

**GB**

# MANUAL

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**ZY-HM-140**



## General Power Tool Safety Warnings



**WARNING** Read all safety warnings and all instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

### 1) Work area safety

- a) **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way.** *Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric if your body is earthed or grounded.*
- c) **DO NOT expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord.** *Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an rcd reduces the risk of electric shock.*  
*NOTE The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".*

### 3) Personal safety

- a) **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.*
- b) **Use personal protective equipment. Always wear eye protection.** *protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before**

**connecting to power source and/or battery pack, picking up or carrying the tool.**

*Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

- d) Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury*
- e) Do not overreach .Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations .*
- f) Dress properly. Do not wear loose clothing or jewellery .Keep your hair, clothing and gloves away from moving parts.** *Loose clothes , jewellery or long hair can be caught in moving parts.*
- g) If devices are provided for the connection of dust extraction and collection facilities , ensure these are connected and properly used .** *Use of dust collection can reduce dust –related hazards .*

#### **4) Power tool use and care**

- a) Do not force the power tool .Use the correct power tool for your application .** *The correct power tool will do the job better and safer at the rate for which it was designed .*
- b) Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments ,changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally .*
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users .*
- e) Maintain power tools . Check for misalignment or binding of moving parts. breakage of parts and other condition that may affect the power tool's operation.** *If damaged , have the power tool repaired before use . Many accidents are caused by poorly maintained power tools.*
- f) Keep cutting tools sharp and clean .** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) Use the power tool, accessories and tool bits etc . in accordance with these instructions, taking into account the working conditions and the work to be performed .** *Use of the power tool for operations different from those intended could result in a hazardous situation .*

#### **5) Service**

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained .*

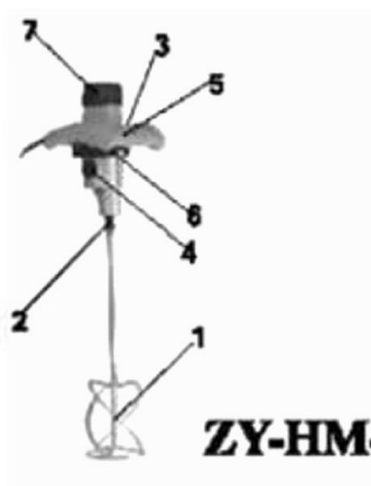
# ELECTRIC PAINT MIXER

Please read and understand owner's manual before operating the machine, keep well the manual. Don't operate the machine until you read the manual and understand the operating and trouble shooting for the machine.

## 1.MAIN COMPONENTS

### SINGLE MIXING TOOL

- (1) Mix tool
- (2) M14 tool connection shaft
- (3) Electronic speed regulator
- (4) I II Speed switching Poker Rod
- (5) Switch Rest-Lock Knob
- (6) Start Switch
- (7) Motor Housing



ITEM NO		ZY-HM-140
Rated Voltage		230V~
Rated Power		1600W
Rated no-load speed		0-480/min
		0-650/min
Mixing diameter		140mm
Sound pressure level		$L_{pA} = 87.6\text{dB(A)}$
Sound power level		$L_{WA} = 98.6\text{dB(A)}$
Uncertainty K		$K = 3\text{dB(A)}$
	Vibration	$a_{h,HD} = 3.187\text{m/s}^2$
	Uncertainty K	$K = 1.5\text{m/s}^2$

## 2.PRODUCTION DESCRIPTION

The mixer is a electrical power mixer, which fitted with double count-rotating mixing tool (single mixing tools also available). It is used for mixing building materials and chemical materials, for mixing even heavy materials quickly and thoroughly, especially for the difficult mixing materials, such as high density mortar, dried building materials, tow or more kinds mixed materials. Different mixing tools are available for the mixer, and different I II speed meet the demand of different materials mixing.

## 3.CAUTIONS

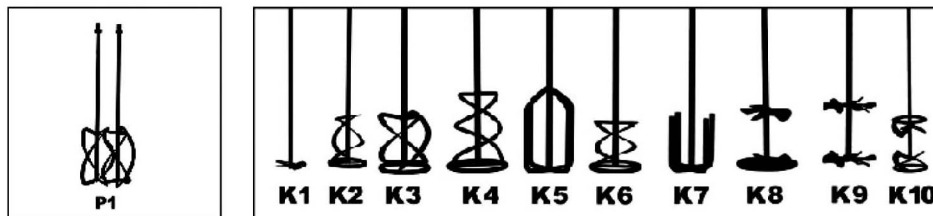
Please read and follow these instructions before operating the machine. It may occur unpredictable result if you do not follow it! For people and machine safety, please obey it!

