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PRODUCT CATALOG

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SOIL

10 LITER CAPACITY PLANETARY MIXER

PRODUCT CODE

NT-G3100M 10 Liter capacity planetary mixer

SPECIFICATIONS

This 10-liter mixing capacity mixer is designed for high quality and reliability, suitable for benchtop use. It adheres to standards while also meeting the demand for more extensive testing of other materials for research applications.

Thanks to its planetary mixing mechanism, the mixing paddle rotates around its own axis at 20 to 480 rpm and simultaneously moves around the mixing bowl at 10 to 240 rpm. This bi-directional mixing ensures homogeneity and repeatability throughout the entire mix. The speed can be manually adjusted by the user using the potentiometric speed adjustment knob on the mixer. The planetary mixer is equipped with safety switches that automatically stop mixing if the user lowers the mixing bowl with the handle.
If used for asphalt design, an electric Isomantle heater must be ordered separately.
For proper mixing operation, the container containing the bituminous sample must be heated to the temperature specified in the Standards. A standard laboratory oven is used for this purpose, and the sample mixing process is performed immediately after removing the container from the oven.

Technical Features

Capacity	**10 Liter**
Material	**Stainless steel mixing bowl and pallet**
Mixing program	**Manual, with potentiometer**
Areas of use	**Sample preperation**

SOIL

In-situ CBR Test Set

PRODUCT CODE

NT-S5680 In-situ CBR Test apparatus, 50 kN capacity

STANDARDS

ASTM D4429, BS 1377:9, BS 1924:2

SPECIFICATIONS

The Field CBR Test Set is a testing system used to quickly and accurately measure the bearing capacity of soils in situ.
This device, critically important in engineering applications such as road construction (asphalt and stabilized road bases), foundations and fill areas, airport runways, and infrastructure, allows for the determination of the California Bearing Ratio (CBR) in the field.
This system is equipped with a mechanical jack, load ring, penetration piston, and load ring. Its 50 kN capacity ensures high accuracy in soil strength measurements.

TECHNICAL SPECIFICATIONS

Loading Jack (Mechanical)	50 kN capacity, ball bearing, manual operation
Load Ring	50 kN capacity, high precision measurement
CBR Penetration Piston	Standard sizes, adjustable
Dial Gauges	Adjustable, with fixed connection piece
Extension rods	2 pieces of 110 mm, 1 piece of 305 mm, 1 piece of 610 mm
Datum Bar System	With tripod stands and 1400 mm bar
Additional Load Weights	4.5 kg circular and slotted, 9 kg slotted weights
Carrying Case	Wooden box for easy transport and storage

SOIL

CBR Test Device with Load Ring

PRODUCT CODE

NT-S2580 50 kN CBR Test device with Load Ring, 220-240V 50-60hz. 1 ph.

STANDARDS

AASHTO T193, ASTM D1883,
BS 1377:4, EN 13286-47

SPECIFICATIONS

The CBR Testing Machine is designed to determine CBR values and strength values of base and subbase materials with dimensions less than 19 mm.
The CBR testing machine consists of a bench-type motorized frame with a compact base unit. The machine has a capacity of 50 kN and a constant test speed of 1.27 mm/min.

The machine is equipped with upper and lower piston travel limit switches.
Device is supplied complete with a 50 kN capacity load ring, a penetration piston, a stabilising bar, and a digital indicator with a 25 mm stroke and 0.01 mm accuracy.

TECHNICAL SPECIFICATIONS

Frame	50 kN capacity, Electical engine for loading
Load Ring	50 kN capacity, high sensitive measurement
CBR Penetration Piston	Complies with Standards, height adjustable
Dial Gauges	Adjustable, with connection
Dim. weight (w x d x h)	470 x 610 x 1100 mm approx. 80 kg
Power	220-240V 50-60hz. 1 ph

SOIL

Automatic CBR Test Device

PRODUCT CODE

NT-S2590 Automatic Digital CBR Test Machine 50 kN 220-240V, 50-60hz.1ph.

STANDARDS

AASHTO T193, ASTM D1883 •
EN 13286-47 • BS 1377-4

SPECIFICATIONS

The Automatic CBR Testing Machine is specifically designed to measure the bearing capacity of road substructures and soil layers in a laboratory environment.
It is particularly suitable for the strength analysis of highway subbases, subgrades, and cohesive materials with a maximum grain size of 19 mm.
The device features a 50 kN capacity double-column test frame with an electromechanical drive, a digital control unit, and high-precision load cell measurement systems. Its user-friendly interface and automated testing features increase test repeatability and accuracy.
The machine is equipped with upper and lower piston travel limit switches.

Advantages

- ✅Full automatic test cycle: Load, data-logging and graphs are automatically produced.
- ✅High Sensitivity: ±0.1% accuracy with advanced sensor technology
- ✅Multi Purpose use: Compatibility with ASTM, BS, EN, AASHTO test standartlards
- ✅Ease of Use: User-friendly interface and quick installation
- ✅Robust Frame: Robust and compact design suitable for laboratory conditions

Technical Specifications

Frame	50 kN capacity, Digital screen
Load Cell	50 kN capacity, high sensitive load cell
CBR Penetration Piston	Complies with the standards
Displacement transducer	25mm x 0,01mm sensitive linear potentiometric displacement transducer
Ölçüler En x Boy x Yükseklik	470 x 610 x 1100 mm ağırlık yaklaşık 80 kg
Voltaj	220-240V 50-60hz. 1 ph

SOIL

Automatic Soil Compactor

PRODUCT CODE

NT-S0560 Automatic Soil Compactor
220-240V, 50 hz. 1 ph.

STANDARDS

ASTM D698, CNR N. 69, CNR UNI 10009, EN 13286-2, ASTM D1557, ASTM D1883, AASHTO T99 AASHTO T180, AASHTO T193

SPECIFICATIONS

The Automatic Soil Compactor is used to determine the relationship between molding water content and dry unit weight of soils, enabling accurate determination of optimum moisture content and maximum dry density.

Capable of performing both Standard and Modified Proctor compaction tests, the unit ensures precise, uniform compaction as per ASTM, AASHTO, and EN testing requirements.
A digital screen enables the operator to choose the type of compaction required (circular blow pattern for 4” or 100mm specimen moulds and double concentric circles for 6” or 150 mm specimen moulds).
The height of the rammer drop is adjustable to 305 mm or 457 mm and the weight of the rammer can be adjustable either 2,5 kg or 4,5 kg. Adjustable rammer weights and drop heights support compliance with multiple standards, enhancing the machine’s adaptability to varied testing requirements.
The rotating base ensures even distribution of compaction energy, eliminating inconsistencies and improving specimen integrity.

The machine is designed for long-term operation and has built-in safety features (to CE Standards) to prevent it from being operated without the unbreakable safety guard.

ZEMİN

Manuel CBR, Marshall Sample Extruder

PRODUCT CODE

NT-S0800 Manuel Sample Extruder 30 kN

STANDARDS

AASTHO T134, AASTHO T180, AASTHO T193, AASTHO T245, ASTM D1557, ASTM D1559, ASTM D1883, ASTM D698, BS 1377:4, BS 1924:2, BS 598:107, EN 12697-30, EN 13286-2, EN 13286-47

SPECIFICATIONS

Marshall/CBR/Proctor Sample Extruder is designed to extrude specimens easily and quickly from Marshall and CBR, standard and modified proctor moulds. Constructed from stell,

The extruder is supplied complete with a manual hydraulic jack and 2 pcs. adaptor to extrude specimens from Ø100 mm (4”) and Ø150 mm (6”) dia. Proctor, CBR and Marshall moulds.
Moulds can be easily fitted by dedicated bracket support that can be adjusted in order to match the right height of the mould to be extract.

SOIL

Liquid Limit Device (Casagrande)

PRODUCT CODE

NT-S2020 Manuel Liquid Limit Device
NT-S2120 Motorised Liquid Limit Device
220 V 50 Hz, 1 ph.
NT-S2125 Metal Grooving tool ASTM

STANDARDS

ASTM D4318; BS 1377:2;
AASHTO T89

SPECIFICATIONS

The liquid limit device is used to determine the moisture content at which clay soils pass from a plastic to a liquid state. Defined as a point where two halves of a soil sample flow together when dropped 25 times in a specified manner using a Liquid Limit machine. The device consists of: removable brass cup, cup adjustment crank, blow counter, metal grooving tool and hard plastic base complies with the related standards.

Manuel Model
Hand-operated liquid limit machine features mechanical revolution counter attached to the shaft to register the number of drops in the liquid limit cup.

Motorised Model
Motorized liquid limit device gives uniform testing with greater degree of accuracy . Unit is comprised of manual liquid limit machine with geared motor to give proper operating speed and a counter. Machine is attached to metal plate with rubber feet. Includes grooving tool and gauge block

Metal Grooving Tool

SOIL

Sieve Shaker Device

PRODUCT CODE

NT-G1130 Sieve Shaker with digital time adjustment, suitable for sieves having dia. 200 - 250 - 300 - 315 mm, and 8”...12”

NT-G1131 Sieve Shaker with digital time and frequency adjustment by a potentiometer, suitable for sieves having dia. 200 - 250 - 300 - 315 mm, and 8”...12”

STANDARDS

ASTM E11, ASTM E323, BS 410-1, BS 410-2, EN 932-5, ISO 3310-1, ISO 3310-2

SPECIFICATIONS

The sieve shaker applies a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve. They are ideal for heavy duty applications when heavy or large bulk samples have to be analyzed.

Sieve shakers are equipped with a power source which ensures the right vibration is applied to the sieves and sample for fast, accurate and repeatable tests. The vertical movement is fixed to ensure the sample spends maximum time on the sieve surface.

The shaker is fitted with a clamping device that ensures sieves are being hold firmly without over-tightening and allows them to be quickly removed and replaced.

The shaker is fitted with digital timer which can be pre-set for any duration up to 99 minutes.

Device accepts 12 pieces of 200 (8”) mm half-height (50mm) sieves + pan and cover or 8 pieces of 300 (12”) mm half height (50mm) sieves + pan and cover

Wet sieving kits in the appropriate sizes may be used with this shaker.

SOIL

Constant Head Permeability Test Set

PRODUT CODE

NT-S0040 Constant Head Perpeability Test Set Ø75 mm
NT-S0042 Constant Head Perpeability Test Set Ø115 mm

STANDARDS

BS 1377:5

SPECIFICATIONS

The setup is supplied complete with three manometer tubes mounted on a wooden base, a steel rule, a clear plastic water tank, plastic hoses, and a constant-level permeability cell.
The constant-level permeability cell is constructed from a Plexiglas body between a top and bottom aluminum plate with three pressure points.

SOIL

Falling Head Permeability Test Set

PRODUCT CODE

NT-S0016 Falling Head Permeability Test Set

STANDARDS

BS 1377:5

SPECIFICATIONS

A falling head permeability test is a laboratory test performed to determine the water permeability of soils. This test is used to understand the water flow rate in soils and the effects of soil properties on water movement. The falling head permeability test aims to determine the hydraulic conductivity coefficient (k) of soils. Hydraulic conductivity indicates the soil's ability to conduct water and is a critical parameter for water movement, drainage, and stability analyses in geotechnical engineering.

The Falling Head Permeability Cell is constructed of steel with an inner diameter of 100 mm. The set consists of a wooden stand with a manometer tube, a water overflow tank, permeability cell inner dia 100 mm and a plastic hose.

