Petrol Engine Core Drilling Machine

LT-AS0013 | Field sampling from asphalt and concrete pavements

Petrol engine • Controlled feed • Water-cooled cutting



6.5 HP

PETROL ENGINE POWER

Ø200 mm

MAXIMUM CORE DIAMETER

EN 12697-27 • Sampling of bituminous pavements

LT-AS0013

Photograph and Field Components

Engine, feed mechanism, core bit and lower platform

The petrol engine core drilling machine obtains cylindrical specimens from asphalt and concrete pavements. Its independent engine and wheeled platform support operation at different field sampling points.

PETROL ENGINE

The 6.5 HP engine rotates the core bit without an external electrical supply.

FEED MECHANISM

The manual ball screw controls drilling pressure and allows rapid bit return.

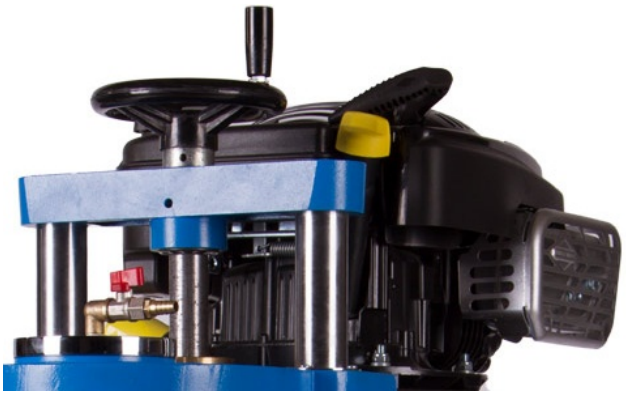


CORE BIT

Ø50-Ø200 mm options; drilling depth up to 400 mm with a suitable bit.

WHEELED PLATFORM

Rubber wheels aid movement; four stabilising points provide balance during drilling.



Engine, feed control and water connection



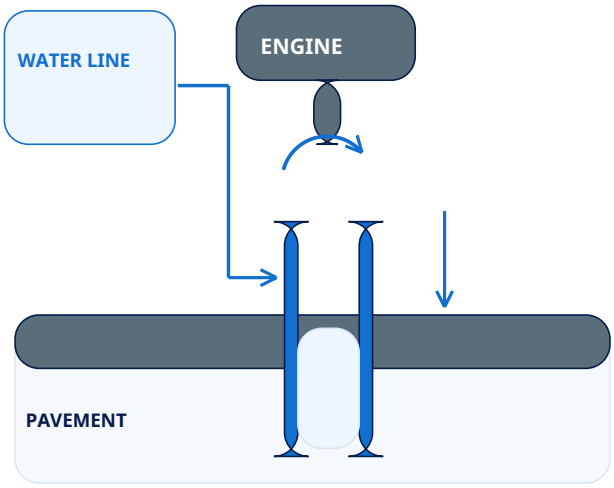
Core bit and cutting edge

LT-AS0013

Water-Cooled Core Drilling

Position • Stabilise • Drill • Retrieve the core

ENGINE + WATER SUPPLY + CORE BIT



CORE DIAMETER OPTIONS: Ø50-Ø200 mm

VERTICAL FEED • WATER-COOLED CUTTING

CYLINDRICAL SPECIMEN FROM THE PAVEMENT

Identify, protect and transport the core

REPRESENTATIVE CORING SECTION • NOT TO SCALE

Position and Stabilise

Select the sampling point. Level the machine and set all four stabilising points.

Prepare Bit and Water

Fit a suitable bit. Check the water connection and flow to the cutting area.

Drill and Retrieve

Feed the bit in a controlled manner. Retrieve, label and protect the core.

The engine rotates the core bit; the manual ball screw controls vertical feed. The water spray system cools the cutting area. The cylindrical core is separated from the pavement; record its position and orientation for laboratory testing.

Diameter and Depth Selection

Ø50, Ø75, Ø100, Ø150 and Ø200 mm core bits are supplied separately. Bit length is 400 mm; drilling capacity reaches up to 400 mm under suitable conditions.

Select diameter and target depth for the sampling plan. Drilling capacity does not guarantee the recovered specimen length at every site.

Field Records and Transportation

Record sampling location, date, core diameter and pavement orientation. Protect the retrieved core from damage and retain layer information.

Level the machine and check water flow before drilling. Raise the bit after operation; stop the engine and secure moving parts before transportation.

Technical Specifications and Core Bits

LT-AS0013 | Core bits are supplied separately

Core Bit Code	Diameter × Length (mm)
LT-AS0020	Ø50 × 400
LT-AS0021	Ø75 × 400
LT-AS0022	Ø100 × 400
LT-AS0023	Ø150 × 400
LT-AS0024	Ø200 × 400

Technical Specification	Value / Description
Machine Code	LT-AS0013
External Dimensions	50 × 85 × 120 cm
Weight	105 kg
Engine	6.5 HP • Petrol
Drilling Capacity	Up to Ø200 mm diameter / 400 mm depth
Feed Mechanism	Manual ball screw • Rapid bit return
Cooling and Stabilisation	Water spray • Four-point stabilisation

Stable Machine and Consistent Water Flow

Stabilise the machine at four points. Check bit fixing and cooling water; use controlled feed to obtain a core at the diameter and depth specified by the sampling plan.

From Field Location to Laboratory Core

01
Position
Select the sampling point and position the machine.

02
Stabilise
Check all four supports and water flow.

03
Drill
Use controlled feed and water cooling.

04
Label
Retrieve, identify and protect the core.

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