



**CEMENT MORTAR
PRODUCT BROCHURE**

AUTOMATIC MORTAR MIXER

M2420



PRODUCT MODEL

M2420	Automatic Mortar Mixer, 5 Liter Capacity - 220-240 V 50/60 Hz
M2420/110	Automatic Mortar Mixer, 5 Liter Capacity - 110 V 60 Hz
M2420/01	Spare Bowl for M2420
M2420/02	Spare Beater for M2420

**STANDARDS**

Standards	ASTM C305 EN 196-1 , EN 196-3, EN 1015-2, EN 413-2, 459-2- EN 12687-35
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INFORMATION

Manufacturer	TESTMACLAB LABORATUVAR TEST CİHAZLARI PAZ. VE DIŞ TIC. LTD. ŞTİ
Country of Origin	TÜRKİYE
Product name	Automatic Mortar Mixer

TECHNICAL SPECIFICATIONS

The Automatic mortar mixer is designed to mix mortars and cement pastes to the requirements of EN 196-1, EN 196-3 and ASTM C305.

The mixing paddle has a planetary motion and is driven by a motor with a microprocessor based speed controller.

When the device automatic use option is selected; It mixes according to pre-programmed mixing programs in accordance with the cement and mortar preparation steps specified in international standards.

In the manual option, the machine can be used as a simple to operate, two-speed mixer.

Additionally, an automatic mixing program option where the user can define the time intervals for mixing has also been provided.

A safety switch is included to help set the mixing beater to the correct position to control the required clearance between the mixing blade and the bowl.

An automatic sand dispenser is attached to the side of the mixer and feeds the sand into the mixing bowl through an automatic command from the program controller, depending on the program selected.

A water dispenser assembly is also fitted to the side of the machine and allows the dispensing of pre-determined volumes of water for the requirements of EN 196 automatic.

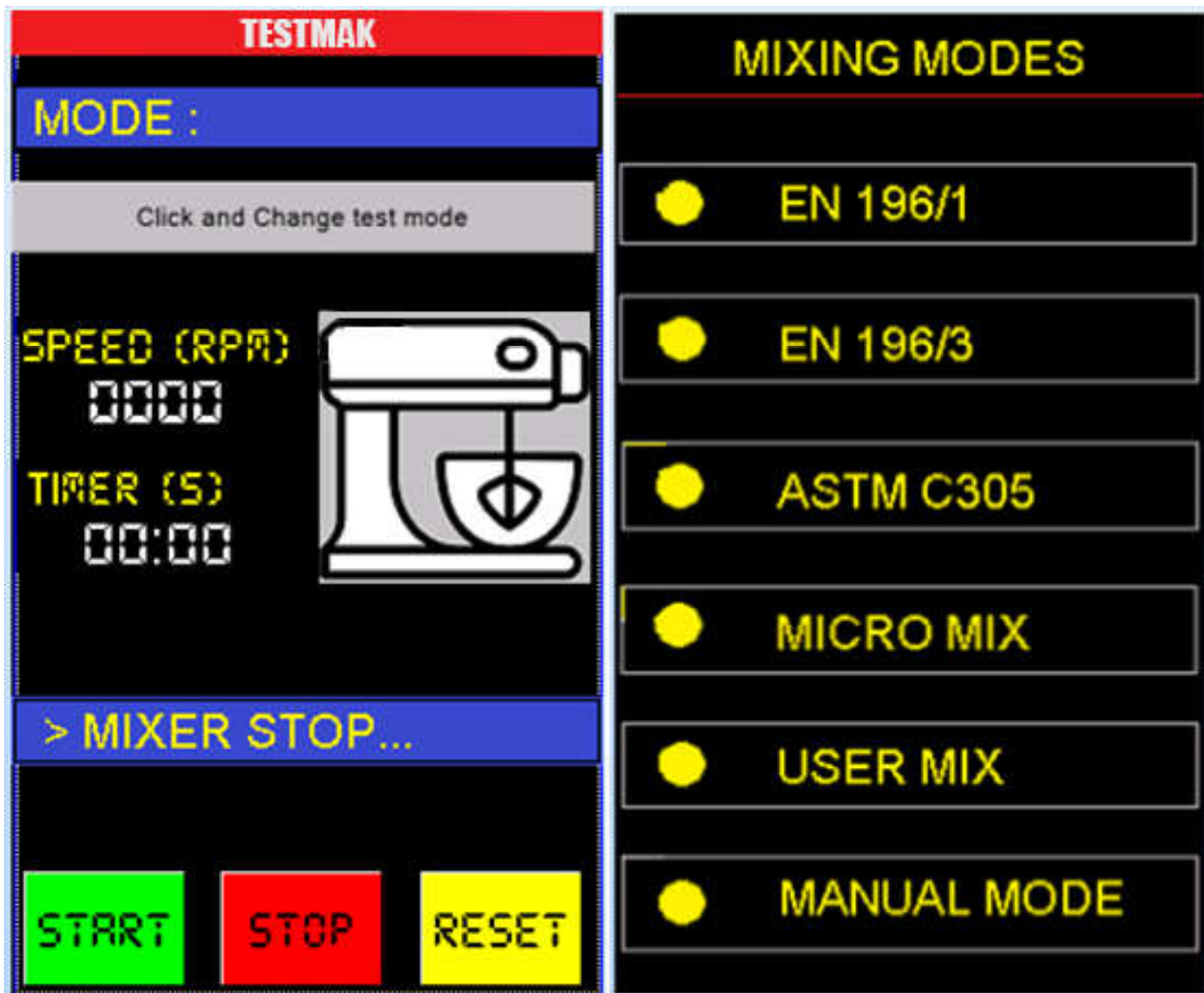
The mixing paddle revolves at a rate of 140 and 285 (r.p.m. clockwise) with a planetary motion of 62 and 125(r.p.m. clockwise) in low speed.

