Soil Lathe

LT-S0025 | Controlled diameter trimming of cylindrical soil specimens

Manual rotation • Adjustable upper support • Gradual trimming



35-100 mm

SPECIMEN DIAMETER RANGE

230 mm

MAXIMUM ADJUSTABLE WORKING HEIGHT

Rotating table for circumferential access • Mechanical operation

LT-S0025

Photographs and Instrument Components

Upper adjustment screw, support head, rotating table and frame

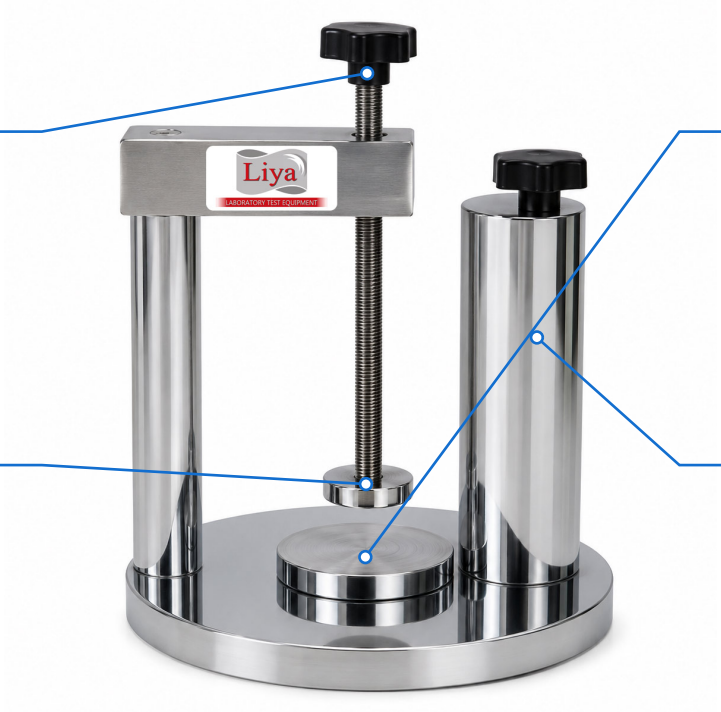
The Soil Lathe supports trimming cylindrical soil specimens to the required diameter and shape before testing. Position the specimen between the lower table and upper support, then rotate it manually while removing thin layers with a suitable cutting accessory.

UPPER ADJUSTMENT SCREW

Position the upper support to match specimen height. Working height adjusts up to 230 mm.

UPPER SPECIMEN SUPPORT

Helps retain axial specimen alignment above the lower table.



ROTATING SPECIMEN TABLE

Supports manual specimen rotation and gradual trimming around its circumference.

SUPPORTING STRUCTURE

Provides a compact arrangement for specimen preparation on a laboratory workbench.



Upper adjustment screw and specimen support head



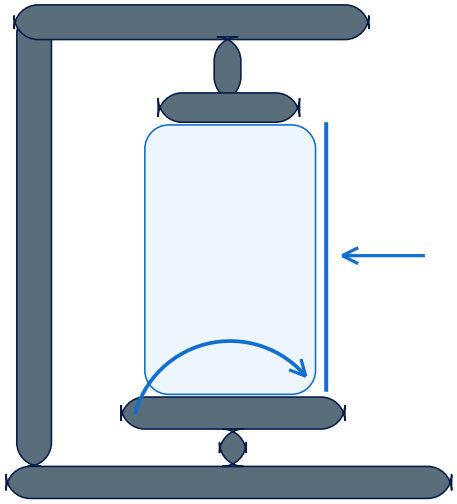
Lower rotating table and specimen positioning area

LT-S0025

Rotate, Trim Gradually and Check Diameter

Position specimen • Adjust upper support • Trim gradually • Check dimensions

ROTATING SPECIMEN + UPPER SUPPORT + CUTTING LINE



SPECIMEN DIAMETER: 35-100 mm

WORKING HEIGHT: UP TO 230 mm

Remove thin layers from the specimen circumference

Check target diameter and cylindrical shape regularly

REPRESENTATIVE SPECIMEN TRIMMING DIAGRAM • NOT TO SCALE

Position and Align

Centre the specimen on the lower table. Adjust the upper support to specimen height.

Rotate and Trim

Rotate the specimen manually. Remove excess material gradually with a suitable wire saw.

Check Diameter

Make small corrections near the target size. Verify dimensions with a suitable measuring tool.

Manual rotation provides access to different parts of the specimen circumference. Correct upper-support positioning and gradual material removal help retain cylindrical geometry. Check final dimensions against the requirements of the subsequent test.

Controlled Cylindrical Specimen Preparation

The LT-S0025 trims the circumference and reduces the diameter of soil specimens from 35 to 100 mm. Its adjustable working height extends up to 230 mm.

Align the specimen and remove excess material in thin layers. Avoid deep cuts and sudden loads. Check diameter at different positions while approaching the target dimensions and cylindrical shape.

Cutting Accessories Ordered Separately

The LT-G0170 Open Wire Saw, LT-G0170/1 Wire and LT-G0171 Trimming Knife are separate accessories and are not included as standard with the instrument.

Use the wire saw to remove thin layers around the circumference. The trimming knife supports correction of small surface irregularities. Select accessories for the specimen material and preparation task.

Technical Specifications and Accessories

LT-S0025 | Manual preparation of cylindrical soil specimens

Parameter	Description / Specification
Product Code	LT-S0025
Specimen Diameter Range	35-100 mm
Adjustable Working Height	Up to 230 mm
Operation	Manual mechanical
Specimen Movement	Manually rotated lower table
External Dimensions	30 × 30 × 35 cm
Approximate Weight	27 kg
Open Wire Saw	LT-G0170 • Ordered separately
Wire	LT-G0170/1 • Ordered separately
Trimming Knife	LT-G0171 • Ordered separately

Check Specimen Dimensions Throughout Preparation

Record specimen ID, target diameter and final measurements. Complete preparation according to the dimensional and surface requirements of the next test.

Manual Specimen Preparation Workflow

01
Position
Centre the specimen on the lower table.

02
Adjust
Match the upper support to specimen height.

03
Trim
Rotate and remove thin layers gradually.

04
Check
Verify diameter, shape and final dimensions.

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