

# 行星系列地坪研磨机

Planet series floor grinders

## 使用说明书

Instruction manual

◎ R系列  
R series

◎ A系列  
A series

◎ PRO系列  
PRO series

◎ S系列  
S series

感谢您购买我们的产品，使用前请仔细阅读此说明书，并请严格按照产品说明书要求操作使用。阅读后请妥善保管，以备日后查阅。

Thank you for purchasing our product, please read this manual carefully before use, and operate in strict accordance with the requirements of the product manual. After reading, please keep it in a safe place for future reference.



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## 1、 Overview

### 1.1、 Overview

JS Floor Systems Floor Grinder is used for the treatment of floor surfaces. This manual introduces the grinder's information of the function usage, maintenance, cautions and other information. In order to use grinders safely and efficiently, please read this manual carefully and be familiar with it before your operation. please keep this manual properly for your future reference.

This manual introduces the Planet Series Floor Grinders of JS Floor Systems, including models in R-series, A-series, PRO-series and S-series. The illustrations in the book are based on the R850 model and PRO850 model, other models can refer to the illustrations and actual models. If you need contact inquiries, please contact your local service dealer or JS Floor Systems sales and service personnel.

### 1.2、 Accessory List

- ① Grinding machine 1 set
- ② Machine manual 1 copy
- ③ Frequency converter manual 1 copy
- ④ Wireless remote control 1 set and its accessories  
(A-series and S-series without this article)
- ⑤ 1 toolbox with tool kit inside
- ⑥ Abrasive conversion head 24 pieces, custom products are equipped according to the order

### 1.3、Goods Acceptance

When you receive the goods, please check the packaging and equipment carefully for any shipping damage. If you find any signs of damage to the equipment, please contact your local distributor or JS Floor Systems sales and service personnel. If there is damage to the packaging, please provide feedback to the transporter on the damage to the packaging in a timely manner.

Please check carefully about whether the delivery is in accordance with order and whether the accessories are complete. If there are any questions, please contact your local distributors or JS Floor Systems sales and service personnel.

### 1.4、Equipment Nameplate



Tel: 0086-21-5448-9460/9461/9462  
Fax: 0086-21-5486-2861  
E-mail: shjiansong@163.com  
Web: www.jiansongsh.com

品牌 Brand	<input type="text"/>		
名称 Name	<input type="text"/>		
型号 Model	<input type="text"/>	尺寸 Size	<input type="text"/>
电机 Motor	<input type="text"/>	系列号 series NO.	<input type="text"/>
电压 Voltage	<input type="text"/>	生产年份 Year of production	<input type="text"/>
重量 weight	<input type="text"/>	出厂日期 Exfactory date	<input type="text"/>

Shanghai Jiansong Industry And Trade Co.,LTD  
Add: NO.68, Chouqin RD, Shihudang Town, Songjiang District, Shanghai City, China

**MADE IN CHINA**

## 1.5、Cautions

In order to keep personal safety and avoid equipment damage, it is necessary to pay attention to the important safety information contained in this manual, and please be sure to observe all the safety content.

### Cautions Related to Electricity Consumption

 Do not pull the power cord when inserting or removing the power plug, must always hold the plastic end tightly to connect or pull it out, and do not use it when the power supply is broken or the plug is worn out. If the power cord is worn or damaged, it must be repaired or replaced.

 Please use the standard special power socket alone, this socket should not be used with other electrical appliances. Power plug should maintain firm contact with the socket, otherwise it may lead to fire or other safety hazards. Please be sure to ensure that the socket grounding electrode has a reliable ground wire.

 For the reason of ensuring safety, it is forbidden to place any items and power cables on top of the motor. It is available to hung cable securely by means of an overhead pole device.

 When the power is off, the power plug should be unplugged to prevent the motor life from being affected by long standby power.

### Security Warnings Related to Use

 Private modifications are strictly forbidden and maintenance of the grinder must be carried out by professionals. If the internal machinery is damaged, to avoid risk, it should be replaced by the manufacturer's maintenance department or by the relevant professional.

 Do not flush or spray the motor with water; do not leave the grinder in a damp place where water is easily splashed for a long time, so as not to affect the insulation performance of the grinder motor.

 Before using the floor grinder, please make sure there are no obstructions around and keep the running track unblocked.

 During the use of the grinder, please press the [Emergency Stop Switch to Stop] button to stop working in case of an accident.

 When the grinder is running on the slope (Maximum slope  $15^{\circ}$ ), it needs to be more vigilant to drive the equipment slowly; when operating along the slope downward, the head of the equipment should run in the opposite direction; when operating along the slope upward, the head of the equipment should run in the positive direction;

Qualified Professional

Only qualified personnel who meet all work requirements are allowed to operate, and their operation must also comply with the relevant operating instructions, especially the safety and warning instructions in it. When working, you should not wear too loose clothing and accessories to avoid pulling clothes during the operation of the equipment; you should be equipped with professional protective equipment, such as goggles, protective gloves, safety shoes, protective masks, protective earmuffs and so on.

## 1.6、Warranty Coverage

The product warranty period is one year. It starts from the date of leaving factory.

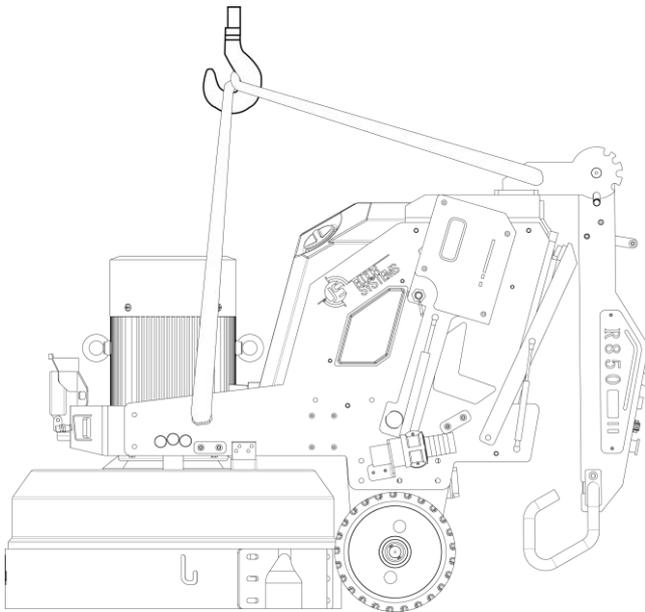
We are not responsible for any direct, indirect, intentional or unintentional damage and hidden problems caused by improper use, over-specification use, private disassembly, or modification. Under no circumstances will the company be liable for indirect damage or costs incurred in shipping, unpacking and other condition. Please contact your local distributors if they have special warranty terms.

## 1.7、Equipment Lifting and Transportation

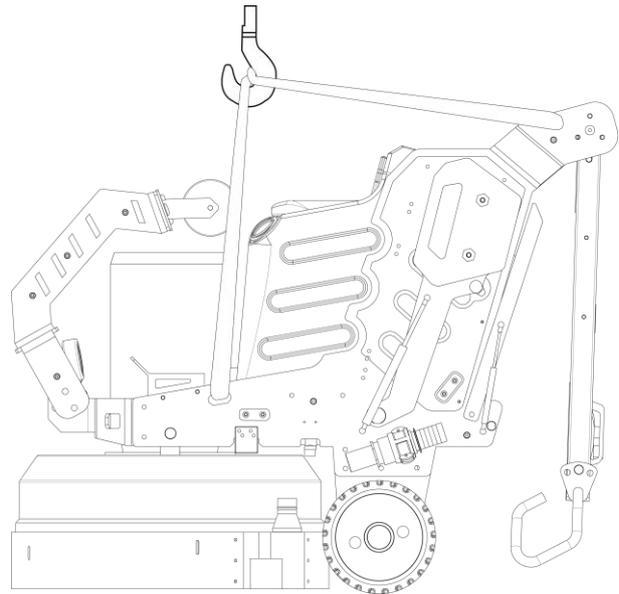
 When transporting, please fix the equipment on pallets or other fixtures for transportation so as to avoid damage during transportation and unnecessary losses.

 Please use crane or forklift and other construction machinery to lift and move the equipment. When lifting and moving, please put the lifting rope (Load capacity 1000KG) through the reserved lifting hole (Illustration) for lifting and transportation.

 Please check carefully whether the lifting rope is firm before lifting. When lifting equipment, make sure there is no person staying or obstacle blocking within the moving range to avoid unnecessary personal injury or collision damage to the equipment.