Speeds (rpm) Paddle Mixing Head Shaft

- Low (Manual Speed 1) 140 ± 5 62 ± 5
- High (Manual Speed 2) 285 ± 10 125 ± 10
- 5 in Color Touch Screen Display for display data. Equipment Interface: HC05 Model Bluetooth for connection PC and Printer.

Automatic Mixing Mode

The auto mixing mode screen is shown as below.



The mixer is started with the “START” button. The process steps defined in the mixing method are executed for the specified time. Mixer stops automatically when all steps are completed. When desired, it can be stopped with the “STOP” button. With the “RESET” button, the operation steps are reset and the process is returned to the beginning.

Automatic Mixing Methods Processing Steps

Automatic mixing methods for EN 196-1 Standard

Step	Process	Speed (rpm)	Time (second)
Step1	Adding Cement and Water	140	30
Step2	Adding Sand	140	30
Step3	High Speed Mixing	280	30
Step4	Scrapping Bowl	****	90
Step5	High Speed Mixing	280	60

Automatic mixing methods for EN 196-3 Standard

Step	Process	Speed (rpm)	Time (second)
Step1	Adding Cement and Water	140	90
Step2	Adding Sand	140	90
Step3	Scrapping Bowl	****	30
Step4	Low Speed Mixing	140	90

Automatic mixing methods for ASTM C305 Standard

Step	Process	Speed (rpm)	Time (second)
Step1	Adding Cement and Water	140	30
Step2	Adding Sand	140	30
Step3	High Speed Mixing	280	30
Step4	Scrapping Bowl	****	90
Step5	High Speed Mixing	280	60

Automatic mixing methods for Micro Mix

Step	Process	Speed (rpm)	Time (second)
Step1	Adding Cement and Water	140	120
Step2	Scrapping Bowl	****	240
Step3	Low Speed Mixing	140	120
Step4	High Speed Mixing	280	60

THANK YOU

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You can reach us than our phones or e mail address 24 hours a day.

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