

AUTOMATIC MOTAR MIXER

101-E0122-series

MatCivTest
MATERIAL CIVIL TEST EQUIPMENT

101-E0122-10 AUTOMATIC MORTAR MIXER

Automatic Mortar Mixer

Standard: EN 196-1, ASTM C 305, AASHTO T 162, ISO 679

Description

A Mortar Mixer is a machine designed specifically for blending different elements to create mortar, a key component in construction and masonry projects. The mixer ensures cement, sand and water are thoroughly combined to achieve the desired consistency and strength needed for proper constructions work. The touch screen interface creates a contemporary technological feature to the equipment. The interface aids users in the overall mixing process with convenience and effectiveness. Users are permitted to modify the settings, tracking the mixing conditions and utilising extra functionalities like pre-set mix programs or troubleshooting assistance through the touch screen interface. It can also be used in mixing lime with pozzolonic materials for determination of lime reactivity (as per IS 1727) & for uniform mixing of soils with additives such as lime, cement, etc.

Features

- Fully automatic mixing operation.
- Comes with built in safety door for better protection.
- Large LCD touch screen for quick test settings.
- Easy installation of mixing blade and bowl.

Supplied with

- Mixing Bowl 5 litres
- Stainless Steel Funnel
- Mixing Beater



AUTOMATIC MOTAR MIXER

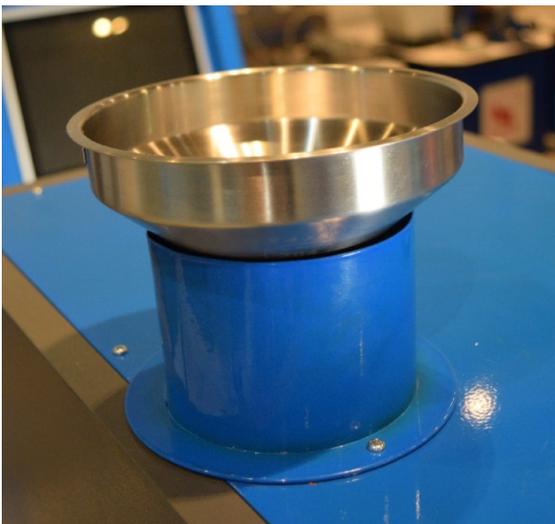
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- Details and accessories



Technical Specification

- Capacity 5L
- Planetary Speed 62 / 125 Rpm
- Beater Speeds 140 / 285 Rpm
- Dimensions 410 x 630 x 810(H)
- Approx Weight 96kg
- Power 220 V, 1 ph, 50 / 60 Hz, 0.5 Hp

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101-E0122-20 CEMENT AND MORTAR MIXER

Cement and Mortar Mixer

The program-controlled stepping motor is used to rotate at a variable speed, which drives the hopper to rotate and pours the mortar into the mixing bowl evenly. The feeding process can fully meet the standard feeding speed through the program, and the feeding completeness is higher.

Features

- New feeding structure. The program-controlled stepper motor is used to rotate at a variable speed, which drives the hopper to rotate and pours the mortar into the mixing bowl evenly. The feeding process can fully meet the standard feeding speed through the program, and the feeding completeness is higher.
- Magnetic suction type mixing bowl locking device. The mixing bowl is locked by magnetic suction, which makes the installation of the mixing bowl more convenient and stable, and avoids the shaking of the mixing bowl during the stirring process.
- Intelligent expert setup system. Users can compile the test process control mode according to their actual requirements and complete the test automatically. It can realize the function of continuous loading and holding load under any load. There is no shock and vibration during the test, and it has good reading stability. The test process can be simulated and reproduced.
- The door can be easily opened and closed by using the button.
- The mixing bowl holder adopts stepper motor and ball screw to realize automatic lifting function and accurate positioning.
- The main shaft adopts stepper motor soft transmission, and cooperates with planetary gear device to reduce noise and improve service life.