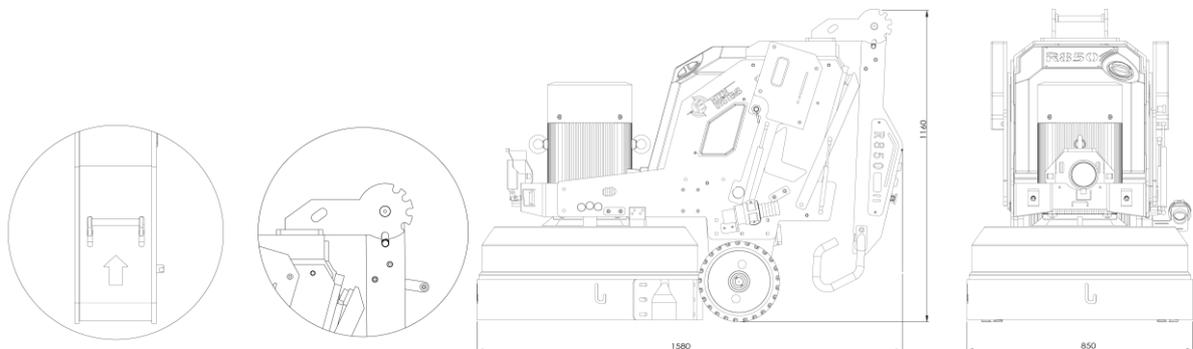
R850 Lifting Illustration



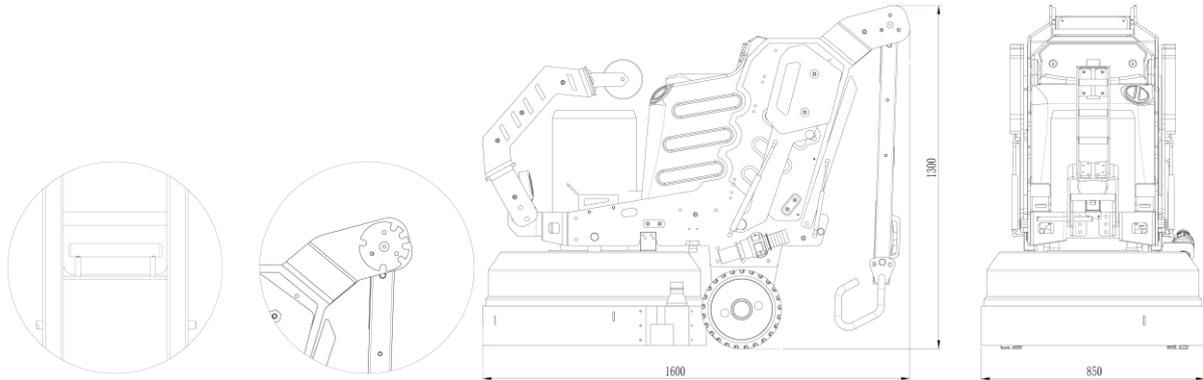
PRO850 Lifting Illustration

### 1.8、Minimum Package Size

When packing or transport space is limited, the crank arm adjusting handle can be adjusted to the lower position, so that the equipment can reach the minimum floor area or packing size.



R850 Minimum Package Size



PRO850 Minimum Package Size

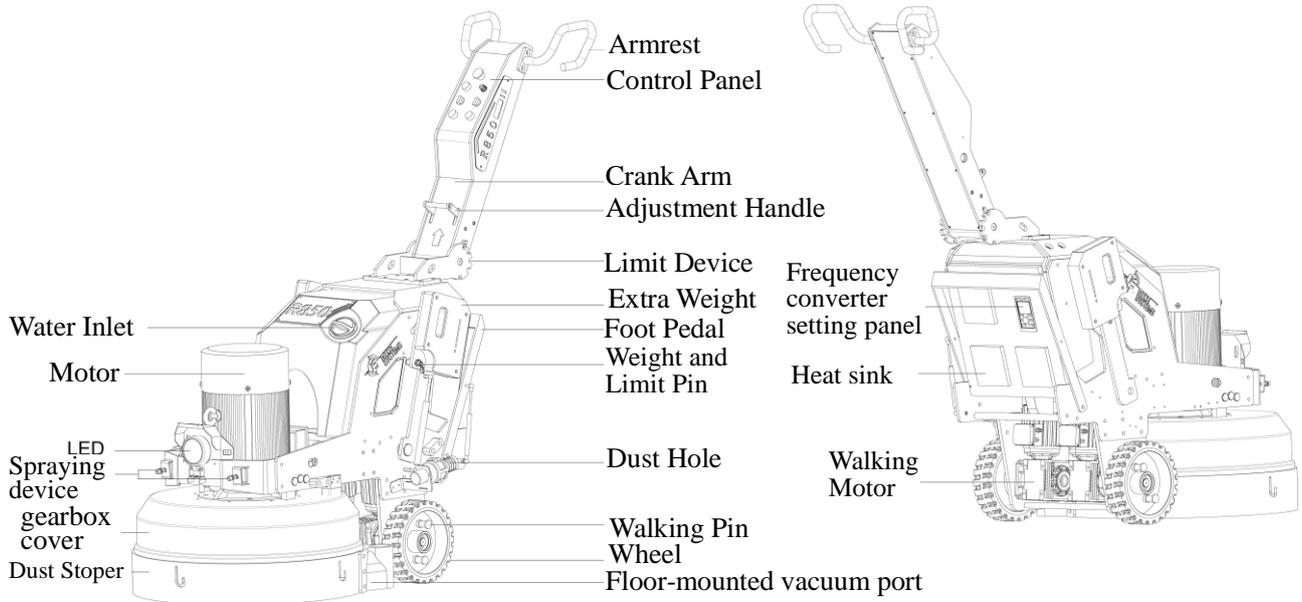
## 1.9、 Disclaimers

The company is responsible for revising this manual and reserve the right to correct or change information. No additional notice will be given in the event of subsequent changes to the product; we will endeavor to make this manual as complete and accurate as possible, but will not be held responsible for any errors or missing information. This manual is copyrighted by Shanghai Jiansong Industry and Trade Co., Ltd., no part of this manual may be reproduced for use in any way without permission.

## 2、 Product Structure

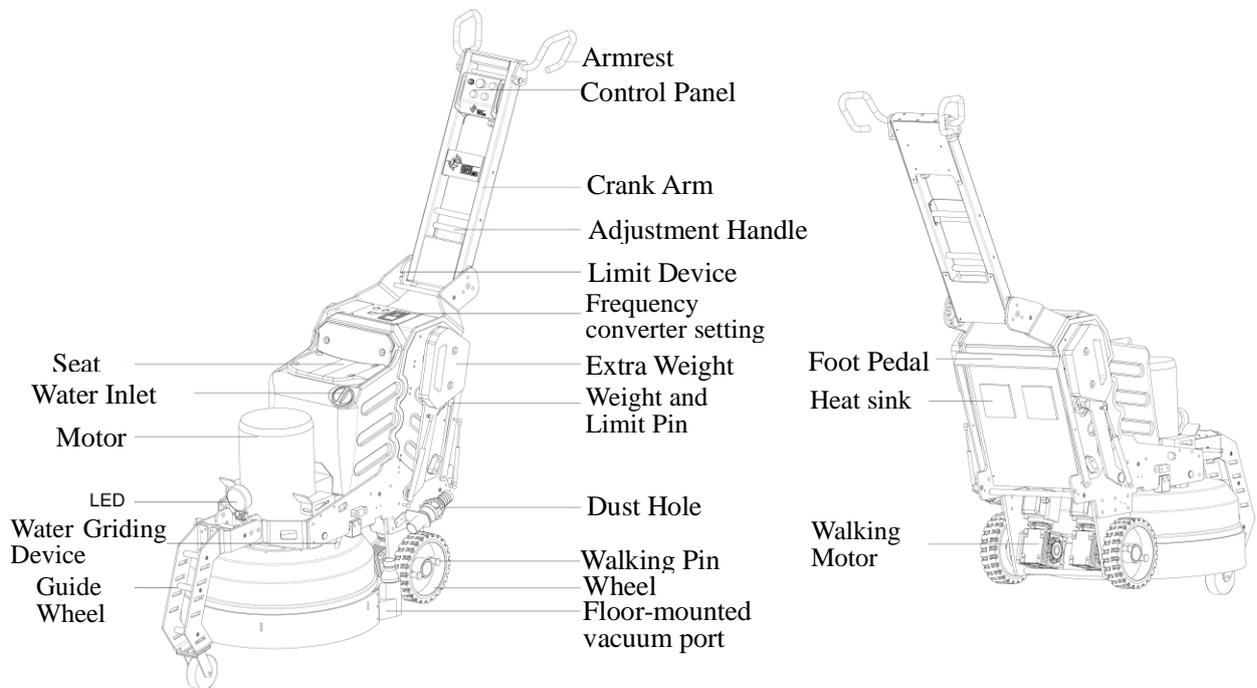
### 2.1、 Whole Machine Structure

#### 2.1.1 R850 Whole Machine Structure



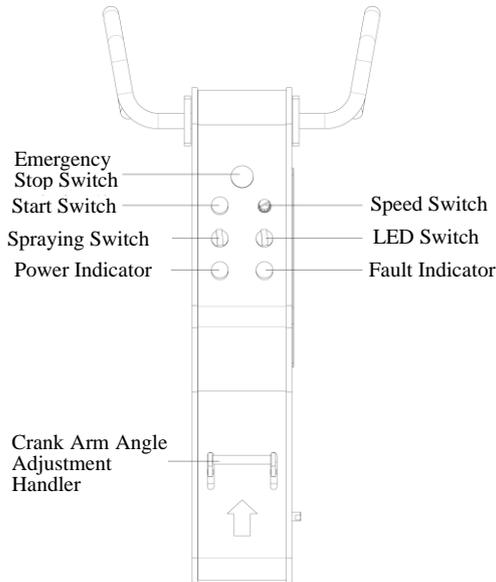
\* Some features and accessories may not be exactly the same as this illustration when ordering, please refer to the actual arrival of the goods

