Automatic Specimen Grinding Machine

LT-C0060 | Diamond disc preparation of specimen loading faces

Automatic feed • Enclosed working chamber • Water cooling



0.050 mm

CONCRETE SPECIMEN FLATNESS LEVEL

120 s

APPROXIMATE TIME PER SURFACE

80 × 140 × 140 cm • 250 kg • Cube, cylinder and core adapters

Photographs and Components

Enclosed working chamber, clamping fixture, control panel and water system

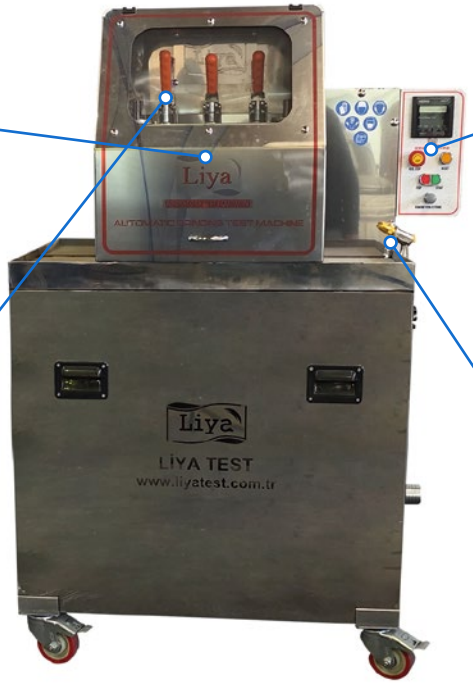
The automatic grinding machine prepares loading faces on concrete, rock, natural stone, ceramic and tile specimens. A diamond disc removes irregularities with controlled automatic feed. The enclosed chamber and water spray help contain water and fine particles.

ENCLOSED WORKING AREA

The protective cabinet helps contain water and fine particles during grinding.

CONTROL PANEL

The side panel carries start, stop and emergency stop controls.



SPECIMEN CLAMPING

Suitable adapters and clamping levers hold the specimen securely during preparation.

WATER SYSTEM

Integrated water spray cools the disc and suppresses fine dust at the contact area.



Side control panel and emergency stop system

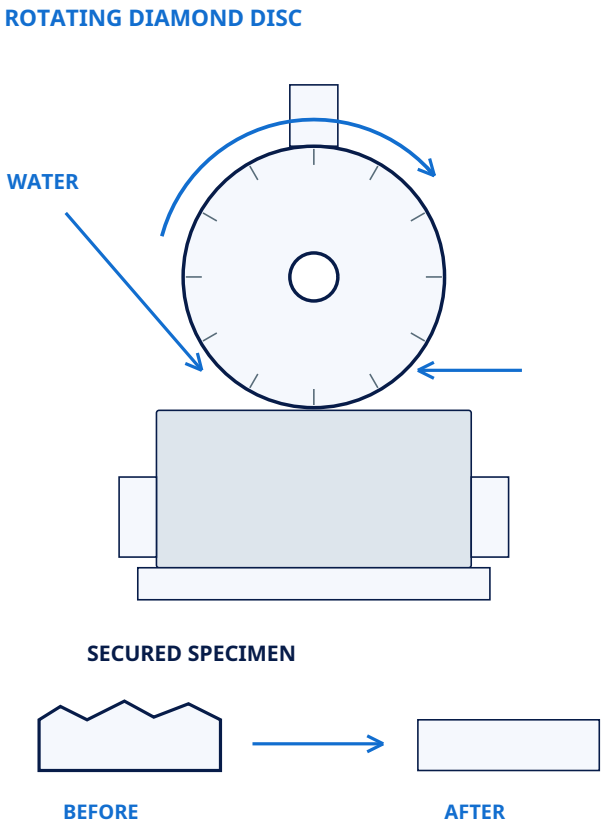


Specimen adapters, clamping levers and prepared core faces

LT-C0060

Surface Preparation with a Diamond Disc

Secure the specimen • Start automatic feed • Check surface suitability



Select the Adapter

Choose an adapter for the cube, cylinder or core. Align and securely clamp the specimen.

Grind Automatically

Activate water cooling. Prepare the face with the diamond disc and controlled automatic feed.

Inspect the Surface

Check flatness, parallelism and dimensions against the relevant test method after grinding.

The rotating diamond disc mechanically removes high spots from the specimen loading face. Water cools the contact area and suppresses fine dust. Assess the prepared surface against the requirements of the subsequent compression or mechanical test.

Flatness and Preparation Time

For suitable concrete specimens, the machine supports flatness of approximately 0.050 mm. The stated processing time is about 120 seconds per surface.

Time and surface quality depend on material, initial surface condition and operating settings. Check parallelism of opposite ends separately.

Cooling and Cleaning

Water spray cools the diamond disc and suppresses fine dust. The enclosed cabinet helps contain processing residue.

A removable drainage filter simplifies maintenance. Clean the working area and water channels after use; inspect the blade and adapters.

LT-C0060

Technical Specifications and Adapters

LT-C0060 • Automatic operation, machine dimensions and specimen adapters

Technical Feature	Value / Function
Product Code	LT-C0060
Feed System	Controlled automatic feed
Grinding Tool	Diamond cutting / grinding disc
Overall Dimensions	80 × 140 × 140 cm
Weight	Approximately 250 kg
Concrete Specimen Flatness	Down to approximately 0.050 mm
Processing Time per Surface	Approximately 120 seconds

Product Code	Spare Part / Adapter
LT-C0060/1	Spare diamond cutting blade
LT-C0060/2	Adapter for Ø150 × 300 mm cylinders
LT-C0060/3	Adapter for Ø100 × 200 mm cylinders
LT-C0060/4	Adapter for 150 mm cubes
LT-C0060/5	Adapter for Ø35-Ø150 mm cores
LT-C0061/5	Adapter for Ø75 mm cores

Related Test and Specimen Preparation Standards

EN 12390-1, EN 12390-3, EN 12504-1; ASTM C31, C39, C192 and D4543. Select adapters and surface and dimensional tolerances for the applicable method.

Specimen Preparation Workflow

01
Select Adapter
Fit an adapter for specimen geometry.

02
Secure Specimen
Align the specimen and lock the clamp.

03
Grind Automatically
Prepare the surface with water cooling.

04
Inspect and Clean
Check the face; clean the filter and area.

Product Page | liyatest.com.tr/en/urun/automatic-specimen-grinding-machine/