Core Drilling Machine on Trailer

LT-AS0016 | Mobile and independent sampling system

Petrol engine • Integrated water tank • Trailer platform



6.5 HP

PETROL ENGINE POWER

100 L

INTEGRATED WATER TANK CAPACITY

EN 12697-27 • Sampling of bituminous pavements

LT-AS0016

Photograph and Field Components

Engine, water line, core bit and stabilising supports

The trailer-mounted system obtains cylindrical cores from asphalt pavements. Its petrol engine and integrated water tank support field operation without external electricity or a water connection.

PETROL ENGINE

The 6.5 HP engine supplies the cutting power for the core bit.

CORE BIT

Options from Ø50 to Ø200 mm allow selection for the intended test.



COOLING WATER LINE

Water from the integrated 100 L tank is directed to the cutting area.

STABILISING SUPPORTS

Three-point stabilisation reduces platform movement during drilling.



Petrol engine and drilling drive



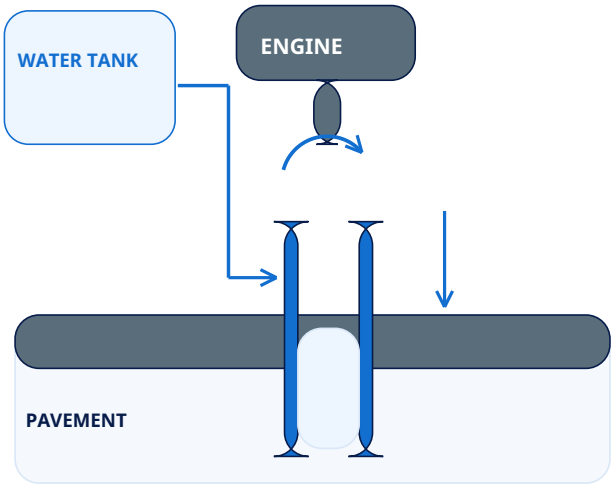
Core bit and vertical guides

LT-AS0016

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 trailer and seat the supports on the ground.

Prepare Bit and Water

Fit a suitable bit. Check water level 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 while the feed mechanism controls vertical cutting. Water from the tank cools the cutting area. The cylindrical core is separated from the pavement; record its position and orientation for subsequent laboratory testing.

Diameter and Drilling Depth Selection

Core bits are offered in Ø50, Ø75, Ø100, Ø150 and Ø200 mm diameters. Listed bit length is 400 mm; machine drilling excursion is approximately 400 mm.

Select diameter and target depth for the sampling plan. Bit length does not guarantee the recovered specimen length under every site condition.

Specimen Identity and Field Records

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

Prepare the work area before drilling. Secure supports and equipment for transportation and close the protective cover.

Technical Specifications and Core Bits

LT-AS0016 | Bit diameters and lengths in millimetres

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-AS0016
External Dimensions	160 × 260 × 200 cm
Weight	290 kg
Engine	6.5 HP • Petrol
Water Tank	100 litres • Integrated
Feed Mechanism	Ball screw • Controlled vertical feed
Drilling Excursion	Approximately 400 mm

Stable Platform and Continuous Cooling

Stabilise the trailer using its supports. Check bit fixing, water level and cutting flow; obtain the 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 trailer.

02
Stabilise
Set supports; check the bit and water.

03
Drill
Use controlled feed and water cooling.

04
Label
Retrieve, identify and protect the core.

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