### 2.1.2 PRO850 Whole Machine Structure

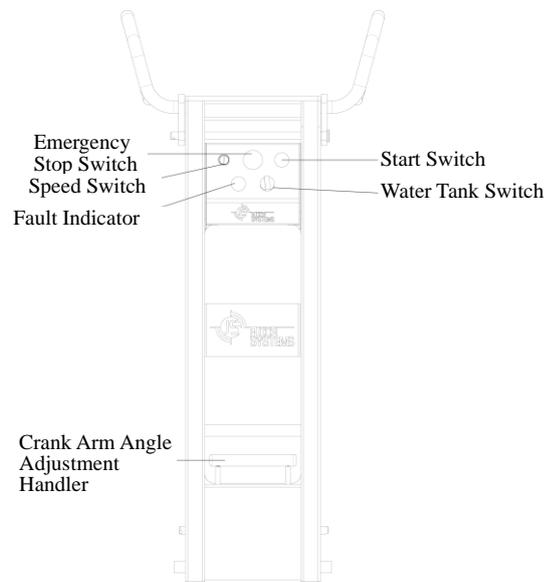


\* Some features and accessories may not be exactly the same as this illustration when ordering, please refer to the actual arrival of the goods

## 2.2、Handle Control Panel Button Functions



R850 Handle control panel



PRO850 Handle control panel

**2.2.1 Emergency Stop Switch:** When starting the equipment, you need to open the emergency stop switch first; when stopping the equipment, close and reset all the switches and then close the emergency stop switch at last; when the equipment is running, if there is an emergency, you can press the emergency stop switch to cut off the power of the equipment to protect personal and equipment safety.

**2.2.2 Start Switch:** Press the start switch, the motor starts and the equipment starts to run.

**2.2.3 Speed Switch:** Slowly rotate the speed control switch to increase the motor speed to reach the corresponding working rotation speed.

**2.2.4 Spraying Switch (R850):** The spray switch can be turned on during grinding, and the spray system operates to reduce the dust in the air during dry grinding operations.

2.2.5 Water Tank Switch (PRO850): During the construction of water grinding, the water tank switch is rotated on and the water flows into the ground through the water grinding device.

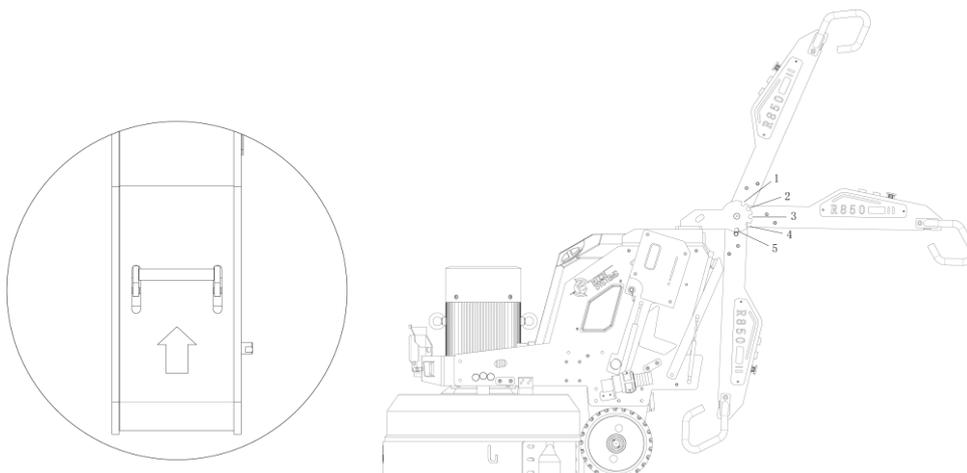
2.2.6 LED Switch: In case of insufficient light or night construction, rotate to open LED lights for illumination.

2.2.7 Power Indicator: When the emergency stop switch is turned on, the power indicator lights up.

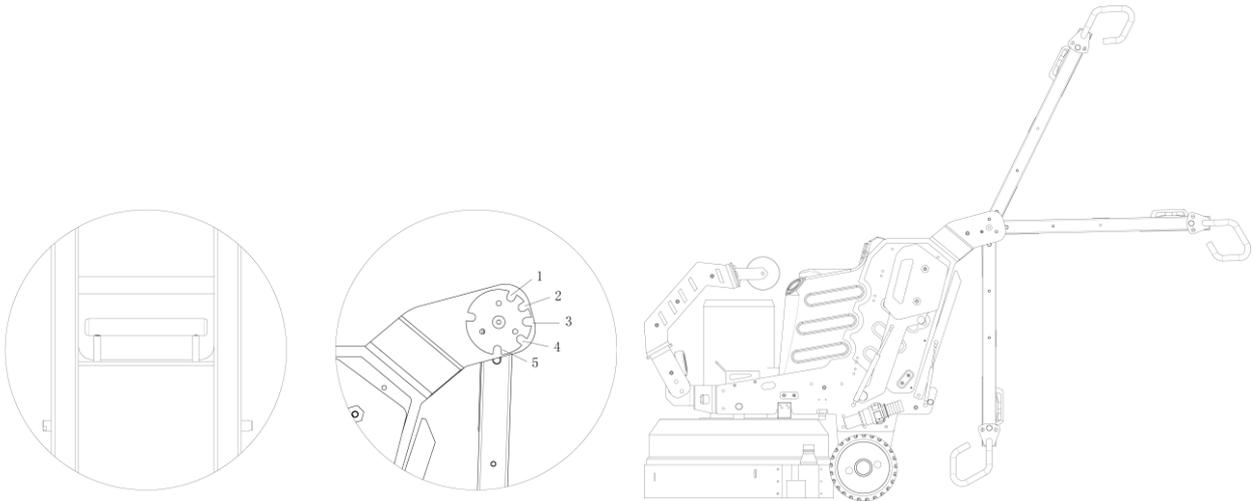
2.2.8 Fault Indicator: When there is a fault in the equipment, the fault light comes on, then the equipment should be stopped immediately and the fault should be investigated before continuing to run the equipment.

2.2.9 Crank Arm Angle Adjustment Handler: It is a limiting device for adjusting the angle of the crank arm. Pull up the handle and adjust the crank arm to the desired gear of the current working state.

