-directional mixing ensures homogeneity and repeatability throughout the entire mix.

KEY FEATURES

• Programmable Mixing Cycles: Pre-set programs in accordance with TS EN 196-1, TS EN 196-3, and ASTM C 305 standards with a microprocessor control system.
• Dual Speed Option:
o Low Speed: 62 rpm (orbital), 140 rpm (axial)
o High Speed: 125 rpm (orbital), 285 rpm (axial)
• 5-Liter Stainless Steel Mixing Bowl: Easy to clean and durable.
• User-friendly interface, digital display, warning light, and mode button allow for quick switching to different programs.
• Automatic Sand Dispenser: Automatically transfers sand to the mixing bowl.

CEMENT

MORTAR MIXER

TECHNICAL PROPERTIES

Model	Automatic	Manuel
Capacity	5 L	5 L
Motor r.p.m.	140/62 rpm – 285/125 rpm	140/62 rpm – 285/125 rpm
Operating Modes	Automatic / Manuel	Manuel
Material	Stainless steel mixing bowl and paddle	Stainless steel mixing bowl and paddle
Sand Dispenser	Automatic	Manuel
Mixing Program	EN 196-1/3, ASTM C305 and one user defined mode	Low/high speed button
Warning System	Warning light and buzzer for critical time warning	---
Area of Use	Cement pastes, mortar mixes	Cement pastes, mortar mixes

CEMENT

Length Comparator (Shrinkage & Expansion)

PRODUCT CODE

NT-CE0020 Length Comparator (Shrinkage & Expansion)

STANDARDS

ASTM C151, ASTM C490, EN 12617-4, EN 12808-4, EN 1367-4, EN 680, UNI 6687

SPECIFICATIONS

Length Change Measuring Sets are designed to precisely measure the length change (shrinkage/expansion) of cement mortar or concrete samples after autoclave strength testing. They are an ideal solution for dimensional stability analyses in both laboratory and quality control processes.

KEY FEATURES

- **Accuracy:** 0.001 mm
- **Maximum Measuring Length:** Up to 300 mm
- **Material:** High-strength steel structure
- **Digital Display:** 12.7 mm stroke
- **Reference Rod is required for calibration**

Reference rods and molds must be ordered separately according to the test standard.

Compatible Sample Dimensions and Standards

Sample Size (mm)	Compatible Standards
40×40×160	EN 12617-4, EN 12808-4, ASTM C348, DIN 1164
25×25×285	ASTM C490
50×50×200	EN 1367-4
70×70×280	NF P18-427
75×75×254	BS 1881, 6073

CEMENT

Cement Flow Table

PRODUCT CODE

NT-CE0060A Çimento Yayılma tablası ASTM
NT-CE0060E Çimento Yayılma tablası EN
NT-CE0061A Motorlu Çimento Yayılma tablası ASTM
NT-CE0061E Motorlu Çimento Yayılma tablası EN

STANDARDS

AASHTO T132, ASTM C230, ASTM C1437, ASTM C109, EN 459-2, EN 1015-3, EN 13279-2

SPECIFICATIONS

Flow Tables for Mortar and Building Lime

The Cement Flow Table is used to determine the hydraulic cement consistency, flow tests, and workability properties of cement mortar, lime, and similar binder materials. Designed in accordance with EN and ASTM standards, this testing device is available in two models: manual and motorized.
The motorized model saves time with its digital counter and automatic stop function, while the manual model offers economical and practical solutions.
EN models: Comes with a Ø300 mm steel table, a 60 mm high conical mold, and a tamper.
ASTM models: Comes with a Ø254 mm brass table, a 50 mm high conical mold, and a tamper.

All models feature a high-strength chassis.

CEMENT

Cement Jolting Table

PRODUCT CODE

NT-CE0980 Cement Jolting table
NT-CE0982 Cement Jolting table with noise reduction cabinet
NT-CE0985 Feed hopper

STANDARDS

EN 196-1 EN ISO 679 BS 4550

SPECIFICATIONS

The Cement Jolting Table is a high-precision laboratory instrument specifically designed for compacting 40x40x160 mm cement mortar prisms in a three gang mold. Fully compliant with EN 196-1, EN, and ISO standards, this instrument offers superior performance in terms of repeatability, safety, and long term use.

KEY FEATURES

·**A constant rotation speed of 60 revolutions per minute (rpm)** ensures homogeneous compaction of the cement prism.
·**An adjustable 15 mm drop height** ensures accuracy after use.
·**A digital counter allows** you to enter a specific drop count, and the device automatically stops at the end of the test.
·**A quick mold clamping and dismounting system** allows the user to work easily and efficiently.
·**A compact and rigid structure** increases stability and prevents unwanted vibrations.
·**A protective motor enclosure** prevents access to moving parts, ensuring safe operation.

