Core Cutting Stone Cutting Machine

LT-C0135 | For rock, concrete and cylindrical core samples

V-block support • Independent feed adjustment • Recirculating water cooling



110 mm

MAXIMUM SAMPLE DIAMETER

1200 mm

MAXIMUM SAMPLE LENGTH

5.5 kW cutting motor • 0.55 kW feed motor • 380 V, 50-60 Hz, 3 phase

Photographs and Components

Cutting head, feed drive, sample bed and operating controls

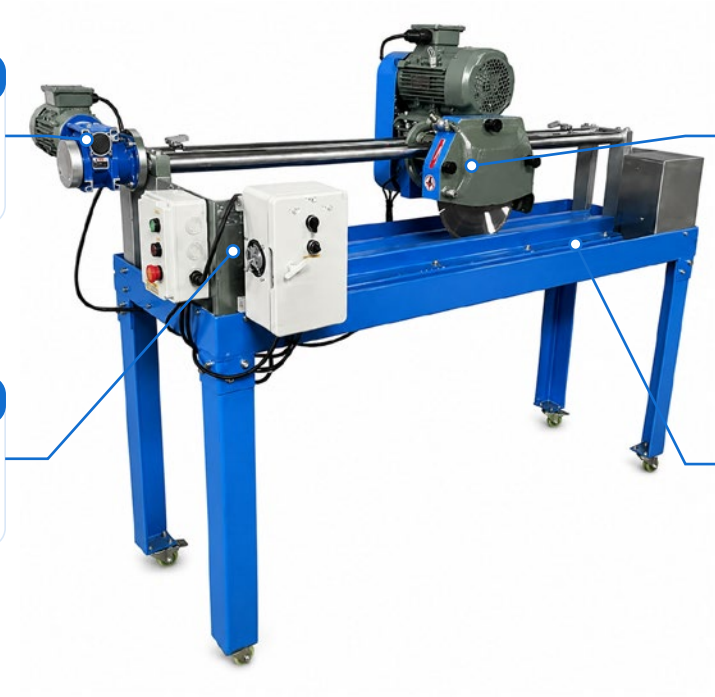
The LT-C0135 cuts rock and concrete samples to dimensions required for laboratory preparation. Its V-block arrangement also allows cylindrical cores to be cut lengthwise into two half-cylinder samples.

FEED DRIVE

A 0.55 kW geared motor provides controlled forward and reverse movement.

CONTROL SECTION

Operating buttons and speed adjustment controls are grouped at the front.



CUTTING HEAD

This section houses the 5.5 kW motor, protective guard and cutting blade.

V-BLOCK SAMPLE BED

The support arrangement accommodates cores up to 1200 mm long.



Cutting motor, blade and protective guard



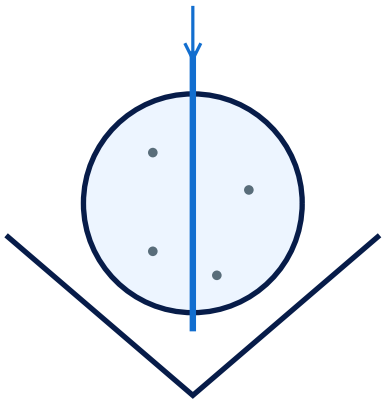
Feed drive and operating controls

LT-C0135

V-block Support and Water Recirculation

Stable core support • Water-cooled cutting • Controlled feed

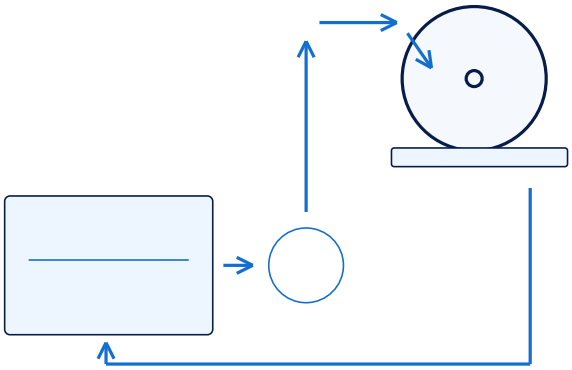
Longitudinal Core Cutting



CORE CROSS-SECTION ON V-BLOCK

The V-block supports the core. Lengthwise cutting produces two half-cylinder samples from a cylindrical core.

Recirculating Water Cooling

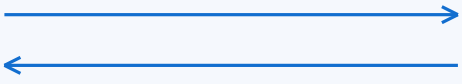


TANK - PUMP - CUTTING AREA

A pump supplies water from the tank to the cutting area. Recirculation returns used water to the cooling circuit.

Water cooling helps limit heat build-up at the blade and dust generated during cutting. Stable support of the sample on the bed supports consistent cutting.

Independent Forward / Reverse Speeds



0.55 kW

Forward and reverse movement speeds are adjusted independently. The geared feed system allows working conditions to be adapted to different rock and concrete samples.

Rock Test Specimen Preparation

ASTM D4543-19

The machine supports rock core preparation work within ASTM D4543-19. Dimensions and shape tolerances of cylindrical test specimens are checked separately.

Technical Data and Sample Workflow

LT-C0135 • Cutting capacity, motors and electrical supply

Technical Specification	Value
Product Code	LT-C0135
Sample Types	Rock, concrete and core samples
Maximum Sample Diameter	110 mm
Maximum Sample Length	1200 mm
Sample Support	V-block, up to 1200 mm long
Cutting Motor Power	5.5 kW
Cutting Motor Protection	IP55
Feed Motor Power	0.55 kW, geared
Movement Speed Adjustment	Independent forward and reverse
Water System	Pump, tank and recirculation
External Dimensions	170 × 60 × 130 cm
Weight	310 kg
Power Supply	380 V, 50-60 Hz, 3 phase

Protection and Laboratory Mobility

A protective guard and thermal magnetic circuit breaker support operation. Braked castors allow the machine to be moved and secured within the laboratory.

Sample Preparation Workflow

01
Position Sample
Place the core on the V-block and secure it.

02
Check Water
Check the water level and pump operation.

03
Adjust Feed
Choose forward and reverse speeds for the material.

04
Complete Cutting
Cut the sample and check the dimensions of the prepared pieces.

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