### 2.3、Crank Arm Angle Adjustment (Five gears)

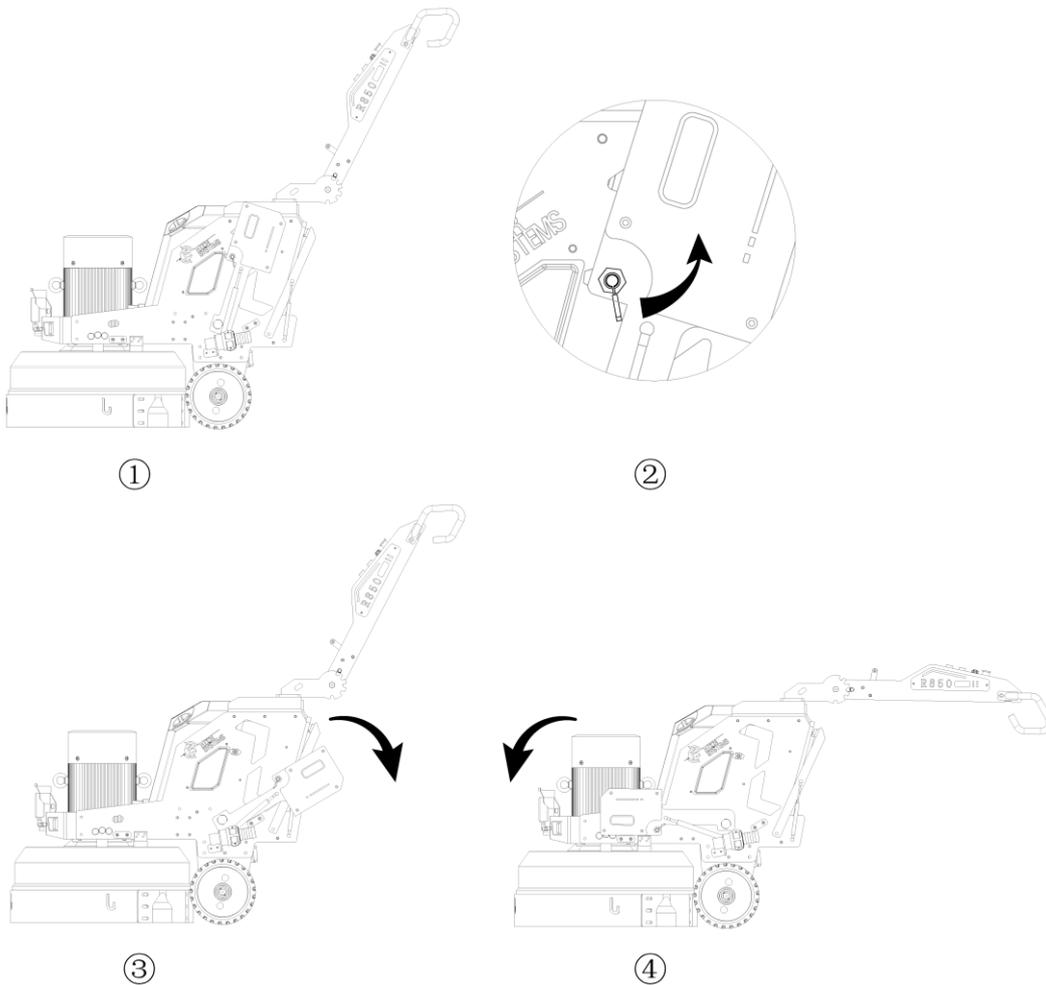


R850 Crank Arm Angle Adjustment



PRO850 Crank Arm Angle Adjustment

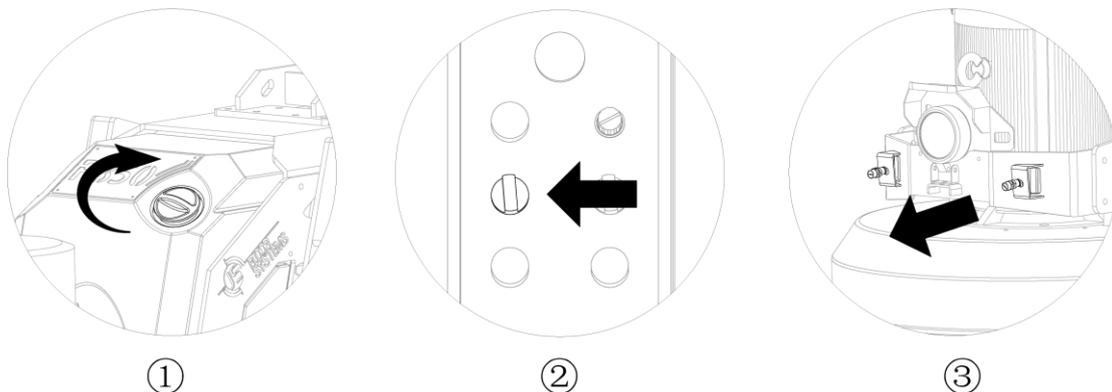
## 2.4、Extra Weight Position Adjustment and Functions



- ① Illustrations, the angle of the extra weight is in the normal limit state.
- ② Illustrations, pull up the rotary limit pin to open the extra weight limit and adjust the extra weight to the desired position for the current operating condition.
- ③ Illustrations, the extra weight is angled backwards and the auxiliary equipment is cocked.
- ④ Illustrations, the extra weight device is angled forward to increase the weight of the head and deepen the ground grinding depth.

## 2.5、 Water Tank Screw Cap Schematic, Spray / Water Grinding Device Schematic

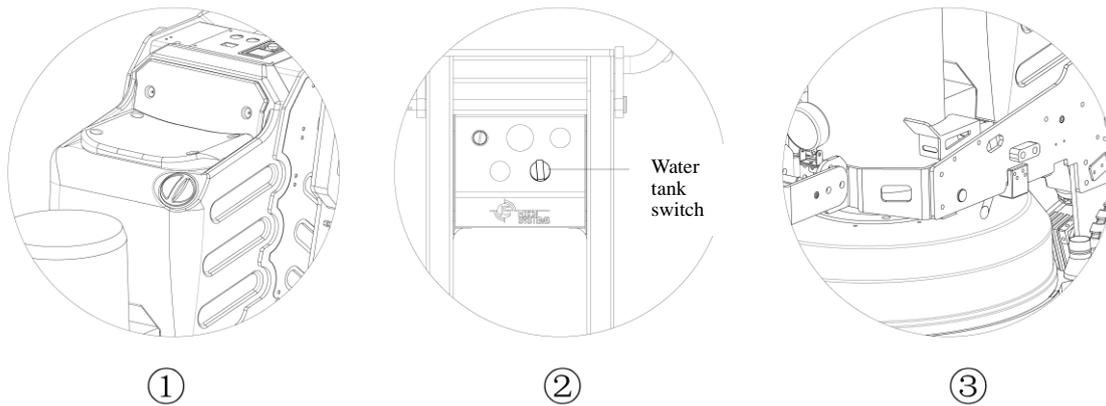
### 2.5.1 R850 Water Tank Screw Cap Schematic, Spray Device Schematic



- ① Illustrations, open the water tank screw cap and inject the appropriate amount of water (see the technical parameters of each model for the water tank capacity).
- ② Illustrations, when grinding is in operation, turn on the spray switch and the spray system runs.

③ Illustrations, the spraying system sprays water mist to reduce the dust in the air during dry grinding operation. The spraying system can also be turned on by wireless remote control, refer to the wireless remote control operation instructions in 3 for details.

### 2.5.2 PRO850 Water Tank Screw Cap Schematic, Water Grinding Device Schematic

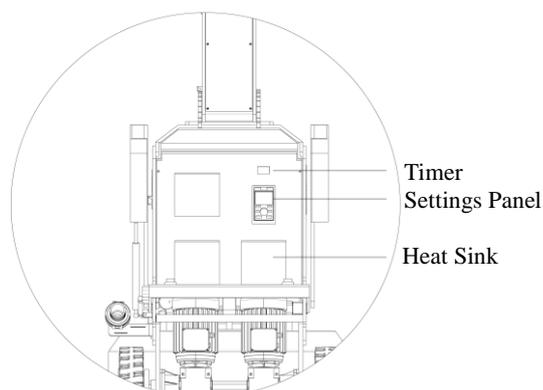


① Illustrations, open the water tank screw cap to inject the right amount of water (see the technical parameters of each model for the water tank capacity).

② Illustrations, turn on the water tank switch when the water grinding is under construction.

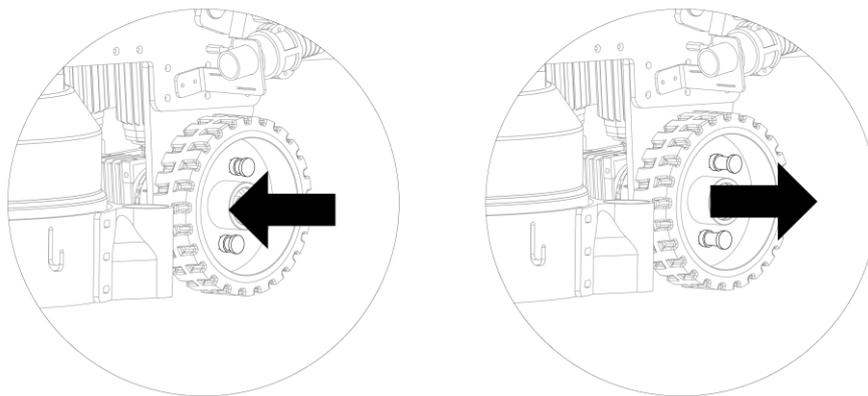
③ Illustrations, the water flows into the ground through the water grinding device.

### 2.6、 Frequency Converter



The frequency converter has been professionally set to match the equipment at the factory, so non-professionals should not make changes to the relevant settings; if you need reference, please refer to the manual of the inverter in the accessories; you can check the running time of the equipment through the timer outside the inverter box.