SOIL

Consolidation (Odeometer)

PRODUCT CODE

NT-S0030 Consolidation device (one dimensional)
NT-S0031 Consolidation bench with 3 device capacity
NT-S0032 Consolidation Cell for Ø 50 mm samples
NT-S0032/1 Lower and upper porous stone for Ø 50 mm samples
NT-S0032/2 Cutting ring for Ø 50 mm samples
NT-S0032/3 Calibraiton disk for Ø 50 mm samples
NT-S0032/4 Sample preperation apparatus for Ø 50 mm samples
NT-S0033 Consolidation Cell for Ø 63,5 mm samples
NT-S0033/1 Lower & upper porous stone for Ø 63,5 mm samples
NT-S0033/2 Cutting ring for Ø 63,5 mm samples
NT-S0033/3 Calibration disk for Ø 63,5 mm samples
NT-S0033/4 Sample preperation apparatus for Ø 63,5 mm samples
NT-S0034 Consolidation Cell for Ø 75 mm samples
NT-S0034/1 Lower & upper porous stone for Ø 75 mm samples
NT-S0034/2 Cutting ring for Ø 75 mm samples
NT-S0034/3 Calibration disk for Ø 75 mm samples
NT-S0034/4 Sample preperation apparatus for Ø 75 mm samples
NT-S0036 Consolidation weight set 50 kg (3x 10 kg, 2x 5 kg, 3x 2 kg, 2x 1 kg, 3x 0,5 kg, 2x 0,25 kg)
NT-S0038 Consolidation weight set 64 kg (4x 10 kg, 3x 5 kg, 2x 2 kg, 3x 1 kg, 3x 0,5 kg, 2x 0,25 kg)
NT-GM0250 Digital dial gauge 12.7 mm stroke 0,001 mm sensitivity (don't sleep)
NT-GM0260 digital dial gauge 25 mm strok 0,01 mm sensitivity (don't sleep)

How to Sellect;

For Ø 50 mm Samples
(For different diameter samples, only the cell code will be changed, other codes and quantities will remain the same)
NT-S0030 Consolidation device **3** pcs
NT-S0031 Consolidation bench (3 device capacity) **1** pcs
NT-S0032 Consolidation Cell for Ø 50 mm samples **3** pcs
NT-S0036 Consolidation weight set 50 kg **3** pcs
NT-GM0250 Digital dial gauge 12.7 mm stroke **3** pcs or
NT-GM0260 Digital dial gauge 25 mm stroke **3** pcs

STANDARDS

ASTM D2435 ASTM D3877 ASTM D4546 AASHTO T216 BS 1377:5 UNE 103-602 UNI EN ISO 17892-5

SPECIFICATIONS

NT-S0030 is used to determine the behavior of the soil sample upon certain loading in a specified period of time. It indicates the settlement characteristics of the soil which is known as Consolidation.
The beam provides three loading ratios: 9:1, 10:1, and 11:1. The beam assembly is fitted with an adjustable counterbalance weight.
Maximum load: 170 kg of slotted weights, corresponding to 1870 kg using the beam ratio 11:1.
Consolidation cells are manufactured from corrosion-resistant materials in accordance to the standards. The outer wall of the cell is made of Plexiglas, and collapse can be observed during testing. All cells are supplied with upper and lower porous stones, a loading head, and a cutting ring.

SOIL

Dynamic Cone Penetrometer (DCP)

PRODUCT CODE

NT-S5900 Dynamic Cone Penetrometer Test Set (DCP)

STANDARDS

ASTM D2435 ASTM D3877 ASTM D4546 AASHTO T216 BS 1377:5 UNE 103-602 UNI EN ISO 17892-5

SPECIFICATIONS

The dynamic cone penetrometer (DCP) is a portable, fast and cost-effective manually operated tool for in-place testing of fine-grained soils, pavement base courses, sub-bases, and soil subgrade layers. The test is performed by dropping the 8 kg hammer from a height of 575 mm, the DCP drives a 60° cone into the soil, measuring penetration resistance per blow. This data correlates with soil strength parameters such as CBR (as per sperimental Kleyn 1982 studies.) and allows for quick identification of weak zones or inconsistencies in compaction

The equipment consists of:

- 8 kg Hammer,
- Penetration Bar,
- 2 pcs. 60° Conical Tips,
- Metal Plate for Ruler Attachment,
- Ruler Reading Plate
- Anvil,
- Extension Rod (430 mm),
- Extension Rod (994 mm),
- Wrench, 13 mm and 17 mm,
- Adhesive,
- Steel Ruler, and
- Wooden Carrying Case.

SOIL

Direct Shear Test Device

PRODUCT CODE

NT-S0600 Direct Shear Test Device (5 kN kapasiteli)
NT-S0605 Shear Box Set for 60x60 mm samples
NT-S0610 Shear Box Set for Ø 60 mm samples
NT-S0615 Shear Box Set for 100x100 mm samples
NT-S0620 Shear Box Set for Ø 100 mm samples
NT-S0625 Shear Box Set for Ø 2,5 inch samples
NT-S6100 Slotted weight set, 50 kg (4x10 kg, 1x5 kg, 2x2 kg, 1x1 kg)

STANDARDS

AASHTO T236, ASTM D3080; BS 1377:7; EN-ISO 17892-10

SPECIFICATIONS

The Automatic Direct Shear Testing Machine is a servo-motor-controlled testing system developed to measure the shear strength of soil materials with high precision under consolidated and drained conditions. It is designed to perform direct and residual shear tests on undisturbed or pre-mixed soil samples.
The device offers the ability to perform direct shear testing, one of the most critical tests used in analyzing soil mechanical behavior, fully automatically and without requiring user intervention.

Fully Automatic Test Process: Position resetting and system checks are performed automatically at the beginning of the test.

Servo Motor Driven Mechanism: Infinitely variable speed control between 0.00001 mm/min and 9.99999 mm/min, enabling forward and reverse movement.

Load Application Device: A lever-operated loading system with ratios of 9:1, 10:1, and 11:1 allows for a total vertical load of up to 5 kN with a weight of up to 50 kg.

SOIL

Direct Shear Test Device

SPECIFICATIONS

Sample Size Compatibility:

Square: 60x60 mm and 100x100 mm
Circular: Ø60 mm, Ø100 mm, and Ø2.5''

RS232 & PC Software Compatibility:
The test process can be monitored via computer, graphical data can be generated (shear stress - vertical stress curves), and cohesion and internal friction angles are automatically calculated.

Touch Screen & User Friendly Interface: Test start, stop, data tracking and sensor calibrations can be easily performed via the microprocessor-controlled 6" color TFT screen.

Technical Specifications:

Capacity	: 5 kN
Loading Speed	: 0.00001 – 9.99999 mm/min (forward/reverse)
Reverse Speed	: 10 mm/min
Vertical Displacement	: 10 x 0.001 mm
Horizontal Displacement	: 25 x 0.001 mm
Voltage	: 220-240V, 50-60Hz

Note: Shear box assemblies (for different sizes) must be ordered separately.

SOIL

Plastic Limit Test Set

PRODUCT CODE

NT-S0520 Plastic Limit Test Set
NT-S0521 Glass plate 300x300x10 mm
NT-S0522 Referance rod Ø 3 mm
NT-GH5841 Flexible spatul, 100 mm length
NT-GC0525 Moisture content tins Ø 55x35 mm. (6 pcs.)
NT-GP0010 Wash bottle 250 ml
NT-GS0140 Porcelain cup 100 mm

STANDARDS

ASTM D4318 AASHTO T90 BS 1377:2
UNI 10014 UNE 103-104

PRODUCT CODE

Plasticity is a property of fine-grained soils and refers to the ability to be shaped without breaking. The plastic limit determines the lowest moisture content of soil, by which a sample can be rolled Ø 3 mm without breaking either longitudinally or transversely.

SOIL

Proctor Mould & Rammers

STANDARDS

ASTM D 698, D 1557, D 558;
AASHTO T 99, T180, T 134;
TS EN 13286-2; BS 1377:4, 1924:2;
TS 1900-1

SPECIFICATIONS

Moulds and Rammers are used to determine the relationship between moisture and temperature in compacted soil. Moulds made of coated steel. Consist of mould body, extension collar and base plate. Rammers used in compacting soil samples in proctor moulds are made of coated steel.

Product Code & Technical Specifications

Proctor Moulds

Product Code	Description	Inner Dia. (mm)	Body Height (mm)	Volume (cm3)	Weight (Approx.) kg
NT-S0060A	Standard Proctor Mould, ASTM	101.6 ± 0.4	116.4 ± 0.5	944.0 ± 14	7
NT-S0061A	Modified Proctor Mould, ASTM	152.4 ± 0.7	116.4 ± 0.5	2124 ± 25	9
NT-S0060EN	A Type Proctor Mould (Standard), TS	100 ± 1	120± 1	942	5
NT-S0061EN	B Type Proctor Mould (Modified), TS EN	150 ± 1	120 ± 1	2120	89
NT-S0060BS	1 liter Mould (Standard Proctor), BS, TS	105±0.5	115.5±0,5	1000	5
NT-S0061BS	CBR type Mould (Modified Proctor), BS / Vibrating	152 ± 0.5	127 ± 1	2303	73
NT-S0060TS	1 liter Mould BS, TS 1900-1	105±0.5	115.5±0,5	1000	5
NT-S0061TS	Modified Proctor Mould, TS 1900-	1.524	1.155	~ 2106	8

SOIL

Proctor Moulds & Rammers

Product Code & Technical Properties

Proctor Rammers

Product Code	Description	Rammer Dia (mm)	Falling Height (mm)	Rammer Mass (g)	Weight (Approx.) kg
NT-S0065A	Standard Proctor Rammer, ASTM	508	304.8± 1	2495 ± 23	45
NT-S0066A	Modified Proctor Rammer, ASTM	508	457 ± 1.3	4540 ± 10	8
NT-S0065EN	A Type Proctor Rammer (Standard), TS EN	50 ± 0.5	305± 3	2500 ± 20	45
NT-S0066EN	B Type Proctor Rammer (Modified), TS EN	50 ± 0.5	457 ± 3	4500 ± 40	8
NT-S0065BS	2,5 kg Rammer, BS	50 ± 0.5	300± 3	2500 ± 25	45
NT-S0066BS	4,5 kg Rammer, BS	50 ± 0.5	450 ± 4	4500 ± 50	8
NT-S0065TS	2,5 kg Rammer, Standard Energy,	50	305±1,5	2500±25	45
NT-S0066TS	4,5 kg Rammer, High Energy	50	458 ± 1,5	4500±50	8

SOIL

CBR Mould & Accesories, ASTM

STANDARDS

ASTM D1883; AASHTO T193

SPECIFICATIONS

This method was developed by the California State Highway Department and is accepted by nearly all currently applicable International Standards. The test is intended to evaluate the bearing capacity of soil for flexible pavement design in road construction. Compaction testing can be performed with both manual rammers and automatic compactors.

Made of steel and coated against corrosion, CBR equipment is available in different versions according to the various Standards in force.

ÜRÜN KODU

NT-S0070A	CBR Mold ASTM/AASHTO, 6" (152.4 mm) diameter x 7" (177.8 mm) high, with steel mold body, extension collar,
NT-S0071A	Spacer Disc. T-Handle, ASTM, 150.8 mm diameter x 61.4 mm height
NT-S0072A	Annular Surcharge weight, 2.27 kg
NT-S0073A	Slotted Surcharge weight, 2.27 kg
NT-S0074A	CBR Solid base plate
NT-S0075	Straightedge knife 300x30x5 mm
NT-S0076A	Filter Paper CBR No:5 x 150 mm çap (100 pcs)
NT-S0077A	Screen filter, Ø144 mm, 150 µm screen mesh
NT-S0067A	Tripod for CBR swelling test
NT-S0068	Adjustable Handle and Perforated Aluminum Plate for CBR swell Test
NT-SM0230	Analog dial indicator 30 mm stroke 0.01 mm reading accuracy
NT-SM0260	Digital dial indicator 25 mm stroke 0.01 mm reading accuracy
NT-SM0497	6 mold capacity soaking tank

SOIL

CBR Mould & Accesories, BS

STANDARDS

BS-1377-4

SPECIFICATIONS

Made of steel and coated against corrosion, CBR equipment is available in different versions according to the various Standards in force.
The CBR Mould Set is supplied complete with Extension Collar and Perforated Base Plate.
Other accessories must be ordered separately.

