



PANTHEON SALES & RENTALS

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HTG-820RC

SEMI-INTELLIGENT PLANETARY DISCS
FLOOR GRINDING MACHINE



Machines can improve
Competitive Advantage



Machines can stand out
in the industry



Machines can improve
work efficiency



THE REVOLUTION OF
MADE-IN CHINA

Manual of New HTG-820RC Remote Control Floor
Grinder

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1. Introduction

1.1 Summary

Pantheon machines are used for processing floor surfaces. The application of machine depends on the choice of tools. Besides operations instructions and general functions, this manual also explains the applications, repair and maintenance of the machines. Please contact factory or your local retailer for more information.

1.2 Responsibility

We will do our best to make this manual more complete and accurate as possible, while we bear no responsibility for incorrect or missing information. Pantheon reserves the right to change descriptions in this manual without giving prior notice.

This manual is protected by copyright law and forbidden to be copied or used without the written consent of Pantheon.

1.3 Accessories

Below accessories are included with the grinder. Please contact your supplier if anything is missing.

- (1) 1set of grinding machine
- (2) 1copy of machine using manual
- (3) 4pcs of Velcro-iron accessories (278)
- (4) 1pcs of power plug
- (5) 1pcs of dust skirt
- (6) 1set of remote control device
- (7) 2pcs of main electric cabinet key

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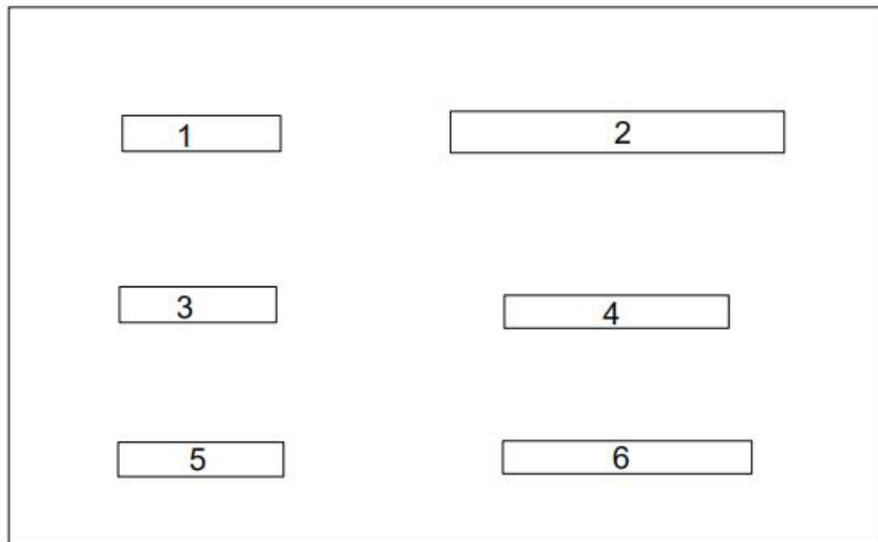
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1.4 Package acceptance

Check carefully to see if the package or the grinder has been damaged during delivery. If there is damage of the packages, contact with your delivery company and report it. Check carefully to see whether delivery matches the order or not. If there are any discrepancies, contact with your supplier.

1.5 Machine nameplate



1. Model

2. Manufacturing date

3. Power

4. Voltage

5. Weight

6. Rotating speed

1.6 Handling and storage

The grinding machine should be stored in a normal temperature and dry place when not in use. Otherwise it may be condensed and cold damaged. The size and weight of the grinder are given in the technical data of the (please find it in the manual).

1.7 Warranty

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This warranty only covers manufacturing defects. Pantheon does not assume responsibility by damage in the transport, unpacking or use. The manufacturer is not responsible for any damage or defects caused by improper use, corrosion or use beyond the noted specifications under any condition. The manufacturer shall not be responsible for any indirect damage or expense under any circumstances. For complete information on the manufacturer's warranty period, please refer to the current warranty terms of Pantheon. Local dealer may has special warranty terms. If you have any uncertainty about the warranty terms, please contact your retailer.

2. Safety Guidance

2.1 Overview

This manual records the key information for safety operation. It is a must that read the manual carefully before first operation.

Non-standard operation, unauthorized modification or maintenance may cause machine problems or other loses, even it may be dangerous. All maintenance must be done by qualified professional technician. Any machine parts need to be changed must be provided by PANTHEON.

Pantheon machines only can be used in the way recommended by Pantheon and only can be used for commercial purposes. Anyone who uses the machine should know its function, the location of the emergency stop, safety rules that the operator should follow, an unauthorized person cannot be stationed at working area when the machine starts.

The operator should be equipped with professional personal protective equipment when working: safety goggles, protective gloves, safety shoes, breathing masks, protective earmuffs, etc., do not wear loose clothes or anything can grasp things such as scarves, bracelets, rings and so on.

Notes:

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1. It is strictly prohibited to operate when the electricity is less than 20%, especially on slopes, avoiding personal injury.
2. When working on the slopes, please check the battery's electricity should be more than 40%, the power supply shall not be lower than 350V and the clutch is locked.
3. If the machine must be work on slopes, it should be less than 25 degrees, the company is not responsible for any accident caused by the operation when the slope is greater than 25 degrees.
4. This machine is only used for floor grinding, polishing.
5. Please read and understand the safety guide totally. Different models have different accessories and operation instructions.
6. It only needs one person to operate this machine Keep children and irrelevant person away. "one person one machine".
7. Operator who is in poor physical state or without training is not allowed to operate the machine. The operator and the repairman must be physically strong and able to withstand the weight of the whole machine and the working intensity of the motor.
8. Do not lend or rent the machine without instruction manual.
9. Helmet, safety shoes, the headset, non-moist goggles and masks are necessary when operating the machine.
10. Keep body, jewelry or loose clothing away from moving machine parts. If not, may cause bodily injury.
11. Random modification of the machine is not allowed. Only PANTHEON accessories can be used for maintenance and modification.
12. Do not operate the machine in rainy or foggy days.
13. Ensure no explosive and flammable materials and steam nearby when operate machine. Do not operate machine near the place with fuel, grain dust, solvents, dilution agent or other flammable items.

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2.2 Operation safety guidance

1. It is strictly prohibited to operate when the electricity is less than 20%, especially on slopes, avoiding personal injury.
2. When working on the slopes, please check the battery's electricity should be more than 40%, the power supply shall not be lower than 350V and the clutch is locked.
3. If the machine must be work on slopes, it should be less than 25 degrees, the company is not responsible for any accident caused by the operation when the slope is greater than 25 degrees.
4. Suitable clothes for the job and work place are necessary, such as safety shoes, safety helmets, hearing protection, non-fogging vented goggles and dust respirator.
5. Make sure there is no oil leakage, electric leakage, water leakage on the machine before using.
6. Make sure the machine control switches and electric parts are in good conditions without moisture.
7. Make sure no obstacle or human people at working as there is enough lighting device.
8. The anti-dust tape should be installed on the machine for safety. It is necessary to connect to industrial vacuum cleaner when dry grinding.
9. The machine should be connected to appropriate electrical outlet. Only electric cables that can withstand high current is allowed.(Instruction of power cable)
10. Do not adjust handle rod while machine is in operation, it is allowed to adjust until the switch is pressed and machine is stopped.
11. The handle has different functions when in different positions, please read the manual for more information.
12. Ensure the machine is stopped and the emergency stop button is pressed when changing abrasives or accessories. If necessary, disconnect the power and the plug.

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13. Stay away from water or dangerous cargo to prevent personal injury, machine injury, or other machine and property loss.

14. Hold handle tightly, rotate the emergency switch in clockwise, then turn on the power button and start the machine.

15. Please note that the emergency stop switch can only be pressed or rotated, it is not allowed to pull upward.

16. Before operation, check the working floor and remove any protrusion to prevent machine plate and pads from damage.

17. Double check before connect the power, make sure the working voltage, HZ is same with noted input Voltage and HZ, no lack of phase of input power.(If the machine do not work normally result in the input power and working power are not same, then the warranty is not valid.)

18. Connecting with a vacuum to achieve dust free working environment.

19. Install suitable abrasive. Unsuitable abrasives can cause personal injury.

20. After installing the abrasive, it must to keep the grinding plate touch with ground directly, the operator should adjust the handle rod to upward position to a comfortable position for operator.

21. When machine inverter turns to "overload protection", it means there is something wrong in the machine(cable is too small or voltage is unstable) , if so please reference the following cable size which is recommended. Or reduce the abrasive pressure(adjust the additional weight to suitable position). If the operator keep using the machine when overload and lead to damage , it would not allow to guarantee.

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22. After few minutes of grinding, stop to check how much the abrasive used, this behavior could reduce the economic loose when using wrong polishing pads.

23. Please do not rear the machine when is still running, or the polishing pads will fly out and threat the human safety.

2.3 Electrical safety guidance

1. All circuit repairs can only be operated by professionals;
2. Note after the machine is stopped that the cables are still powered, so cut off all power before servicing the machine;
3. The machine is equipped with an overload protection device and will automatically jump off when the machine is overloaded, prohibiting the machine from running; (re-adjust this overload button in case of safety)
4. Continue using the machine under overload conditions will cause other losses and the machine may not working properly. The manufacturer does not give warranty;
5. The purpose of installing the inverter in the machine is to speed and protect the user and the machine. It is forbidden to modify or adjust the inverter and modify the inverter parameters without the manufacturer's consent. If the unit fails, it is only allowed to replace the defective parts with the accessories provided by the manufacturer; (Other changes caused by changing, adjusting or modifying the inverter parameters without the manufacturer's consent, and the machine is not working properly, the manufacturer does not afford warranty)
6. Never modify the parts or circuits inside the inverter by yourself;
7. Do not operate the machine when the distribution box is not closed;
8. If the machine current is overloaded, we should pay special attention;
8. When the cables is energized or loaded, do not connect or disconnect the wires;
9. Using a damaged power cord may result in electric shock. Do not use a damaged power cord;
10. Wires should be kept away from hot floor surfaces;
11. The dryness of all electrical parts of the machine should be maintained and the

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machine should be stored in a dry place;

12. After the power is turned off and the panel indicator light is still on, it indicates that there is still high voltage inside the inverter, which is very dangerous. Do not touch the uninsulated electrical machine parts;

13. The machine motor and the frequency conversion box are prohibited from entering the water; (the other damage caused by the water inflow then the machine is not working properly, the manufacturer does not afford the warranty)

14. The machine must be connected to the qualified wire and voltage, specifications is noted by the manufacturer. (The label on machine indicates the power supply specifications)

3. Machine Description

3.1 Overview

The HTG-820RC is used to grind (rough grind, fine grind and polish) concrete, natural stone and terrazzo floors or other materials specified in this manual or recommend by PANTHEON. It can be used in a variety of applications from rough grinding to fine polishing. This machine is expected to be used in commercial applications such as hotels, schools, hospitals, factories, offices and other places.

The HTG-820RC is equipped with a radio control, which allows remote control of the movement of the machine at a certain distance, it is feasible to complete setup changes and operations with a few buttons; the digital display on the panel allows the operator to adjust and monitor system information easily, making it easier for users to operate. It comes with a 3.5-inch digital color display.

Equipped with water tank, the machine can not only dry grinding but also wet grinding. The advantages of wet grinding are as following: the surface grounding is good, the cutting amount is small, and it is easy to emit light. It is suitable for later stone polishing. Users can choose

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water or dry grinding according to their own needs; The anti-dust tape covers the working area of grinding head. Because of floating design, it always touch the floor, which not only ensures that the operator does not touch the rotating mechanical parts, but also reduces the exposure of dust and improves the dust absorption efficiency of vacuum cleaner.

The water spray system makes the water spray more uniform and improves the grinding efficiency greatly .

