Core Drilling Machine

LT-G0600 | Electric, two-speed, non-percussive core drilling

Wet diamond drilling • Left / right feed handle • Quick motor connection



2600 W

MOTOR POWER

Ø50-255 mm

DRILLING DIAMETER RANGE

Cylindrical test specimens from concrete, asphalt and natural stone surfaces

LT-G0600

Photographs and Components

Motor, guide column, feed handle, core bit and anchoring base

The Core Drilling Machine obtains cylindrical specimens from hardened concrete, asphalt and natural stone. A 2600 W motor and two-speed gearbox allow speed selection for different bit diameters. Non-percussive wet drilling supports cooling and controlled sampling.

ELECTRIC MOTOR

The 2600 W motor rotates the core bit through a two-speed gearbox.

FEED HANDLE AND COLUMN

The guide column directs movement. The feed handle can be fitted on either side.

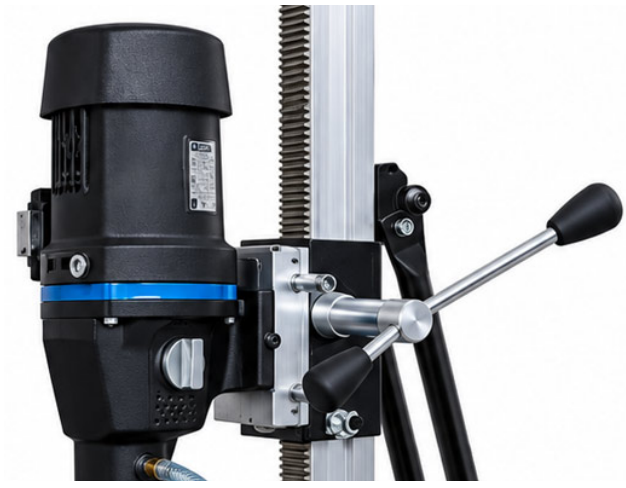


CORE BIT / WATER CONNECTION

The diamond bit cuts around the core; the water connection supports cutting-zone cooling.

ANCHORING BASE

Secure the rigid stand base firmly to the surface before drilling.



Motor, gearbox and feed mechanism



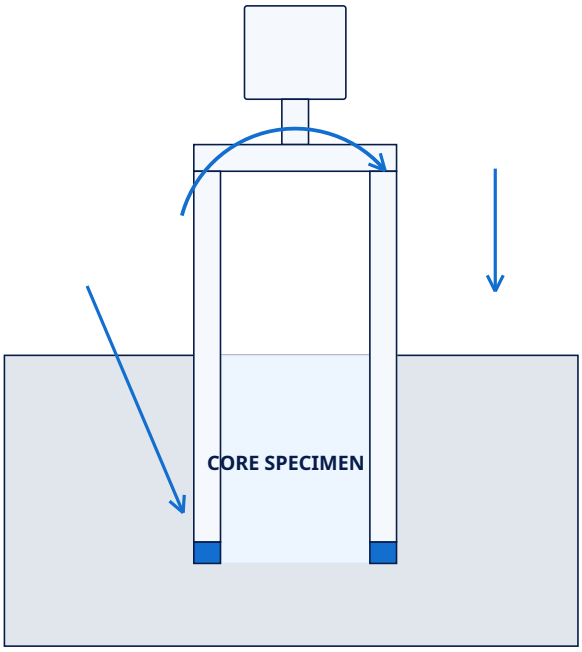
Core bit, diamond cutting segments and base

LT-G0600

Non-percussive Wet Core Drilling

Bit rotation • Controlled feed • Cylindrical specimen at the centre

ROTATION AND FEED



WATER COOLING

Set Up and Align

Secure the stand. Centre the bit perpendicular to the surface and prepare the water supply.

Speed and Feed

Select 460 or 840 rpm for bit diameter and material. Apply controlled feed.

Annular Cutting

The diamond bit cuts around the specimen. Water cools the cutting zone and reduces dust.

The hollow core bit cuts an annular path through the material, leaving a cylindrical specimen at the centre. Select bit diameter and speed for the sampling requirement and material. Prepare the recovered core separately for the subsequent laboratory test.

Motor Protection

Electronic soft start and current limitation support controlled motor starting.

Thermal protection and a mechanical safety clutch provide protection against overheating and bit jamming.

Sampling and Subsequent Testing

EN 12504-1 and ASTM C42/C42M relate to evaluation of cores from hardened concrete.

Core drilling is a specimen preparation operation. Compressive strength is determined later using suitable testing equipment.

Core Bits and Technical Data

LT-G0600 • Concrete bit options and NX rock core bit

Product Code	Core Bit Diameter	Application
LT-G0610	Ø50 mm	Concrete
LT-G0611	Ø75 mm	Concrete
LT-G0612	Ø100 mm	Concrete
LT-G0613	Ø150 mm	Concrete
LT-G0614	Ø200 mm	Concrete
LT-G0615	Ø54.74 mm	Rock / NX type

Machine Feature	Value
Motor Power	2600 W
Drilling Diameter Range	50-255 mm
Rotation Speed	460 / 840 rpm
Weight	25.2 kg
Power Supply	220 V, 50-60 Hz, 1 phase

Bit and Connection Selection

An oil-bath two-speed gearbox and quick motor connection plate are provided. Select the core bit for the required diameter and material.

Sampling Workflow

01
Select Bit
Choose the bit for specimen size and material.

02
Secure Stand
Align the drilling axis and prepare water.

03
Run Drilling
Select speed; control feed and cooling.

04
Prepare Core
Recover, identify and prepare for the next test.

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