Marshall-CBR Sample Extruder

LT-U0035 | Manual hydraulic specimen extrusion

5 ton capacity • Vertical extrusion • Compatible moulds and adaptors



5 ton

HYDRAULIC JACK CAPACITY

30 kg

UNIT WEIGHT

Marshall • Compatible CBR moulds • Compacted specimen preparation

LT-U0035

Photograph and Extrusion Components

Upper support, hydraulic jack, support columns and pushing plate

LT-U0035 removes compacted asphalt and soil specimens from compatible moulds. Its manual hydraulic jack applies vertical pushing force gradually. Check mould, support and adaptor compatibility before operation.

UPPER SUPPORT PLATE

Supports the mould in the extrusion arrangement. Match the opening and seating surface to the mould.

SUPPORT COLUMNS

Connect the upper support and base and carry the extrusion arrangement.



HYDRAULIC JACK

Manual pumping increases pushing force gradually. Jack capacity is 5 tons.

PUSHING PLATE

Transfers jack motion to the specimen base. Align it with the mould axis.



Upper support and mould passage opening



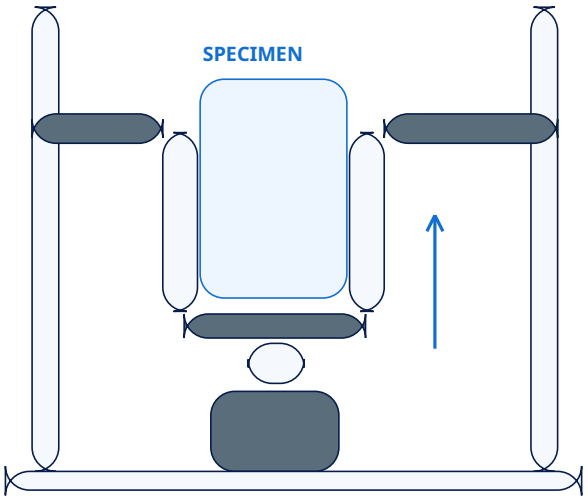
Manual hydraulic jack and handle connection

LT-U0035

Hydraulic Pushing for Specimen Extrusion

Position mould • Align axes • Push gradually • Remove specimen

SUPPORTED MOULD + SPECIMEN PUSHED UPWARD



HYDRAULIC MOTION PUSHES THE SPECIMEN UP

MOULD SUPPORT • AXIS ALIGNMENT • GRADUAL FORCE

MOULD SUPPORTED • PUSHING PLATE MOVES

Check the integrity of the extracted specimen

REPRESENTATIVE EXTRUSION DIAGRAM • NOT TO SCALE

Position and Align

Select a compatible mould and adaptor. Seat the mould on the support and align the pushing plate.

Apply Force Gradually

Operate the manual hydraulic handle in a controlled manner. Monitor upward specimen movement.

Remove and Check

Remove the specimen and check its integrity. Lower the jack and prepare for the next operation.

The hydraulic jack raises the pushing plate. The supported mould remains in position while the specimen is pushed out. Correct axial alignment and gradual loading help preserve specimen geometry.

Marshall and CBR Mould Compatibility

The unit is used for suitable compacted asphalt specimens in Ø100 mm Marshall moulds. CBR and soil applications are supported with compatible moulds and suitable adaptors.

Check mould dimensions, supporting surface and pushing plate together. Centre the specimen and maintain the extrusion axis.

Manual Operation and Routine Checks

The 5 ton hydraulic jack requires no electrical connection. Approximate external dimensions are Ø30 × 54 cm and unit weight is approximately 30 kg.

Check supports and connections before use. After extrusion, clean the mould and pushing surfaces. Record specimen ID and observed condition.

Technical Specifications and Mould Compatibility

LT-U0035 • Hydraulic capacity, operation, dimensions and applications

Specification	Value / Description
Product Code	LT-U0035
Hydraulic Jack Capacity	5 ton
Drive	Manual hydraulic • No electrical supply
Extrusion Motion	Vertical, gradual pushing
Marshall Mould Compatibility	Suitable Ø100 mm moulds
CBR / Soil Use	Compatible mould and suitable adaptor
External Dimensions	Approximately Ø300 × 540 mm
Weight	Approximately 30 kg
Related Asphalt Methods	EN 12697-30 • AASHTO T245
Related Soil Methods	ASTM D698 • ASTM D1557 • ASTM D1883

Check Mould Support and the Specimen Pushing Axis

Choose the mould and adaptor for the specimen procedure. Centre the pushing plate on the specimen and use controlled hydraulic motion for extrusion.

From Moulded Specimen to Extracted Specimen

01
Position
Place the compatible mould and adaptor on the support.

02
Align
Align pushing plate and specimen axes.

03
Extrude
Push upward gradually with the manual jack.

04
Check
Remove the specimen and check its integrity.

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