The swing lever and handle can be set in many different tilted positions. When the machine is manually operated, you can choose the most suitable position. When dry grinding, to prevent dust from being exposed to air, posing a threat to the health of the operator and nearby people, make sure that the vacuum cleaner is connected to grinder (preferably equipped with a vacuum cleaner manufactured by Pantheon) Due to inhalation of dust is harmful in the course of operation, even there is a vacuum cleaner protective mask is also necessary to protect health.

The machine can use different Pantheon abrasive. Due to the different ground materials, the abrasive discs used in grinding are also different.

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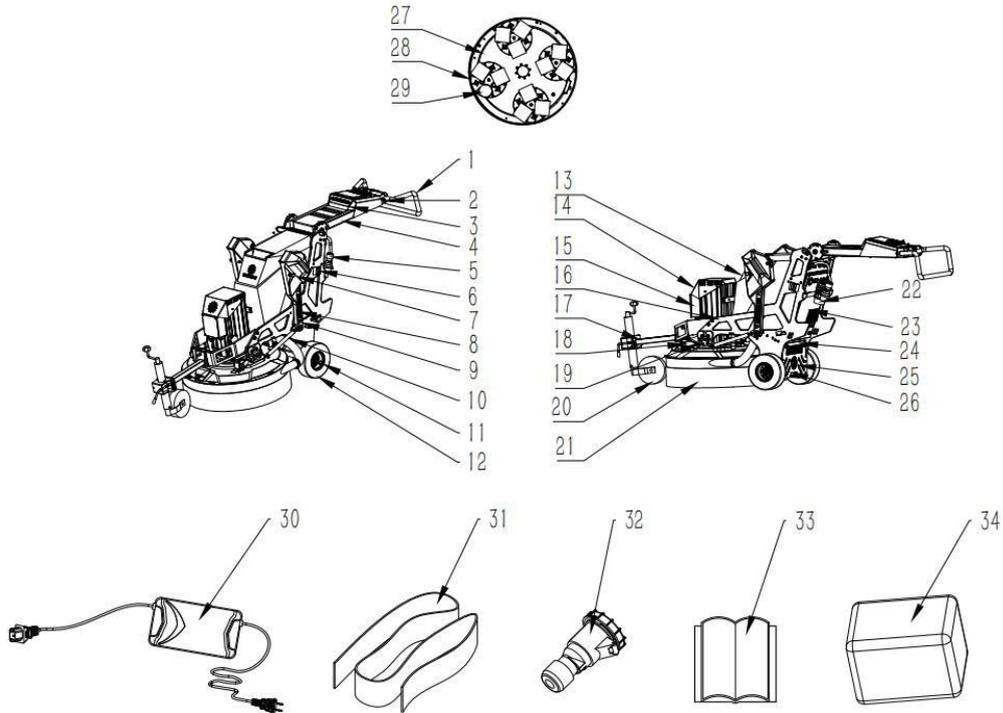
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3.2 Parts Description



1. Handle
2. Swing lever latch
3. Swing lever panel
4. Welded swing lever
5. 4-pin male plug
6. Middle fixed block
7. Reset index pin
8. Additional weight iron
9. Additional weight iron decorative plates
10. Gas spring
11. Self-locking indexing pin
12. Black rubber drive wheels
13. Water tank

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14. Motor decoration
15. Motor
16. Frame
17. Front guide wheel assembly
18. Spotlight
19. engaging lug
20. Jack wheel
21. Gearbox cover
22. Fast connector
23. Inverter box
24. Strip spotlights
25. Reducer
26. Driving motor
27. Gearbox
28. Disc assembly
29. Velcro-iron accessories
30. Charger
31. Anti-dust tape
32. 4-pin female plug
33. Manual
34. Remote control box

3.3 Swinging rod assembly

3.3.1 Overview

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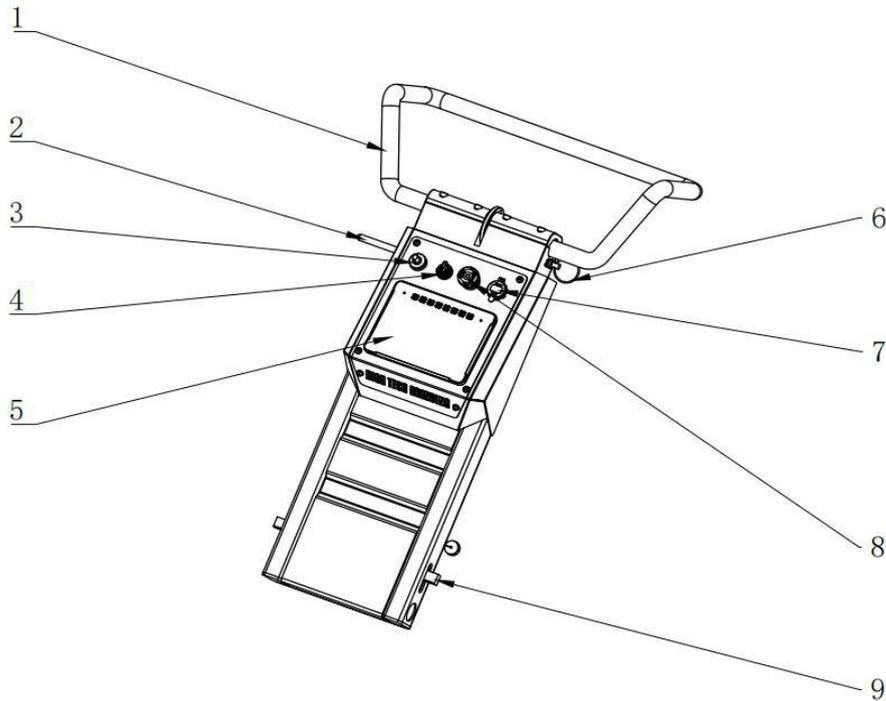
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1. Operation handle: Where people put their hands when operating the machine.
2. Swing part adjusting handle: use the handle to adjust the angle of the swing part, and there will be a corresponding position in the corresponding working state.
3. Potentiometer: It is mainly used to adjust the rotation speed of motor.
4. 3-gear knob: it has three positions correspond to the motor working direction, forward, reverse, neutral.
5. Display screen: Display some parameters, such as voltage, current, motor speed. The touch screen to adjust some basic parameters of machine according to user requirements, from which you can monitor the grinding parameters and fault prompts of machine.
6. Handle adjusting bolt: pull out the bolt and the handle can be rotated freely to the proper position to operate the device.
7. USB interface: used to charge.

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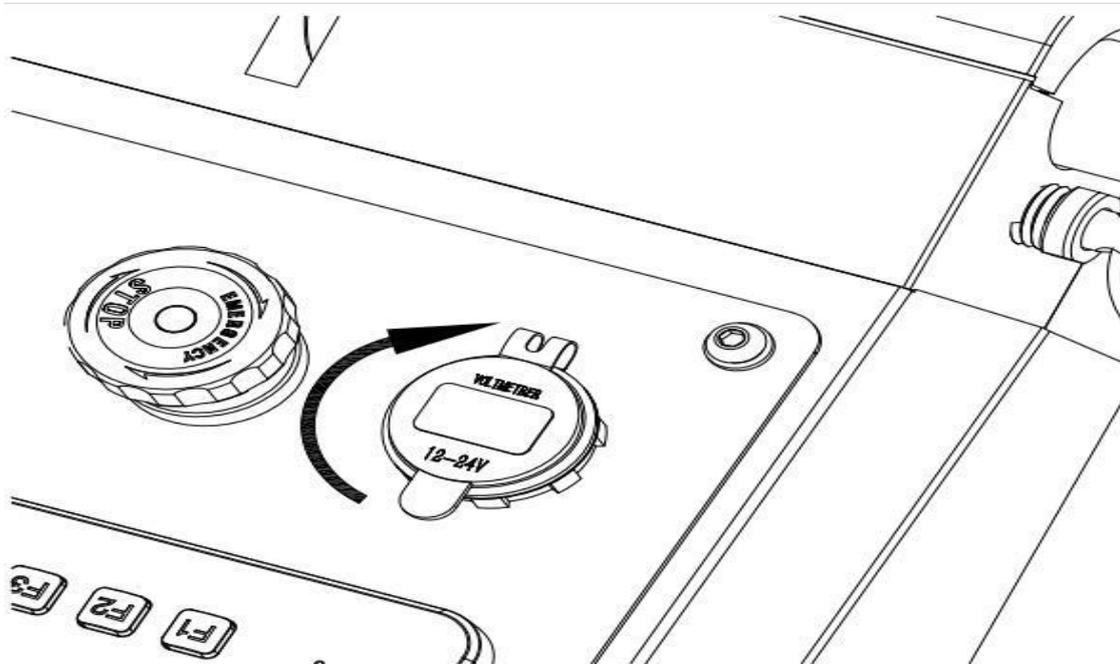
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8. Emergency stop switch: When the device is in a dangerous state or needs to stop working, press the emergency stop switch to cut off the power and stop the operation of the device to achieve the protection of personal and equipment safety.
9. Swing lever lock lever: adjust the swing lever position.

3.3.2 USB interface

There is a device on the control panel. Turning up the cover, we can see a USB interface, which can be used to charge mobile phone or other device.



Notes:

Be sure to cover the lid when it is not charging. To prevent dust from entering, plugging or damaging the USB interface, do not expose the USB outside.

Note: The voltage will be displayed on the lid

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3.3.3 Display screen

(1) Overview

The display can be operated by pressing buttons

The text displayed in this instruction is described in English, the language can be selected

in the product.

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(2) Display interface

In manual mode, all keys can be operated:

Press the F1 key and the display will appear (as shown below)

1. The speed of the grinding disc drive motor;
2. Working hours;
3. Walking speed;
4. Voltage



Press the F2 key and the display will appear (as shown below)

1. Technical parameters of grinding motor (voltage, current, temperature, speed, fault code);
2. Technical parameters of left-travel motor (voltage, torque, temperature, speed, fault code);
3. Technical parameters of right walking motor (voltage, torque, temperature, speed, fault code);

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Press the F3 key and the display will appear (as shown below)

Press F3 to display the remaining maintenance time. After the maintenance is completed, press and hold the F3 key for 3 seconds to reset the maintenance time;

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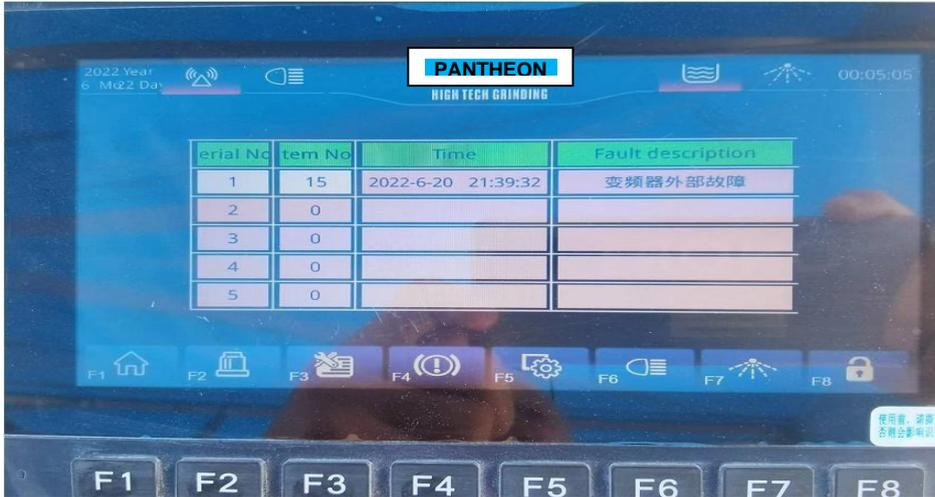
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Press the F4 key, the display will appear (as shown below)

if there is a failure during the operation , the details of failure will be displayed on it.



