Böhme Abrasion Tester

LT-A0068 | Controlled abrasion and volume loss assessment

Digital revolution counter • Automatic stop • Rotating abrasion table



Ø750 mm

ABRASION TABLE DIAMETER

30 ±1 rpm

TABLE ROTATION SPEED

EN 1338 / 1339 / 1340 • EN 14157 Method B • 220 V, single phase

Photographs and Components

Digital control panel, rotating table, specimen loading and abrasive arrangement

The Böhme tester assesses abrasion resistance of concrete paving blocks, slabs, kerbs and suitable natural stone specimens. The loading arrangement holds the specimen against the rotating table with abrasive powder on the test track. Material loss is determined after testing.

DIGITAL CONTROL

The revolution counter monitors rotation. The motor stops when the preset revolution count is reached.

SPECIMEN LOADING

The loading arrangement provides controlled positioning of the specimen on the abrasion surface.



ABRASION TABLE

The Ø750 mm table rotates at 30 ±1 rpm; the specimen surface contacts the abrasive test track.

ABRASIVE ARRANGEMENT

Apply standard abrasive to the test track. LT-A0068/1 abrasive powder is available separately in 50 kg quantity.



Rotating table and specimen loading area



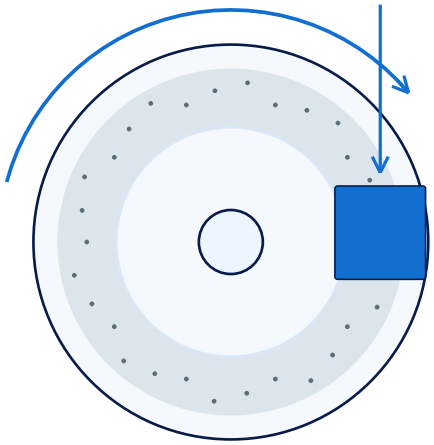
Digital revolution counter and control panel

Operating Principle and Test Cycles

Measure • Apply abrasive • Run the cycles • Determine volume loss

BÖHME ABRASION • SCHEMATIC TOP VIEW

SPECIMEN AND LOADING



ABRASIVE TEST TRACK

Ø750 mm • 30 ±1 rpm

16 CYCLES × 22 REVOLUTIONS

ROTATING TABLE • ABRASION UNDER LOAD

Record Initial Measurements

Record initial specimen mass and required dimensions. Distribute suitable abrasive on the test track.

Run the Test Cycles

Position the specimen in the loading arrangement. Apply 22 revolutions per cycle and complete 16 cycles.

Assess Material Loss

Between cycles, clean, rotate the specimen to the method and add fresh abrasive. Record final measurements.

The digital revolution counter and automatic stop support controlled test cycles. Clean the test surface and renew the abrasive after each cycle. Use initial and final measurements to determine volume loss according to the applicable method.

Concrete Products and Natural Stone

EN 1338 for concrete paving blocks, EN 1339 for concrete paving flags and EN 1340 for concrete kerbs include relevant Böhme methods.

For natural stone, use suitable accessories and procedures under EN 14157 Method B. Follow the selected product standard for specimen preparation, loading and result calculation.

Cycle Control and Abrasive

The Böhme procedure comprises 16 cycles with 22 revolutions per cycle. Rotate the specimen and renew the abrasive as required by the method.

LT-A0068/1 abrasive powder is available separately in 50 kg quantity. Keep initial and final measurements in one record; under the same method conditions, lower volume loss indicates higher abrasion resistance.

Specifications and Use Workflow

LT-A0068 • Böhme abrasion tester and optional abrasive powder

Technical Feature	Value / Description
Tester Code	LT-A0068
Abrasion Table Diameter	Ø750 mm
Table Rotation Speed	30 ±1 rpm
Revolution Control	Digital counter and automatic stop at preset count
Standard Test Cycles	16 cycles × 22 revolutions
Result Assessment	Specimen volume loss
Overall Dimensions	150 × 100 × 85 cm
Tester Weight	275 kg
Power Supply	220 V, 50-60 Hz, single phase
Concrete Product References	EN 1338 / EN 1339 / EN 1340
Natural Stone Reference	EN 14157 Method B
Optional Abrasive Powder	LT-A0068/1 / 50 kg

Cleaning and Renewal Between Cycles

Clean the test track after each cycle, rotate the specimen according to the method and apply fresh abrasive. Determine volume loss from initial and final measurements.

Böhme Test and Result Recording

01
Measure and Prepare
Record initial measurements; apply abrasive.

02
Position
Place the specimen in the loading arrangement.

03
Complete Cycles
16 × 22 revolutions; renew between cycles.

04
Calculate and Record
Take final measurements; determine volume loss.

Product Page | liyatest.com.tr/en/urun/bohme-abrasion-tester/