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101-E0122-20 CEMENT AND MORTAR MIXER

Specification:

- Mixing paddle revolutions: Low speed: rotation $140\pm 2r/\text{min}$, revolution $62\pm 2r/\text{min}$; High speed: rotation $285\pm 3r/\text{min}$, revolution $125\pm 3r/\text{min}$
- Movement trajectory: Same as ISO679
- Working mode: Manual and automatic modes -Mixing paddle: Overall width: 135mm; effective length: 130mm; thickness: $6\pm 2\text{mm}$
- Mixing paddle connection: Quick-connect (the paddle can be disassembled at any time, which is convenient for cleaning the paddle)
- Mixing bowl: Capacity: 5L; depth: 180mm; inner diameter: 200mm; thickness 3mm
- Mixing bowl installation: Magnetic locking structure
- Working gap: The working gap between the paddle and the bowl is $3\pm 1\text{mm}$
- Motor: Stepper motor soft transmission (power 0.75kW)
- Dimensions: Length 400 x width 560 x height 900 mm
- Weight: 63kg



AUTOMATIC MOTAR MIXER

101-E0122-series



101-E0122-30 CEMENT AND MORTAR MIXER

5 litre capacity - manual operation, sand feeder

Features -

German design and manufactured

Digital control panel for manual, operation.

A soft start can be switch on, especially for liquid mixtures.

The mixing bowl is connected to the bowl holder by a particularly stable quick-release system and lowered by an elevating system

The ergonomic handles ensure comfortable insertion and removal of the mixing bowl

The distance between the mixing bowl and the stirrer can be quickly and easily adjusted using fine adjustment.

Electronic monitoring of bowl position

Simple assembly and disassembly of the mixing bowl and stirrer.

Additional funnel above mixing bowl

Manual supply of cement

Fully automatic sand feeder and water dosing system possible

Technical data

The distance between the mixing bowl and the stirrer is 3 ± 1 mm according to EN 196 and 0.8-4 mm according to ASTM C305.

Illumination of mixing bowl.

Stainless steel mixing bowl and stirrer

Two mixing speeds: 140 ± 5 rpm and 285 ± 10 rpm

Dimensions (LxWxH) 390 x 600 x 700 – with sand feeder 860 mm

Weight: ca. 62 kg (depending on the design, the weight may vary slightly)

Power supply (optional): 230 V (or 110 V) please specify when ordering

Frequency: 50–60 Hz

Power: 0.55 kW

Safety

Safety restart procedure

Emergency Stop button S

Safety cover on mixing bowl

Options

Special mixing bowl for larger fraction or filler: Max. distance between bowl and stirrer 6 mm

Variable speed adjustable .



AUTOMATIC MOTAR MIXER

101-E0122-series



101-E0122-40 MORTAR MIXER 4.73L AUTOMATIC ASTM C305

4.73 Litre capacity manual and automatic operation. Sand feeder.

Features

German design and manufactured

Digital control panel for manual, automatic or semi-automatic operation

A soft start can be switch on, especially for liquid mixtures

The mixing bowl is connected to the bowl holder by a particularly stable quick-release system and lowered by an elevating system

The ergonomic handles ensure comfortable insertion and removal of the mixing bowl.

The distance between the mixing bowl and the stirrer can be quickly and easily adjusted using fine adjustment.

Electronic monitoring of bowl position

Simple assembly and disassembly of the mixing bowl and stirrer.

Additional funnel above mixing bowl

Manual supply of cement Fully automatic sand feeder and water dosing system possible

Technical Data

The distance between the mixing bowl and the stirrer is 3 ± 1 mm according to EN 196 and $0.8-4$ mm according to ASTM C305

Illumination of mixing bowl

Stainless steel mixing bowl and stirrer

Two mixing speeds: 140 ± 5 rpm and 285 ± 10 rpm

Dimensions (LxWxH) 390 x 600 x 700 – with sand feeder 860 mm

Weight: ca. 62 kg (depending on the design, the weight may vary slightly)

Power supply (optional): 230 V (or 110 V) please specify when ordering

Safety

Safety restart procedure

Emergency Stop button

Safety cover on mixing bowl

Options

Additional to the 4 stored programs: There are 12 options available for the mixing programmes

Special mixing bowl for larger fraction or filler: Max. distance between bowl and stirrer 6 mm

Variable speed adjustable

