

## AUTOMATIC GRINDING MACHINE

STANDARDS FOR CONCRETE SAMPLES: EN 12390-1, 12390-3, ASTM C31, C39, C192, C617

STANDARDS FOR CORE SAMPLES: EN 12390-1, 12390-3, 12504-1, ASTM C39, C42

Automatic Grinding Machine is quickly becoming the chosen alternative to the traditional rubber or sulphur capping method used by Quality Construction Labs.

Can be used to grind concrete specimens, rocks, natural stones, tiles, block pavers, ceramic materials etc.

This machine is ideal for commercial testing labs and large producers who need to prepare a lot of cylinders for testing or wait times associated with capping compounds.

Not only is it a safer and healthier option, it also provides a better result in surface finish as well as flatness.

The maximum tolerance on the flatness of the potential load bearing surface (the ends of compression test specimens) is 0.050 mm for concrete samples.

The deviation of perpendicularity of the side, with reference to the end faces is 0,5° for core samples.

Thanks to the design of the machine the optimum grinding time is only 120-150 seconds and set default time at the factory.

The safe and ergonomic design prevents the user to exposure to water and dust and provides easy access to the water inlet and outlet. Specimen adapters and water restraint panels can easily be installed without the need for any assembly.

All parts of the device is steel to prevent corrosion of water and concrete.

The device has locking wheels for easy transport.

Used a high-quality genuine diamond cutting wheel, which is supplied, to produce an accurate, smooth finish. The wheel and device unique design helps to make more grinding with one wheel compare to other grinding machines.

In built water spray to clean the device.

Confirms all CE safety standards, including emergency stop, locking mechanism to prevent user accents.

In built drain filter to protect water drainage. Easily removable for cleaning and maintenance.

Adapters of cylinders, cubes and core samples can be easily mounted and removed.

Large base table for grinding contemporaneously up to;

3 pieces 150x300 mm cylinder samples,  
3 pieces 100x200 mm cylinder samples,  
1 piece 150x150x150 mm cube samples,  
3 pieces min. Ø 35 mm, max. Ø 150 mm core samples

or contemporaneously up to;

1 piece 150x300 mm cylinder sample,  
1 piece 100x200 mm cylinder sample,  
1 piece 150x150x150 mm cylinder sample or  
1 piece min. Ø 35 mm, max. Ø 150 mm core sample.

Supplied with Diamond Cutting Wheel and Adaptors for 150x300 mm cylinder samples.

Other adaptors can be ordered separately.



**HR-C0205**



**HR-C0205/2**

## Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-C0205	Automatic Grinding Machine	80x140x140	250	220 V, 50 Hz, 1 ph
HR-C0205/60Hz	Automatic Grinding Machine	80x140x140	250	220 V, 60 Hz, 1 ph

## Spare Parts & Accessories:

Product Code	Product Name
HR-C0205/1	Diamond Cutting Wheel
HR-C0205/2	Adaptors for Ø 150x300 mm cylinder samples
HR-C0205/3	Adaptors for Ø 100x200 mm cylinder samples
HR-C0205/4	Adaptors for Ø 150 mm cube samples
HR-C0205/5	Adaptors for Ø 35 mm to Ø 150 mm core samples

## RAPID CHLORIDE PERMEABILITY TESTER

STANDARDS: ASTM C1202, AASHTO T277

Chloride permeability characteristics of concrete can be reliably determined with the Rapid Chloride Permeability Tester.

Rapid Chloride Permeability Tester has 4 channels which independent of each other, 4 channels 16.000 converter for current, 4 channels temperature input and Large Graphic LCD Screen.

The test speed can be adjusted.

Can be monitored the current, voltage, time, temperature and load values over the Large Graphic LCD Screen for each channel as independent.

60 V constant voltage difference property.

Accuracy is +/-0.1 V, +/-1 ma.

1 channel temperature sensor input for each cell pair.

Independent test start and stop function.

Sound alarm function when starting the experiment and at the end of the experiment.

Test values can be stored to memory and The stored values can be monitored after test.

Rapid Chloride Permeability Tester has 4 pcs. sturdy, transparent cells, temperature sensor for each cell pair, sample connecting Apparatus, Sealing gaskets, voltage supply inputs and different colors inputs for polarities.

Supplied with 4 pcs. Cells, 4 pcs. Supply cable for V(-), 4 pcs. Supply cable for V(+), 4 pcs. Temperature Sensor Connecting cable and device Supply cable.

## Technical Specifications:

Product Code	Product Name	Power Supply
HR-C4900	Rapid Chloride Permeability Tester	220 V, 50-60 Hz, 1 ph

## Spare Parts & Accessories:

Product Code	Product Name
HR-C4900/1	Transparent Cell
HR-C4900/2	Supply cable for V(-)
HR-C4900/3	Supply cable for V(+)
HR-C4900/4	Temperature Sensor Connecting cable
HR-C4900/5	Supply cable