## 2.7、 Wheel Limiting Device

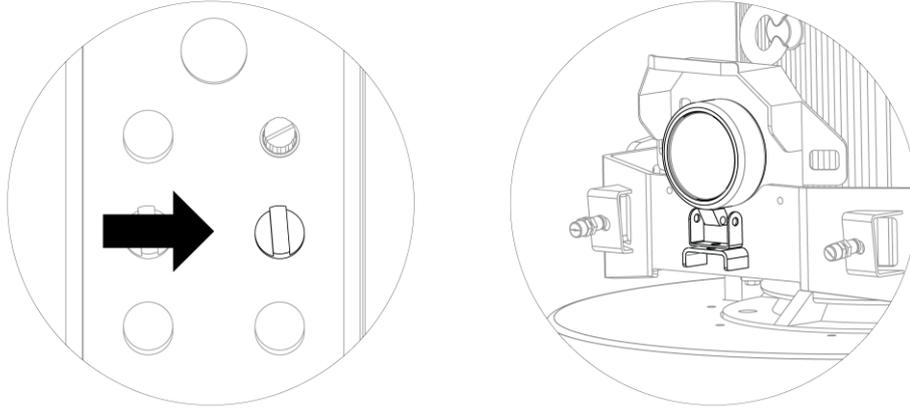


2.7.1 When performing hand-push operation, please turn out the wheel limiting device before operating in hand-push mode.

2.7.2 The wireless remote control model can control the operation of the equipment through the wireless remote control, while the operation can be carried out through the hand-push mode, and the mode switching device between remote control and hand-push operation is set at the wheel.

2.7.3 During wireless remote control operation, the wheel limiting device is in the push-in state (the factory state of the equipment) and the grinder can be controlled wirelessly by remote control.

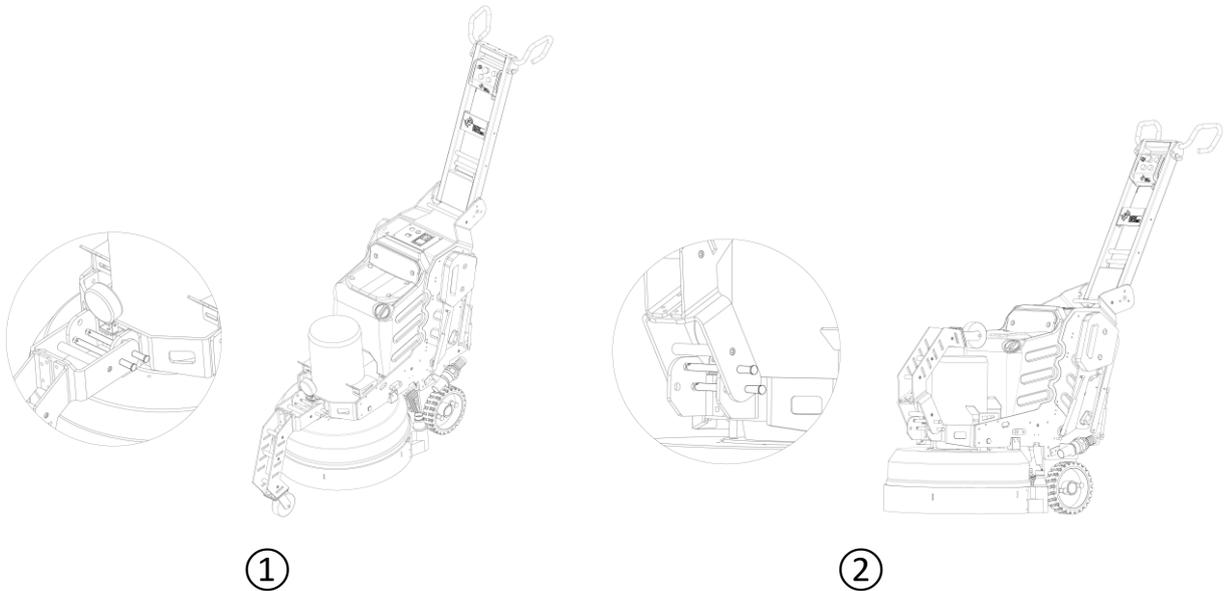
## 2.8、LED Lighting



In case of insufficient light or night construction, the LED light switch on the control panel of the handle can be turned on by rotation.

When operating by wireless remote control, please refer to the wireless remote control operation instructions in 3 for details.

## 2.9、Guide Wheel Device



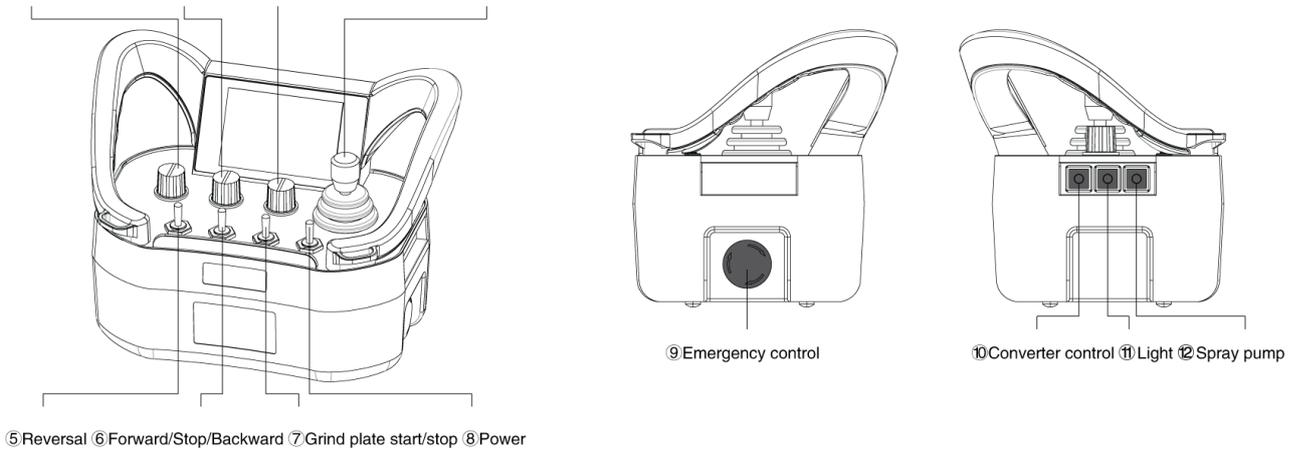
① Illustrations, Remove the locking ring on the pin and pull out the pin for installation and removal at the time of the guide wheel is forward.

② Illustrations, Remove the locking ring on the pin and pull out the pin for installation and removal at the time of the guide wheel is retracted for transportation or stopping operation.

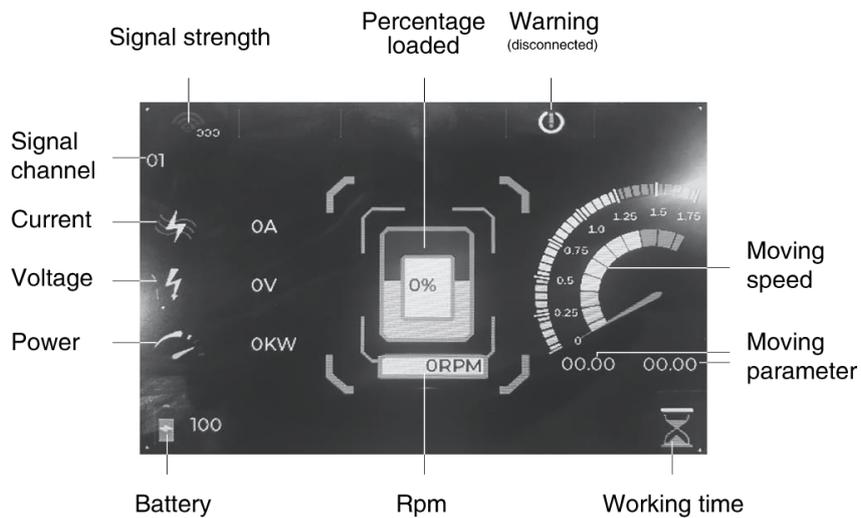
### 3、 Wireless Remote Control Operation Instruction

#### 3.1 Wireless Remote Control Button Introduction

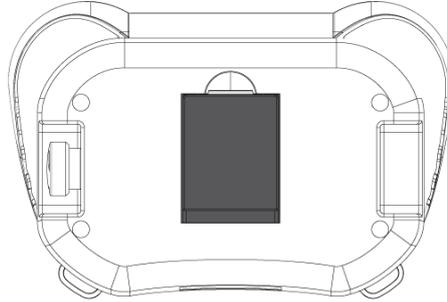
① Moving speed control ② Rpm Control ③ Offset compensation knob ④ Direction rocker



#### 3.2 Wireless Remote Control Display Screen Introduction

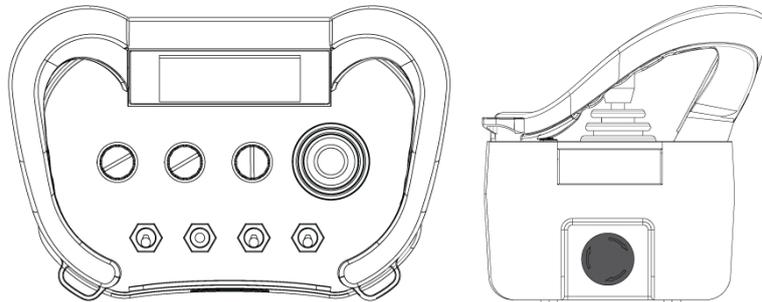


### 3.3 Remote Control Battery Installation



Install the battery before using the remote controller, aim the hole and press down to clamp.