Press the F5 key and the display will appear (as shown below)

1. language selection (0 Chinese, 1 English, 2 Korean,,,,,);
2. Brightness (adjusted with numbers);
3. Maintenance count coefficient (displayed in 100%);
4. System time;
5. left shift;
- 6.right shift;
- 7.plus (click to add);

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8.minus (click to subtract);

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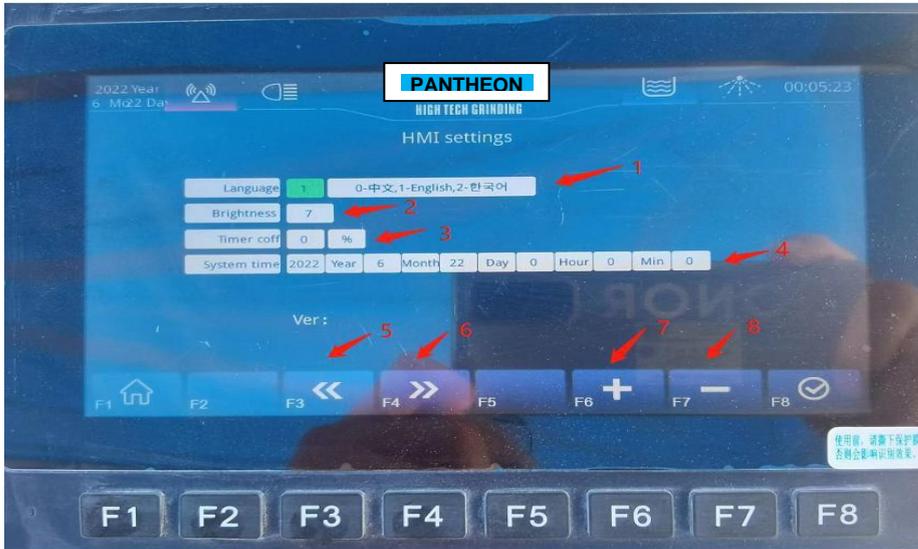
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F6 key is used to control LED lights/spotlights;

F7 key is used to control the front spray;

Press the F8 to get the authorization

When the device is locked, press the F8 key to send the application code that appears to our company, and our company will send the authorization code to the customer.

After the customer enters the authorization code, the device will work normally again.

1. left shift;

2. right shift;

3. plus (click to add);

4. minus (click to subtract);



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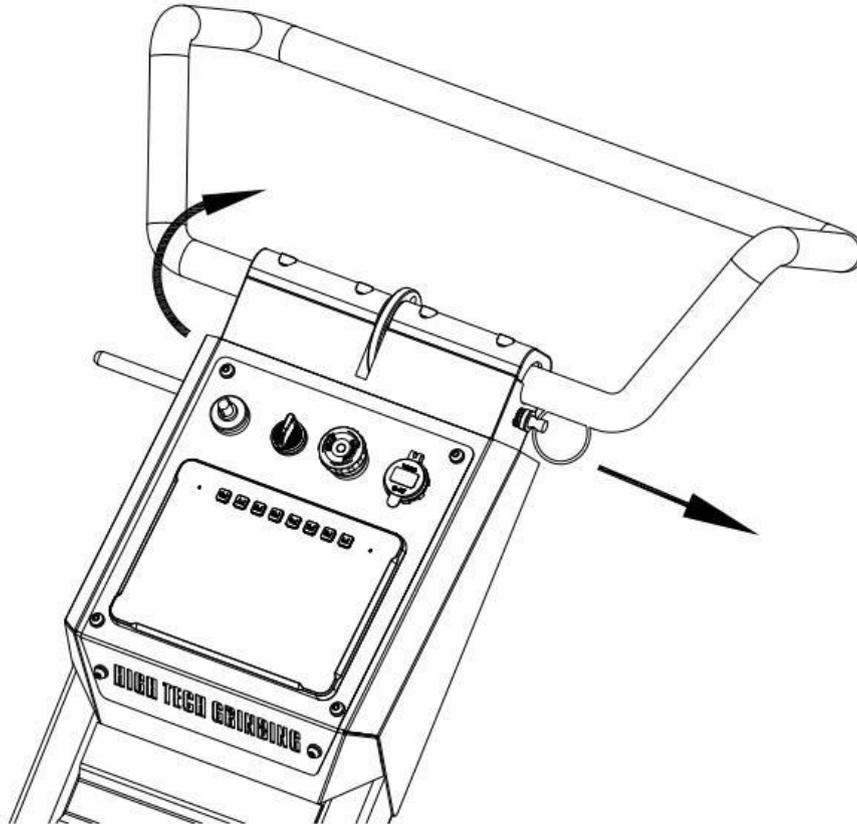
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3.3.4 Handle

The handle adjusting bolt can be positioned at different round hole, so as to adjust the position of handle to meet different needs of users. Hold the handle with one hand, pull out the adjusting bolt with the other hand, then release the adjusting bolt when it is rotated to proper position.



Note:

1. When plugging out the pin, sometimes it will be caught, and the pin can be pulled out by shaking the support wheel.
2. When the handle adjustment bolt is automatically reset, the hole may not be aligned, just rotate up and down
3. When adjusting the position of the handle, please check whether the handle adjustment pin has been automatically reset before operating the machine.

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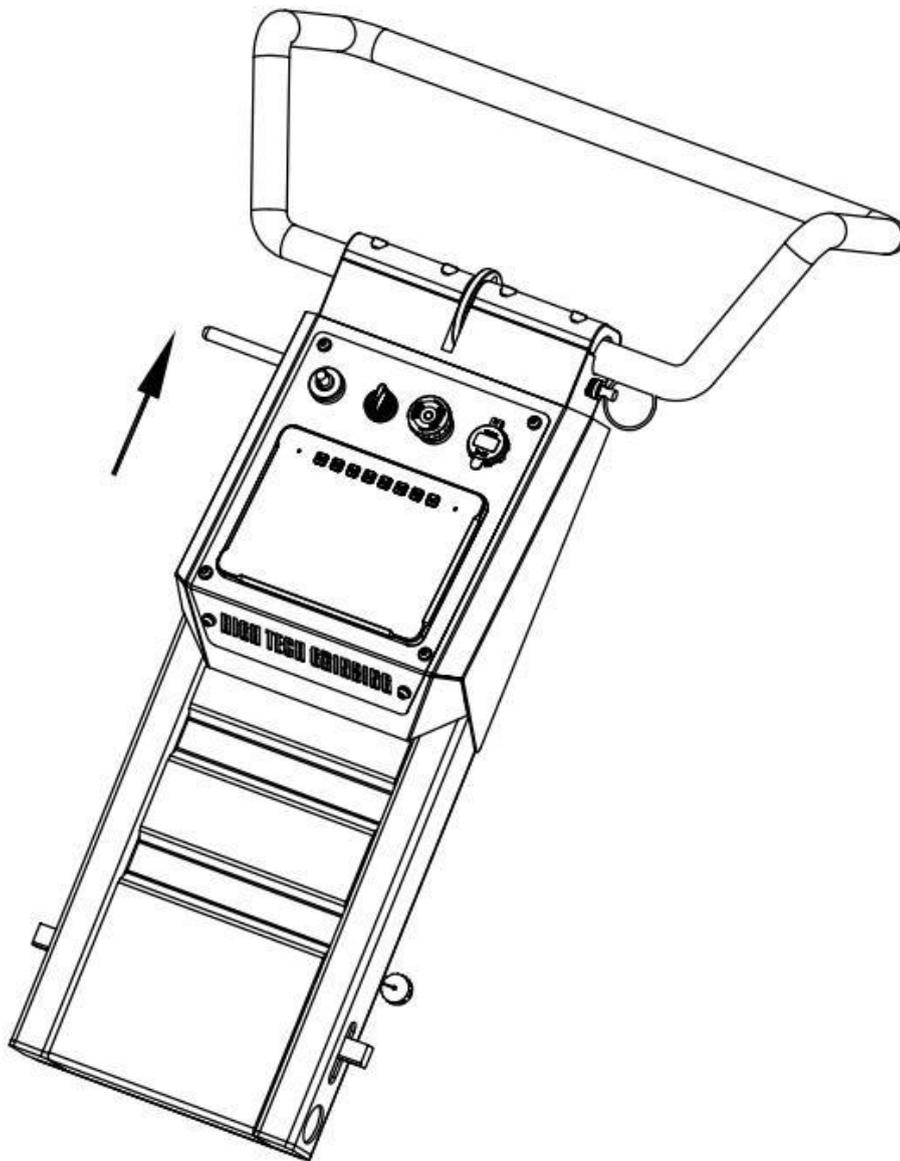
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3.3.5 The angle adjustment of swing lever

Use the swing lever position adjusting handle to adjust the position of swing lever to realize conversion of the machine placement mode in different states. Hold the handle tightly with one hand to support the swing lever, turn the other hand counterclockwise and press down the adjustment handle, rotate according to the hole location on sector plate, and release the adjusting handle when it reaches required position.



Note:

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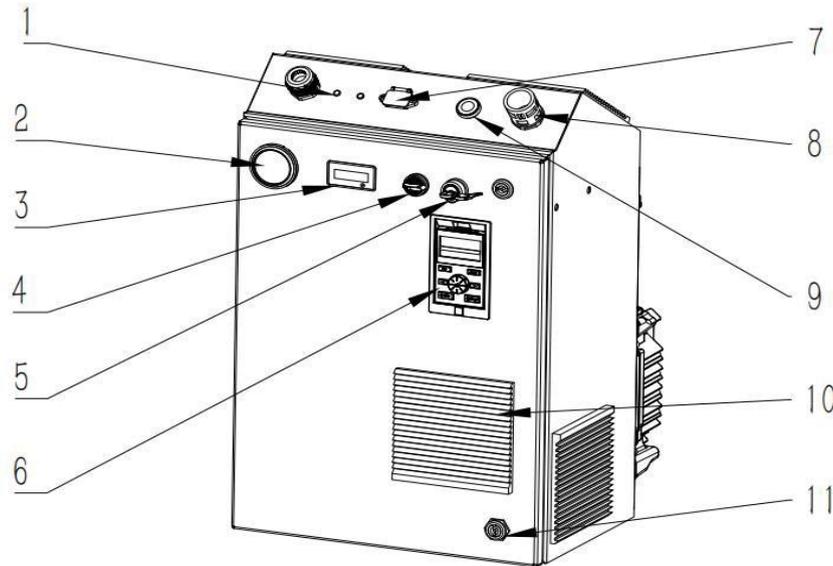
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After adjusting the position of the swing lever, it is necessary to check whether the swing rod has been limited before operating the machine.

