

# 3.5 CU.FT. POLY MIXER

## INSTRUCTION MANUAL



### **WARNING:**

Read carefully and understand all INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.



## INTENDED USE

The portable Electric Cement Mixer is ideal for concrete jobs such as footings and bases, binding block and concrete patching. When the job is complete, the compact Electric Cement Mixer easily fits into the trunk of most vehicles.

## TECHNICAL SPECIFICATIONS

Item	Description
Power Consumption	120 VAC, 60 Hz, single phase, 370 watts
Mixer Drum	Polyethylene construction; Loading Capacity:3.5cuft; Mixing Capacity:1.77cuft.
Drum Opening	14-1/2"
Drum Speed	26 RPM
Tires	13(dia.) x 4 (W) inches;
Weight	90 lbs.

## GENERAL SAFETY RULES



**WARNING:** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.



**WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## SAVE THESE INSTRUCTIONS

### WORK AREA

- **Keep work area clean**, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- **Do not use your tool where there is a risk of causing a fire or an explosion;** e.g. in the presence of flammable liquids, gasses, or dust. Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders** away while operating a power tool. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.
- **Be aware of all power lines, electrical circuits,** water pipes and other mechanical hazards in your work area, particularly those hazards below the work surface hidden from the operator's view that may be unintentionally contacted and may cause personal harm or property damage.
- **Be alert of your surroundings.** Using power tools in confined work areas may put you dangerously close to cutting tools and rotating parts.
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# ELECTRICAL SAFETY

-  **WARNING!** Always check to ensure the power supply corresponds to the voltage on the rating plate.
- **Do not abuse the cord.** Never carry a portable tool by its power cord, or yank tool or extension cords from the receptacle. Keep power and extension cords away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords may cause a fire and increase the risk of electric shock.
- **Grounded tools** must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.
- **Double insulated tools** are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still doesn't fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.
- **Avoid body contact** with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increase risk of electric shock if your body is grounded.
- **When operating a power tool outside,** use an outdoor extension cord marked "W-A" or "W." These cords are rated for outdoor use and reduce the risk of electric shock.
- **Extension Cord Use.**
  - A. Use only 'Listed' extension cords. If used outdoors, they must be marked "For Outdoor Use." Those cords having 3-prong grounding type plugs and mating receptacles are to be used with grounded tools.
  - B. Replace damaged or worn cords immediately.
  - C. Check the name plate rating of your tool. Use of improper size or gauge of extension cord may cause unsafe or inefficient operation of your tool. Be sure your extension cord is rated to allow sufficient current flow to the motor. For the proper wire gauge for your tool, see chart.

**CHART FOR MINIMUM WIRE SIZE OF EXTENSION CORD:**

Nameplate AMPS	CORD LENGTH			
	25'	50'	100'	150'
0-6	18 AWG	16 AWG	16 AWG	14 AWG
6-10	18 AWG	16 AWG	14 AWG	12 AWG
10-12	16 AWG	16 AWG	14 AWG	12 AWG
12-16	14 AWG	12 AWG	(NOT RECOMMENDED)	

If in doubt, use larger cord.

Be sure to check voltage requirements of the tool to your incoming power source.

- **Do not expose** power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Do not let your fingers** touch the terminals of plug when installing to or removing from the outlet.
- **Ground fault circuit interrupters.** If work area is not equipped with a permanently installed Ground Fault Circuit Interrupter outlet (GFCI), use a plug-in GFCI between power tool or extension cord and power receptacle.

## PERSONAL SAFETY

- **Stay alert**, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards (ANSI Z87.1), or when needed, a face shield. Use as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- **Avoid accidental starting.** Do not carry the power tool with your finger on the switch. Ensure the switch is in the off position before plugging tool into power outlet. In the event of a power failure, while a tool is being used, turn the switch off to prevent surprise starting when power is restored.
- **Do not overreach.** Keep proper footing and balance at all times.
- **Remove adjusting keys or wrenches** before connecting to the power supply or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.