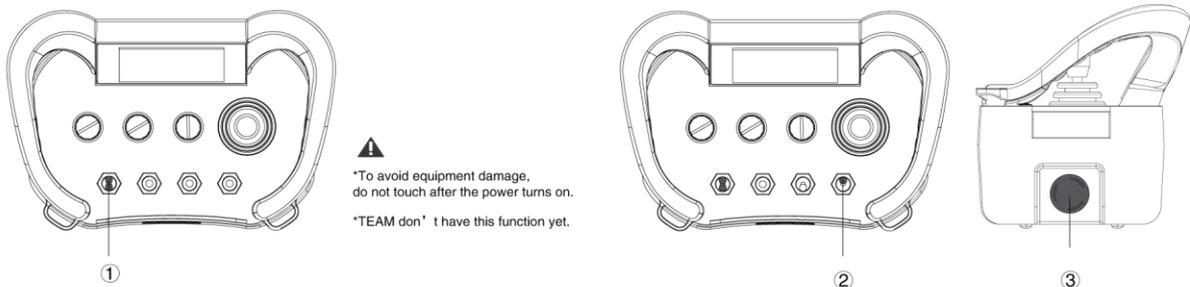
### 3.4 Resetting Check



Reset all function switches on the remote controller to the initial state.

### 3.5 Operation Steps

Before controlling the equipment through the remote control, please check that the emergency stop switch on the handle control panel on the equipment is pressed, and then operate the remote control according to the following steps.



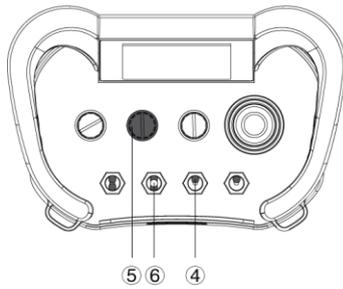
**⚠**  
\*To avoid equipment damage, do not touch after the power turns on.  
\*TEAM don't have this function yet.

① Select the rotate direction of the grinding plate

② Turn on the power ③ Turn on the right emergency control

①

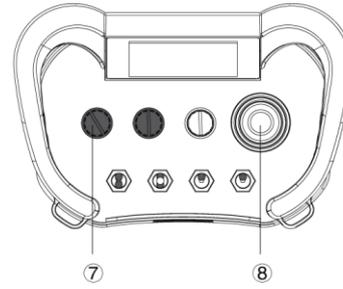
②



⑥  
\*This switch has three functions, forward/stop/backward  
⚠  
\*重Make sure the switch turned to stop before the restart.

④ Turn on the grinding plate ⑤ Set to required rpm  
⑥ Select forward or backward and start grinding.

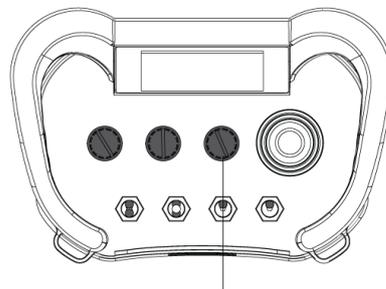
③



⑦ According to the current working condition, rotate the speed control knob to adjust the walking speed of the grinder.  
⑧ Pull the rocker to control the left&right direction and turning of the grinder.

④

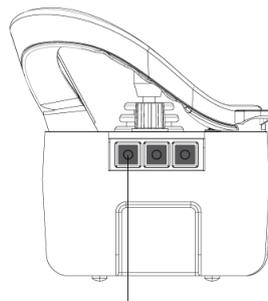
### 3.6 Equipment Travel Offset Compensation Knob



Obverse the machine' s walking parameter changes on the remote controller' s screen.

If there' s a slope with a small angle on the ground, obverse if the direction of the grinder deviates, it can be controlled by rotating the offset compensation knob as rotate anticlockwise while the machine deviates to the right and rotate clockwise while the machine deviates to the left.

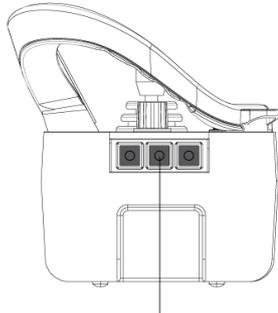
### 3.7 Adjust the Signal Channel



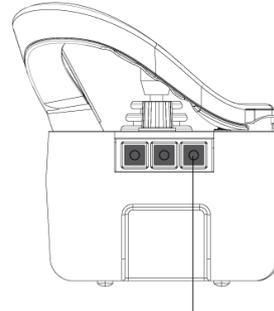
\*While multiple remote controllers are working in the same environment, please adjust remote controllers to different frequency channel to avoid co-frequency interference.

Under the multi-frequency condition, there might be some interference for the remote controller to receive signal, long-press the first left button (channel adjust button) for five seconds, then the signal will be switched and the receiving frequency will be changed as well, at the meantime, the screen will show the switch of the channel, there are 8 frequencies on the signal channel can be select.

### 3.8 Function Buttons on the Left Side of the Remote Control



Work during nighttime can turn on the second left button as the light switch.

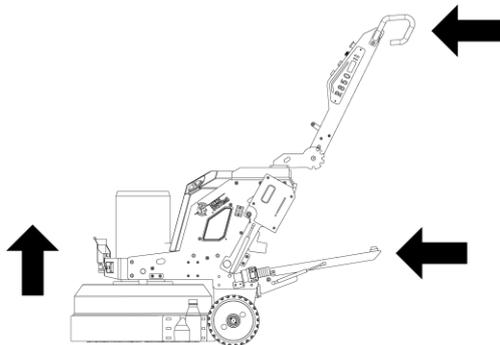


\*Depends on the version of grinder.

The third left button is the switch of the water spray pump, activating it can reduce the grinding dust.

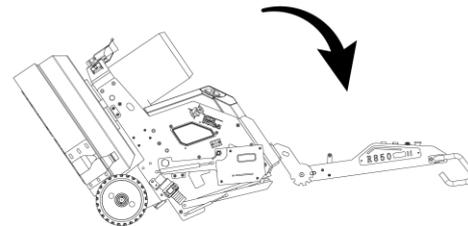
## 4、 Operation and Use

### 4.1、 Installation/Replacement of Grind segments Operation Schematic



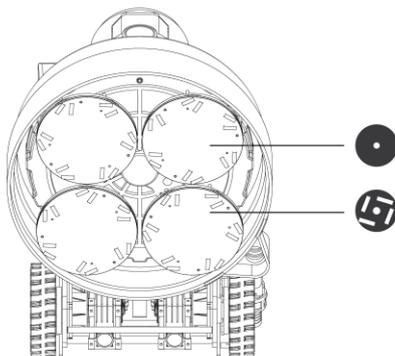
Holding the crank grip device while stepping on the pedal position

①



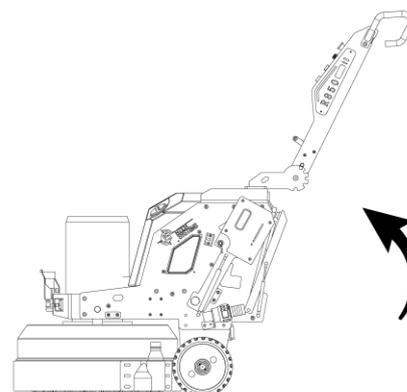
Slowly and smoothly lowering the grinder by the weight of the downward pressure

②



Install the diamond head or grind segment to be used

③



Restore the grinding machine to its normal position

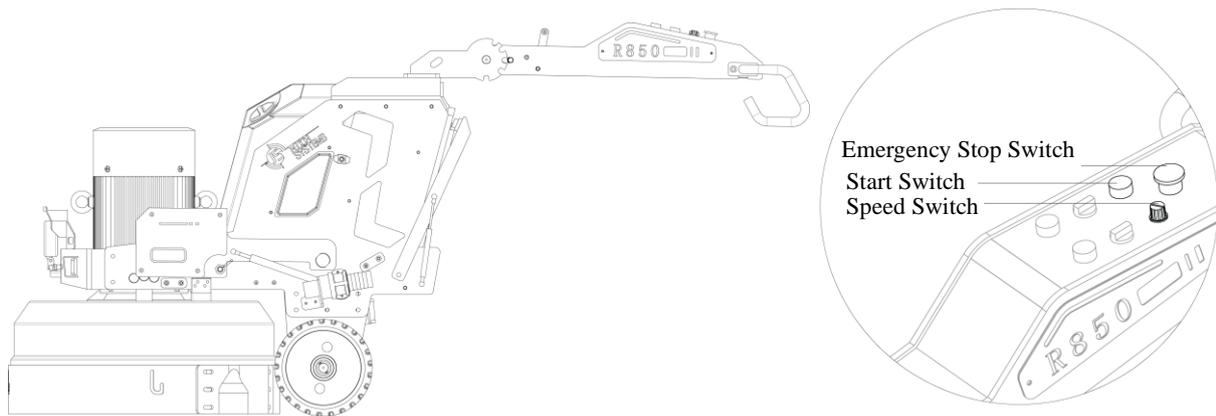
④

4.1.1 When installing or replacing grind segment, check that the grinding machine is put down smoothly and be sure not to do it on a sloping surface.