ÜRÜN KODU

NT-S0080B	CBR type Modified Proctor Mould, BS inner dia.: 152 mm, height: 127 mm, including collar and base plate.
NT-S0081B	Spacer Disk BS, Ø150 mm x 50mm height
NT-S0082B	Annular surcharge weight BS/EN, 2 kg
NT-S0083B	Slotted surcharge weight BS/EN, 2 kg
NT-S0084B	CBR perforated base plate BS
NT-S0085B	Filter paper CBR No:1 x 150mm dia ,100 pcs.
NT-S0086B	C-type Key to dismantle the mould 2 pcs
NT-S0087B	Base fixing apparatus
NT-S0075	Straightedge knife 300x30x5 mm

SOIL

CBR Mould & Accesories, EN

STANDARTLAR

EN 13286-47

ÜRÜN TANIMI

Made of steel and coated against corrosion, CBR equipment is available in different versions according to the various Standards in force.

The CBR Mould Set is supplied complete with Extension Collar and Perforated Base Plate.

Other accessories must be ordered separately.

ÜRÜN KODU

NT-S0090E	CBR Mould, EN inner dia.: 150 mm, height: 120 mm, including collar and base plate.
NT-S0091E	Annular surcharge weight BS/EN, 2 kg
NT-S0092E	Slotted surcharge weight BS/EN, 2 kg
NT-S0093E	CBR perforated base plate EN
NT-S0075	Straightedge Knife 300x30x5 mm
NT-S0094E	Filtrer Paper 148 mm dia (100 adet)
NT-S0067E	Tripod, for CBR swell test
NT-S0068	Adjustable Handle and Perforated Aluminum Plate for CBR swelling Test
NT-SM0230	Analog dial indicator 30 mm stroke 0.01 mm reading accuracy
NT-SM0260	Digital dial indicator 25 mm stroke 0.01 mm reading accuracy
NT-SM0497	6 mold capacity soaking tank

SOIL

Particle Size Distribution
Hydrometer Analysis Test Set

PRODUCT CODE

NT-S0720 Hydrometer Analysis Test Set
NT-S0722 High-speed mixer, 13,000 rpm, mixing cup, mixing blade, and a cup switch. 220-230V 50Hz, 1ph.
NT-S0723 Sedimentation cylinder, 1000 ml capacity (6 pcs. included in the set).
NT-S0724 Glass Hydrometer Bath
NT-S0725 Thermostatically controlled heater.
NT-S0726 Circulation pump
NT-S0727 Soil hydrometer 151H, 0.995-1.038 g/ml, 0.001 g/ml readibility
NT-S0728 Soil hydrometer 152H, 5-60 g/ml, 1 g/L readibility
NT-GT00150 Thermometer, 0-50°C, 0.5°C readibility
NT-GS0220 Borosilicate Glass Beaker, 250 ml Capacity
NT-GC0010 Sodium Hexametaphosphate, 1000 g

STANDARDS

ASTM D7928, ASTM D422, AASHTO T 88, TS 1900-1

SPECIFICATIONS

The hydrometer test is a sedimentation analysis performed to determine the grain size of silty and clayey soils consisting of very small-sized particles (grain sizes smaller than 0.075 mm) and the analysis method is based on Stokes' law.

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SOIL

Liquid Limit Penetrometer
Cone Penetrometer

PRODUCT CODE

NT-S0810 Liquid Limit (Cone) penetrometer
NT-S0812 Conical penetration rod 30° and total 80 gr weight
NT-S0812/1 30°Cone test gauge
NT-S0813 Conical penetration rod 60° and total 60 gr weight
NT-S0813/1 60°Cone test gauge
NT-GC0525 Sample cup with cover Ø55x35 mm made of aliminium

STANDARDS

BS 1377:2 UNI EN ISO 17892-12 UNI EN ISO 17892-06

SPECIFICATIONS

The conical tip liquid limit penetrometer apparatus is used to determine at which moisture content the clay soils changes from a plastic to a liquid state (liquid limit) and it is used also for the determination of undrained shear strength.

The device has a mounted adjustable feet with an iron base, a digital measurement display with 0.01 mm precision and and automatic zeroing, a release button, a spirit level and a spirit level, and a timer that allows the penetromer to drop automatically. Three(3 adet) NT-GC0525 55x35 mm sample boxes with lids and one (1) pc. NT-S0812/1 30°Cone test gauge are provided with the device.

The following must be ordered seperatly
NT-S0813 Conical penetration rod 60° and total 60 gr weight
NT-S0812/1 60°Cone test gauge

SOIL

Plate Load Test Apparatus

PRODUCT CODE

NT-S1011 100 kN Capacity Plate Loading Test Set
NT-S1012 200 kN Capacity Plate Loading Test Set
NT-S1015 500 kN Capacity Plate Loading Test Set
NT-S1001 Manual Hydraulic Pressure Jack – 600 bar Pressure, supplied with a pressure transducer, hydraulic hose and a digital backlight LCD display.

STANDARDS

BS 1377, ASTM D1194

SPECIFICATIONS

The plate loading test set is a field loading test that can be used to obtain data for calculating the deformation modulus and bearing coefficient of subgrades and compacted road components.

The Plate Loading Test apparatus is supplied with the following;
NT-S1001 Manual Hydraulic Pressure Jack – 600 bar Pressure, supplied with a pressure transducer, hydraulic hose and a digital backlight LCD display.
NT-S1011 /2 100 kN Capacity Loading Piston (Piston capacity is given according to the selected model).
NT-S1011/3 Datum Bar – made of steel, 2.4 meters long and supplied with two legs and three dial indicator mounting brackets.
NT-SM0230 Dial indicator – 50 mm stroke length and 0.01 mm precision. 3 pcs
NT-S1011/5 :150 mm diameter loading plate
NT-S1011/7 : 305 mm diameter loading plate
And wooden carrying box.

Accesories :
NT-S1011/2 : Datum Bar – made of steel, 2.4 meters long, supplied with two legs and three dial indicator mounting brackets.
NT-SM0230 : Dial indicator – 50 mm stroke length and 0.01 mm precision. Three (3) pieces are used in the plate loading test.
NT-S1011 /4 : Manual Hydraulic Pressure Jack – 600 bar Pressure, supplied with a pressure transducer, hydraulic hose and a digital backlight LCD display.
NT-DSA0150 Digital Screen
Loading Plates – each plate was made of steel and galvanised for protection, thichness are 25 mm.
Loading plates needs to be ordered seperatly

Loading Plates;
NT-S1011/5 : Ø150 mm loading plate
NT-S1011/6 : Ø 253 mm loading plate
NT-S1011/7 : Ø 305 mm loading plate
NT-S1011/8 : Ø 455 mm loading plate
NT-S1011/9 : Ø 610 mm loading plate
NT-S1011/10 : Ø 760 mm loading plate

SOIL

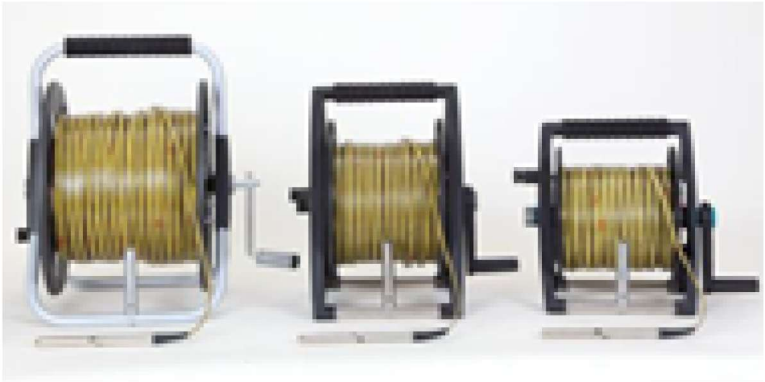
Water Level Indicator

PRODUCT CODE

NT-S0500 Water Level Indicator 50 Meter
NT-S0505 Water Level Indicator 100 Meter
NT-S0510 Water Level Indicator 150 Meter

SPECIFICATIONS

It is used for measuring the total depth of boreholes, water well depths, observation pipes, and water reservoirs.
When the electrode on the device's measuring probe contacts the water surface, an audible alarm and a warning light illuminate.
High-tensile steel tape measure and stainless steel conductor water level measurement probe; ASME approved



SOIL

Speedy Moisture Tester

PRODUCT CODE

NT-S5510 Speedy moisture test device

STANDARDS

AASHTO T217 ASTM D4944

SPECIFICATIONS

Speedy moisture tester is a portable test method for the determination of moisture content of soils, sand, and fine aggregates. The procedure involves the reaction between water and calcium carbide when mixed together give off a gas.

The amount of gas is directly proportional to the amount of water present in the sample and results in percentage are taken from the pressure gauge.

The tester is supplied complete with a precision scale, brushes, 2 pcs steel ball, measurement spoon and cup, and a calibration kit in a plastic carrying case.
Capacity 20 gr
Humidity range 0-20%

AGGREGATE

ABRAHAM CONE AND TAMPER

PRODUCT CODE

NT-A5570 Abraham cone and tamper

STANDARDS

EN 1097-6, BS 812:2, ASTM C128

SPECIFICATIONS

The Abraham Cone Set is used to determine the saturated surface dryness of aggregates smaller than 10 mm in the process of determining specific gravity and water absorption.

The cone has a top diameter of 40 mm, a bottom diameter of 90 mm, and a height of 75 mm. The rammer has a base diameter of 25 mm and weighs approximately 340 g.

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AGGREGATE

AGGREGATE IMPACT VALUE (AIV)

PRODUCT CODE

NT-A0560 Agrega darbe değeri (AIV)

STANDARDS

BS 812:112

SPECIFICATIONS

Aggregate Impact Testing Machine is used to determine the aggregate impact value (AIV) which provides a relative measure of the resistance of an aggregate to sudden shock or impact.

AGGREGATE

Riffle Boxes (Sample Splitters)

PRODUCT CODE

NT-A0430 Riffle box, 5 mm chute, with 3 pcs. collecting pan
NT-A0431 Riffle box, 7 mm chute, with 3 pcs. collecting pan
NT-A0432 Riffle box, 13 mm chute, with 3 pcs. collecting pan
NT-A0433 Riffle box, 15 mm chute, with 3 pcs. collecting pan
NT-A0434 Riffle box, 19 mm chute, with 3 pcs. collecting pan
NT-A0435 Riffle box, 25 mm chute, with 3 pcs. collecting pan
NT-A0436 Riffle box, 30 mm chute, with 3 pcs. collecting pan
NT-A0437 Riffle box, 38 mm chute, with 3 pcs. collecting pan
NT-A0438 Riffle box, 45 mm chute, with 3 pcs. collecting pan
NT-A0439 Riffle box, 50 mm chute, with 3 pcs. collecting pan
NT-A0440 Riffle box, 64 mm chute, with 3 pcs. collecting pan

STANDARDS

EN 932-1, EN 932-5, EN 933-3

SPECIFICATIONS

Riffle Boxes (Sample Splitters) are used to divide representative dry samples of aggregates into the required batch sizes for testing. Made from electrostatic powder painted sheet steel, they are supplied complete with three metal pans.

AGGREGATE

GRID SIEVES, BAR SIEVES

PRODUCT CODE

NT-A0245 Grid sieve set, consist of 13 pcs sieves

STANDARDS

EN 933-3

SPECIFICATIONS

The bar sieve set is used to determine the flakiness index of aggregates.
The bar sieve set consists of 13 sieves with mesh openings of 2.5 – 3.15 – 4 – 5 – 6.3 – 8 – 10 – 12.5 – 16 – 20 – 25 – 31.5 – 40 mm.

