Hydraulic Horizontal Sample Extruder

LT-S0120 | Controlled horizontal extrusion from moulds and sample tubes

Hydraulic thrust • Interchangeable adaptors • Adjustable receiving table



60 kN

MAXIMUM EXTRUSION FORCE

650 mm

MAXIMUM STROKE

Ø35-101.6 mm specimen range • Horizontal hydraulic operation

LT-S0120

Photographs and Instrument Components

Hydraulic pusher, mould support, receiving table and controls

The LT-S0120 hydraulically extrudes compacted specimens horizontally from moulds or sample tubes. Suitable adaptors and alignment support controlled transfer onto the specimen receiving table.

HYDRAULIC PUSHER

Provides axial extrusion with up to 60 kN force and a maximum 650 mm stroke.

MOULD SUPPORT

Position the mould or tube on the extrusion axis with suitable ring and pusher adaptors.



HYDRAULIC POWER UNIT

The motor, oil tank and connections supply the hydraulic extrusion system.

RECEIVING TABLE

The adjustable and lowerable support helps receive the emerging specimen.



Pusher adaptor and mould support section



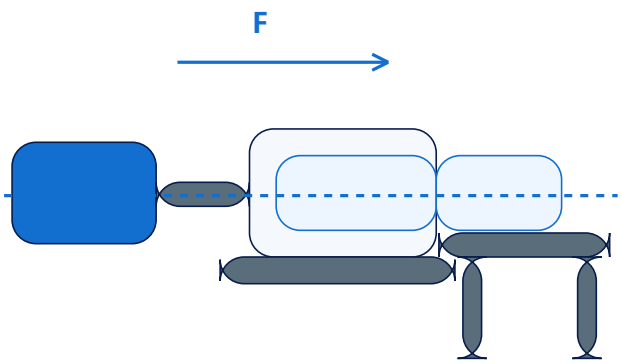
Control lever and emergency stop button

LT-S0120

Axial Extrusion with Hydraulic Force

Select adaptors • Align the mould • Advance • Support the specimen

HYDRAULIC PUSHER + MOULD + SPECIMEN



EXTRUSION FORCE: MAXIMUM 60 kN

STROKE: MAXIMUM 650 mm

Align adaptor, mould and specimen on the same axis

Extrude the specimen horizontally under control

REPRESENTATIVE HORIZONTAL EXTRUSION DIAGRAM • NOT TO SCALE

Select Adaptors and Mould

Choose ring and pusher adaptors for the specimen diameter. Position the mould on the support.

Align and Advance

Align pusher, mould and exit axes. Apply controlled hydraulic movement.

Support the Specimen

Support the emerging specimen on the receiving table. Retract the pusher after extrusion.

The hydraulic pusher advances the specimen horizontally out of the mould or tube. Correct ring and pusher adaptor selection supports axial force transfer. The receiving table supports the specimen as it emerges.

Adaptor and Specimen Diameter Selection

The stated specimen range is Ø35-101.6 mm. Standard ring and pusher adaptors are supplied for Ø38 and Ø100 mm specimens. Additional Ø50 and Ø70 mm adaptor options can be selected separately.

Check mould bore, specimen length and adaptor geometry before operation. Support the specimen and its exit path appropriately throughout extrusion.

Laboratory Specimen Preparation

The machine supports controlled soil specimen removal using compatible diameters and mould arrangements. Hydraulic movement helps apply a steady pushing force.

Adjust the receiving table to the specimen exit height. Retain specimen identification and extrusion direction, then complete records for subsequent testing or examination.

LT-S0120

Technical Specifications and Adaptors

LT-S0120 | 60 kN horizontal hydraulic extrusion system

Technical Specification	Value / Description
Product Code	LT-S0120
Maximum Extrusion Force	60 kN
Maximum Stroke	650 mm
Specimen Diameter Range	Ø35-101.6 mm
Standard Adaptors	Ø38 and Ø100 mm • Ring and pusher adaptors
Additional Adaptor Options	Ø50 and Ø70 mm • Selected separately
Specimen Receiving Table	Height-adjustable and lowerable
External Dimensions	65 × 175 × 75 cm
Approximate Weight	150 kg
Power Supply	220 V • 50-60 Hz

Match the Adaptors to the Specimen and Mould

Check specimen diameter, mould or tube dimensions and the pusher adaptor. Align the receiving table; support the specimen throughout extrusion and retain identification records.

Horizontal Specimen Extrusion Workflow

01
Prepare
Prepare suitable adaptors and mould.

02
Align
Align mould, pusher and receiving table.

03
Extrude
Advance with controlled hydraulic movement.

04
Complete
Receive the specimen and retract the pusher.

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