



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 welded 14 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 Features

- **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.



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 welded 14 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



CONCRETE

Automatic Concrete Compression Machine For Masonry Units

PRODUCT CODE

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

NT-C7235 3000 kN Capacity
Automatic Compression Machine for
Masonry 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 masonry 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.





CONCRETE

Automatic Concrete Compression Machine For Masonry 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
Masonry 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.



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.



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

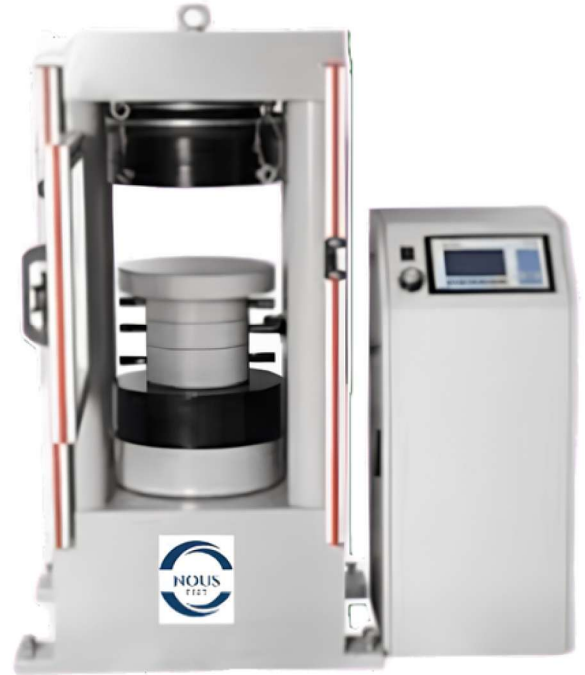
Fully automatic four (4) column body concrete compression testing machines are high-precision, automatic, and fully compliant instruments designed to test the compressive strength of concrete samples (cubes and cylinders).

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



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 $\pm 2^{\circ}\text{C}$ 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



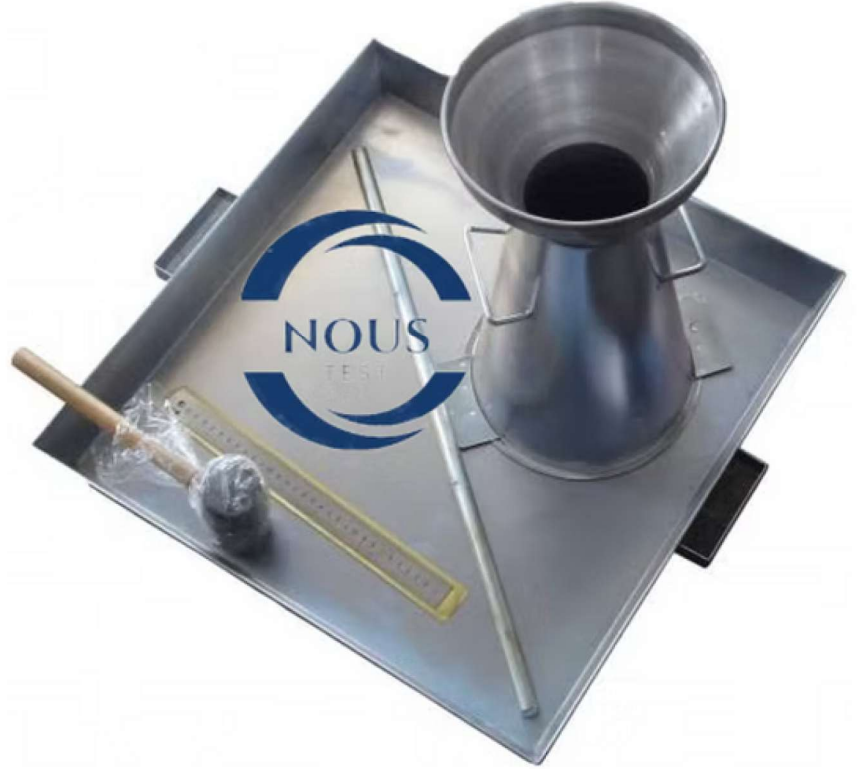


CONCRETE

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.





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.

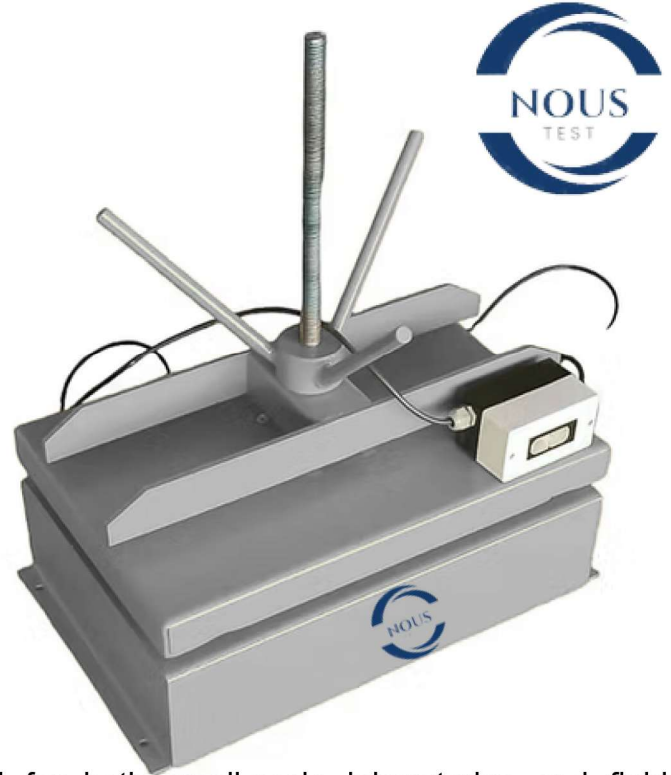
STANDARDS

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 SPECIFICATIONS

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.