3.4 Main electric cabinet



1. Indicator light: connect with external power supply (380V indicator light).
2. Timer: shows the total running time of the device.
3. Battery indicator: Mainly shows how much battery power is stored in the machine.
4. Two-gear knob: remote and manual switching
5. Key switch: start the DC power supply;
6. Veichi AC300 keyboard: adjust parameters;
7. Reserve battery charging port: The reserve battery can be powered by an external power source.
8. Corrugated pipe connector: used to connect wire.
9. Start button: Start the reserve battery to supply power to machine.
10. Fan filter: prevent the internal temperature of the inverter box from being too high

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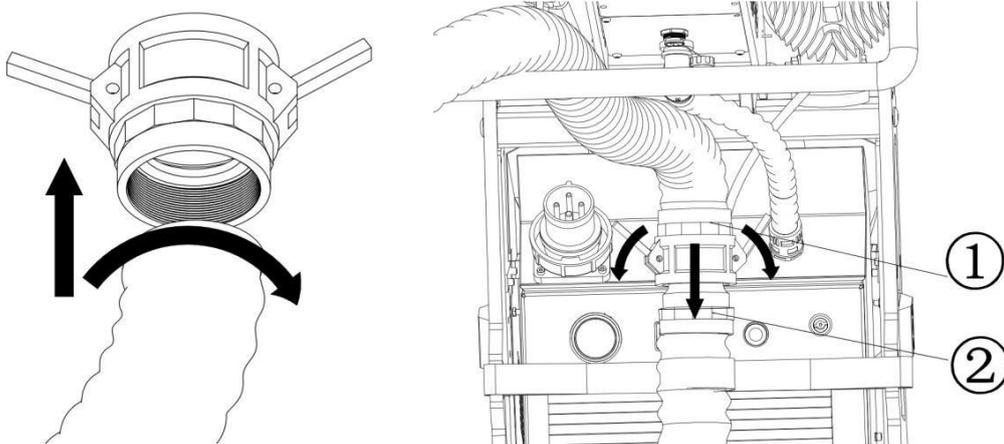
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11. Main electric cabinet key lock: used to lock the electric cabinet.

3.5 Fast connector

Fast connector consists of front and rear part (As follows), the front part is usually assembled with the vacuum nozzle of the grinder (screw the front part into the vacuum tube connection and screw it tightly), the rear part is matched with the vacuum tube (Screw the copper wire suction tube into the back and tighten).



① Front part ② Rear part

3.6 Water tank

There is a water inlet in front of the water tank. The heat dissipation openings on both sides of the water tank make the heat dissipation of the inverter box of the equipment faster, and can extend the service life of the electrical appliances inside the inverter box.

In the manual water grinding , press the front spray switch in the display (F7)(as shown in Figure 1) to spray water in front of the machine; Rotary the water switch , and the machine chassis will spray water for water grinding(as shown in Figure 2).

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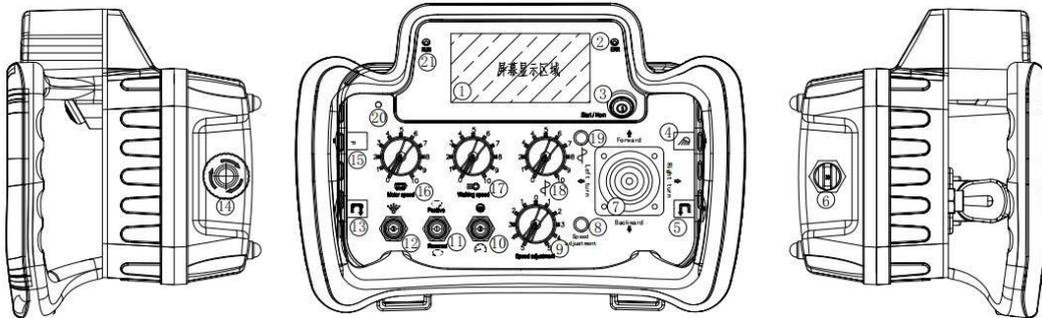
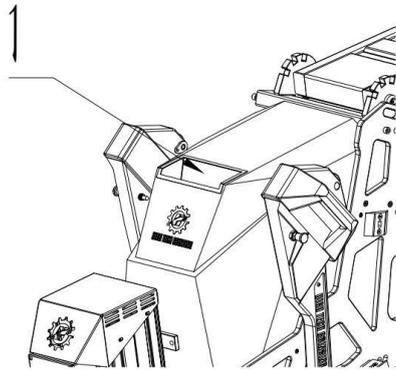
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① Water inlet ② (No. 12 on the remote control) Front spray switch



Figure 1

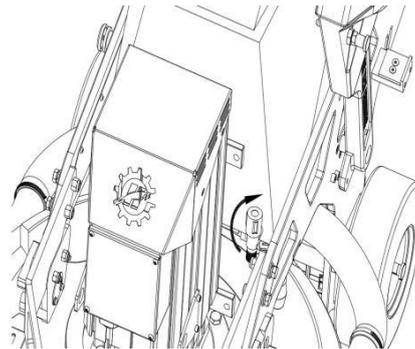


Figure 2

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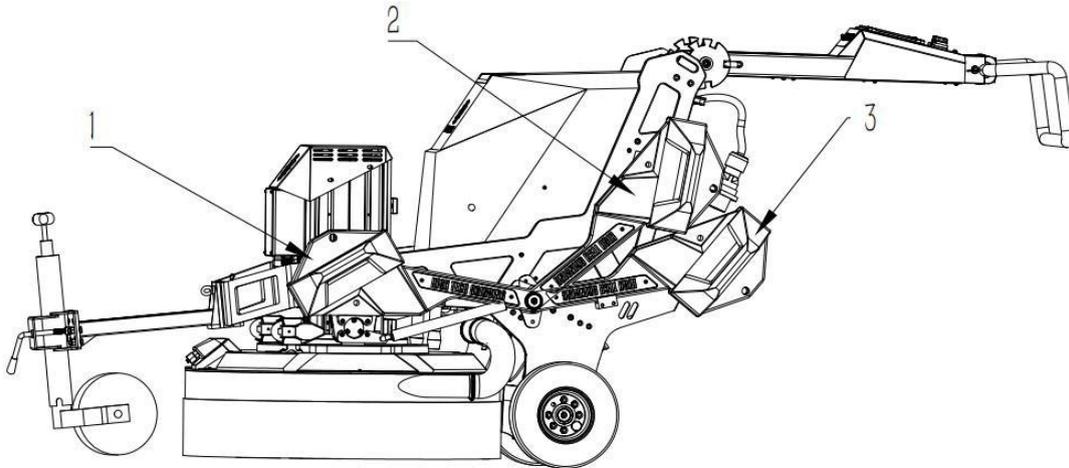
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3.7 Additional weight iron

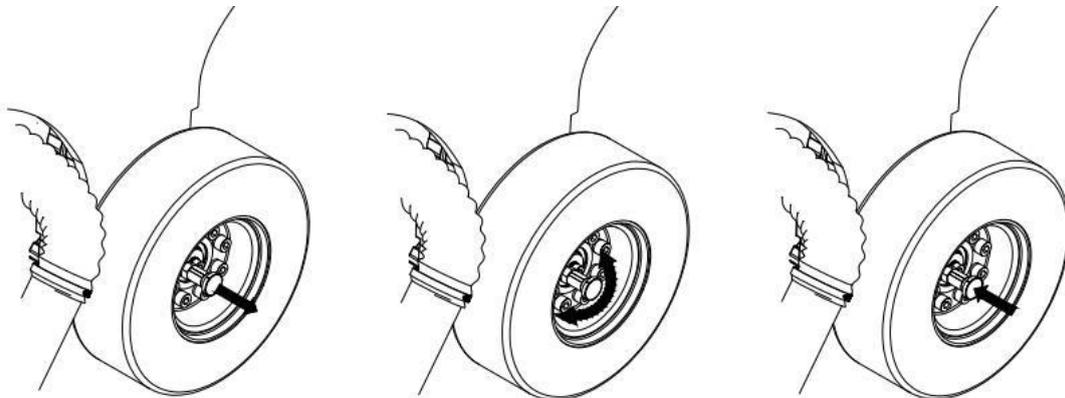
There are three positions for the additional weight iron: transporting, tilting, and working position. The adjustment and limit of the extra weight is mainly achieved by spring pin and limiting device on frame.



① Working position ② Transporting position ③ Tilting position

3.8 Clutch

Clutch lock: pull the clutch outward, then rotate the clutch 90 degrees, then pushes it inward;



Clutch release: Turn the clutch outward and rotate it 90 degrees.

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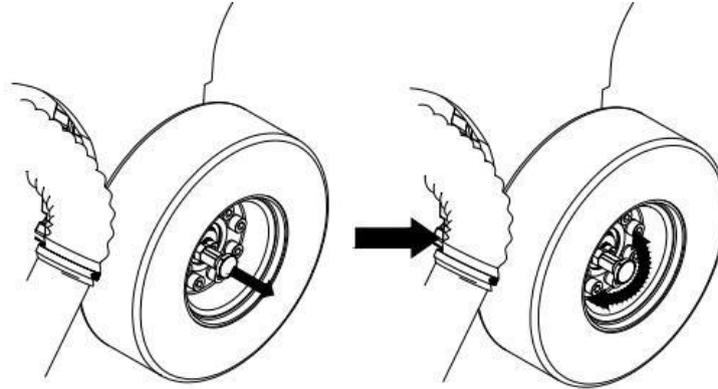
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Note:

1. The clutch may be stuck sometimes when you try to pull out, shake the machine in this case.
2. Rotate the clutch to proper position when grinding. Be sure to limit the clutch pin before working. If the clutch pin does not automatically bounce back, it will bounce back automatically when the wheel is moving on ground.

3.9 Supporting wheel

1. Disassembly of supporting wheel

Assembled the supporting wheel before walking transportation, which can make the steering of grinder smoother. During transporting, sometimes it is necessary to move the machine forward and backward, so it will be more convenient and labor-saving to install the supporting wheel to achieve the movement of grinder. Remove or invert it when grinding.

Remove the supporting wheel: press the emergency stop switch, unplug the power plug, unravel the R-shaped split pin, remove the locating pin outward, and move down to take out the supporting wheel,

Install the supporting wheel: press the emergency stop switch, unplug the power plug, align the support wheel with the pin hole on front wheel support frame, then insert the wheel into the positioning, insert the R-type cotter pin, and fix the locating pin.

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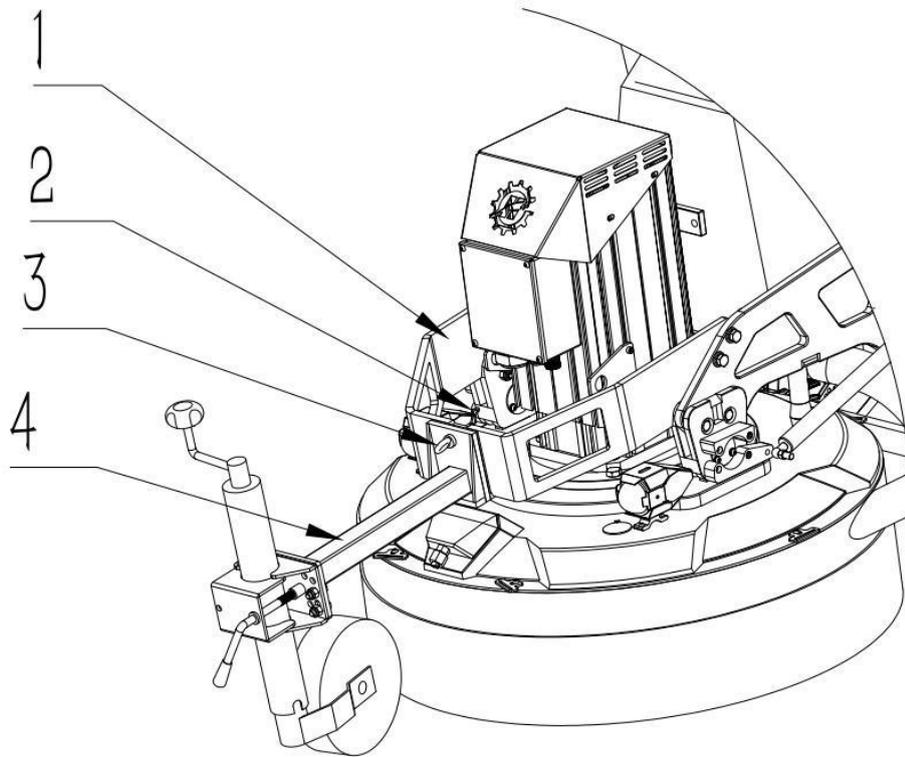
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①Front wheel supporting frame ②R-type cotter pin ③locating pin ④Supporting wheel

Note: When the pin is pulled out, it may get stuck. Just shake the supporting wheel and pull out the pin.

