



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