CEMENT

Le Chatelier Water Bath

PRODUCT CODE

NT-CE4120 Le Chatelier water bath

STANDARDS

EN 196-3, EN 450-1, EN 459-2; EN ISO 9597

ÜRÜN TANIMI

Le Chatelier Water Bath is used with Le Chatelier moulds for the determination of the soundness of cement paste fly ash for concrete and lime. The internal chamber is made of steel and and the exterior case of the bath are manufactured from electrostatic powder painted steel. The Bath is capable of reaching boiling point in 30 minutes by using two heater units. Le Chatelier Water Bath has a timer which is used to set the time for reaching the boiling point. After that time the temperature of water is regulated by using one heater unit to save energy. Supplied complete with a removable rack to hold up to 12 moulds. A cover is also supplied as standard.

Le Chatelier Moulds are should be ordered separately.

CEMENT

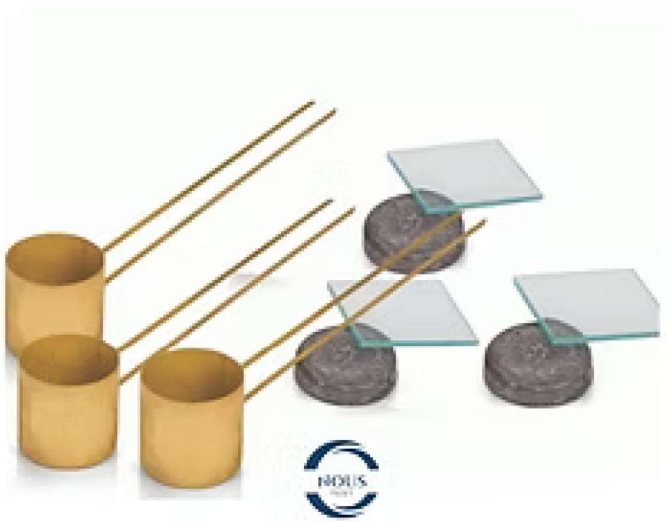
Le Chatelier Test Set

PRODUCT CODE

NT-CE4100 Le Chatelier Mould
NT-CE4110 Le Chatelier Test Set

STANDARDS

EN 196-3, EN 450-1, EN 459-2; EN ISO 9597



SPECIFICATIONS

The Le Chatelier Soundness Test Set is designed to assess the soundness of cement by measuring its potential expansion when subjected to boiling water, ensuring the material's volume stability.
This apparatus is essential for detecting unsoundness in cement caused by excessive free lime or magnesia, which can lead to delayed expansion and structural issues.

Le Chatelier Soundness Set includes;

Le Chatelier moulds 3 pcs.
50x50 mm glass plates 6 pcs.
300 gr Weights 1 pcs.
100 gr Weight, 3 pcs.
Tamping Rod 17 mm dia. x 70 gr
Steel Ruler

CEMENT

Vicat Test Apparatus

PRODUCT CODE

NT-CE0540E Vicat Test Apparatus, EN complete set
NT-CE0540A Vicat Test Apparatus, ASTM complete Set
NT-CE0541E Vicat Mould, EN
NT-CE0542E Vicat initial needle, EN
NT-CE0543E Vicat final needle, EN
NT-CE0541A Vicat Mould, ASTM
NT-CE0542A Vicat needle, ASTM
NT-CE0544 Vicat transfer dish
NT-CE0545 Vicat Consistency Plunger, Ø10mm.

STANDARDS

EN 196-3, EN 480-2, AASHTO T131, ASTM C191

SPECIFICATIONS

The Vicat instrument is used to determine the setting time of cement paste and to measure its consistency.

The device consists of a metal frame, a graduated scale with index, a 300 g sliding probe, a Ø 10 mm consistency probe, an EN/ASTM Vicat mould, an EN/ASTM needle set and a glass base plate and a 110°C glass thermometer.
Accesories can be ordered seperatly if needed.

Accesories

NT-CE0541E Vicat Mould, EN
NT-CE0542E Vicat initial needle, EN
NT-CE0543E Vicat final needle, EN
NT-CE0541A Vicat Mould, ASTM
NT-CE0542A Vicat needle, ASTM
NT-CE0544 Vicat transfer dish
NT-CE0545 Vicat Consistency Plunger, Ø10mm.