2 .The lifting and lowering of supporting wheel

The support wheel can be lowered by rotating the handle of the support wheel and raise the grinding device from the working area.

Note:

In the process of transportation, it would be better to remove abrasive in advance to prevent from falling and losing. If lose, manufacturer will not provide compensation..

During rotating and rising, please tighten the lock handle to supporting axle, and then adjust lifting of the support wheel. The handle rotation direction: left to loose, right to tight.

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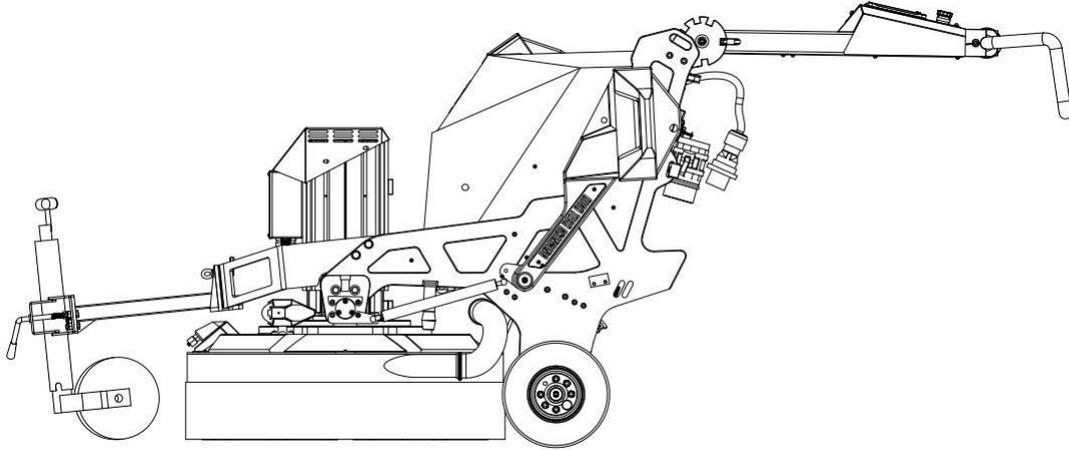
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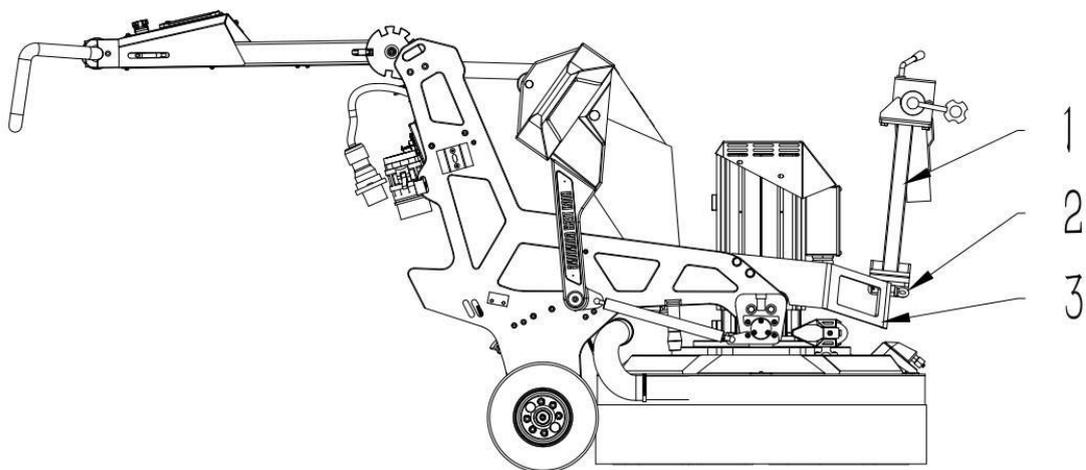
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3. The flip of supporting wheel

1. Unlock the R-type cotter pin, remove the positioning pin in both sides (Part No.2)
2. Then attach the support wheel (Part No. 1) to the front wheel support frame (Part No. 3) in the direction of rotation.
3. Insert the locating pin into the r-type cotter pin and fix the locating pin.



① supporting wheel ② locating pin ③ Front wheel support frame

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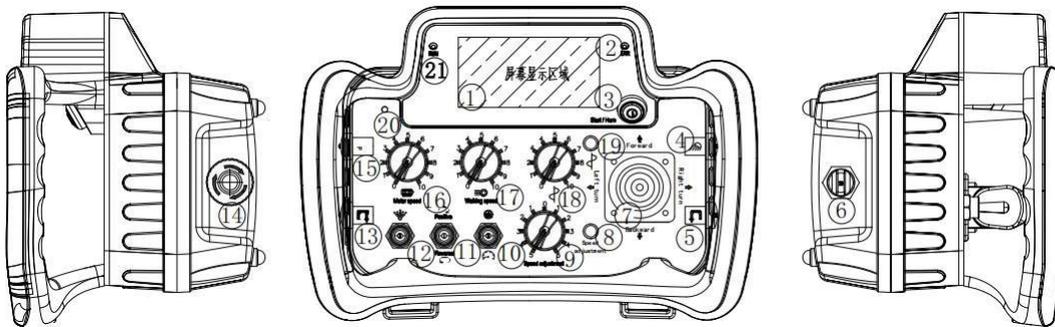
Note:

The support wheel must be lowered to the lowest position before it can be turned over.

When the plug is pulled out, it may be stuck. Just shake the support wheel and pull out the bolt.

4. Remote control device

4.1 Remote control - control panel



1. The display: mainly shows some parameters, such as voltage, current, motor speed, overload fault prompts.

2. Transmitter power indicator: When the battery voltage is low, the indicator light



is green. Please replace the battery within 20 minutes.

3. Start button: used to open the remote control with the emergency stop switch.

4. Spotlight switch: Control the switch of the lower spotlight of the inverter box.

5. Turn left with one button: Press to realize the left turn of the machine.

6. Power switch: controls the power supply.

7. Direction control rocker: control the machine forward, backward, left turn, right turn.

① Push the direction rocker forward gently and the machine will walk at the speed set on the walking speed governor.

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② Push the direction rocker backwards gently. The machine will walk backwards at the speed set on the walking speed governor.

③ Push to the right and the machine will walk to the right at the speed set on travel governor.

④ Push to the left and the machine will go to the left at the speed set on travel governor.

⑤ After the machine is turned, reset the joystick and the machine will move according to the forward or backward command set in the previous step.

⑥ machine walking speed: 0-30m / min.

8. Speed adjustment status indicator: When the speed adjustment switch starts normally, the indicator light is green.

9. Left and right wheel speed adjustment switch: Ensure that the machine performs linear grinding. When the machine is slightly offset from the straight line to the right (to the left), turning the switch to the left will reduce the speed of the left wheel and make the machine to the left (right). Offset, keep the straight path.

10. Ordinary remote control / fully automatic grinding mode switch: when you press down, the machine is in the normal remote control mode, when you pull it up, the machine is switched to the fully automatic grinding mode.

11. The motor rotating reverse rotation switch: There are three gears in the switch: the forward push is to control the motor to rotate forward, the middle one is the motor does not rotating, and the backward push is to control the motor reverse.

12. Front spray switch: control the opening and closing of the front sprinkler head of the disc cover.

13. Turn right with one button: Press once to realize the right turn of the machine

14. Emergency stop switch (located in the lower part of the fuselage): open or interrupt the use of radio control, let the machine stop working.

15. Brake switch: The drive wheel brakes instantly.

16. Motor speed adjustment switch: control the speed of the grinding disc drive motor.

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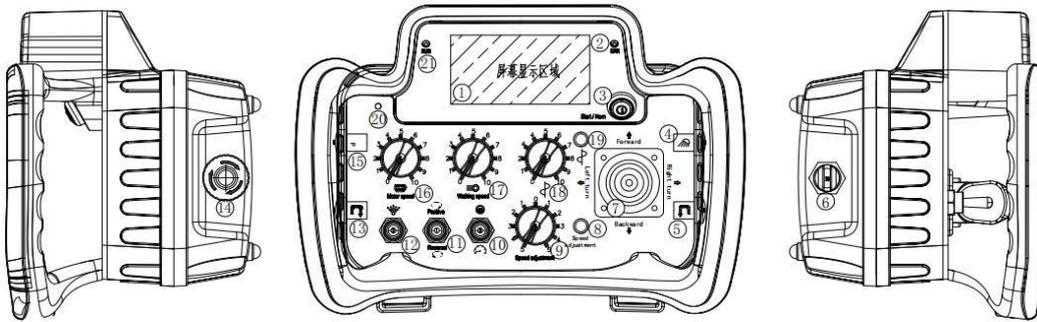
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17. Drive wheel speed adjustment switch: control the speed of the machine walking.
18. Offset adjustment knob.
19. Offset adjustment indicator: When the offset adjustment starts normally, the indicator light is green.
20. External antenna: used to receive control signals
21. Running lights

4.2 One-click turn



During grinding operation, when the A machine is linearly polished to turn, you can press the No. 13 button to turn right (or press the No. 5 button to turn left according to your own needs) to as moving as B machine. Grinding while turning, finally polishing in C machine state.

Note: The U-turn point is between the two rear wheels, 40cm of space should be reserved at the front end when making U-turn. It is not recommended for beginners to use one-button U-turn when they are close to the wall.

