Semi-Automatic Specimen Grinding Machine

LT-C0061 | Diamond disc grinding of specimen loading faces

Manual control • Water cooling • Interchangeable adapters



84 × 60 × 130

OVERALL DIMENSIONS / CM

110 kg

MACHINE WEIGHT

Cylinder, cube and core specimens • Preparation before compression testing

Photographs and Components

Specimen clamping fixture, control handwheel, control panel and water connections

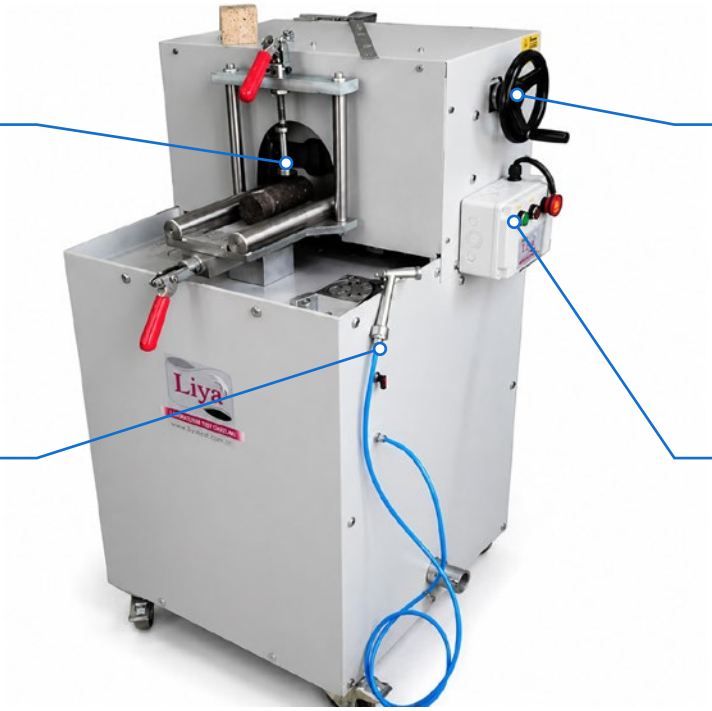
The Semi-Automatic Specimen Grinding Machine prepares loading faces on concrete, rock, natural stone and ceramic specimens. A diamond disc removes irregularities while the operator controls movement manually. Water spray cools the disc and suppresses dust.

SPECIMEN CLAMPING

An appropriate adapter and clamping fixture hold the specimen securely during grinding.

CONTROL HANDWHEEL

The operator manages grinding movement through the mechanical control arrangement.



WATER CONNECTIONS

Water spray cools the disc and reduces dust generated during grinding.

CONTROL PANEL

The side panel carries start and stop controls and an emergency stop button.



Core specimen, clamping mechanism and adapter

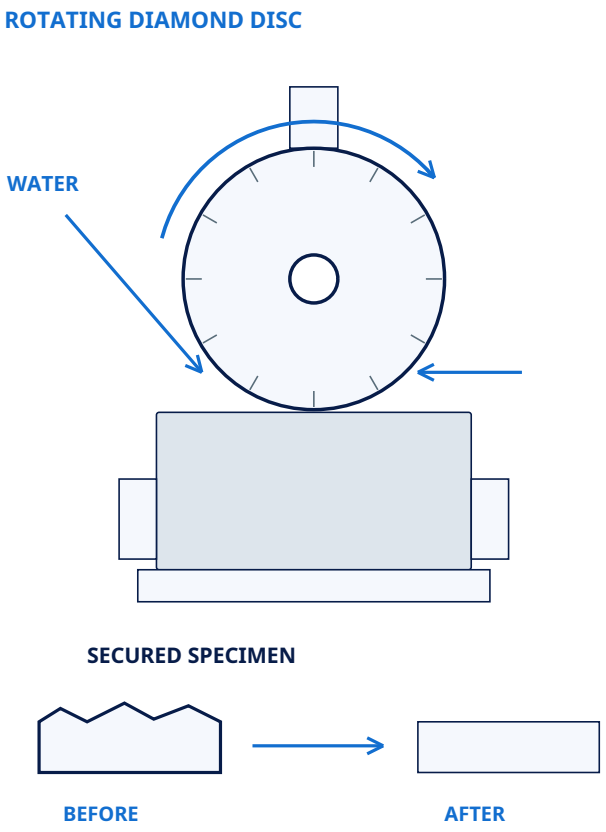


Side control panel and water connection arrangement

LT-C0061

Surface Preparation with a Diamond D

Secure the specimen • Grind steadily • Check flatness and parallelism



Select the Adapter

Select an adapter for the cylinder, cube or core geometry. Secure the specimen with the clamping fixture.

Control the Grinding

Activate water cooling. Use the control arm to guide the disc across the specimen surface.

Inspect the Surface

Check specimen flatness, parallelism and dimensions against the applicable 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.

Flat and Parallel Loading Faces

Even surfaces support a more uniform transfer of compressive load into the specimen.

Prepare and check the opposite ends of cylinders and cores against the tolerances required by the test method.

Cleaning and Modular Use

A removable drainage filter simplifies cleaning and maintenance. Painted metal surfaces provide protection against water and concrete residue.

Interchangeable adapters accommodate different specimens; lockable wheels simplify movement within the laboratory.

LT-C0061

Technical Specifications and Adapters

LT-C0061 • Machine dimensions, grinding system and specimen fixtures

Technical Feature	Value / Function
Product Code	LT-C0061
Overall Dimensions / Weight	84 × 60 × 130 cm / 110 kg
Grinding System	Diamond disc; manually controlled movement
Cooling / Drainage	Water spray / removable drainage filter
Specimen Materials	Concrete, rock, natural stone and ceramic

Product Code	Spare Part / Adapter
LT-C0061/1	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

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 the specimen geometry.

02
Secure Specimen
Align the specimen and adjust the clamp.

03
Grind the Surface
Apply controlled grinding with water cooling.

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

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