Product Code	Description	Bar Mesh (mm)	Dimensions (mm)	Weight (kg)
NT-A0246	Bar Sieve	2,5 mm	34x32x8	4
NT-A0247	Bar Sieve	3,15 mm	34x32x8	4
NT-A0248	Bar Sieve	4 mm	34x32x8	4
NT-A0249	Bar Sieve	5 mm	34x32x8	4
NT-A0250	Bar Sieve	6,3 mm	34x32x8	4
NT-A0251	Bar Sieve	8 mm	34x32x8	4
NT-A0252	Bar Sieve	10 mm	34x32x8	4
NT-A0253	Bar Sieve	12,5 mm	34x32x8	4
NT-A0254	Bar Sieve	16 mm	34x32x8	4
NT-A0255	Bar Sieve	20 mm	34x32x8	4
NT-A0256	Bar Sieve	25 mm	34x32x8	4
NT-A0257	Bar Sieve	31,5 mm	34x32x8	4
NT-A0258	Bar Sieve	40 mm	34x32x8	4

AGGREGATE

Sand Equivalent Test Set
EN / ASTM Compliant

PRODUCT CODE

NT-A0050A Sand Equivalent Test Set, ASTM
NT-A0050E Sand Equivalent Test Set, EN
NT-A0051A Sand Equivalent Acrylic Measure, ASTM
NT-A0051E Sand Equivalent Acrylic Measure, EN
NT-A0055 Sand Equivalent Test Set Stock Solution

STANDARDS

AASHTO T176, ASTM D2419, EN 933-8

SPECIFICATIONS

The Sand Equivalent Test Set is a laboratory test equipment used to determine the cleanliness and percentage of clay-like fines in fine aggregates (sand, crushed stone dust, etc.) in infrastructure and superstructure projects, soil engineering applications, and university and R&D laboratories. This test has a critical role in determining the suitability of materials for use in asphalt and concrete mixtures. The test set quickly and accurately analyzes the proportion of undesirable plastic and clay-like substances found in aggregates, providing data that directly impacts the durability and performance of building materials.
The test process involves settling an aggregate sample mixed with a solution and determining the proportion of sand and clay-like fine particles.

The set includes:
4 Clear Acrylic Graduated Cylinders ASTM or EN
4 Clear Acrylic Graduated Cylinders EN
2 Hard Rubber Stoppers
1 500 mm Stainless Steel Ruler
1 Wide-Mouth Plastic Funnel
1 5-Liter Plastic Drum
1 Siphon Fitting
1 Carrying Case
Stock Solution needs to be ordered separately.

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AGGREGATE

MOTORISED SAND EQUIVALENT SHAKER CİHAZI EN - ASTM

PRODUCT CODE

NT-A0150 Motorized Sand Equivalent Shaker EN / ASTM

STANDARDS

AASHTO T176, ASTM D2419, EN 933-8

SPECIFICATIONS

The Motorized Sand Equivalent Shaker is a specialized testing device used to determine the cleanliness and clay content of fine aggregates (such as natural sand and crushed stone dust). This device ensures repeatability and accuracy of the sand equivalent test in accordance with EN and ASTM standards.

Automatic Test Cycle: The device provides a constant and smooth oscillating movement and stops automatically at the end of the test period.

Movement Adjustment:
Horizontal Oscillation : 200 mm ± 10 mm (EN) / 203.2 mm ± 1 mm (ASTM)
Oscillation Speed : 90 ± 3 seconds / 30 seconds (EN) – 175 ± 2 seconds / minute (ASTM)

Test duration can be precisely adjusted from the digital screen, and the device automatically shuts down when the test is completed.

User Safety: A safety enclosure is required for sales in CE markets. The device automatically shuts down when the protective cover is opened.

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AGGREGATE

LOS ANGELES ABRASSION TEST MACHINE

Los Angeles Aşındırma Test Cihazı

Los Angeles Abrasion Machine for Aggregate Fragmentation Testing

PRODUCT CODE

NT-A0060 Los Angeles Abrasion Machine
NT-A0062A Ball set as per ASTM standards
NT-0062E Ball set as per EN standards

STANDARDS

ASTM C131 EN 12697-17 NF P18-573
AASHTO T96 CNR N. 34 UNI EN 1097-2

SPECIFICATIONS

The Los Angeles abrasion test is is a fundamental device for assessing the resistance of aggregates to abrasion and fragmentation. It is designed to comply with major international standards for material durability testing.

Easily set to ASTM and EN standards. Can be set to desired number of rotations.
The device consists of a cylindrical steel drum with an inner diameter of 711 mm and an inner length of 508 mm and an electronic control unit. The drum rotates at a speed of 31-33 rpm.

Device has an automatic counter that automatically stops when a preset number of cycles have been completed. A tray is included for easy sample removal.

As per EN standards, the abrasive ball set and 1.6 mm sieve and as per AASHTO and ASTM standards the abrasive ball set and 1.7 mm mesh size sieve needs to be ordered seperatly.

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AGGREGATE

METHYLENE BLUE TEST SET

PRODUCT CODE

NT-A0350 Methylene Blue Test Set
NT-A0351 Methylene Mixer (400/600 rpm) and Stand
NT-GS0755 Burette 50 mL. x 0.1 ml
NT-GS0780 Glass baguette, Ø8x300 mm
NT-GP0070 Plastic Beaker, 1000 ml.

STANDARDS

EN 933-9

SPECIFICATIONS

The Methylene Blue Test is a method used to determine the clay content in the fines fraction of aggregates.
It is a test set used to test the presence/contamination of clay and silt, which are undesirable in the aggregate, in the industrial sector where fine aggregates must be used.

The test involves measuring the amount of clay or fine material present on the surface of the aggregate particles. The presence of excessive clay or fines can have a significant impact on the properties of concrete, such as workability, strength, and durability. The Methylene Blue Test helps in determining the clay content, which can then be used to assess the suitability of the aggregate for use in concrete.

Methylene Blue Test set consists of;

Mixer 400/600 r.p.m.
Burette, 50 ml x 0.1 ml
Burette stand and holder
Glass rod, ø8x300 mm
Plastic Beaker, 1000 ml

AGGREGATE

Micro-Deval Test Apparatus

Laboratory-Type Testing Device for Determining the Resistance of Aggregates to Wear

PRODUCT CODE

NT-A0230 Micro-Deval Test Apparatus
NT-A0232 Ø200 x 154 mm (EN 1097-1), Stainless Steel Drum
NT-A0234 Ø200 x 400 mm (EN 13450), Stainless Steel Drum
NT-A0236 Stainless steel ball set Ø10 mm, weight 20 kg

STANDARDS

EN 1097-1, EN 13450, ASTM D6928, ASTM D7428

SPECIFICATIONS

The Micro-Deval Test Apparatus is designed to determine the resistance to wear of 25–50 mm sized aggregates.

This test is conducted in accordance with international standards to evaluate the durability of materials used in applications such as road construction and railway ballast. The device can operate with 4 drums of Ø200 x 154 mm or 2 drums of Ø200 x 400 mm. Drum rotation speed is 100 ± 5 rpm. Device is equipped with a user-adjustable digital automatic revolution counter, and the device stops automatically at the end of the test.

Drums and steel balls must be ordered separately.
NT-A0232 Ø200 x 154 mm (EN 1097-1), Stainless Steel Drum
NT-A0234 Ø200 x 400 mm (EN 13450), Stainless Steel Drum
NT-A0236 Stainless steel ball set Ø10 mm, weight 20 kg

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AGGREGATE

LARGE CAPACITY SAMPLE SPLITTER

PRODUCT CODE

NT-A0420 Large capacity sample splitter

STANDARDS

EN 932-3,BS 812:1, 1377:1, 1924:1

SPECIFICATIONS

The Large capacity sample splitter is used to divide representative dry samples into the required batch sizes for testing.

It is manufactured from powder-coated steel. The upper section of the divider has two lids that can be opened using the manual lever.

The lower section contains a total of 48 movable steel bars, each 12.5 mm wide. The chutes for different samples can be adjusted by moving these bars reciprocally.

AGGREGATE

SPECIFIC GRAVITY TEST SET

PRODUCT CODE

NT-A0010 Specific gravity test set
NT-A0015 Cradle for concrete samples
NT-GS0005 Stainless steel wire basket
Ø200 mm x 200 mm height, 2 mm wire mesh
NT-GS0006 Stainless steel wire basket
Ø250 mm x 250 mm height, 2 mm wire mesh

STANDARDS

AASHTO T85, ASTM C127, BS 812:2, EN 1097-6, EN 12390-7

SPECIFICATIONS

Specific gravity frame feature a robust, custom-made frame specifically designed to support the electronic balance.

There is a movable platform at the bottom of the frame that holds a plastic water tank, allowing test samples to be weighed both in air and in water. The plastic water tank is supplied with the specific gravity frame.

The wire basket, sample rack, and scale must be ordered separately.

Any electronic balance that allows bottom weighing facility can be used with the frame.
For more information, see the Scales section in the related products section.

AGGREGATE

Pycnometer with Conical Screw Cap

PRODUCT CODE

NT-A0211 Pycnometer with conical screw top

STANDARDS

ASTM D854, BS 1377:2, BS 812:2

SPECIFICATIONS

Glass pycnometer supplied complete with non-corrodible cone and rubber seal.

It is used to determine specific gravity/grain properties in aggregates.

AGGREGATE

LENGTH (ELONGATION) GAUGE
THICKNESS (FLAKINESS) GAUGE

PRODUCT CODE

NT-A0540 Thickness (Flakiness) gauge

STANDARDS

BS 812:105.1

SPECIFICATIONS

The flakiness template is used to determine whether the amount of flakiness within the aggregate mass is within acceptable limits (whether it is smaller than 0.6 times the average sieve mesh size for the specific grain class).

The mesh sizes are 4.9x30 mm, 7.2x40 mm, 10.2x50 mm, 14.4x60 mm, 19.7x80 mm, 26.3x90 mm, and 33.9x100 mm.

PRODUCT CODE

NT-A0541 Length (Elongation) gauge

STANDARDS

BS 812:105.2

ÜRÜN TANIMI

The Length Determination Apparatus is used to determine the length index of coarse aggregates. If the aggregate grain length exceeds 1.8 times the average sieve mesh size, the measured aggregate is considered longer than normal. It is divided into six different grain classes, ranging from 50 mm to 6.3 mm, and each grain class is measured separately.

AGGREGATE

THICKNESS (FLAKINESS) SIEVE SET

PHYSICAL AND GEOMETRICAL PROPERTIES

PRODUCT CODE

NT-A0240 Thickness (Flakiness) Sieve Set

STANDARDS

BS 812:105.1

SPECIFICATIONS

The flakiness sieve set is used to determine whether the amount of flakiness within the aggregate mass is within acceptable limits (whether it is smaller than 0.6 times the average sieve mesh size for the specific grain class).

Consists of 7 sieves having mesh sizes 4.9x30 mm, 7.2x40 mm, 10.2x50 mm, 14.4x60 mm, 19.7x80 mm, 26.3x90 mm, and 33.9x100 mm.

In order to evaluate the thickness index of aggregates a thickness gauge can be used instead of sieve set.

AGGREGATE

Bohme Abrasion Testing Machine

PHYSICAL AND MECHANICAL PROPERTIES

PRODUCT CODE

NT-A5160 Bohme Abrasion Testing
220-240 V 50 Hz, 1 ph
NT-A5165 Abrasive Sand, 50 kg pack

STANDARDS

EN 1338, EN 1339, EN 1340

SPECIFICATIONS

The Abrasion Testing Machine according to Bohme is used for determining the abrasion resistance of concrete and natural stone products used for internal or external paving.

The machine consists of a grinding wheel of approx. 750 mm diameter, a removable testing weight of 30 kg and a clamping device for the sample. The machine is equipped with an adjustable counter (30 ± 1 r.p.m.) and an automatic cut-off system which stops the machine after 22 rotations.

Abrasive Sand should be ordered separately.

AGGREGATE

Vertical Abrasion Tester for Natural Stones and Concrete Tiles

PHYSICAL AND MECHANICAL PROPERTIES

PRODUCT CODE

NT-A0160 Vertical Abrasion Tester for Natural Stones and Concrete Tiles
NT-A0165 Abrassion sand , 25 kg in a pack

STANDARDS

EN 1338, EN 1341, EN 1342, EN 1343, EN 14157

SPECIFICATIONS

The Abrasion Tester is designed to determine the resistance to abrasion and wear of natural stones, concrete tiles, and paving products used in indoor and outdoor flooring applications.
The test simulates real-life wear by subjecting the specimen to rotating abrasive forces under controlled pressure.