4.1.2 When the equipment is working, the gear box, grinding disc and grind segment will generate high temperature, so pay attention to prevent burns when replacing the grind segment.

4.1.3 Make sure that the power is unplugged and the emergency stop switch is off before installing or replacing the grinding discs.

#### 4.2、 Start/Stop Operation Procedure Schematic



4.2.1 The illustration shows a schematic of the hand-push working mode, and the wireless remote control working mode is shown in the wireless remote control operating instructions in 3.

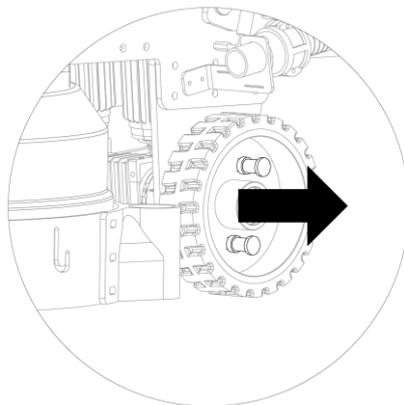
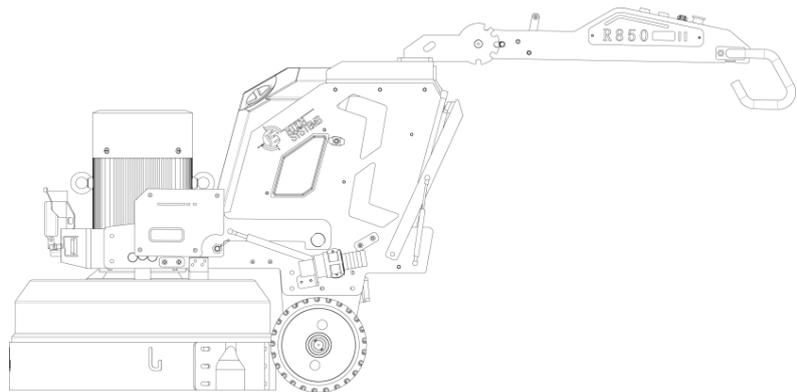
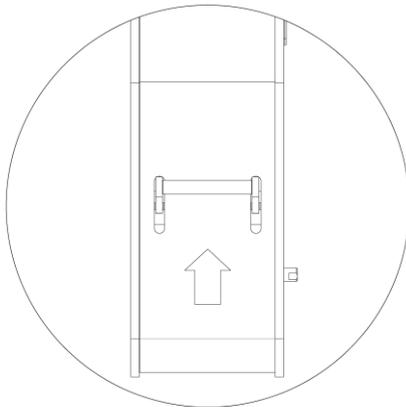
4.2.2 Before starting the equipment, adjust the extra weight device and crank arm to the corresponding working condition.

4.2.3 Rotate on the emergency stop switch, press the start switch, slowly rotate the speed switch, increase the motor speed to reach the corresponding working speed, and push the equipment forward or backward with the armrest in hand.

4.2.4 When stopping the grinder, you need to slowly rotate the speed switch to the off state, then close the start switch, and finally press the emergency stop switch to stop the machine

4.2.5 When stopping the device, please disconnect the power for safety reason.

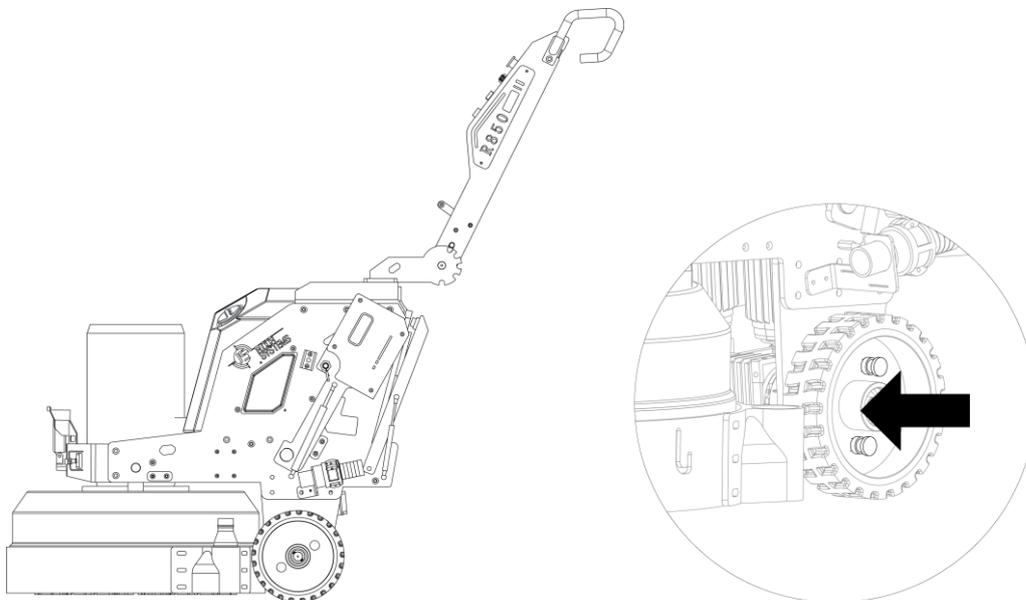
### 4.3、 Hand-push Operation Setting



4.3.1 When performing hand-push operation, adjust the crank arm angle limiting device, pull up the handle and adjust the crank arm to the required gear for the current working condition.

4.3.2 Set the wheel limiting device out and then operate the equipment power access and start-up.

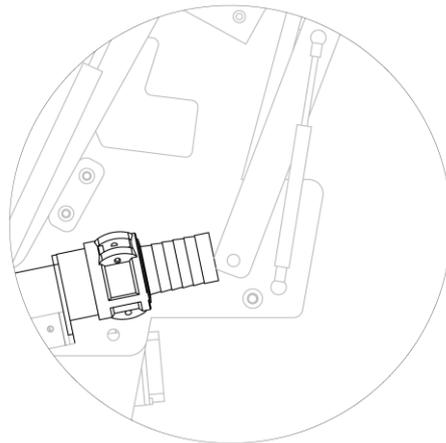
#### 4.4、 Schematic of Limit Switch During Wireless Remote Control Operation



4.4.1 When operating by wireless remote control, it is recommended to adjust the crank arm to the illustrated state to the corresponding gear.

4.4.2 Check or reset the wheel limit device in the push-in state; access the power of the equipment and operate the control equipment by wireless remote control.

#### 4.5、 The Dust Suction Port is Connected to the Industrial Vacuum Cleaner



4.5.1 The dust pipe interface is used to connect the interface of the industrial vacuum cleaner. The size parameters of the dust port interface are shown in the technical parameters of each model, and the customized products are equipped according to the order.

4.5.2 Recommend the configuration of the JS Floor Systems Industrial Vacuum Cleaner Series, they have a better effect of vacuuming; can prevent dust volatilization in the air to affect the environment, while protecting the health of the operator.

#### 4.6、 Common Problems and Solutions

The summary describes some possible failures and how to deal with them. If you fail to get a solution or there are other situations, please contact your local distributors or JS Floor Systems sales and service personnel.

Questions	Possible Reasons	Solutions
Machine does not start or there is a strange noise	Emergency stop switch not turned on	Open the emergency stop switch, check if all switches are in reset state before opening

Questions	Possible Reasons	Solutions
Machine does not start or there is a strange noise	Motor overload Frequency converter display o.L.1	Turn off all switches, disconnect the power supply and then re-connect later
	Motor overload Frequency converter display o.L.2	Turn off all switches, disconnect the power supply and re-connect later
	The power connector is not connected tightly or the power cord is damaged	Check if the power connector is stuck tight or replace the power cord
	Out of phase input Frequency converter display Err2	Connect to the correct Three-phase input power
	Motor damage	Contact the manufacturer for repair or replacement
Machine shaking or skipping	Diamond grind segments are not properly installed	Check or re-install the same model of grind segments
	Whether the chassis of the grinding disc is flat	Adjustment of chassis flatness
Machine forward and backward abnormalities	Walking motor damage	Contact the manufacturer for repair or replacement

Questions	Possible Reasons	Solutions
Invalid remote control	The remote control battery is low	Observe the remaining battery power and charge it before it runs out of power
	Remote control signal interference, multiple remote control devices working simultaneously in the same environment	Adjust the remote control signal channel, long press the first button on the left side of the remote control for 5 seconds to switch the signal reception channel
	Forward and reverse switch not reset to stop gear	Check the remote control forward / stop / backward three gear switch and reset

If there are other problems or questions encountered during the use and operation, please check and read this manual and the manual of the inverter in detail, which may be helpful for the problems or questions encountered.

