Manual Mortar Mixer

LT-CE0029 | Two-speed planetary mixing system

5 litre stainless bowl • Manual speed selection • Sand filling arrangement



5 litres

MIXING BOWL VOLUME

2 speeds

SELECTABLE SPEED LEVELS

EN 196-1 • ASTM C305 • 35 × 50 × 55 cm • 45 kg

LT-CE0029

Photographs and Mixing Components

Speed controls, planetary drive head and stainless steel mixing bowl

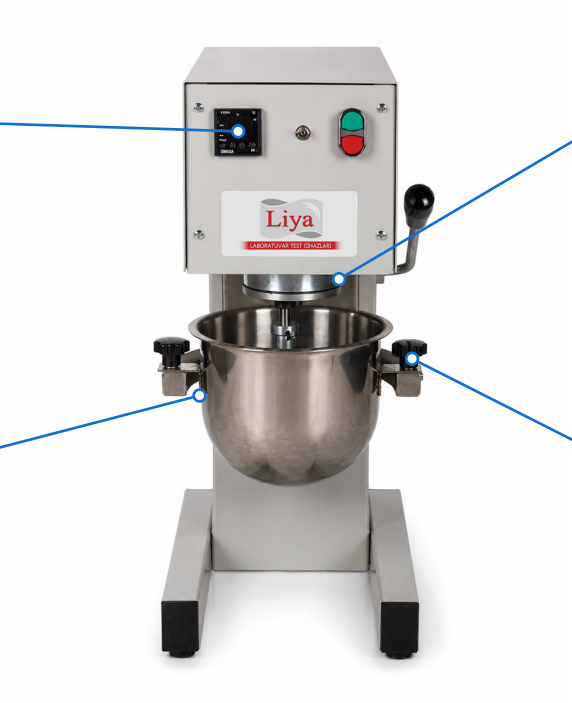
LT-CE0029 mixes cement pastes and mortar specimens at two speed levels. The paddle rotates about its own axis while travelling around the bowl. The operator manages speed selection, mixing stages and sand addition timing according to the test method.

MANUAL CONTROLS

Front panel controls for operation and speed selection. The operator follows the mixing stages.

PLANETARY DRIVE

Rotates the paddle about its own axis and moves it around the bowl. Provides two speed levels.



STAINLESS BOWL

5 litre mixing bowl. The removable design simplifies specimen transfer and cleaning.

BOWL FIXING

Arrangement holding the bowl in its working position. Check the fixings before mixing.



Front panel controls and speed selection



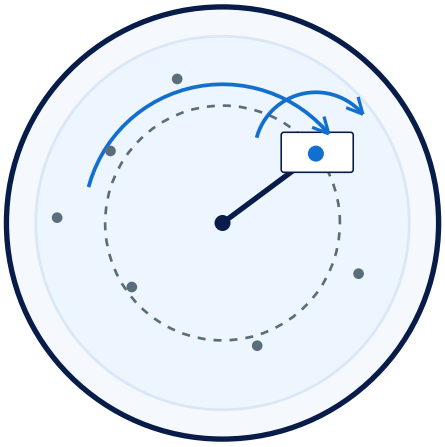
Mixing paddle and stainless steel bowl interior

LT-CE0029

Two-Speed Planetary Mixing

Prepare materials • Select speed • Manage sand addition • Transfer mix

PLANETARY MOVEMENT • TOP VIEW OF BOWL



1: 140 / 62 rpm

2: 285 / 125 rpm

PADDLE ROTATION + ORBITAL MOVEMENT IN BOWL

LOW: 140 / 62 | HIGH: 285 / 125 rpm

PADDLE / PLANETARY SPEEDS • SCHEMATIC • NOT TO SCALE

Prepare Materials

Weigh cement, water and sand where required. Fit bowl and paddle; follow the preparation sequence.

Manage Speed and Addition

Select low or high speed. Match sand addition and stage durations to the test method.

Transfer and Clean

Transfer the mix to specimen preparation. Remove and clean the bowl and paddle after use.

Planetary mixing combines paddle rotation with orbital movement inside the bowl. Together, these movements help distribute materials throughout the mixture. Speeds are predefined; the operator manages mixing time, pauses and material addition.

Track Both Speeds

At low speed, the paddle rotates at 140 rpm and planetary movement operates at 62 rpm. At high speed, paddle rotation is 285 rpm and planetary movement is 125 rpm.

Match each mixing stage to its required speed. Follow addition and pause times according to the method. Record specimen identification, mix proportions and preparation time.

Method References and Cleaning

Main mixing references are EN 196-1 and ASTM C305. The AASHTO mechanical mixing reference is R 115-23.

Other application references: EN 196-3, 413-2, 459-2, 480-1, 1015-2, 12617-4; ASTM C187; AASHTO T129 and T131. Select the relevant preparation steps from the method. Clean the bowl and paddle before residues harden.

LT-CE0029

Technical Specifications and Workflow

LT-CE0029 • Manual Mortar Mixer | Two speeds • 5 litres

Specification	Technical Information
Product Code	LT-CE0029
Bowl Volume	5 litres
Mixing Bowl	Stainless steel; removable bowl and paddle
Control	Manual speed selection and operator-managed stages
Mixing Movement	Paddle rotation with simultaneous planetary movement
Low Speed	Paddle: 140 rpm; planetary: 62 rpm
High Speed	Paddle: 285 rpm; planetary: 125 rpm
Sand Addition	Integrated sand filling arrangement; manual addition
Overall Dimensions	35 × 50 × 55 cm
Weight	45 kg
Power Supply	220 V, 50–60 Hz, 1 Ph
Main Mixing References	EN 196-1, ASTM C305, AASHTO R 115-23

Speed Level and Timing Check

Secure bowl and paddle. Manage speed, sand addition and mixing duration according to the method; transfer the finished mix to specimen preparation.

From Weighing to Uniform Mixing

01
Weigh
Weigh cement, water and sand for the method.

02
Fit
Secure bowl and paddle in working position.

03
Mix
Select speed and follow timing and addition.

04
Transfer
Transfer mix and clean the bowl and paddle.

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