Abrasion Disc:

- Diameter: 200 mm
- Thickness: 70 mm (standard)
- Rotation speed: 75 rpm
- Hardness: 203–245 HB

Digital Revolution Counter:

- Automatically stops the test when the preset number of revolutions is reached.

Abrasive Material:

- White fused alumina (corundum), FEPA grit size F80.

Power Supply: 230 V, 50 Hz, Single Phase, 500 W

NT-A0165 Abrassion sand needs to be ordered seperatly

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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

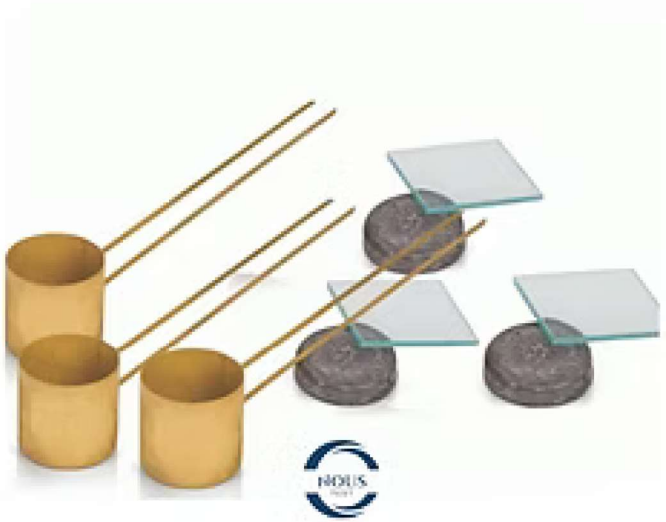
Le Chatelier Test Set

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

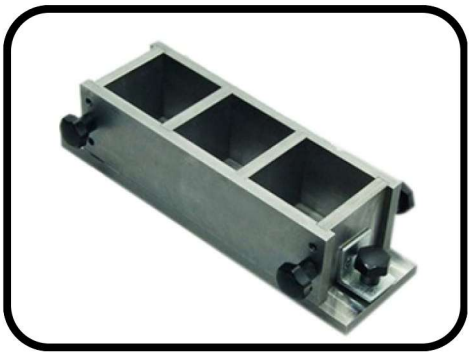
Three Gang Moulds

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	

CONCRETE

AUTOMATIC CONCRETE SURFACE GRINDING MACHINE

PRODUCT CODE

NT-C0600 Fully Automatic Concrete Surface Grinding Machine
NT-C0605 Water circulation bath with 60-liter capacity and internal circulation pump and filter recycling system
NT-C0610 Grinding Stone Ø180 mm with welded14 pcs. 10x10x20 mm diamond socket bits.

STANDARDS

EN 12390-1, EN 12390-2, EN 12390-3, EN 12504-1, ASTM C31, ASTM C39, ASTM C42, ASTM D4543

SPECIFICATIONS

High-Precision Concrete Sample Preparation Solution

The Fully Automatic Sample Surface Grinding Machine is an advanced grinding machine designed to smooth the end surfaces of concrete, rock, natural stone, ceramics, and similar hard materials, bringing them into compliance with test standards. It is a safer and more efficient solution than traditional rubber or sulfur coating methods.

Main Futures

- **Fully automatic operating system:** Provides high repeatability with minimal operator intervention.
- **Short grinding time:** Optimum grinding time of just 120-150 seconds.
- **High precision:** Excellent surface quality with a standard flatness tolerance of 0.050 mm and a side perpendicularity deviation of 0.5°.
- **Multi-sample processing:** Ability to grind multiple cylinder, cube, or core samples simultaneously.
- **Intelligent control panel:** 4.3” LCD touchscreen, 6 preset programs, and user-configurable modes.
- **Integrated water circulation system:** NT-C0605 60L internal tank, pump, and dust sedimentation system for efficient and environmentally friendly use. (Must be ordered separately)
- **Abrasive Wheel:** NT-C0610 Ø180 mm internal 14 10x10x20 mm diamond socket tips for long-lasting and durable abrasive blades.
- **Easy and practical sample clamping system** and height-adjustable upper beam mechanism
- **CE Safety Standards:** Emergency stop button, lid locking mechanism, electric safety system.

CONCRETE

AUTOMATIC CONCRETE SURFACE GRINDING MACHINE

High Capacity & Flexibility

The following sample combinations can be grind with the device:

·Combinations that can be grind simultaneously:

·3 pcs Ø100x200 mm cylinder sample

·2 pcs Ø150x300 mm cylinder sample

·2 pcs Ø160x320 mm cylinder sample

·1 piece 150x150x150 mm cube sample

Samples supported by optional adapters:

- ·**For grinding samples Ø38-50** mm 3pcs. cylinder
- (An additional apparatus must be ordered separately)
- ·**Ø50-100 mm** 3 pcs cylinder
- ·**100 mm - 150 mm** cube samples

Technical Properties

Grinding Stone	Ø180 mm with welded14 pcs. 10x10x20 mm diamond socket bits. (water cooling)
Maximum sample length	320 mm
Grinding Capacity	Cylinder : Ø38-160 mm, Cube: 100-150 mm
Water Circulating Tank	60 L internal tank + pump + filtered recycling system
Security	Electrically lockable cover, CE compliant
Control system	PLC controlled, 4,3'' touch-screen display

CONCRETE

Pan Type Concrete Mixer, 56 Lt.

PRODUCT CODE

NT-C0570 Pan Type Concrete Mixer – 100 Liters (56 Liters Effective Capacity)

STANDARDS

EN 1766

SPECIFICATIONS

Designed specifically for dry and wet mixes in concrete laboratories, this pan-type mixer boasts a user-friendly 56-liter capacity, tilting drum, and mobile design. The top cover is equipped with standard, movable and fixed mixing paddles. All components are protected with galvanized or corrosion-resistant paint.

Technical specifications

Property	Description
Model	NT-C0570
Total Drum Volume	100 liter
Effective mixing volume	56 liter
Mixing system	Reverse mixing
Mixing Blades	Wear-resistant, works at constant depth
Drum Structure	Tiltable and removable drum
Top Cover Openability	Approx. 120°
Material Structure	Galvanized/corrosion resistant painted
Wheels	Rubber, suitable for mobile use
Area of Use	Laboratory, R&D, quality control

CONCRETE

Concrete Test Hammer (Schmidt Test Hammer), N Type

PRODUCT CODE

NT-C2800 Concrete Test Hammer (Schmidt Test Hammer), N Type
NT-C2830 Calibration Anvil

STANDARDS

ASTM C805, EN 12504-2

SPECIFICATIONS

The Concrete Test Hammer (Schmidt Hammer) is a high-precision testing instrument used to non-destructively measure the compressive strength of hardened concrete. Compressive strength, which directly affects the load-carrying capacity and durability of reinforced concrete structures, is quickly and reliably evaluated with the test hammer.

Thanks to its aluminum casing and selected high-quality components, this highly durable product offers high performance in both field and laboratory applications.
With a spring impact energy of 2,207 Nm (Joules), this device is ideal for finished concrete structures and constructions with strength values between 10 and 70 N/mm².
It is supplied with a carrying case, abrasive stone, and a calibration curve.

Area of Use

- Concrete strength control in construction projects
- Quality analysis of existing reinforced concrete structures
- Identification of weak points within concrete
- Field inspection and quality assurance in technical services
- Integrated use with non-destructive testing (NDT) equipment,

Calibration Anvil (Testing Anvil)

The Calibration Anvil, used to check the device's proper operation, ensures the reliability of the test hammer's calibration.

- Rebound Value: 80 ± 2
- Material: Steel
- Usage: Calibration check before and after tests

CONCRETE

Concrete Air Entrainment Meter (7 Lt.), Type B

PRODUCT CODE

NT-C0560 Concrete Air Entrainment Meter (7 Lt.), Type B Airmeter

STANDARDS

EN 12350-7, ASTM C231 TYPE B, AASHTO T152

SPECIFICATIONS

Measure the Air Content of Fresh Concrete Quickly and Precisely!

The Concrete Air Content Meter is a classic Type B compressed air meter used to determine the total air content in fresh concrete mixes. With its lightweight aluminum casing, robust construction, and design that allows for rapid testing, it can be used safely on construction sites and in laboratories.

The device complies with EN 12350-7, ASTM C231, and AASHTO T152 standards, and with its 7-liter capacity, it can be used in mixes with aggregate sizes up to 50 mm. Operating according to the principle of Boyle's Law, this system measures the air content directly using a pressure gauge to optimize the durability and workability of concrete.

Advantages:

Fast testing; Measurement with minimal pump strokes;
Unaffected by environmental pressure fluctuations;
Easy to transport: Compact and robust design;
Fully equipped with calibration kit and accessories;
Highly leak-proof with 4-clamp system;
Shock-protected manometer system

Main Properties

Capacity	7 liter, Type B
Air Content Measurement Range	0 - %22
Manometer Graduation	0.1% (0–6%), 0.2% (6–10%)
Aggregate Size Compatibility	Max. 50 mm
Manometer	Ø 90 mm precision pressure gauge
Material	Lightweight, durable aluminum body

CONCRETE

Water impermeability apparatus

PRODUCT CODE

NT-C0801 Concrete water impermeability apparatus, 3 places
NT-C0802 Concrete water impermeability apparatus, 6 places
NT-GH5075 Air compressor 8 bar 50 liter, with air hose and air hose gun

STANDARDS

EN 12390-8, DIN 1048

SPCIFICATIONS

The Concrete Water Impermeability Tester is used to measure the water penetration depth of hardened concrete samples under constant pressure for a specified period of time. Compliant with EN standards, this device is an ideal solution for laboratory testing with its durable housing, precise pressure control, and user-friendly design.

PROPERTIES

Area of use: Determining the depth of water penetration under pressure in hardened concrete samples.
Suitable Sample Types:
Cube: 150x150x150 mm, 200x200x200 mm
Cylinder: 100x200 mm, 150x300 mm, 160x320 mm
Maximum test pressure: 10 bar, Controlled with 0.2 bar precision
Pressure is provided by compressed air applied to the water tank
Pressure regulator and manometer enable stable and safe testing
Water penetration Measurement: by using transparent, graduated burettes
Construction: Durable steel body, special sealing systems (3 seals per cell) for leak-proof seals, Aluminum sample cells, Durable construction up to 15 bar
Compressor Specifications : 8 bar working pressure, 50 L tank capacity

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CONCRETE

Automatic Concrete Compression Machine For Masonary Units

PRODUCT CODE

NT-C7225 2000 kN Capacity Automatic Compression Machine for Masonary Units, Cubes and Cylinders. EN 12390-4 and EN 772-1

NT-C7235 3000 kN Capacity Automatic Compression Machine for Masonary Units, Cubes and Cylinders. EN 12390-4 and EN 772-1

NT-C7110 High Sensitive Pressure Transducer

STANDARDS

EN 12390-4, EN 772-1

SPECIFICATIONS

Fully automatic concrete testing presses are high-precision, automatic, and fully compliant devices designed to test the compressive strength of concrete and masonary samples.

Compression machine can be controlled fully automatically from the touch-screen digital unit on the press or from the computer.

Our presses have been developed specifically in accordance with EN 12390-4 and EN 772-1 standards and are ideal for both experienced and new users.

The upper ball-seat and the lower hard plate of the compression machines are 310 x 510 mm and are made of high quality steel hardened according to EN Standards (more than HRC 53) and the roughness value of the surfaces is processed and ground in accordance with the standards.

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

Safety features; Maximum Pressure Valves to prevent overloading, Limit Switch to limit piston travel distance, Emergency Stop Button, Software controlled maximum load limitation.

