Mechanical Measuring Cylinder Shaker

LT-S0048 | Soil suspension preparation by end-over-end motion

Two-cylinder capacity • Mechanical inversion • Consistent mixing



2 cylinders

SIMULTANEOUS OPERATING CAPACITY

1 L

COMPATIBLE HYDROMETER CYLINDER

BS 1377-2 • Hydrometer and sedimentation test preparation

Photographs and Components

Cylinder holders, central drive, support arms and base

The LT-S0048 mechanically mixes soil-water suspensions used in hydrometer testing. End-over-end motion inverts the cylinders and moves the contents to support uniform distribution before the test.

CYLINDER HOLDERS

Retain two cylinders in their operating positions. Secure the cylinders before starting.

CENTRAL DRIVE

The central drive mechanism transfers movement to the support arms.

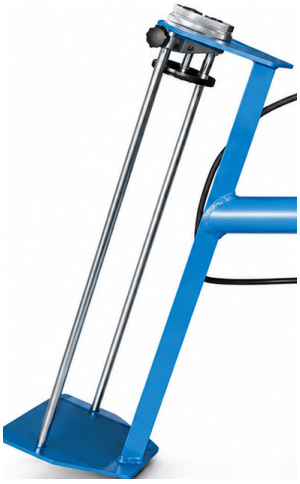


SUPPORT BASE

Supports the central mechanism and rotating holder arms.

ROTATING ARMS

Invert the cylinders end over end, moving the suspension between the two ends.



Cylinder holding frame and securing section



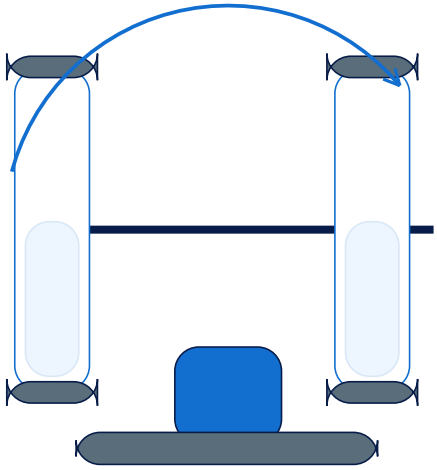
Central drive mechanism and support base

LT-S0048

Suspension Preparation by End-over-End Motion

Prepare mixture • Secure cylinders • Mix mechanically • Transfer to test

TWO CYLINDERS + INVERSION + MIXING



MOTION: END-OVER-END INVERSION

MIXTURE: EVEN SOIL AND LIQUID DISTRIBUTION

APPLICATION: PRE-HYDROMETER PREPARATION

Transfer the prepared suspension to the test stage

REPRESENTATIVE CYLINDER INVERSION DIAGRAM • NOT TO SCALE

Prepare Mixture and Cylinder

Prepare the soil-water mixture according to the method. Check the cylinder closure.

Secure Cylinders and Mix

Place both cylinders in the appropriate holders. Mix mechanically for the selected preparation period.

Proceed to Testing

Stop the unit and remove cylinders. Manage sedimentation start and readings as specified.

The cylinders turn end over end around a horizontal axis. Movement of the suspension between the ends helps redistribute soil particles throughout the liquid. After mixing, transfer the cylinders to the appropriate hydrometer and sedimentation test stage.

Two Cylinders and Consistent Preparation

The machine mixes two hydrometer cylinders in the same operating cycle. The compatible LT-S0048/1 cylinder has a nominal capacity of 1 litre.

Select mixture quantity, specimen preparation and mixing duration according to the method. Keep preparation conditions consistent for comparative tests and secure cylinders correctly.

Use with Hydrometer Testing

The mechanical shaker prepares the soil-water mixture. Particle-size distribution assessment is completed through subsequent hydrometer readings and the test calculation procedure.

Record specimen identification and mixing duration. After removing the cylinder, start sedimentation timing as specified; record reading times and temperature in the test record.

Technical Specifications and Compatible Cylinder

LT-S0048 | Mechanical shaker and LT-S0048/1 hydrometer cylinder

Technical Specification	Value / Description
Product Code	LT-S0048
Motion Principle	End-over-end inversion
Operating Capacity	2 cylinders • Simultaneous mixing
Compatible Cylinder Code	LT-S0048/1
Cylinder Volume	1 L
Application	Soil-water mixture preparation for hydrometer testing
External Dimensions	900 × 700 × 600 mm
Approximate Weight	21 kg
Standard Reference	BS 1377-2
Main Function	Mechanical mixing of the suspension

Record Preparation Conditions and Time

Check cylinder retention and closures. Record specimen identification, mixture preparation and duration; manage test timing after mixing according to the method.

Hydrometer Specimen Preparation Workflow

01
Prepare
Prepare the soil-water mixture in the cylinder.

02
Secure
Position and secure the cylinder in its holder.

03
Mix
Mix through end-over-end motion.

04
Transfer
Stop; transfer the cylinder to sedimentation testing.

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