## TOOL USE AND CARE

- **Do not overload mixer.**
- **Keep hands free** from the drum when in operation.
- **Always operate** mixer on an even surface.
- **Never start or stop** the mixer with any material in the drum otherwise the motor will be damaged.
- **Never use a tool** with a malfunctioning switch. Any power tool that cannot be controlled with the switch is dangerous and must be repaired by an authorized service representative before using.
- **Disconnect the power from mixer** and place the switch in the locked or off position before servicing, adjusting, installing accessories or attachments, or storing. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Secure work** with clamps or a vise instead of your hand to hold work when practical. This safety precaution allows for proper tool operation using both hands.
- **Store idle tools.** When tools are not in use, store them in a dry, secure place out of the reach of children. Inspect tools for good working condition prior to storage and before re-use.
- **Check mixer** for wear and damage frequently. It is recommended that the general condition of any tool be examined before it is used. Keep your tools in good repair by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual. If any abnormal vibrations or noise occurs, turn the tool off immediately and have the problem corrected before further use. Have necessary repairs made by qualified service personnel.
- **Periodically grease** all moving parts lightly.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control. Keep handles dry, clean, and free from oil and grease.
- **Cleaning.** Use only soap and a damp cloth to clean your tools. Many household cleaners are harmful to plastics and other insulation. Never let liquid get inside a tool.
- **Use only accessories that are recommended** by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.
- **Keep guards in place** and in working order.

- **Never leave tool running unattended.**
- **Keep drum rotating** when filling or emptying the mixer.
- **⚠ CAUTION:** When transporting the mixer, disconnect the power cord. Make sure the drum is empty of all material.

## ASSEMBLY (Reference Parts List)

1. When unpacking, check to make sure all the parts shown on the Parts List on page 7 are included, if any parts are missing or broken, please call 1-800-222-5381 as soon as possible.
2. Place the Frame Assembly (#28) in a clean work area with a flat, level floor surface. **See Fig. 1**
3. Align two holes of Handle (#19) and the Frame Assembly (#28), insert R Pin (#18), then secure Handle Sleeve (#20) to the Handle (#19). **See Fig. 2 or See Parts Diagram.**
4. Insert through Interval Tube (#32) and Wheel with Wheel Shaft (#33).  
Note: The longer side of Bear Casing on the wheel towards the outer of Frame Assembly. The other side towards Wheel. Attach Wheel (contain Wheel Shaft) in the Frame Assembly. Attach Locking Collar (#29) in the outer. Tighten Screw (#30). **See Fig. 3 or See Parts Diagram.**
5. Secure the Gear Box Assembly (#27) to the five holes in the Frame Assembly (#28) with Flat Washer  $\Phi 6$  (#17), Spring Washer  $\Phi 6$  (#16) and Hex Nut M6 (#15). Tighten them by wrench. **See Fig. 3 or See Parts Diagram.**
4. Attach the Protective Net (#22) to the Frame Assembly (#28). Secure with Bolt M6 x 12 (#21) and Flat Washer  $\Phi 6$  (#23), Spring Washer  $\Phi 6$  (#24) and Nut M6 (#25). **See Parts Diagram.**
5. Secure the Mixing Drum (#3) to the Gearbox Shaft with T-handle bolt assembly (#4). **Tighten firmly with a wrench. See Fig. 4 or See Parts Diagram.**
6. Secure the mixing blades (#2) to the inner side of Mixing drum (#3) with Bolt M8 x 20 (#1), Leather Washer (#8), Flat Washer  $\Phi 8$  (#9), Spring Washer  $\Phi 8$  (#10) and Nut M8 (#11). **Note:** The Leather Washer (#8) should be put between the Mixer Blade (#2) and inner side of the Mixing Drum (#3). **See Parts Diagram**
7. Go back and retighten all Screws, Nuts and Bolts after the cement mixer assembly is complete.



fig.1



fig.2




fig.3



fig.4


## OPERATION

1. Position the mixer on a level surface. **NOTE: Before filling the drum, make sure the mixer contents can be emptied into a wheelbarrow.**
2. Secure the T-handle bolt (#5) firmly prior to drum rotation, and grease all moving parts prior to initial use and as necessary depending upon use schedule.
3. Use an appropriate 3-prong, grounded extension cord to supply power and turn on the mixer.
4. While the drum is rotating, add water, concrete and aggregate.
5. To pour the concrete, elevate the dump handle while the drum is rotating.

 **CAUTION: When tilting the drum to pour the mixture, do so in a very slow, smooth motion. This keeps the mixer balanced and upright.**

6. **In the event of overheating and motor shut down**, turn off the mixer and unplug the unit for 15 minutes. After this cooling period, plug in the unit and turn on the mixer.