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CONCRETE

Automatic Concrete Compression Machine For Masonary Units

TOUCH-SCREEN CONTROL UNIT

The 7" TFT touchscreen display allows for precise calibration at eight different load values thanks to the on-screen manual operation option (using the potentiometric speed adjustment knob). It is equipped with numerous features, including sample dimensions, test speed, channel selection, language selection (English, Turkish), test information, company logo, test results, and the ability to plot real-time "Load/Time" or "Stress/Time" graphs. Its user-friendly interface initiates the test with the start button after entering the necessary information (such as sample dimensions/test information) and automatically stops when the sample breaks.

COMPUTER SOFTWARE

The computer software allows you to enter sample, company, laboratory, and test values. Loading time charts, test reports, and sample reports can be generated. It can be launched with a single click, and the entire testing process is completed automatically.

TECHNICAL PROPERTIES

Ürün Kodu	NT-C7225	NT-C7235
Capacity	2000 kN	3000 kN
Lower & Upper Platens	310x510x50mm	310x510x50mm
Surface Hardness of Platens	55 HRC	55 HRC
Cylinder Sample	Ø160x320 max.	Ø160x320 max.
Cube Sample	200 mm	200 mm
Masonary Units	300x500 mm	300x500 mm
Max. Vertical Clearance Between platens	350 mm	350 mm
Power	550 W	550 W
Max. Operating Pressure	400 Bar	400 Bar
Dimensions (W x D x H)	850 x 570 x 1175 mm	900 x 570 x 1215 mm
Weight Approx.	985 kg.	1280 kg.

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CONCRETE

Full Automatic Concrete Compression Machine EN-ASTM

PRODUCT CODE

NT-C7220 2000 kN capacity automatic compression machine EN 12390-4
NT-C7230 3000 kN capacity automatic compression machine EN 12390-4
NT-C6005 600 kN Capacity Fully Automatic Compression Machine ASTM
NT-C6015 1500 kN Capacity Fully Automatic Compression Machine ASTM
NT-C6020 2000 kN Capacity Fully Automatic Compression Machine ASTM
NT-C6030 3000 kN Capacity Fully Automatic Compression Machine ASTM

STANDARDS

EN 12390-4, EN 12390-3, ASTM C39, AASHTO T22

SPECIFICATIONS

Fully automatic concrete compression machines are high-precision, automatic, and fully compliant devices designed to test the compressive strength of cube and cylinder samples.

Compression machines can be controlled fully automatically from the touch-screen digital unit on the press or from the computer.

Our Compression Machines have been developed specifically in accordance with **EN 12390-4, EN 12390-3, ASTM C39** standards and are ideal for both experienced and new users**.**
The upper ball-seat and the lower hard plate of the compression machines are 310 x 510 mm and are made of high quality steel hardened according to EN Standards (more than HRC 53) and the roughness value of the surfaces is processed and ground in accordance with the standards.
Automatic Hydraulic Power Unit consists of a double-stage pump system, pressure transducer, safety valve (to prevent overloads), digital readout and control unit, oil tank, and load cell connection jacks.
Safety features; Maximum Pressure Valves to prevent overloading, Limit Switch to limit piston travel distance, Emergency Stop Button, Software controlled maximum load limitation.

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CONCRETE

Full Automatic Concrete Compression Machine EN-ASTM

TOUCH-SCREEN CONTROL UNIT

The 7" TFT touchscreen display allows for precise calibration at eight different load values thanks to the on-screen manual operation option (using the potentiometric speed adjustment knob). It is equipped with numerous features, including sample dimensions, test speed, channel selection, language selection (English, Turkish), test information, company logo, test results, and the ability to plot real-time "Load/Time" or "Stress/Time" graphs. Its user-friendly interface initiates the test with the start button after entering the necessary information (such as sample dimensions/test information) and automatically stops when the sample breaks.

COMPUTER SOFTWARE

The computer software allows you to enter sample, company, laboratory, and test values. Loading time charts, test reports, and sample reports can be generated. It can be launched with a single click, and the entire testing process is completed automatically.

TECHNICAL SPECIFICATIONS

Product Code	NT-C7220	NT-C7230	NT-C6005	NT-C6015	NT-C6020	NT-C6030
Capacity	2000 kN	3000 kN	600 kN	1500 kN	2000 kN	3000 kN
Upper % Lower Platen	Ø300 mm	Ø300 mm	Ø165 mm	Ø165 mm	Ø165 mm	Ø165 mm
Platen Surfaces	53 HRC	53 HRC	≥55 HRC	≥55 HRC	≥55 HRC	≥55 HRC
Cylinder Sample	Ø160x320 max.	Ø160x320 max.	Ø160x320 max.	Ø160x320 max.	Ø160x320 max.	Ø160x320 max.
Cube Samples	200 mm max.	200 mm max.	---	---	---	---
Vertical Clearance	330 mm	330 mm	370 mm	370 mm	370 mm	370 mm
Power	550 W	550 W	550 W	550 W	550 W	550 W
Operating Pressure	400 Bar	400 Bar	400 Bar	400 Bar	400 Bar	400 Bar
Dimensions (W x D x H)	535 x 815 x 1160 mm	545 x 875 x 1260 mm	645 x 465 x 925mm	770 x 460 x 1120 mm	810 x 465 x 1185 mm	865 x 510 x 1225mm
Ağırlık	870 kg.	1100 kg.	365 kg.	613 kg.	700 kg.	922 kg.

CONCRETE

Automatic Compression Machine Four Column Body

PRODUCT CODE

NT-C7320 2000 kN Capacity Fully Automatic 4 Column Body Compressive Strength Testing Machine for Cubes and Cylinders, EN 12390-4

NT-C7330 3000 kN Capacity Fully Automatic 4 Column Body Compressive Strength Testing Machine for Cubes and Cylinders, EN 12390-4

STANDARDS

EN 12390-4, EN 12390-3

SPECIFICATIONS

Fully automatic four (4) column body concrete compression testing machines are high-precision, automatic, and fully compliant instruments designed to test the compressive strength of concrete samples (cubes and cylinders).

Compression machines can be full automatically controlled either from the touch-screen digital control panel or through its computer software from a computer.

Our compression machines are developed in accordance with international standards such as **EN 12390-4, EN 12390-3** making them ideal for both experienced and novice users.

The upper movable head section and lower rigid table are manufactured from high-quality steel, having Ø 300 mm hardened according to EN Standards (having hardness greater than HRC 53). The surfaces are machined and ground to meet the required roughness.

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 overloads, Limit Switch to limit piston travel, Emergency Stop Button, and software-controlled maximum load limiting.

CONCRETE

Automatic Compression Machine
Four Column Body

TOUCH-SCREEN CONTROL UNIT

The 7" TFT touchscreen display allows for precise calibration at eight different load values thanks to the on-screen manual operation option (using the potentiometric speed adjustment knob). It is equipped with numerous features, including sample dimensions, test speed, channel selection, language selection (English, Turkish), test information, company logo, test results, and the ability to plot real-time "Load/Time" or "Stress/Time" graphs. Its user-friendly interface initiates the test with the start button after entering the necessary information (such as sample dimensions/test information) and automatically stops when the sample breaks.

COMPUTER SOFTWARE

The computer software allows you to enter sample, company, laboratory, and test values. Loading time charts, test reports, and sample reports can be generated. It can be launched with a single click, and the entire testing process is completed automatically.

TECHNICAL SPECIFICATIONS

Product Code	NT-C7320	NT-C7330
Capacity	2000 kN	3000 kN
Lower&Upper Platens	Ø300 mm	Ø300 mm
Surface Hardness of Platens	53 HRC	53 HRC
Cylinder Sample	Ø160x320 max.	Ø160x320 max.
Cube Sample	200 mm	200 mm
Vertical Clearance Between Platens	330 mm	330 mm
Power	550 W	550 W
Max. Operating Pressure	400 Bar	400 Bar
Dimensions (Frame) (W x D x H)	590 x 560 x 1100 mm	680 x 690 x 1150 mm
Dimensions Power Pack (WxDxH)	370x400x920 mm	370x400x920 mm
Weight	Frame 950 kg. + 85 kg Power Pack	Frame 1440 kg. + 85 kg Power Pack

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CONCRETE

Curing Tanks

PRODUCT CODE

NT-C0680 Metal Curing Tank 600 Liter
NT-C0690 Large Plastic Curing Tank 900 Liter
NT-C0680/1 Curing Tank Heater for NT-C0680
NT-C0690/1 Curing Tank Heater for NT-C0690
NT-C0695 Curing Tank Circulation Pump

STANDARDS

AASHTO R100, R39, ASTM C31, C192, C511, EN 12390–2

SPECIFICATIONS

Curing tanks are designed to cure concrete cubes, cylinders, and prism specimens in water at a constant temperature. Manufactured from high-quality, durable materials, these tanks are ideal for performing curing operations in accordance with standards in construction site control laboratories, as well as in the laboratory environments of universities and technical research centers. They include a metal base shelf to properly position the specimens and protect them from deformation.

The thermostatically controlled electric heater system keeps the water temperature constant at the desired level (control with ±2°C precision between ambient temperature and 40°C) and is provided with a submersible circulation pump to keep the water at a homogeneous temperature.

Curing Tanks are supplied with the following:

Durable polyethylene/Stainless Steel Curing Tank
Electric heater (thermostat controlled)
Circulation pump

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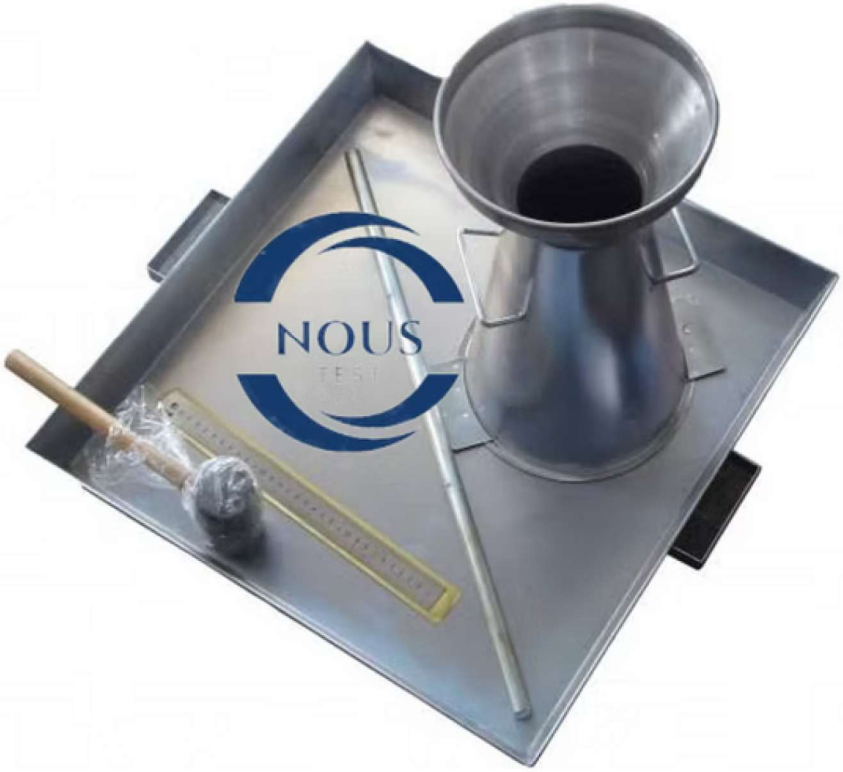
CONCRETE

Slump Cone Test Set

PRODUCT CODE

NT-C0040 Slump Cone Test Set
NT-C0041 Slump Cone
NT-C0042 Slump Cone, Funnel
NT-C0043 Slump base plate
NT-C0044 Tamping rod Ø16 x 600 mm
NT-GH0030 Steel ruler, 30 cm



STANDARDS

EN 12350-2

SPECIFICATIONS

The slump cone is also known as Abrams cone, from the name of the inventor and it is used to measure workability of fresh concrete.

