

C299 AUTOMATIC SPECIMEN GRINDING MACHINE

STANDARDS: EN 12390-2 | ASTM D4543 | UNI 6132

Designed to grind and polish concrete cube and cylinder specimens, blocks, natural stones, rocks, ceramic materials etc. Specimens are easily fixed to the table by proper locking stirrups (see accessories) allowing to grind at a time:

- n° 3 cube specimens 100 mm side, or
- n° 3 cube specimens 150 mm side, or
- n° 2 cube specimens 200 mm side, or
- n° 2 cylinder specimens Ø 100x200, 110x220, 150x300, 160x320 mm, or
- n° 1 block with max. dimensions 390x250 mm

The radial movement of the head is equipped with end of stroke system, granting the fully automatic displacement in both directions. The column is completely protected against the abrasive dust. The vertical lowering of the grinding head is achieved with infinitesimal adjustments by operating on the top handwheel having 0.05 mm graduations.

The machine, made from rugged plate, is supplied complete with control panel, coolant/decantation tank (by water and emulsifying oil), motor pump, set of abrasive sectors, safety chip guard that when removed, stops automatically the machine.

The standard supply **does not include** the locking stirrups and the diamond sectors (8 pieces) that must be ordered separately (see accessories).



C299 with **C300-06N** holding one 150 mm cube

MAIN FEATURES

- Designed for grinding concrete cube and cylinder specimens, blocks, natural stones, rocks etc.
- Simultaneous grinding of many specimens.
- Motorized radial displacement of the revolving abrasive head in both directions.
- Automatic movements of the head in both directions and controlled by travel limit switches.

NEEDED ACCESSORIES

C300-06N LOCKING STIRRUPS for cube specimens side 100, 150, 200 mm complete with distance piece 85 mm high.

AS AN ALTERNATIVE

C299-10

FAST LOCKING DEVICE, for: cubes 150 and 200 mm; cylinders Ø 100 to 160 mm. Each device accepts only one specimen.

It is possible to grind at a time:

- 1 cube 200 mm;
- 2 cubes 150 mm;
- 2 cubes 100 mm;
- 2 cylinders Ø 150 or 160 mm;
- 2 cylinders Ø 100.



C299-10

C300-02 DIAMOND GRINDING SECTOR (8 pieces required) **particularly recommended** because of their long duration and good grinding action.



C300-02

TECHNICAL SPECIFICATIONS

| | |
|------------------------|---|
| Table dimensions: | 775x280 mm (usefull: 750x235 mm) |
| Grinding wheel Ø: | 330 mm |
| Vertical span width: | min. 175 mm (95 mm with the distance piece) max. 380 mm |
| Grinding height range: | 95...380 mm |
| Grinding head stroke: | 215 mm |
| Grinding wheel speed: | 1400 rpm. |

| | |
|----------------------|---------------------|
| Power supply: | 400V 3ph 50Hz 2700W |
| Dimensions: | 1220x1080x1730 mm |
| Weight: | 410 kg approx. |

ACCESSORIES

C300-03 LOCKING STIRRUPS for cylinder specimens \varnothing 100, 110, 150, 160 mm. They can be used only in conjunction with the C300-06N stirrups.

C300-03SP LOCKING STIRRUPS for cylinder specimens \varnothing 50 to 100 mm, minimum height 95 mm. They can be used only in conjunction with the C300-06N stirrups.

C300-05N LOCKING STIRRUPS for cube specimens side 50 mm to 70 mm. They must be used only in conjunction with the C300-06N stirrups.

C300-07N LOCKING STIRRUPS to grind blocks of different sizes, but with max. dimensions of 390x250 mm.



C300-07N

C300-08 CORE FACE PREPARATION DEVICE
It prepares parallel and flat core faces or rock samples. The device accepts up to 4 core samples from \varnothing 20 to 55 mm and can be mounted on most grinding machines.

Weight: 7 kg approx



C300-05N



C300-08



C299 with C300-06N holding 3 cubes 150 mm

C300-09N DEVICE to collect the produced powder during the drying grinding procedure. The device must be connected to an aspirator (not included).*

The four collecting pipes have a max. extension of 3 meters (different extensions on request).

The terminal diameter of the device is: 160 mm

Weight: 15 kg approx.

C300-01 ABRASIVE GRINDING SECTORS, spare, set of 8 pieces.



C300-09N

*Note:

Minimum requirements for the aspiration system:

- Power: 1200W
- Air flow rate: 170 mc/h
- Capacity: 32 l