

# MIX 60 P

1193981 (115V-60Hz)

## MORTAR MIXER



At **IMER U.S.A** we continually search for ways to better serve our customers. Should you have an idea or thought to share with us regarding this product we would appreciate hearing from you. Our motto is **Tools and Services for the 21st Century.** We look forward to delivering the goods.

Thank you again for your purchase,

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P.N. 3210431

Dear Customer, Congratulations on your choice of purchase: IMER mixers are universal machines for MIX series: the MIX series mixers are ideal for mixing dry or wet fine particle material (gypsum, cement, ceramic tile adhesives, plaster, epoxy resin or proprietary mixed products).

#### WORKING IN SAFETY


**To work in complete safety, read the following instructions carefully.**

- This OPERATION AND MAINTENANCE manual must be kept on site by the person in charge, e.g. the SITE FOREMAN, and must always be available for consultation.


- The manual is to be considered integral part of the machine and must be kept for future reference (EN 292/2) until the machine is disposed of. If the manual is damaged or lost, a replacement may be requested from the saw manufacturer.

- The manual contains important information regarding site preparation, machine use, maintenance procedures, and requests for spare parts. Nevertheless, the installer and the operator must both have adequate experience and knowledge of the machine prior to use.

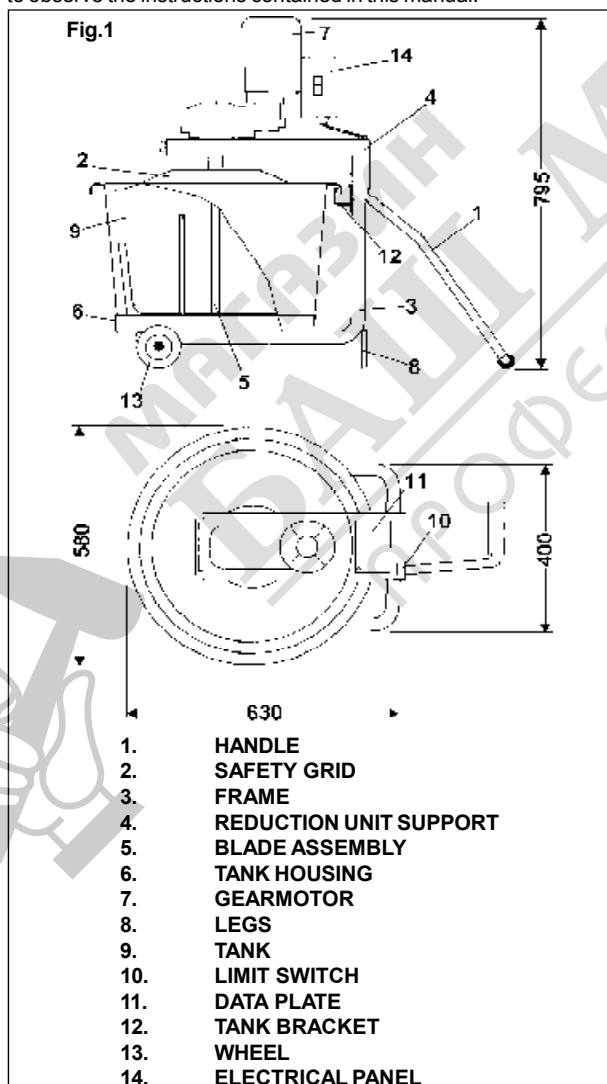
- To guarantee complete safety of the operator, safe operation and long life of equipment, follow the instructions in this manual carefully, and observe all safety standards currently in force for the prevention of accidents at work (use of safety footwear and gloves in accordance with S.I. N°3073 of 30/11/92).

Pay special attention to warnings bearing the following symbol: 

 **MAKE SURE THAT SIGNS ARE LEGIBLE.**

 **It is strictly forbidden to carry out any form of modification to the steel structure or working parts of the machine.**

- IMER INTERNATIONAL declines all responsibility for non-compliance with laws and standards governing the use of this equipment, in particular; improper use, defective power supply, lack of maintenance, unauthorised modifications, and partial or total failure to observe the instructions contained in this manual.