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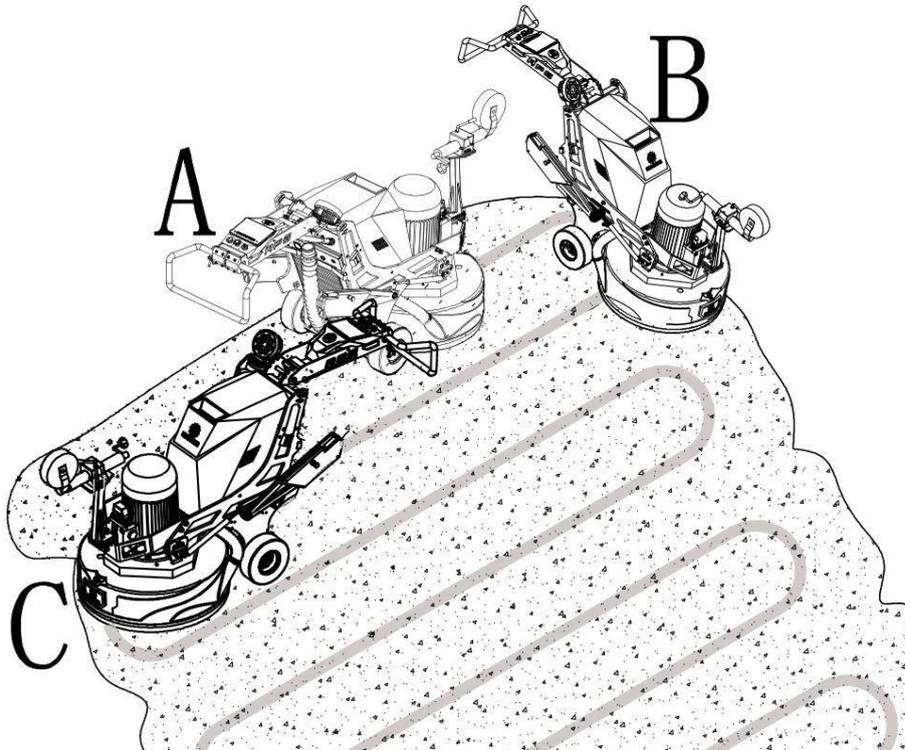
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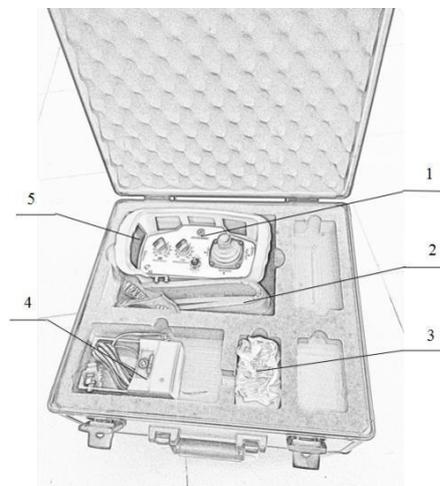
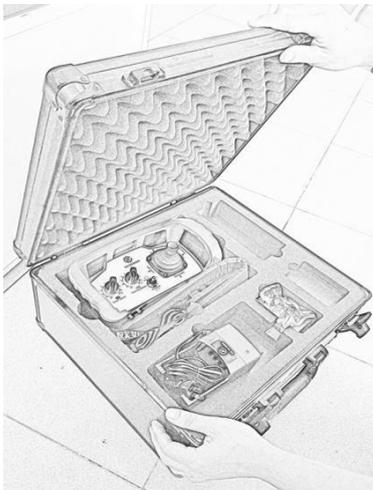
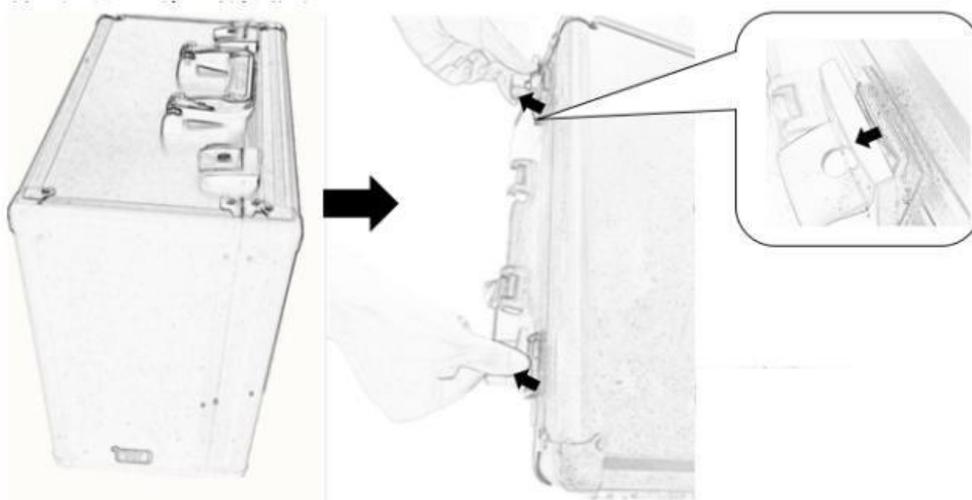
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4.3 Remote control device box

4.3.1 Overview

Place the box on floor steadily, open it, and hold the cover with your hands, then you will get the parts you need. The parts inside are as follows



1. Remote control
2. Belt
3. Battery
4. Charger
5. Key for remote control box

Note:

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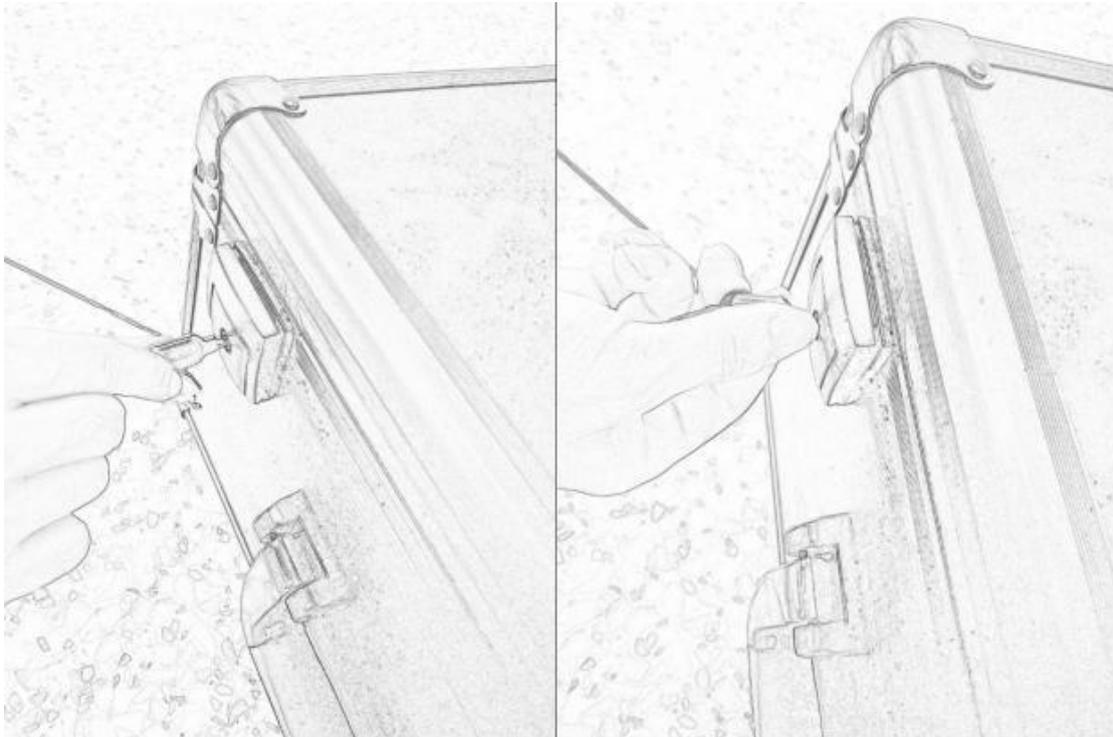
Please pay attention to get the parts only after you place the box onto floor or table steadily.

Wear the protective gloves and insulation shoes during operation.

4.3.2 Lock the remote control device box

For your property and carriage safety, we place the locking device in the remote control box. The key is in the bottom of the remote controller, please check when you receive the machine.

When locking, please insert the key into the keyhole outside the box to lock it clockwise. Rotate reversely when unlocking.



Precautions:

1. When locking, be sure to ensure that the lock is successful. At this time, press the switch to open the box. If it does not move, it means that the lock is successful. Do not use too much force when you are sure to make sure that the locking device is not damaged.

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2. When locking, do not use too much force on the rotating key to avoid breaking the key.
3. Pay attention to the key storage, do not lose.

4.3.3 Use of the remote control

The installation of remote control battery: Please check the Battery Percentage before installation, to avoid the Battery Percentage is not enough to affect normal use; when installation, please pay attention to the battery direction, and ensure to install battery reliable ; remove the battery without using the remote control for a long time

Location of the remote control: The remote control should be placed in a safe and conspicuous position to prevent it from falling and being damaged.

Turn on the remote control: Put the fully-charged Lead-acid battery into the battery compartment, pull out the emergency stop switch on the remote control, long press "start", the green light is steady and the remote control is on when the green light flashes once per second.

Turn off of the remote control: Press the emergency stop switch of the remote control, the power indicator is off, and the remote control is turned off.

Power indicator: The green light flashes for one second to indicate that the remote control is working normally; the red light flashes once every second, accompanied by a buzzer sound, indicating that the remote controller battery voltage is insufficient; the traffic lights flash alternately, indicating that the smart key is not recognized; traffic lights If it is always on, it means that the high frequency module is not recognized.

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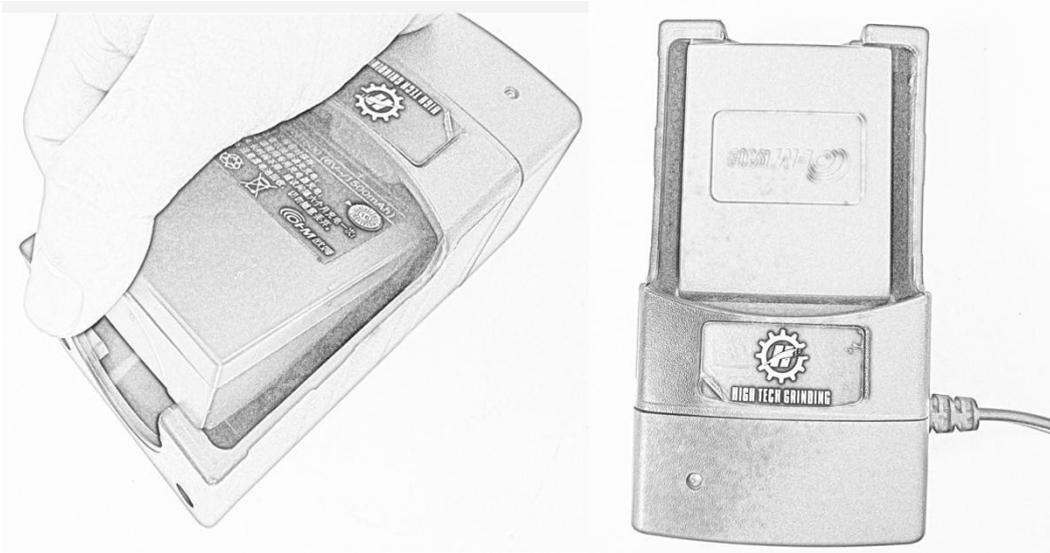
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4.3.4 Use of the charger



Follow the signs on the charger to input the correct voltage.

Put the rechargeable battery in the charger:

The indicator light of the charger changes from steady green to steady red indicating that the charger is normal.

The charger indicator changes from steady green to flashing red, indicating the battery is over-discharged, the charger is in the trickle charge state. After a short time, the indicator light change to steady red, and the battery is in the normal charging state.

The red light flashing means the rechargeable battery is faulty and the battery needs to be replaced.

After the charge is completed, the indicator light changes from steady red to steady green.

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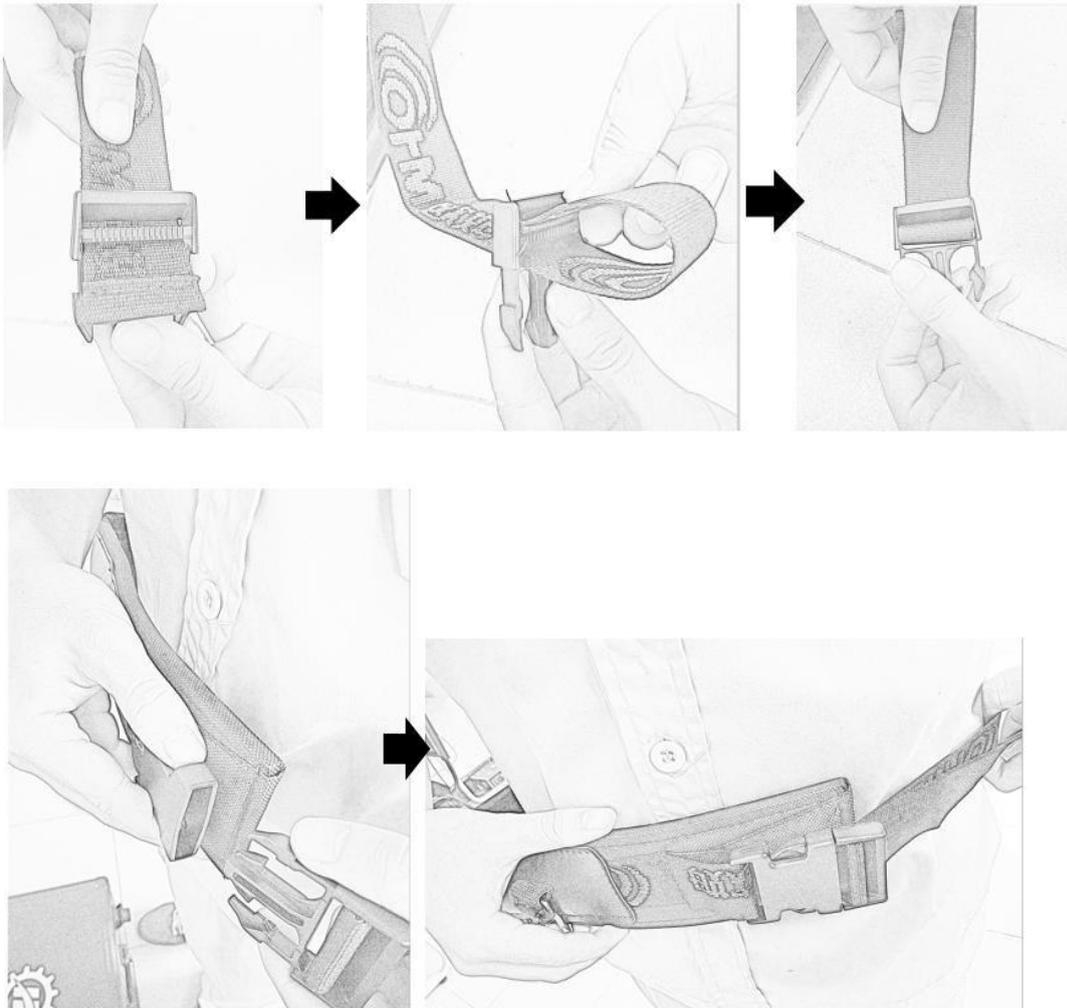
Be sure to confirm the charger voltage.