- (1) DO check the safety situation when the machine is in operating!
- (2) DO operate the machine in the suitable working space!
- (3) DO keep other persons away from the working space!
- (4) DO avoid the machine affected with damp when the machine operated in the amp working space!
- (5) DO keep the working space sufficient lighting!
- (6) DO check the power source / voltage is same as showed on the machine label's!
- (7) DO check the machine have earth protecting or not!
- (8) The machine CANNOT be over loading!
- (9) The electrical cable CANNOT be too far away the machine, CANNOT pull the cable to disconnect the plug from the socket directly! Keep the cable from heating, damp, scratch!
- (10) DO only use no scratch, no defected cable with plug!
- (11) DO pull off the power source when the machine is out of work, maintenance or changing the mixing operation!
- (12) DO NOT mix the material which flammable pointless than 21°C;
- (13) DO NOT use solvents for cleaning the tools! Unless it will have explosion dangerous!
- (14) DO NOT install and operator the machine in the flammable and explosivity circumstances!  
Unless it will have explosion dangerous!
- (15) DO NOT use the slide or movable mixing drum!
- (16) DO NOT star the mixer until the mixing tools is in the mixing drum or other drums!
- (17) DO NOT run idle of the machine!
- (18) DO NOT take out the sample until the machine is stopped! DO NOT touch into the mixing drum when the machine is in operation!
- (19) DO NOT star the machine when the dried materials is in the drum or stick to the drum!
- (20) The machine will not be failure only you operate it carefully!
- (21) Please wear goggle and ear cap when operating the machine!
- (22) DO use only original spare parts for the machine maintenance!

## 4. MIXING TOOLS CHOICE

For the mixer with double counter-rotating tools, we supply P1 mixing tool as standard fitting, P1: heavy duty, multifunction, suitable for heavy viscous materials, mortar, quaz sand mixed ethoxy line, heat proof paints etc, it is also suitable for thin materials;

For the mixer with single mixing tool, we supply K3 mixing tools as standard fitting K1-k10 mixing tools etc. is also available for special use, they are M14 screw connection;



## 5. MAINTENANCE

Correct maintenance for the machine can prolong the working life; The handle switch must always keep in proper function and good maintenance;

The mixing tools should be cleaned when the poeration is finish or no use for long time; Normally the flowing water or quaz sand can clean the mixing tools well. DO not fore any mechaincal stress in the machine, such as POUND, because it will be unavoicdable damaged;

The mixing shaft must always be antipollution;

he hole of hexagonal socket must always be put protecting cover;

The vent of motor housing can not be covered when the machine is in operation, there can not be any flammable materials in the machine;

The vent must be often cleaned;

Only original parts can used in this machine.

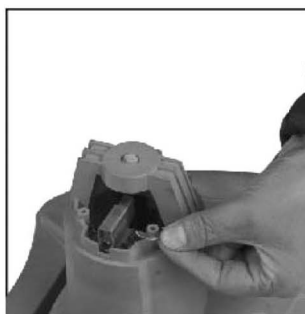
The carbon brush must be checked and maintenance when the machine operation up to 60hours, please change the brush in time if find the brush worn out. The operation details see the pictures.

(Picture.1) Cut off the power first, take apart the motor housing.

(Picture.2) Pull out the plate and replace the carbon brush.



**Picture.1**



**Picture.2**

## 6. OPERATION

### (1) SINGLE MIXING

(Picture 1): Take out the two parts of the mixing tools from the carton.

(picture 2): Fitting the two parts.

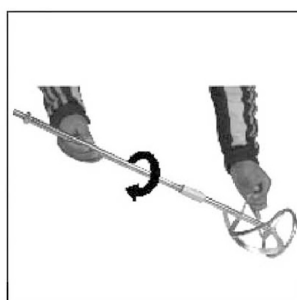
(picture 3): Use the wrench until it is tightened.

(picture 4): Put the mixing tools to the outlet shaft.

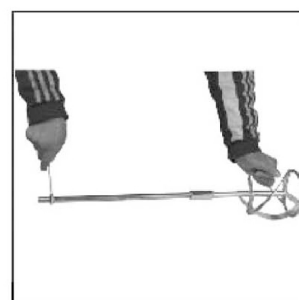
(Picture 5): Ture the screw of the mixing tools to the direction of the old position, and the mixing tools is tightened.



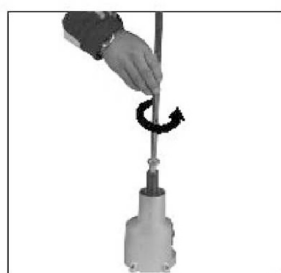
**Picture.1**



**Picture.2**



**Picture.3**



**Picture.4**



**Picture.5**

### (2) START MACHINE

Push down the switch rest-lock knob first and then push down the start switch;

**Mechanical speed regulator operation instruction:** (picuture 6)

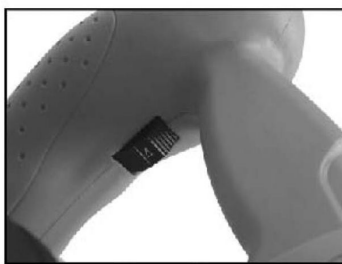
- a) When the machine is under STOP condition, please turn the Knob switch to change the speed;
- b) When you can not finish changing speed completely by turn the Knob switch, plese turn the shaft paddles slightly and change speed.

**Electronic speed regulator operation instruction:** (Picture 7)

Turn on the power switch first, then turn the regulator switch which located in the left handle to get your wanted speed.



(Picture 6)



(Picture 7)

### (3) STOP MACHINE (Picture 8)

Loose the start switch so the machine will be stopped.



Electrical products must not be thrown out with domestic waste. Recycle them at the special disposal centres provided for the purpose. Contact your local authorities or stockiest for advice on recycling