#### 1. TECHNICAL SPECIFICATIONS

Drum capacity	l	56
Drum diameter	mm	580
Paddle rpm	n°	55
Machine weight	Kg	30
Machine weight with packing	kg	32
Packing dimensions	mm	620x585x455
Wheel dimensions	mm	Ø100x20
Motor rating	Kw	0.55
Paddle rotation direction		clockwise
Absorbed current	A	9.2
Voltage	Volts	115
Frequency	Hz	60

#### 2. DESIGN STANDARDS

The MIX 60 mixer has been designed and constructed in accordance with the following standards: I.E.C.34.4; EN 60204-1; EN 392 (91/368 CEE).

#### 3. NOISE EMISSION LEVEL

Operator exposure to sound emission levels (continuous sound pressure levels equal to "A" weighting): the MIX 60 mixer noise level during operation is measured at 65 dB(A).

#### 4. OPERATION SAFETY

- The Imer MIX 60 cement mixer may only be used when fitted with all required safety devices which must be in perfect working condition.

- Keep well clear of the mixing tank during operation.

- Never connect MIX 60 to defective power lines.

- Make electrical connections on the construction site where they will not be subject to damage.

- Lay power cables where they are not subject to risk of damage or penetration of water into connectors. Only use connectors electrically protected against water sprays.

- Never connect the mixer to makeshift mains connections. If necessary, consult qualified personnel.

- Repairs to electrical installations must only be carried out by qualified technicians. Do not operate the mixer during maintenance or repairs.

- Observe all accident prevention and safety standards in the work area.

#### 5. ELECTRICAL SAFETY

The IMER MIX 60 is designed in compliance with EN 60204-1 standards and features water spray protection (IP54) and overload protection.

Connect the MIXER to a suitable earthing plant on the site by means of the relative earthing screw and a wire braid (or cable) with a minimum size of 16 mm<sup>2</sup> (see fig.2).

The mixer is also fitted with a safety system comprising a limit switch which shuts off machine operation whenever the reduction unit support is lifted.

To reset, press the on/off pushbutton located in the electrical cabinet.

#### 6. ASSEMBLY


- Position the frame and handle as shown in fig.3.

- Insert the link pin and the cotter pin and tighten.


- Insert the tank in the circular housing, ensuring that the four handles fit onto the steel brackets. to prevent tank rotation during operation.


- Fit the safety grid, blade cover and screw the blade fully down (fig.4).

#### 7. TRANSPORT

 **Warning: Always unplug the mixer from the power supply before handling.**

- MIX 60 is easily transported; use the handle indicated in fig.5 for manual transport of the mixer.


 **Never use the power cable to pull the machine.**

 **Never pull the power cable to unplug the machine.**

#### 8. INSTALLATION


- Remove the machine from the packaging.

- Install the mixer on level and solid ground

 **Do not tilt the mixer during operation.**


- When transporting the machine ensure that there are no obstacles which may impair stability.





#### 9. ELECTRICAL CONNECTION


 **Ensure that mains voltage and cable sizes correspond to specifications.**

- MIX 60 is fitted with an ac motor which must be connected to a 115 V power supply with a cable fitted with suitable wear-resistant, anti-crushing and weatherproof sheathing.

Cable length must not exceed 50 m.

 **MIX 60 must only be used when fitted with all required safety devices, which must be in perfect working condition.**

-  - Lay power cables where they are not subject to risk of damage or penetration of water into the connectors.
-  - Only use connectors electrically protected against water sprays. Do not stand the machine on the power cable.
-  - Never use the mixer with a makeshift power connection.
-  - The electrical connection must be carried out by a qualified technician.


- Ensure that the cable is securely clamped inside the plug and socket.
-  - Observe all accident prevention and safety standards in the work area.
- During mixer operation, do not insert tools or other objects in the tank to avoid damage to the mixer or operator safety hazard.

