Marshall CBR Sample Extruder

LT-U0035 | Sample extrusion with a manually operated hydraulic jack

Marshall • CBR • Standard and Modified Proctor specimens



5 ton

HYDRAULIC JACK CAPACITY

4″ / 6″

ALSO SUITS 100 AND 150 mm MOULDS

Manual hydraulic jack • No electrical connection required

LT-U0035

Photographs and Instrument Components

Upper support, pushing head and manual hydraulic jack

The Marshall CBR Sample Extruder removes compacted asphalt and soil specimens from their moulds. A manually operated hydraulic jack with 5 ton capacity applies axial force through a suitable pushing head and upper support arrangement.

HYDRAULIC JACK

The manual hydraulic jack provides 5 ton capacity for specimen extrusion.

UPPER MOULD SUPPORT

The open-centred upper support allows the specimen to emerge upwards from its mould.



PUSHING HEAD

A head matched to the specimen base transmits jack force along the specimen axis.

MANUAL PUMP

Operate the pump handle to advance the jack gradually without electrical power.



Upper support ring and open specimen exit



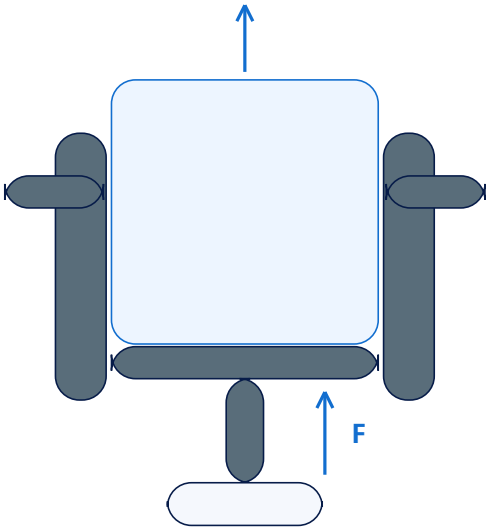
Manual hydraulic jack and pump connection

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Specimen Extrusion by Axial Force

Select adaptor • Centre mould • Advance jack • Receive specimen

HYDRAULIC JACK + ADAPTOR + MOULD



JACK FORCE ACTS ALONG THE SPECIMEN AXIS

MOULD SUPPORTED AROUND THE EXIT OPENING

The specimen moves upwards as the jack advances

Prepare the extracted specimen for the next stage

REPRESENTATIVE SPECIMEN EXTRUSION SECTION • NOT TO SCALE

Select the Adaptor

Choose a pushing head and support arrangement suitable for the mould and specimen.

Centre and Support

Position the mould at the upper support. Align jack, head and specimen axially.

Extrude Gradually

Advance with the hand pump. Support and receive the emerging specimen.

Support the mould around an opening that permits the specimen to pass through. The jack and suitable pushing head move the specimen upwards. Axial alignment, exit clearance and gradual movement form the basis of the extrusion process.

Marshall, CBR and Proctor Specimens

The extruder is used for Marshall and CBR specimens and for compacted soil specimens in Standard and Modified Proctor moulds.

Compatible mould sizes are listed as 4 inch, 6 inch, 100 mm and 150 mm. Check dimensional compatibility between the selected mould, pushing head and support opening before operation.

Manual Hydraulic Operation

The hydraulic jack has 5 ton capacity and is operated by a hand pump. Axial force can be applied without an electrical connection.

Secure the mould and observe specimen movement during extrusion. After removal, retain specimen identification and apply the preparation needed for subsequent testing.

LT-U0035

Technical Specifications and Applications

LT-U0035 | Manual hydraulic extruder for Marshall and CBR specimens

Parameter	Description / Specification
Product Code	LT-U0035
Hydraulic Jack Capacity	5 ton
Operation	Manual hydraulic jack / hand pump
Asphalt Specimens	Marshall
Bearing Ratio Specimens	CBR
Soil Compaction Specimens	Standard and Modified Proctor
Compatible Mould Sizes	4 inch / 6 inch / 100 mm / 150 mm
Extrusion Direction	Upwards along the mould axis
External Dimensions	Ø30 × 54 cm
Approximate Weight	30 kg

Check the Mould, Pushing Head and Support Opening Together

Provide clearance for the specimen to emerge freely. Centre the mould and pushing head on the jack axis and support the specimen throughout removal.

Hydraulic Specimen Extrusion Workflow

01
Select
Choose a suitable head and support.

02
Position
Support and centre the mould axially.

03
Advance
Advance the jack with the hand pump.

04
Receive
Support the emerging specimen.

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