Make sure that the rechargeable battery is fully inserted in the charger.

If the charging is not completed after more than 4 hours. Please check it if the charger or battery is in normal working or not

4.3.5 The way how to bind remote controller belt

Take out the belt of the remote control and tie it to the lower side of the remote control (as shown in the picture). Tighten both sides and fasten it around the waist. Tie the belt and adjust the tightness



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5. Transportation

The transportation of this machine is divided into two types that is manual and automatic. It can be operated without any out power during transportation, and can rely on the storage battery in the machine.

5.1 Manual transportation

1. Rotate and lower the support wheel to raise the grinding machine from working area. It is recommended that the lowest position of the grinding disc is 25mm from the ground;
2. Unlock clutch: pull the clutch outwards, and then rotate by 15°-75°;
3. Push the machine by handle.

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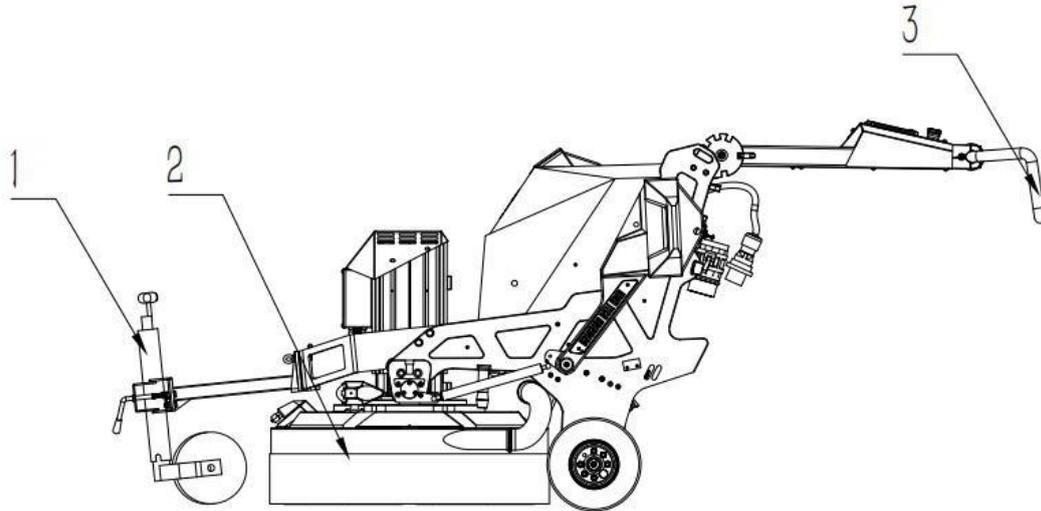
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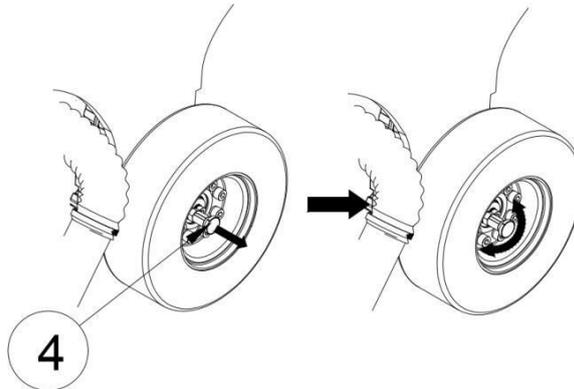
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① Supporting wheel ② grinding disc ③ handle



④ clutch pin

Note:

1. When the clutch pin is pulled out, it may get stuck. Just shake the machine and pull out the clutch pin.

2. Pay attention to your own safety when lifting the machine, be sure to do no more than you can.

3. Take out the grinding pads to prevent it drops and lost before transport, resulting in unnecessary losses.

4. When using manual push mode, the clutch must be unlocked.

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5. Using hand-push way when clutch device in the locked state, will result in the drive motor damage!

6. When rotating the support wheel, remember do not to rotate to the highest position, to prevent the support wheel off lead and the final hole is not aligned well.

7. Rotating the support wheel, it is necessary to always pay attention to the height of the grinding disc from the ground, which can not be too low to prevent the disc shaking lead to collision with the ground, damage the disc; it is recommended that the disc minimum position is 25mm from the ground.

5.2 Remote control transportation

Rotating supporting wheel handle can lower the support wheel to raise grinding device from the working area, it is recommended that the lowest position of the grinding disc is 25mm from the ground;

1. Lock the clutch: Rotate the clutch by hand until the clutch stuck;
2. Reset the emergency stop on the swing lever control panel;
3. Press the power button on the electric control box (green button);
4. Select the remote control mode by turning remote/manual mode switch on the machine display;
5. Control the walking speed and directions of machine by remote control device.

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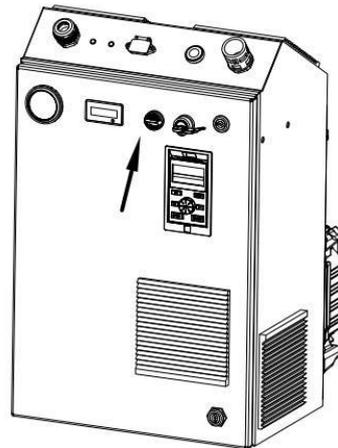
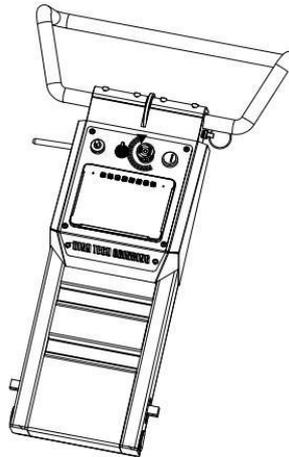
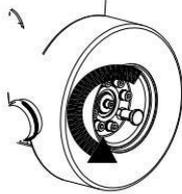
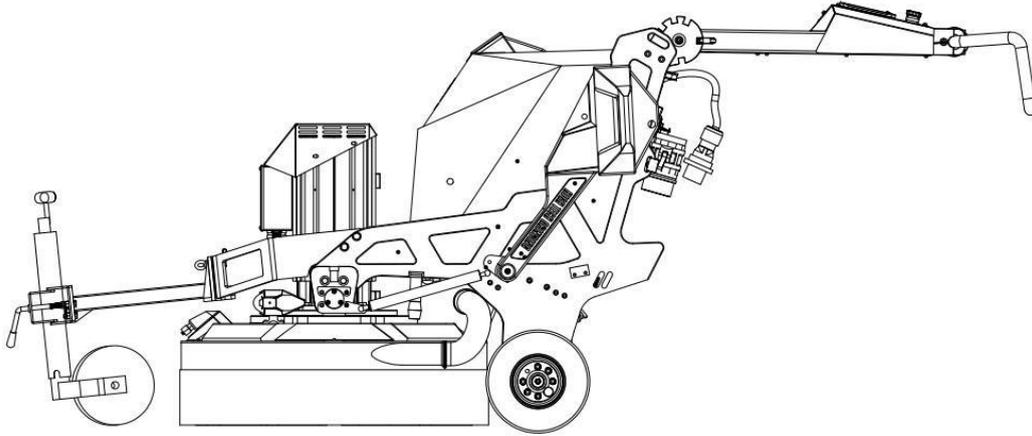
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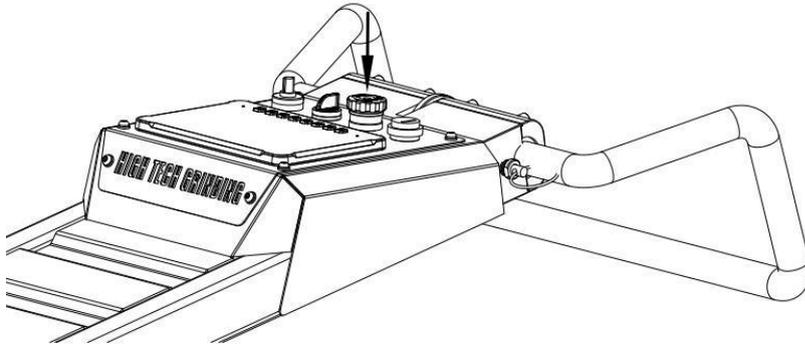
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Note:

1. The emergency stop switch should be screwed or pressed, and cannot be pulled.

The manufacturer does not compensate for any loss caused by improper operation.

2. Take out the grinding pads to prevent it drops and lost before transport, resulting in unnecessary losses.

3. Pay attention to the power of the remote control device and the reserve battery during operation. When using the self-contained battery, the walking speed should not be higher than

4. During the operation, the direction control switch on the remote control device can be easily dialed.

5. Be extremely careful when polishing or transport on slopes (up to 17° slope).

6. If it is a steep slope, make sure to use a winch. Do not stand behind the machine.

7. When the remote control device indicates that the battery is low (when the red light on the electrical control box is on), avoid moving the machine up the slope.

8. When moving down the slope that the machine should be driven slowly in the reverse direction.

9. When moving up the slope, drive the machine slowly.

10. When rotating the support wheel, do not to rotate to the highest position to prevent the support wheel from falling off and the hole position is not aligned properly.

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11. When rotating the support wheel is always pay attention to the height of the grinding disc from the ground and not too low. When it is too low that the grinding disc will cause collision with the ground and damage the grinding disc.

5.3 Transportation and storage

- Be extremely careful when moving a machine in manual mode or on a ramp. Even small tilts can create large forces that can't hold the machine by hand.
- The machine should not be lifted by the handles, motors, frames or other parts of the machine. Please transport the machine securely on the pallet/slide.
- Never attempt to lift the machine if it is not possible to use mechanical means such as a crane or forklift.
- If the machine is not parked on a pallet or bracket, do not use a forklift truck to lift below the planetary grinding head. Such behaviour may cause irreparable damage to the machine's discs and other internal components.
- During transportation, please fix the machine firmly to avoid damage or accidents.
- The machine should be covered during transportation, especially in rain and snow.
- During transportation, the grinding device should be placed on ground with a tool plate installed to protect the locking mechanism.
- Store the machine in a lockable area to prevent contact with children or unauthorized persons.

5.4 Machine location description

5.4.1 Machine working position

During grinding, adjust the additional weight iron, swing lever and handle to working position. Then, pull the clutch pin out and flip up or remove supporting wheel.