#### **10. START-UP**

Press "ON" to start the mixer.

If the mixer blades do not rotate the overload cutout switch trips to shut down the machine. Press "ON" to resume operation.

#### **11. OPERATION**


-  - Ensure that the power cable is fitted with a residual current circuit breaker upline of the machine.

- Make sure that all other persons keep clear of the mixer during operation.
- Do not use the mixer in areas subject to the risk of fire.
- Switch the mixer off before leaving it unattended.
- Make sure that the mixer is completely immobile before handling or installation.

- Make sure that the mains voltage corresponds with the indications on the mixer data plate.

-  - Make sure that the mixer blades rotate clockwise.

-  - Make sure that no clothing comes into contact with mixing blades.


-  - Warning: Never start the mixer without the safety grid fitted; the cover is a safety device and must be fitted to avoid direct contact with the mixer blades.

#### **11.1 APPLICATIONS**

##### **11.1.1 ADHESIVES FOR CERAMIC TILES, FLOORING AND WALL CLADDING**


Pour in the quantity of water as required for the relative product, considering that the maximum mixer capacity 50 kg of adhesive.

Start the machine and during operation, pour the powder directly over the plastic cover to obtain a smooth mixture.

-  - Warning: when mixing large quantities, pour the product into the tank gradually.

##### **11.1.2 PAINT**

Pour in the required amount of paint and water.

-  - The use of acid, solvents, and other aggressive chemical products is strictly prohibited.


##### **11.1.3 CEMENT**

Mix 60 can also mix mortar, cement, or lime provided that a fine particle size is used.

-  - Warning: Avoid excessive stiffening of the mixture due to the addition of too much cement, lime or other water absorbing products.


#### **12. EMERGENCY STOP**

-  - In an emergency, press the emergency pushbutton and unplug the mixer.

-  - The electric motor is protected from thermal overload; if the motor overheats the mixer is shut down automatically. Allow the motor to cool before resuming operation.

#### **13. CLEANING**


After each work shift and before prolonged periods of disuse, clean the tank interior and exterior thoroughly.

-  - Always unplug the mixer from the mains before cleaning (also when using brushes, cloths or scrapers etc.).

-  - Never operate the mixer during cleaning operations.


- When using water jets for cleaning, never direct the water at the mixer drive unit.


#### **14. MAINTENANCE**

-  - Warning: Always switch off the mixer and unplug from the power supply before carrying out maintenance.

- Repairs to the electrical installation must be carried out exclusively by qualified personnel. Replacement parts must be original IMER spare parts and must not be modified in any way. The IMER MIX 60 is designed for minimum maintenance requirements. However, we recommend changing the reduction unit oil after 3000 hours continuous duty with SAE 40 oil.

Check that the socket/plug contacts are clean. If oxidised, clean immediately.

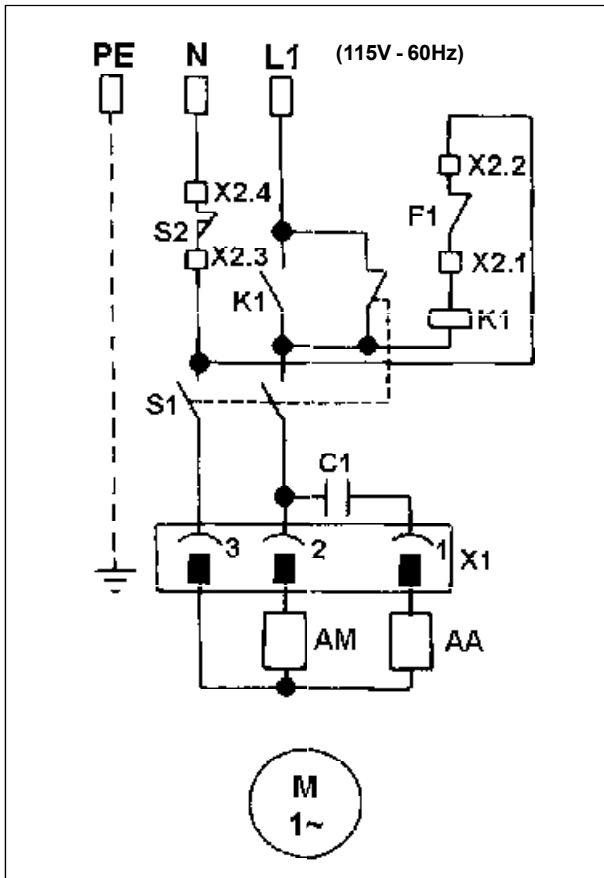
-  - Used oil is considered a special waste product and must be disposed of in accordance with the law.

