Portable Hand-Held Concrete Vibrator

LT-G0052 | Battery-powered external vibration of concrete moulds

Cordless operation • Vibration transfer to mould • Battery and charger



Battery

POWER AND OPERATING TYPE

External

VIBRATION APPLICATION

EN 12390-2 • ASTM C31/C31M • ASTM C192/C192M

LT-G0052

Photographs and Components

Hand-held body, handle, battery and vibration-transmitting base

The portable hand-held vibrator supports compaction of fresh concrete test specimens inside moulds. Vibration transfers to the mould through the base arrangement. Battery operation simplifies moving the unit between moulds and positioning it for use.

HANDLE

The hand-held body facilitates carrying the unit and holding it at the application point on the mould.

BATTERY OPERATION

Cordless operation reduces reliance on a fixed power connection. Battery and charger are included.



BASE ARRANGEMENT

Vibration transfers directly to the concrete mould, supporting uniform settlement of fresh concrete.

COMPACT BODY

The portable structure supports laboratory and suitable field applications with appropriate concrete moulds.



Vibration-transmitting base and attachment arrangement



Application view on a concrete mould

LT-G0052

Operating Principle and Compaction

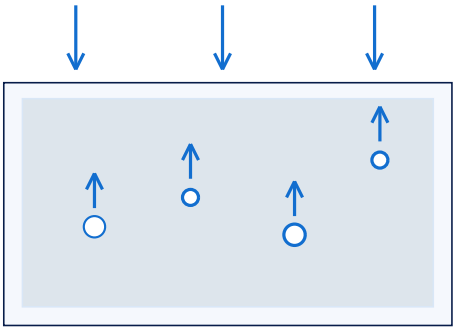
Prepare the mould • Position the unit • Apply controlled vibration • Record the specimen

EXTERNAL VIBRATION • SCHEMATIC SECTION

BATTERY-POWERED HAND-HELD UNIT



VIBRATION TRANSFER TO THE MOULD



FRESH CONCRETE AND MOULD

EXTERNAL VIBRATION THROUGH THE BASE

Prepare Mould and Specimen

Prepare the mould and concrete to the selected method. Check the battery and base arrangement before use.

Position and Operate

Position the unit on a suitable mould. Transfer vibration through the base using controlled operation.

Check Settlement

Observe concrete settling inside the mould. Complete compaction to the method; identify and record the specimen.

External vibration helps concrete move within the mould and reach corners and edges, supporting the release of entrapped air. Select application duration and positions according to concrete characteristics and the chosen specimen preparation method.

Battery-Powered Portability

The compact body facilitates moving between moulds. Battery operation reduces the need for a fixed power connection during use. Battery and charger are supplied with the product.

Check contact between the base and mould before operation. Apply vibration at suitable points and maintain consistent specimen preparation across batches.

Specimen Preparation and Control

EN 12390-2, ASTM C31/C31M and ASTM C192/C192M provide references for concrete specimen preparation and curing. Select compaction for the method and concrete consistency.

Excessive vibration may cause segregation. Observe settlement during application and remove concrete residue from the base after use.

Specifications and Use Workflow

LT-G0052 • Battery-powered portable concrete specimen vibrator

Technical Feature	Value / Description
Product Code	LT-G0052
Product Name	Portable Hand-Held Concrete Vibrator
Power Source	Battery
Operating Arrangement	Portable and cordless
Application Method	External vibration applied to concrete moulds
Vibration Transfer	Through the base arrangement to the mould
Main Use	Compaction of fresh concrete test specimens
Scope of Supply	Battery and charger
Application Area	Laboratory and suitable field applications
Specimen Preparation Reference	EN 12390-2
Field Specimen Reference	ASTM C31/C31M
Laboratory Specimen Reference	ASTM C192/C192M

Controlled Vibration and Specimen Consistency

Select application duration and positions for the concrete and test method. Monitor settlement and avoid excessive vibration that may cause segregation.

Specimen Compaction and Use Workflow

01
Prepare
Prepare mould and concrete; check the battery.

02
Position
Place the base arrangement on a suitable mould.

03
Apply Vibration
Operate with control; observe concrete settlement.

04
Record and Clean
Identify the specimen; clean the unit base.

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