Automatic Soil Compactor

LT-S0076 | Automatic compaction of Proctor and CBR specimens

Adjustable rammer • Programmable blow count • Rotating table



2.5 / 4.5 kg

RAMMER MASS OPTIONS

50 / 50.8 mm

RAMMER FACE DIAMETER OPTIONS

ASTM D698 • ASTM D1557 • EN 13286-2

Photographs and Instrument Structure

Digital blow control, enclosed body and internal compaction mechanism

The automatic soil compactor prepares Proctor and CBR specimens using controlled blows. A rotating table distributes impacts over the specimen surface; the cycle stops when the selected blow count is completed.

DIGITAL BLOW CONTROL

Set the required number of blows for each layer. Blows are counted automatically during the cycle.

RAMMER ARRANGEMENT

Select rammer mass, face diameter and drop height according to the test method.



ENCLOSED BODY

The door-equipped housing brings the compaction mechanism together within an enclosure.

BASE AND TABLE

The internal rotating table supports the mould and distributes blows over different positions.



Digital counter and control panel

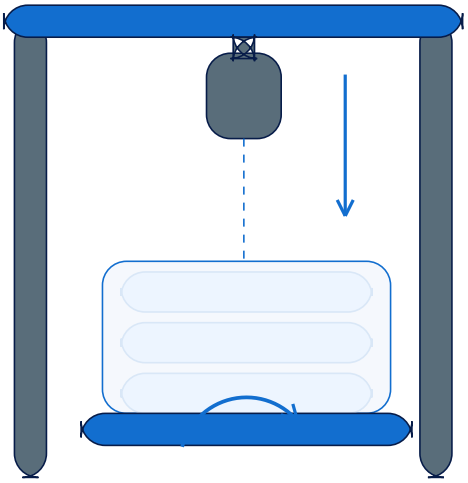


Rammer mechanism and rotating table

Blow Counting and Impact Distribution

Select the method • Position the mould • Set blows • Start the cycle

FALLING RAMMER + ROTATING MOULD TABLE



DROP: 300 / 305 / 450 / 457 mm

PATTERN: SINGLE OR INNER-OUTER RADIUS

Set the required blows for each layer in advance

Complete the cycle at the programmed blow count

REPRESENTATIVE AUTOMATIC COMPACTION DIAGRAM • NOT TO SCALE

Configure the Method

Select rammer mass, diameter and drop height. Secure the mould to the table.

Program the Blows

Set the blows per layer and the appropriate inner-outer distribution.

Complete the Cycle

The machine counts blows and stops the compaction cycle when the selected count is reached.

The table advances angularly after each blow so the rammer strikes different positions. Smaller moulds use a single-radius pattern; larger Proctor and CBR moulds use inner and outer radii. Select settings for the mould and test method.

Standard and Modified Specimen Preparation

Select a 2.5 or 4.5 kg rammer mass and a 50 or 50.8 mm face diameter. Drop height options are 300, 305, 450 and 457 mm.

These settings support specimen preparation at different compactive efforts. Apply layer count, blow count and material preparation according to the selected procedure.

Proctor and CBR Applications

For Proctor work, prepare compacted specimens at different water contents. Evaluate the water content-dry density relationship using the required weighing and moisture measurements.

For CBR work, use the machine to prepare the compacted specimen before penetration testing. Retain the method, mould, rammer settings and blow records for each specimen.

Technical Specifications and Cycle Control

LT-S0076 | EN and ASTM specimen preparation arrangements

Technical Specification	Value / Description
Product Code	LT-S0076
Application	Standard / modified Proctor and CBR specimen preparation
Rammer Mass	2.5 or 4.5 kg
Rammer Face Diameter	50 or 50.8 mm
Drop Height	300 / 305 / 450 / 457 mm
Blow Count	Programmable digital count per layer
Cycle Completion	Automatic stop at the programmed blow count
Mould Movement	Base table rotates between blows
Blow Distribution	Single-radius or inner-outer radius pattern
Relevant Compaction Methods	ASTM D698 • ASTM D1557 • EN 13286-2

Record Rammer Settings with the Blow Programme

Record mould identification, rammer mass, face diameter, drop height and blows per layer. Match the compaction configuration to the selected test procedure.

Automatic Compaction Workflow

01
Prepare
Prepare the material and suitable mould.

02
Set
Configure rammer and blow programme.

03
Compact
Run the automatic cycle for each layer.

04
Complete
Remove the specimen and complete records.

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