-  - Always ensure that signs and warning notices on the machine are clearly legible.

#### **14. TROUBLESHOOTING**

PROBLEM	CAUSE	REMEDY
The motor does not start when switched on	No power on power cable	Check power cables
	Plug not inserted correctly in socket	Ensure correct connection
	Faulty power cable to electrical panel	Change power cable
	Loose wire in electrical panel	Reconnect wire
	Loose wire in motor terminal board	Reconnect wire
	Faulty main switch	Replace switch
The motor does not stop when the safety grid is lifted	Residual current circuit breaker tripped	Reset switch. If it does not reset, refer to a qualified electrician to check the electrical system to ensure complete safety.
	Faulty limit switch	Replace limit switch
Motor starts with difficulty	Mixture is too stiff	Reduce mixture quantity or dilute and try again.

**WIRING DIAGRAMS**



- S1 SWITCH
- S2 FINECORSA COPERCHIO
- F1 SONDA TERMICA MOTORE
- C1 CONDENSATORE
- X1 CONNETTORE MOTORE
- PE CONDUTTORE LINEA DI PROTEZIONE
- N CONDUTTORE LINEA NEUTRO
- L1 CONDUTTORE LINEA FASE
- AM AVVOLGIMENTO MOTORE MARCIA
- AA AVVOLGIMENTO MOTORE AVVIAMENTO
- K1 RELÉ

Fig.2

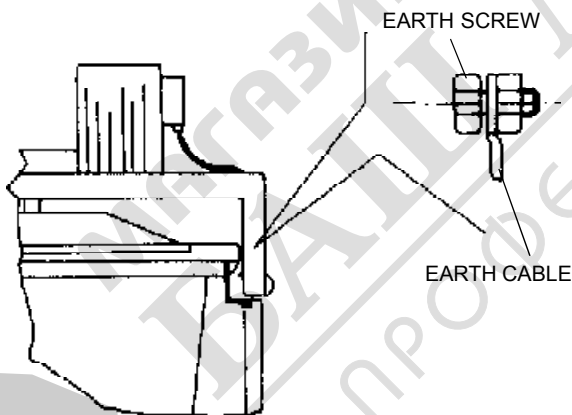


Fig.3

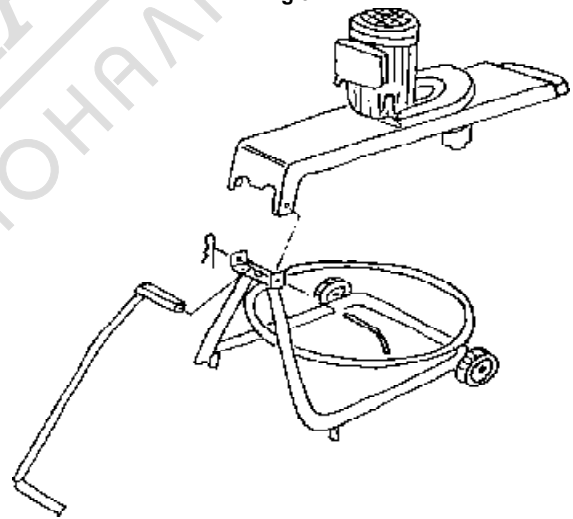


Fig.4