Slump cone test set comes with the below accesories;

- Slump Cone, galvanized stell
- Slump Cone, Funnel
- Slump plate
- Tamping rod, galvanized steel Ø16 x 600 mm
- Stainless steel ruler, 300 mm
- Rubber mallet

To perform the test, first place the metal base on a flat surface. Press the funnel handles to hold the funnel in place. After filling the funnel one-third with concrete, tamp it 25 times. The same process is repeated two more times. After leveling the concrete at the funnel's mouth, the funnel is pulled straight up slowly. The retracted funnel is placed next to the concrete emerging from the mold to measure the amount of slump.

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CONCRETE

Vibrating Table EN

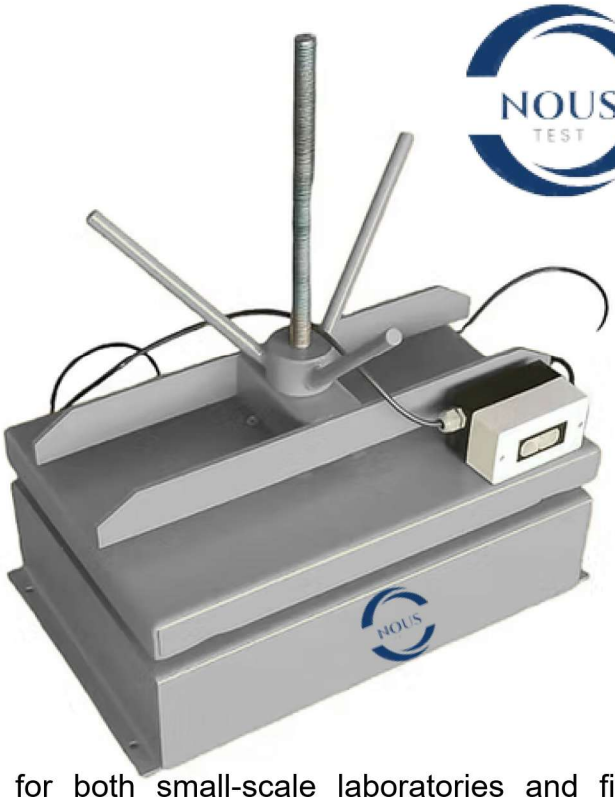
PRODUCT CODE

NT-C0090 Vibrating table, 400x600 mm 220-240V, 50-60 Hz. 1 ph.
NT-C0091 Vibrating table, 500x1000 mm 220-240V, 50-60 Hz. 1 ph.

STANDARDS

EN 12350-2

SPECIFICATIONS



Vibration tables are professional testing equipment developed for the homogeneous and controlled compaction of fresh concrete samples (such as cube, cylinder, and beam molds) in laboratory and construction site.
Robust and quiet, these vibration tables are ideal for both small-scale laboratories and field applications.

ADVANTAGES

High-Efficiency Motor: Operates at 3000 vibrations per minute at 50 Hz and 3600 vibrations per minute at 60 Hz.
Robust Steel Body: Durable and balanced design for long-lasting use.
Quiet Operation: Stable frame structure minimizes vibration.
Mold Fixing Edges: Special edge design prevents molds from slipping during vibration.
Mold Clamping Device
Multifunctional Control Panel: Includes ON/OFF button and 60-second timer.
Electrically controlled, foot-operated pedal system for safe operations.

CONCRETE

Sample Cutting Machine

PRODUCT CODE

NT-C0210 Core Sample Cutting Machine (Max. opening 165 mm)
NT-C0212 Core Cutting Blade 450 mm dia.

STANDARDS

ASTM D4543, EN 12390-1, 12504-1

SPECIFICATIONS

Concrete, Rock & Natural Stone Cutting Unit

The Specimen Cutting Machine is a professional device that precisely cuts hardened concrete, rock, asphalt, and natural stone samples for laboratory testing. This benchtop cutting machine is ideal for obtaining geometrically defined samples in construction, geotechnical, mining, and materials testing laboratories.

It is supplied with a "V" block fixing apparatus for 100 mm diameter samples, a build-in water circulation pump (for cooling), a sliding table system for easy cutting samples, a galvanized tank, and a carrier table.

The cutting blade must be ordered separately.

TECHNICAL SPECIFACTIONS

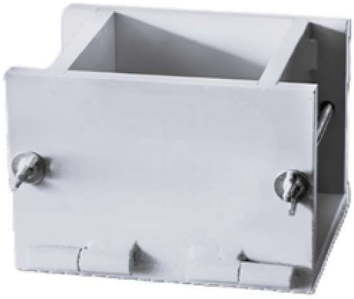
Cutting Height: 165 mm
Motor: High-performance, adjustable-angle motor head (0°–45° cutting capability)
Water Cooling System: Internal pump and dual filter system for continuous blade cooling
Cutting Mechanism: Manual feed slide system
Corrosion Resistance: Galvanized water tank and transport cart
Body: Robust steel construction for vibration-free operation

CONCRETE

Sample Moulds

PRODUCT CODE

NT-C0280 Plastic Cube Mould, 150x150x150 mm
NT-C0282 Plastic Cube Mould, 100x100x100 mm, two gang
NT-C0290 Steel Cube Mould 150x150x150 mm 2 parts opening
NT-C0292 Steel Cube Mould 100x100x100 mm 2 parts opening
NT-GH5075 Air compressor 8 bar 50 liter, with air hose and air hose gun



STANDARDS

ASTM D4543, EN 12390-1, 12504-1

SPECIFICATIONS

Steel and plastic molds are manufactured in accordance with the dimensions and tolerances specified in the relevant standards.
The two part body opening steel molds are lighter than the cast iron moulds and are designed to be easy to clean.

Samples in plastic molds can be easily removed from their molds by applying compressed air with the NT-GH5075.

BITUMEN

Cleveland Open Cup Flash Point Tester

PRODUT CODE

NT-B0531 Cleveland Open Cup Flash Point Tester

STANDARDS

AASHTO T48, ASTM D92, EN ISO 2592, EN 22592

SPECIFICATIONS

The Open Cup Flash Point Tester is designed to accurately measure the flash and fire points of petroleum products in bitumen and asphalt testing laboratories, the fuel and oil industry, R&D laboratories, universities, and technical training institutions. Operating according to the Cleveland Open Cup Method, this device provides high safety and precision, particularly in testing bitumen, oil, and other flammable liquid products.

The device is equipped with a brass test cup mounted on a temperature-controlled electric heater, a glass thermometer, and a double-wire fuse system in accordance with CE standards.

Supplied Contents

1x Cleveland Open Cup Flash Point Tester
1x Brass Cup
1x Thermometer IP28C (-6°C to +400°C)
1x Electric Heater (Rheostat-controlled)
1x Thermometer Holder

Technical Specifications

Temperature Range	-6°C to +400°C
Heater	Electric, with temperature control system
Container Material	Brass
Compliance with Standards	ASTM D92, EN 22592, ISO 2592 etc..
Thermometer	IP28C (-6°C / +400°C)
Security	Double line fuse
Hot plate and control unit	Rheostat Controlled
Thermometer Holder	Adjustable

BITUMEN

Cleveland Open Cup Flash Point Tester

PRODUCT CODE

NT-B0210 Semi-Automatic Digital Bitumen Penetrometer
NT-B0212 Penetrometer needle 2,5 gr.
NT-GC0525/S Sample Cup Ø 55×35 mm, stainless steel

STANDARDS

AASHTO T48, ASTM D92, EN ISO 2592, EN 22592

SPECIFICATIONS

The Semi-Automatic Digital Bitumen Penetrometer is a high-precision laboratory testing instrument used to determine the penetration value of bituminous samples under constant load, time, and temperature. This instrument is widely used in road construction and quality control laboratories for penetration testing (of asphalt and bitumen), as well as material consistency and conformity analysis. Its modern semi-automatic features provide user convenience and accuracy.

The device consists of a mechanism mounted on a steel base plate, equipped with a spirit level, adjustable foot screws, a digital display with a resolution of 0.01 mm, a digital counter that provides adjustable and controlled needle drop between 0-99 seconds, an illumination system and a magnifying glass, and an electromagnetic piston release system.

The device is supplied with the following:

Penetration Needle (2.5g) – 1
Transfer Container
Sample Cup (Ø 55×35 mm, stainless steel) – 3 pcs.
50g and 100g weights
Needle holder and measuring device

BITUMEN

Ductility Tester/ Ductilometer

PRODUCT CODE

NT-B0041 Ductility test device/Ductilometer
NT-B0051 Ductility test device/Ductilometer, with built -in cooling unit
NT-B0042A Ductility Briquette Mould ASTM D113, AASHTO T51
NT-B0043A Ductility Briquette Mould ASTM D6084, AASHTO T300
NT-B0044E Ductility Briquette Mould EN 13398
NT-B0044 Ductility Mould base plate for one mould

STANDARDS

ASTM D113, ASTM D6084, AASHTO T51, AASHTO T300, EN 13398

SPECIFICATIONS

Ductility testers, developed to measure the ductility and elongation before rupture of bituminous materials by pulling them at a constant speed of 50 mm/min in a laboratory environment, are used in quality control tests on asphalt, bitumen and semi-solid materials.

Ductility device has the capacity to test three samples at the same time. The test bath is made of stainless steel and features a built-in heater and water circulation system for a temperature of 25°C. The extension capacity is 1500 mm.

The NT-B0051 refrigerated model features a built-in cooling system, providing more stable temperature control. It is also an ideal choice for laboratories where temperature control is not available.

Note: Ductility Briquette molds and base plates must be ordered separately. Each device requires three molds and three base plates to meet the test standards.

Application areas:
Asphalt production facilities
Road engineering laboratories
Bitumen and modified bitumen quality control tests
Research and development centers

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BITUMEN

Digital Saybolt Viscosity Test Device

PRODUCT CODE

NT-B0031 Digital Saybolt Viscosity Test Device, 2 tubes
NT-B0032 Saybolt viscosity flask 60 ml
NT-B0033 Saybolt Filter Funnel
NT-B0034 Saybolt withdrawal tube
NT-B0035 Saybolt Thermometer Set (Consists of 6 pcs. thermometer)
ASTM 17C (19 – 27°C), ASTM 18C (34 – 42°C), ASTM 19C (49 – 57°C), ASTM 20C (57 – 65°C), ASTM 21C (79 – 87°C), ASTM 22C (95 – 103°C)

STANDARDS

AASHTO T72, ASTM D88

SPECIFICATIONS

The Saybolt Two-Tube Digital Viscometer is a digitally controlled laboratory instrument developed for measuring the viscosity of petroleum products at specific temperatures (21°C to 99°C) using the Saybolt method. The instrument is available with "Universal" and "Furol" orifices and complies with ASTM D88 and AASHTO T72 standards for empirical viscosity measurements.

The Saybolt method is performed by measuring the time in seconds that a 60 ml sample flows through a tube (orifice) of a specific diameter. This model, with its two-tube capacity, allows multiple tests to be performed simultaneously, thus saving time and improving test efficiency.

The device has a stainless steel housing. It consists of a digitally thermostatically controlled electric heater, an integrated coil cooling system, a dual-thermostat overheat protection system, and an automatic stirrer to ensure uniform heat distribution.
The device includes two Universal Orifices, two Furol Orifices, two thermometer holders, two wrenches, and plastic hoses.

The following items must be ordered separately:
The Thermometer Set, consisting of six thermometers, a draw tube, a filter funnel, and 60 ml glass bottles, must be ordered separately.

BITUMEN

Softening Point Determination
Ring & Ball Apparatus

PRODUCT CODE

NT-B0320A Ring And Ball Apparatus, ASTM
NT-B0320E Ring And Ball Apparatus, EN
NT-D0140 Hot plate with magnetic stirrer

STANDARDS

AASHTO T53, ASTM D36, EN 1427

SPECIFICATIONS

The softening point determination apparatus is a laboratory testing device that complies with international standards and is used to determine the softening point of bituminous materials. It is the ideal solution for measuring the strength of bitumen that softens when the temperature increases.