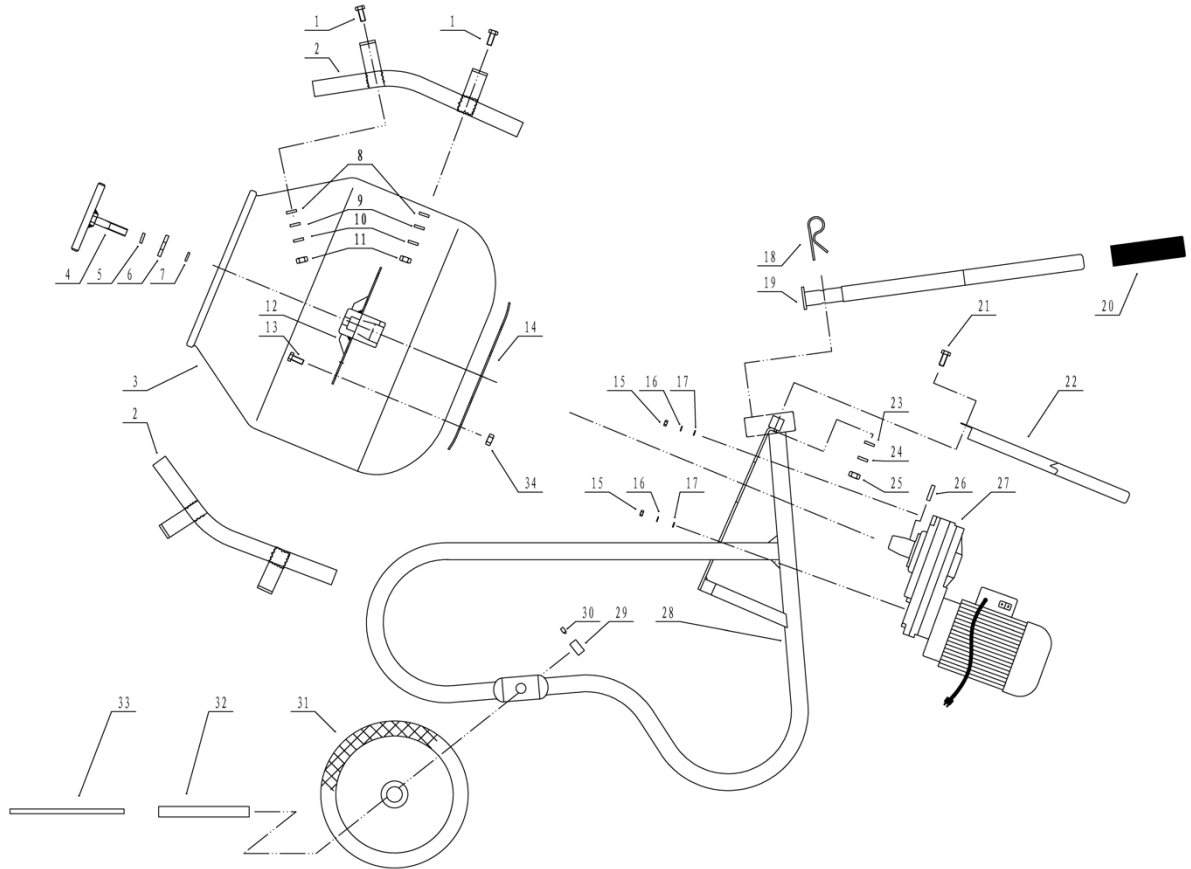
## MAINTENANCE

 **CAUTION: Always disconnect power cord before performing any maintenance and cleaning.**

1. Thoroughly clean unit after each use. Remove all concrete from the mixer.
2. Lightly grease all moving parts.
3. Keep the motor cooling fins clean and free of build up.

**NOTE:** When cleaning the mixer, wipe the ON/OFF switch assembly and motor with a damp cloth. Do not spray water directly onto this area. Protect the motor and switch assembly from rain and moisture.

# DIAGRAM & PARTS LIST



Part#	Description	Qty.	Part#	Description	Qty.
1	Cross Head Bolt M8X20	4	18	R Pin	2
2	Mixer Blade	2	19	Handle	2
3	Plastic Drum	1	20	Handle Sleeve	2
4	T-Bolt	1	21	Cross Head Bolt M6X12	2
5	Spring Washer $\phi$ 14	1	22	Protection Net	1
6	Washer	1	23	Flat Washer $\phi$ 6	2
7	O Ring Oil Seal	1	24	Spring Washer $\phi$ 6	2
8	Leather Washer	4	25	Hex Nut M6	2
9	Flat Washer $\phi$ 8	4	26	Pin $\phi$ 8X55	1
10	Spring Washer $\phi$ 8	4	27	Motor & Gearbox Assembly	1
11	Hex Nut M8	3	28	Frame Assembly	1
12	Connect Plate	1	29	Locking Collar 5/8"	2
13	Cross Head Twist Bolt M10X30	12	30	Screw Whizlock	2
14	Strengthen Plate	1	31	Wheel	2
15	Hex Nut M6	4	32	Interval Tube	1
16	Spring Washer $\phi$ 6	4	33	Wheel Shaft	1
17	Spring Washer $\phi$ 6	4	34	Hex Self Nut M10	12



## **WARNING**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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