CEMENT

Blaine Fineness Apparatus

PRODUCT CODE

NT-CE2473 Manuel Blaine Fineness Apparatus
NT-CE2474 U-Tube Manometer
NT-CE2475 Stainless Steel Cell with perforated disk
NT-CE2476 Filter paper, 100 pcs.
NT-CE2477 Blaine manometer liquid, 250 ml

STANDARDS

AASHTO T153, BS 4359:2, EN 196-6
ASTM C204

SPECIFICATIONS

The Blaine apparatus is used to determine the particle size of Portland cement, lime, and similar powders, expressed in terms of their specific surface fineness.

It consists of a U-shaped manometer tube mounted on a steel stand, a stainless steel cell, a perforated disc, a piston, a rubber cell plug, and a rubber hand pump.

CEMENT

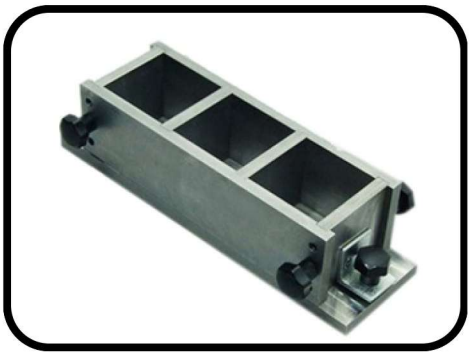
Three Gang Moulds

PRODUCT CODE

NT-CE2980 40x40x160 mm, three gang mould
NT-CE2981 50x50x50 mm, three gang mould

STANDARDS

EN 196-1, ASTM C109



SPECIFICATIONS

The special designed molds used for cement compression and flexural tests are made of steel, and all parts are numbered.

In accordance with the EN 196-1 standard, samples are first subjected to flexural testing using 40x40x160 mm molds. Following the flexural testing, the remaining portions are then subjected to cement compression testing.

CEMENT

Automatic Cement Compression & Flexural Test Press

PRODUCT CODE

NT-CE2370 Single-space 250 or 15 kN Automatic Cement Compression or Flexural Testing Machine (Frame type should be specified during the order)
NT-CE2372 250/15 kN Automatic Cement Compression & Flexural Testing Machine
NT-CE0070E Compression Jig for testing 40.1x40x160 mm sample portions, **EN**
NT-CE0072E Flexural Jig for testing 40.1x40x160 mm prizm sample, **EN**
NT-CE0070A Compression Jig for testing 50x50x50 mm cube samples, **ASTM**
NT-CE0072A Flexural Jig for testing 40x40x160 mm prizm samples, **ASTM**
NT-CE0070B Compression Jig for testing 70.7 mm cube samples, **BS**

STANDARDS

ASTM C109, ASTM ASTM C348, ASTM C349, EN 196-1, EN 459-2, EN 1015-11,EN 13454-2, EN 13892-2; BS 3892-1, BS 4550-3.4

SPECIFICATIONS

The Automatic Cement Compression and Flexural Press is designed for flexural strength and compression testing of 40.1x40x160 mm mortar prisms or for compressive strength testing of 40.1x40 mm sample portions, 50x50 mm, and 70.7 mm mortar cubes.
The Automatic Cement Compression and Flexural Press meets CE standards for operator safety and health. Load measurements are performed using a Load Cell (high-precision load cell).

The Automatic Cement Compression and Flexural Testing Press can be ordered in two different configurations:
A single frame with two columns for compression or flexural tests (the test frame either compression or flexural needs to be defined during order process) or a frame with dual test areas suitable for flexural/compression tests.

CEMENT

Automatic Cement Compression & Flexural Test Press

SPECIFICATIONS

The press's upper ball-seat mechanism plate and lower rigid table are manufactured from high-quality, Ø 165 mm hardened steel (greater than HRC 53), and the surface roughness is less than 3,2 µm (micron) to meet the standards.

The Automatic Hydraulic Power Unit consists of a dual-stage pump, pressure transducer, safety valve (to prevent overloads), digital readout and control unit, oil tank, and load cell connection jacks.

Safety features include: Maximum Pressure Valves to prevent overloading, Limit Switch to limit piston travel, Emergency Stop Button, and Software-controlled maximum load limiting.

TECHNICAL DETAILS

Model	NT-CE2370	NT-CE2372	
Test Type	Compression or Flexure	Flexure	Compression
Capacity	250 kN / 15 kN	15 kN	250 kN
Platen Dimensions (Lower + Upper)	Ø165 mm	Ø165 mm	Ø165 mm
Maximum Piston Movement	20 mm (1,18”)	20 mm (1,18”)	20 mm (1,18”)
Power	750 W	750 W	
Dim. (W x D x H)	830 x 500 x 1580 mm	1020 x 500 x 1580 mm	