The manual model comes with a glass beaker, stainless steel frame, two conical rings, two steel balls 9,5mm dia, ball centering devices, and a temperature gauge (-2°C ~ +80°C non mercury). It is frequently preferred for laboratory testing because it is both economical and reliable.

NT-D0140 Hot plate with magnetic stirrer needs to be ordered seperately**.**

BITUMEN

RTFOT Bitumen Oven – Rotating Thin Film Oven

PRODUCT CODE

NT-B0430A Bitumen Oven – RTFOT Method, ASTM
NT-B0430E Bitumen Oven – RTFOT Method, EN
NT-B0432 Bitumen Oven spare glass container, heat resistant Ø64 x 140mm
NT-GH5075 Air compressor 8 bar 50 lt.

STANDARDS

AASHTO T240, ASTM D2872, EN 12607-1

SPECIFICATIONS

High-Performance Aging Tester

The RTFOT (Rolling Thin Film Oven) device tests the aging and hardening tendencies of bituminous binders by exposing them to heat and air in thin films. This allows for the longevity and performance of asphalt pavements to be predicted.
The device is fully compliant with Superpave performance testing programs and international standards such as ASTM D2872.

The inner body is made of stainless steel, the outer surface is electrostatically powder painted, and the device has an observation glass on the lid that allows for sample monitoring throughout the test.

The 7” color touchscreen control panel allows duration adjustments of temperature, airflow, and test duration.
A digital PID control thermostat, providing a constant temperature of 163°C, is included.
Airflow rate can be adjusted from 0.1 to 10,000 ml/min.
It is equipped with comprehensive safety systems such as a double-safety thermostat, door lock system, overheating alarm, door open warning, pilot light, and magnetothermic switch.

The RTFOT device is supplied with 8 glass tubes.
The NT-GH5075 air compressor must be ordered separately.

ASPHALT

ASPHALT CORE DRILLING MACHINE GASOLINE, PORTABLE

PRODUCT CODE

NT-AS1020 Asphalt Core machine, Gasoline powered

NT-GH0230 Core Bit 50 mm dia 400 mm height
NT-GH0235 Core Bit 50 mm dia 400 mm height
NT-GH0240 Core Bit 50 mm dia 400 mm height
NT-GH0245 Core Bit 50 mm dia 400 mm height

STANDARDS

EN 12697-27

SPECIFICATIONS

The Asphalt Core Drilling Machine is a portable, gasoline-powered device specifically designed for collecting **core samples (cores) up to 200 mm in diameter** from hard surfaces such as asphalt and concrete. It offers **high mobility and performance** in areas where electrical access is difficult. It offers easy **single-operator operation** in both urban and off-road environments.
The machine body is mounted on a sturdy metal chassis, and the engine group, vertical support column, and ball screw mechanism provide maximum control and durability. It is equipped with a 6.5 HP, gasoline engine.

ADVANTAGES

- **Vertical Ball-Driven Screw System:** Precisely controls cutting pressure and provides rapid return
- **Water Spray System:** Integrated for cooling and dust reduction during cutting
- **Portable Design:** Easy to transport with a sturdy, wheeled base
- **Suitable for Single Operator Use:** Practical use and easy installation

Note: Core bits (core cutters) must be ordered separately.

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ASPHALT

Automatic Marshall Impact Compactor – ASTM

PRODUCT CODE

NT-AS2870 Automatic Marshall Impact Compaktor, ASTM 4”
NT-AS2870/S Automatic Marshall Impact Compaktor, ASTM 4” with soundproof cabinet
NT-AS1460A Marshall Briquette Mould, ASTM 4”

STANDARDS

AASHTO T245, ASTM D1559, ASTM D5581, ASTM D6926

SPECIFICATIONS

The Automatic Marshall Compactor is a highly reliable, fully automatic device designed to prepare samples from hot asphalt mixes in accordance with standards. The compactor automatically stops the process when it reaches the preset number of strokes. The number of strokes can be adjusted via the digital display and monitored throughout the test process.

Compactor provides homogeneous and repeatable compacted samples for use in Marshall stability tests which is required to measure the resistance of asphalt to plastic flow.

Hammer Mass : 4536 ± 9 g
Free Fall Height : 457 ± 3 mm (18” ± 0.1”)

Advantages:

Fully Automatic System: Automatic compression with adjustable stroke rate
Durable Construction: All mechanical components are manufactured from heavy-duty steel
Easy Mold Change: Quick mold fixing and release system
CE Compliant Safety: Automatic stop when the lid is opened, emergency stop button
Sound-Insulated Cabin Option: Model with reduced noise levels and increased safety

ASPHALT

Automatic Marshall Impact Compactor – EN

PRODUCT CODE

NT-AS2870 Automatic Marshall Impact Compactor, EN 4”
NT-AS2870/S Automatic Marshall Impact Compactor, EN 4” with soundproof cabinet
NT-AS1460E Marshall Briquette Mould, EN 4”

STANDARDS

EN 12697-30, 12697-10

SPECIFICATIONS

The Automatic Marshall Compactor is a highly reliable, fully automatic device designed to prepare samples from hot asphalt mixes in accordance with standards. The compactor automatically stops the process when it reaches the preset number of strokes. The number of strokes can be adjusted via the digital display and monitored throughout the test process.

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CE Compliant Safety: Automatic stop when the lid is opened, emergency stop button
Sound-Insulated Cabin Option: Model with reduced noise levels and increased safety

ASPHALT

Marshall Compaction (Briquette) Moulds – ASTM, EN

PRODUCT CODE

NT-AS1460A Marshall Compaction (Briquette) mould, ASTM 4”
NT-AS1461A Marshall mould base plate, ASTM 4”
NT-AS1462A Marshall mould collar, ASTM 4”
NT-AS1463A Marshall mould body, ASTM 4”
NT-AS1460E Marshall compaction (Briquette) mould, EN 4”
NT-AS1461E Marshall mould base plate, EN 4”
NT-AS1462E Marshall mould collar, EN 4”
NT-AS1463E Marshall mould body, EN 4”

STANDARDS

AASHTO T245, ASTM D1559, ASTM D5581, EN 12697-30

SPECIFICATIONS

The Marshall Compaction (Briquette) Moulds are used for producing Marshall specimens with automatic or manual compactors. The moulds are manufactured from steel and galvanized for protection.

ASPHALT

Marshall Stability Test Machine with Proving Ring– 50 kN

ASTM / EN compliance

PRODUCT CODE

NT-AS2501 Marshall Stability Test Machine – with 50 kN capacity Proving ring

STANDARDS

ASTM D1559, D5581, D6927,
AASHTO T245 BS 598:107,
EN 12697-12

SPECIFICATIONS

The Marshall Stability Tester is a 50 kN capacity load frame designed to determine the maximum load carrying capacity (stability) and plastic deformation (yield) properties of asphalt mixtures.

Its rigid structure makes it suitable for heavy-duty laboratory use and its constant loading rate (50.8 mm/min) complies with ASTM and EN standards. Load application is measured by using a proving ring.

The device comes fully equipped with a digital yield indicator, manual control lever (for calibration), Marshall penetration piston, 4” Marshall crushing head, 50 kN capacity proving ring, and upper/lower limit switches.

Technical Properties

Capacity	50 kN
Loading rate	50.8 mm/dk (±%1)
Safety Features	Overload stop, limit switches
Applications	Marshall Stability and Yield Tests

ASPHALT

10 liter capacity planetary mixer

ÜRÜN KODU

NT-G3100M 10 Liter capacity mixer
NT-AS0315M Isomantle heater

ÜRÜN TANIMI

This 10-liter mixing capacity mixer is designed for high quality and reliability, suitable for benchtop use. It adheres to standards while also meeting the demand for more extensive testing of other materials for research applications.

Thanks to its planetary mixing mechanism, the mixing paddle rotates around its own axis at 20 to 480 rpm and simultaneously moves around the mixing bowl at 10 to 240 rpm. This bi-directional mixing ensures homogeneity and repeatability throughout the entire mix. The speed can be manually adjusted by the user using the potentiometric speed adjustment knob on the mixer. The planetary mixer is equipped with safety switches that automatically stop mixing if the user lowers the mixing bowl with the handle.

If used for asphalt design, an electric Isomantle heater must be ordered separately.
For proper mixing operation, the container containing the bituminous sample must be heated to the temperature specified in the Standards. A standard laboratory oven is used for this purpose, and the sample mixing process is performed immediately after removing the container from the oven.

TECHNICAL PROPERTIES

Mixing capacity	10 L
Material	Stainless steel mixing bowl and pallet
Mixing program	Manual, with potentiometer
Areas of use	Sample preperation

ASPHALT

Reflux Extractor Test Set

PRODUCT CODE

NT-AS4200 Reflux Extractor Test Set, capacity 4000 gr
NT-AS4201 Reflux Filter Paper 100 pcs in a pack

STANDARDS

ASTM D2172, AASHTO T164 B

SPECIFICATIONS

Reliable and Economical Solution for Bitumen Content Determination

The Reflux Extraction Test Set is a highly efficient and practical test equipment used in asphalt mixture analysis laboratories, highway and infrastructure projects, university and R&D laboratories to quantitatively determine the bitumen content in hot-mix asphalt and pavement samples. It complies with ASTM D2172 and AASHTO T164 B standards.

The reflux method provides an economical and reliable analysis of the binder (bitumen) content in asphalt mixtures. The device operates by evaporating and condensing a solvent heated by an Hot plate. During this process, the solvent passes through the sample and separates the bitumen. The remaining aggregate and moisture analysis allow for precise calculation of the bitumen content.

Set includes the below accersories;

Reflux Ekstraktor Glass

2 Stainless Steel Wire Mesh Conical Baskets

Condenser and connection hoses

Hot Plate

100 pcs. Filter Paper

ASPHALT

Centrifuge Extractor

Bitumen Percentage Determination Device for Bituminous Mixtures

PRODUCT CODE

NT-AS0300 Asphalt Centrifuge Extractor, capacity 1500 gr
NT-AS0350 Asphalt Centrifuge Extractor, capacity 3000 gr
NT-AS0301 Rotating Bowl and cover for NT-AS0300
NT-AS0351 Rotating Bowl and cover for NT-AS0350
NT-AS0302 Filter paper for NT-AS0300
NT-AS0352 Filter paper for NT-AS0350

STANDARDS

AASHTO T164-A, ASTM D2172,
EN 12697-1

SPECIFICATIONS

Reliable and Economical Solution for Bitumen Content Determination

Centrifuge Extractor is a precision laboratory equipment that is widely used in asphalt and road engineering laboratories for the purpose of determining the percentage of bitumen content in bituminous mixtures and is compatible with different types of solvents (TCE, PERC, etc.) in solvent-based extraction processes that do not require heating.

Technical Specifications

Capacity: 1500 g or 3000 g
Maximum Rotation Speed: 3600 rpm (adjustable)
Control Panel: Start/Stop button, potentiometric speed control knob
Body: Precision-machined rotating bowl in an aluminum enclosure
Seal: Solvent-resistant, leak-proof sealing system
Braking: Safe stopping in 10–15 seconds
Vibration-Free Operation: Stabilized structure with spring suspension system

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ASPHALT

Mot straight edge with 2 wedges

PRODUCT CODE

NT-AS5212 Mot straight edge with 2 wedges
NT-AS5213 Mot straight edge carrying case

STANDARDS

EN 13036-7

SPECIFICATIONS

The MOT Straightedge is a measuring device used to measure the surface smoothness of newly poured or currently in-service road pavements. Made of aluminum alloy, this 3-meter ruler is used to quickly and effectively identify undulations, irregularities, and deterioration due to quality defects on road surfaces.

The is supplied with two metal wedges for measuring from 0 to 30 mm.

A wooden carrying case must be ordered separately.

Applications

Highway and highway construction
Quality control of concrete and asphalt road surfaces
Airport runways and aprons
Industrial ground irregularity measurements
Civil engineering laboratories

NOUS
TEST

NOUSTEST MATERIAL TESTING EQUIPMENT

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