## 5、Maintenance and Care

### 5.1、Method and Steps

5.1.1 When the daily work is finished, the equipment should be routinely cleaned.

Mainly clean the sticky dust on the waterproof cover grinding disc to avoid affecting the effect of using the next process and to improve the efficiency of the next day.

5.1.2 Clean the inside of the water tank of the grinder once every week to avoid clogging of the lower water filter by sediment.

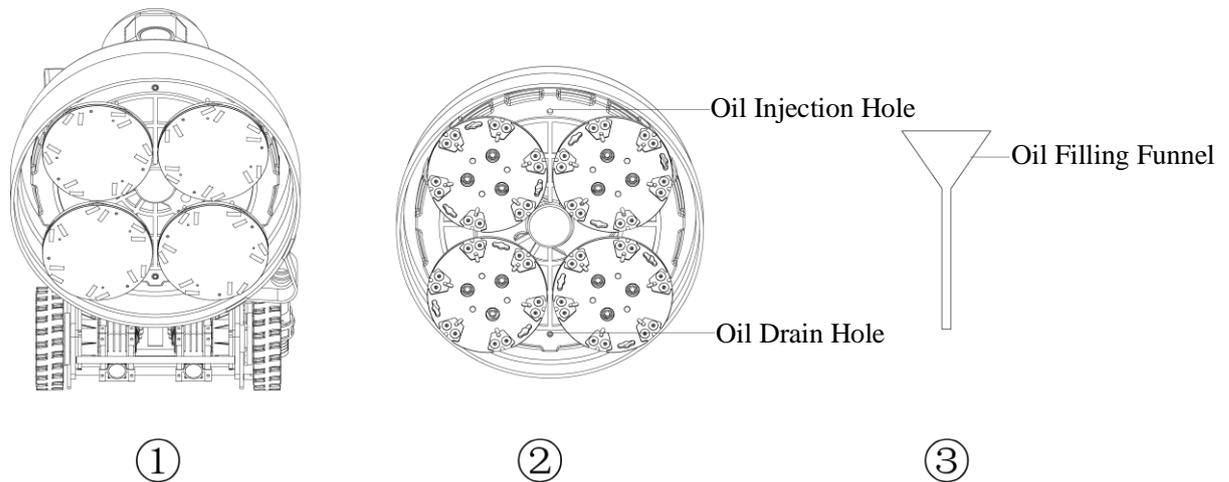
5.1.3 Every site needs a routine check of the floor sanding machinery, to tighten the screws connected in the machine and check the screws of the bottom grinding disc for looseness.

5.1.4 If the floor grinder is frequently dry-ground, the frequency converter's cooling fan needs to be cleared of dust every other month.

5.1.5 Change the gear oil regularly. The first gear oil change can be done after 6 months of normal use of the new machine, and then once a year.

5.1.6 When using a new machine, do not overuse it, otherwise it will cause some damage to the motor.

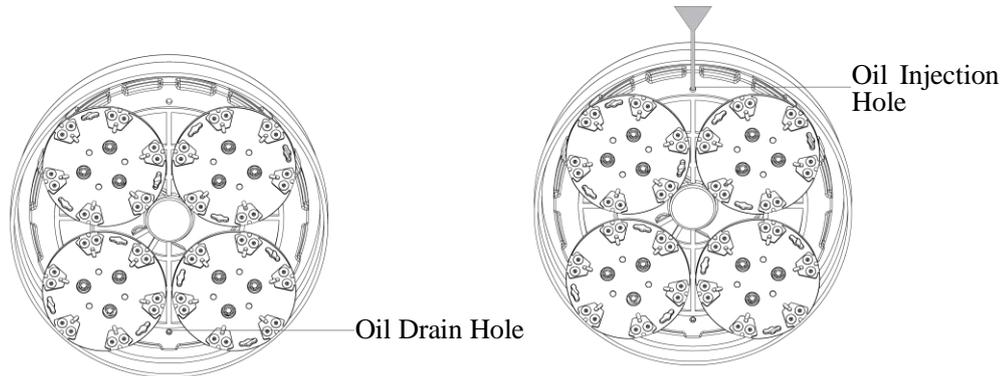
## 5.2、Oil Change



5.2.1 When changing the oil, put the grinder down smoothly, never on a sloping surface.

5.2.2 Find the two holes at the bottom of the gearbox, the holes are not differentiated, the top is the oil injection hole and the bottom is the oil drain hole.

5.2.3 Prepare oiling tool oiling funnel, see the above illustration ③.



Unscrew the M16 oil hole plug with an L-shaped hexagonal wrench, at this time the oil flows out (pay attention to the collection and treatment of dirty oil), and then screw back the oil hole plug after the oil drain is completed.

①

Unscrew the M16 oil hole plug with an L-shaped hexagonal wrench, insert the oiling funnel into the oiling hole, pour the oil from the oiling funnel, and then screw the oiling hole plug back on after the oiling is completed.

②

5.2.4 Drain and fill oil according to steps of illustration ① and illustration ② shown in the figure above.

## 6、 Technical Parameters

### 6.1、 R-series Model Parameters

Project \ Model		R5	R650	R750	R850	R950
		Parameters				
Whole Machine	Motor (HP)	7.5	15	20	25	30/25
	Voltage (V)	380	380	380	380	380/220
	Electricity (A)	12.1	22	30	30	43
	Grinding disc speed (RPM)	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800
	Frequency converter (HP)	7.5	15	20	25	30/25
	Walking motor	Dual drive				
Accessories	Amount of grinding discs	254mm*3	254mm*4	280mm*4	320mm*4	360mm*4
	Amount of grind segment	9	12	12	12	12
	Grinding width (MM)	560*560	650*650	750*750	820*820	950*950
	Water tank (L)	28	28	60	60	60
	Dust extraction port	2.76inch* 1	2.76inch *1	2.76inch *1	2.76inch *1	2.76inch *1

## 6.2、A-series Model Parameters

Project \ Model		A1	A2	A5	A6	A7	A8	A9	A10
		Parameter							
Whole Machine	Motor (HP)	3	4	7.5	7.5	15	20	20	30
	Voltage (V)	380	380	380	380	380	380	380	380
	Electricity (A)	5	6	12.1	12.1	22	30	30	43
	Grinding disc speed (RPM)	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800
	Frequency converter (HP)	3	4	7.5	7.5	15	20	20	30
Accessories	Amount of grinding discs	175 mm *3	220 mm *3	254mm *3	260mm *3	254mm *3	280mm *3	320mm *3	360mm *3
	Amount of grind segment	9	9	9	9	9	9	9	9
	Grinding width (MM)	450*450	490*490	560*560	580*580	650*650	750*750	820*820	950*950
	Water tank (L)	—	—	28	28	60	60	60	60
	Dust extraction port	2.76inch *1							

### 6.3、PRO-series Model Parameters

Project \ Model		PRO750	PRO850	PRO950
		Parameter		
Whole Machine	Motor (HP)	20	25	30
	Voltage (V)	380	380	380
	Electricity (A)	30	36	43
	Grinding disc speed (RPM)	0 ~ 1800	0 ~ 1800	0 ~ 1800
	Frequency converter (HP)	20	25	30
	Walking motor	Dual drive	Dual drive	Dual drive
Accessories	Amount of grinding discs	280mm*4	320mm*4	360mm*4
	Amount of grind segment	12	12	12
	Grinding width (MM)	750*750	820*820	950*950
	Water tank (L)	55	55	55
	Dust extraction port	2.76inch *1	2.76inch *1	2.76inch *1

### 6.4、S-series Model Parameters

Project \ Model		S650	S750	S850	S950
		Parameter			
Whole Machine	Motor (HP)	15	20	20	30
	Voltage (V)	380	380	380	380
	Electricity (A)	22	30	30	43
	Grinding disc speed (RPM)	0 ~ 1800	0 ~ 1800	0 ~ 1800	0 ~ 1800
	Frequency converter (HP)	15	20	20	30
	Walking motor	—	—	—	—
Accessories	Amount of grinding discs	254mm*4	280mm*4	320mm*4	360mm*4
	Amount of grind segment	12	12	12	12
	Grinding width (MM)	650*650	750*750	820*820	950*950
	Water tank (L)	60	60	60	60
	Dust extraction port	2.76inch *1	2.76inch *1	2.76inch *1	2.76inch *1