Single-Shaft Mixer

LT-C0094 | Motorized discharge and adjustable speed control

Helical shaft • Scraper blades • Mobile wheeled frame



96 L

FEEDING CAPACITY

60 L

DISCHARGE CAPACITY

48 rpm • 380 V, 50-60 Hz, three phase • 150 × 100 × 100 cm

Photographs and Components

Mixing pan, safety cover, control panel and wheeled frame

The single-shaft mixer prepares homogeneous concrete and mortar mixtures in the laboratory. The shaft moves material inside the pan, which stays fixed during mixing; motorized discharge simplifies transfer of the prepared mixture into a suitable container.

SAFETY COVER

The upper cover encloses the mixing area and restricts direct access to moving parts.

CONTROL PANEL

Mixing, speed and time controls are on the panel; motorized discharge is operated from the controls.



MIXING PAN

96 L feeding and 60 L discharge capacity; the shaft and scrapers redistribute material inside the pan.

MOBILE FRAME

The rigid supporting frame and rubber wheels simplify repositioning within the laboratory.



Open cover view • Mixing pan and internal arrangement

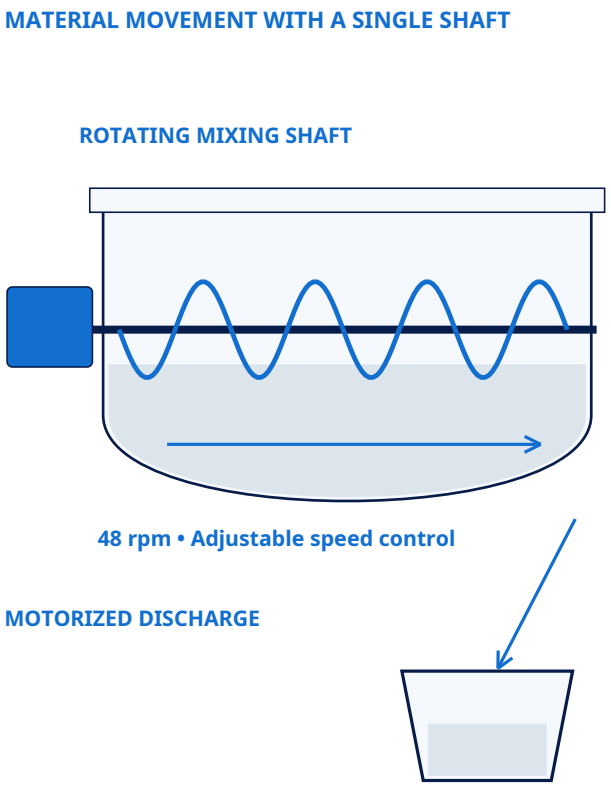


Control panel • Speed, time and mixing controls

LT-C0094

Operating Principle and Mix Preparation

Add components • Mix with the shaft • Discharge by motor • Clean



MIXING AND DISCHARGE • SCHEMATIC

Prepare the Mix

Add components to the clean pan in the quantities of the mix design. Check the cover and working arrangement.

Mix with the Shaft

Adjust speed control for the mixture. Use the helical shaft and scrapers to redistribute the components.

Discharge and Clean

Use motorized discharge once mixing is complete. Transfer into a suitable container and clean the pan afterwards.

The helical single shaft keeps material moving inside the pan; scraper blades reduce accumulation on its surfaces. After mixing, the motorized arrangement moves the pan to the discharge position to help transfer heavy mixtures without manual lifting.

Capacity and Working Arrangement

Feeding capacity is 96 L and discharge capacity is 60 L. Plan each batch taking both figures into account.

The stated mixer speed is 48 rpm; adjustable speed control supports different mix designs. Set mixing duration and component order according to the working procedure.

Specimen Preparation and Repeatability

ASTM C192/C192M covers laboratory concrete mixing, specimen preparation and curing. EN 12390-2 relates to making and curing specimens for strength testing.

Record the mix design, mixing duration and operating settings. Transfer the prepared mixture into suitable moulds and clean internal surfaces after every batch.

LT-C0094

Specifications and Use Workflow

LT-C0094 • Single-shaft mixer with motorized discharge

Technical Feature	Value / Description
Product Code	LT-C0094
Feeding Capacity	96 L
Discharge Capacity	60 L
Stated Mixer Speed	48 rpm
Speed Control	Adjustable
Mixing System	Helical single shaft
Internal Surface Scraping	Scraper blades
Upper Cover	Safety cover arrangement
Discharge System	Motorized pan discharge
Dimensions	150 × 100 × 100 cm
Weight	Approximately 200 kg
Power Supply	380 V, 50-60 Hz, three phase

Batch Planning and Motorized Discharge

Consider the 96 L feeding and 60 L discharge capacities together when planning batches. Position a suitable receiving container beforehand; clean the pan, shaft and scraper surfaces after discharge.

Mix Preparation and Use Workflow

01
Prepare
Clean the pan and establish component quantities.

02
Mix
Set speed and time for the mix design.

03
Discharge by Motor
Transfer into a suitable receiving container.

04
Record and Clean
Record batch data and clean internal surfaces.

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