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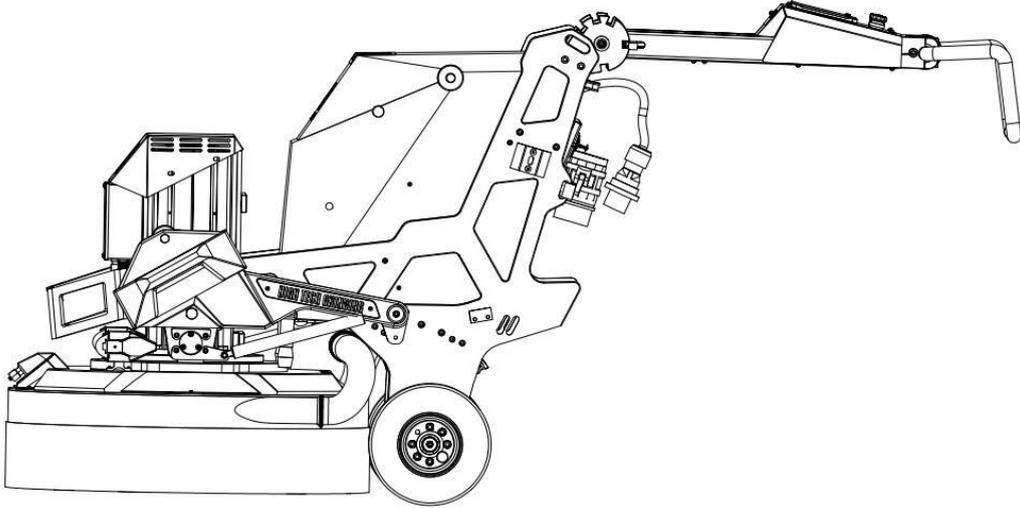
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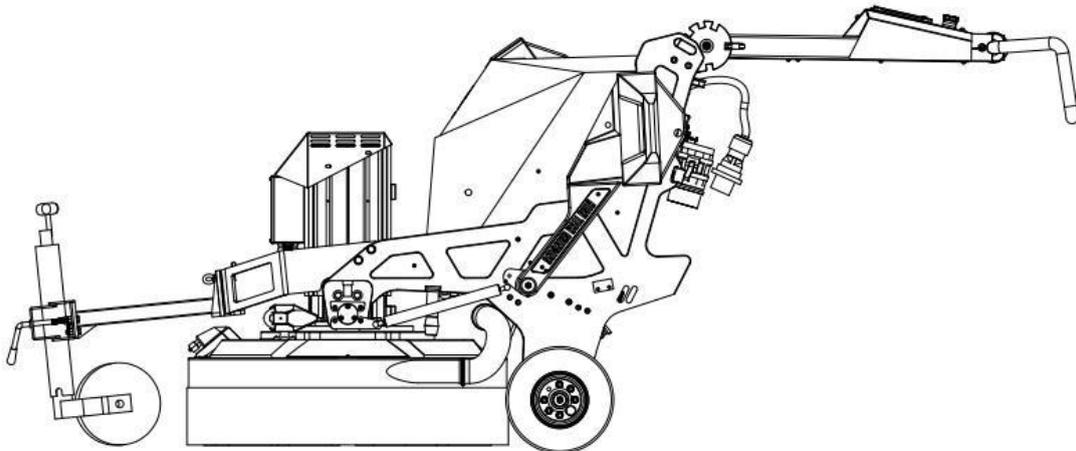
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5.4.2 Machine carriage position

During transportation, adjust the additional weight iron, swing lever and handle to the transport position. Then, pull the clutch pin out. Lower and rotate the support wheels to lock, adjust the height of the support wheel so that the disc is off the ground for easy transportation.



Note

Do not rotate the support wheel to an excessive position to prevent it from falling off,

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which may cause dangerous accidents;

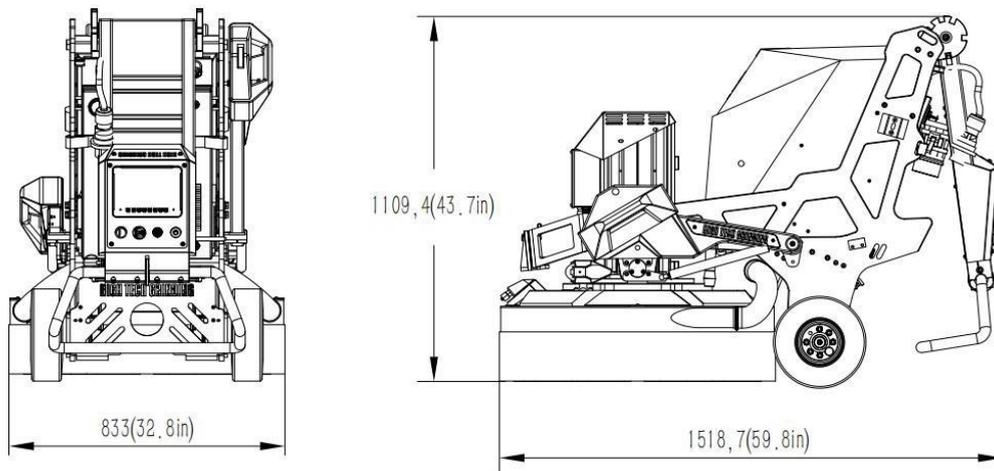
When rotating the support wheel, always pay attention to the height of the grinding disc from the ground. Be careful not to make the grinding disc too low. When it is too low, the grinding disc will cause collision with the ground and damage the grinding disc;

Rotate and lower the support wheel to raise the grinding machine from the working area. It is recommended that the lowest position of the grinding disc is 25mm from the ground.

5.4.3 Machine package position

Adjust the position of the swing lever, foot pedal and handle to the packaging position.

The minimum package size is as follows and the machine can be packaged according to the specific size.



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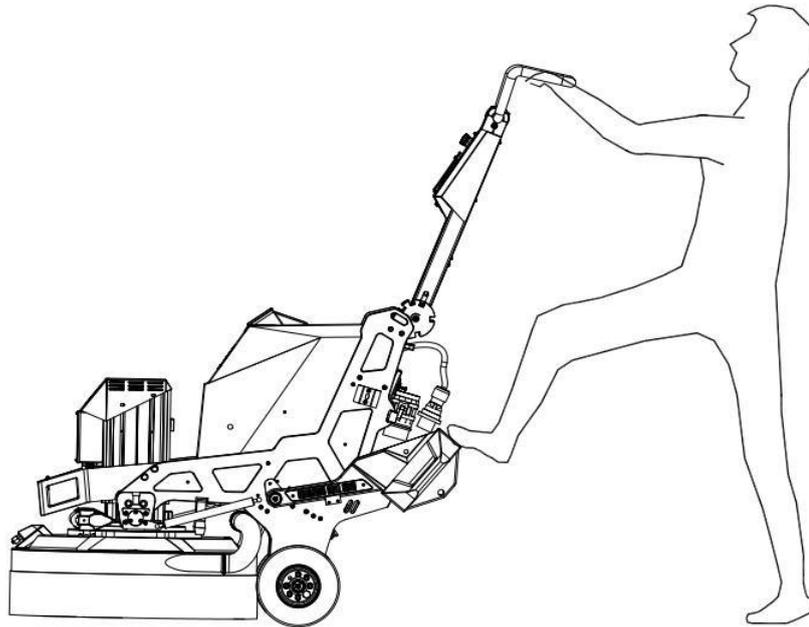
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5.4.4 Machine lift up position

Adjusting the bolt of the extra weight so that the extra weight is in tilted position, and adjust the handle, pedal and swing lever position to the lifting position. (Recommended best lift up position)

Hold the handle with both hands and place one foot on the additional weight to force the machine down.



To put the machine down, you need to hold the handles tightly with both hands. Place feet on the handle of the extra weight iron lifter, balance the machine with your own gravity, and slowly lower it to protect the grinding head. When you put down the machine, pay attention to your own strength, and do your best to ensure the safety of the machine and the person. PANTHEON company does not assume any responsibility for machine damage and personal injury caused by improper operation.

Note:

After lifting up the machine, remember to stand next to the grinding head, slightly press

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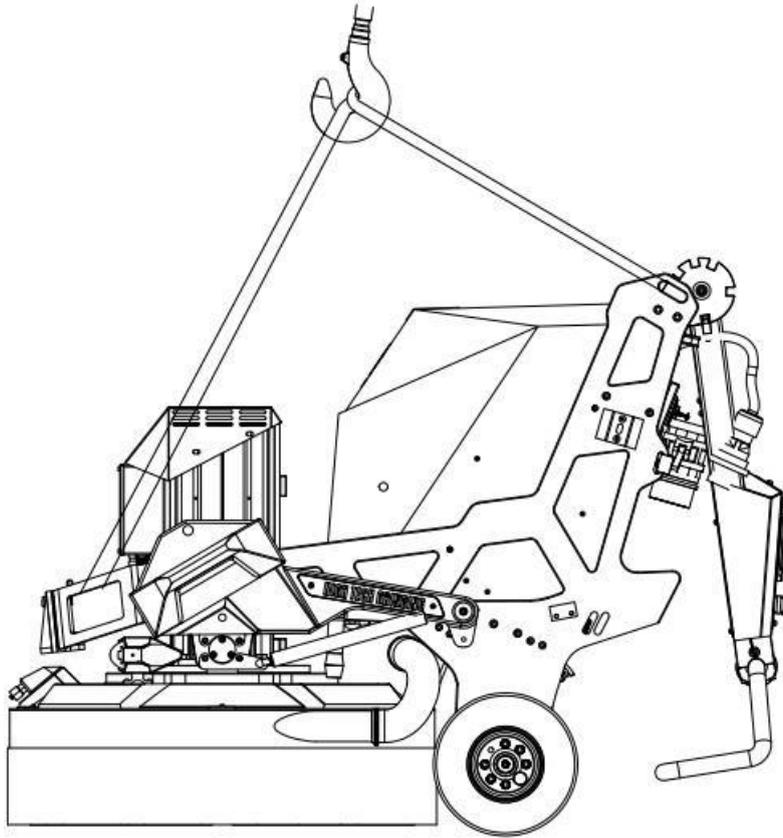
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the grinding head to see if the machine is stable for personal safety.

The support wheels can be turned over or removed.

5.4.5 Lift the machine

Tie the lifting strap tightly to both the two lugs, one is next to the motor and the other one next to the anti-dust tape .(Note: you need to use two ropes that can withstand 500 kg to bind the machine.



Note:

1. When lifting the machine, it may cause personal injury or damage to the machine and surrounding objects. Make sure that no one is present in the danger zone during the lift.

2. After the rope is fixed to the lifting hole, you should also check whether it is firmly fixed.

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3. The two ropes need to be diagonally connected to the lifting mouth.

5.4.6 Notes

1. Improper operation may lead to the grinding machine overturned and damaged, even endanger personal safety.

2. When the handle adjustment pin is pulled out, it may get stuck. Just shake the handle and pull out the pin.

3. During adjustment, it is necessary to confirm the reset of the locking device before operating the machine.

4. Be careful when the grinder is adjusted to the position of transportation or packaging and there is a risk of crushing injury.

5. Dust inhalation is harmful. Please bring a professional mask during operation to ensure physical safety.

6. In the process of lifting and downing the machine, we must pay special attention to our own safety and avoid damage to the machine.

6. Machine Operation

6.1 Overview

The following part mainly describes the grinder in different positions when the mode is switched to manual operation, the main operation of the grinder and how to install the grinding abrasive.

Note:

1. Grinders can only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.

2. Wear protective equipment such as protective gloves, protective masks, overalls, helmets, insulated shoes, etc. when operating the grinder.

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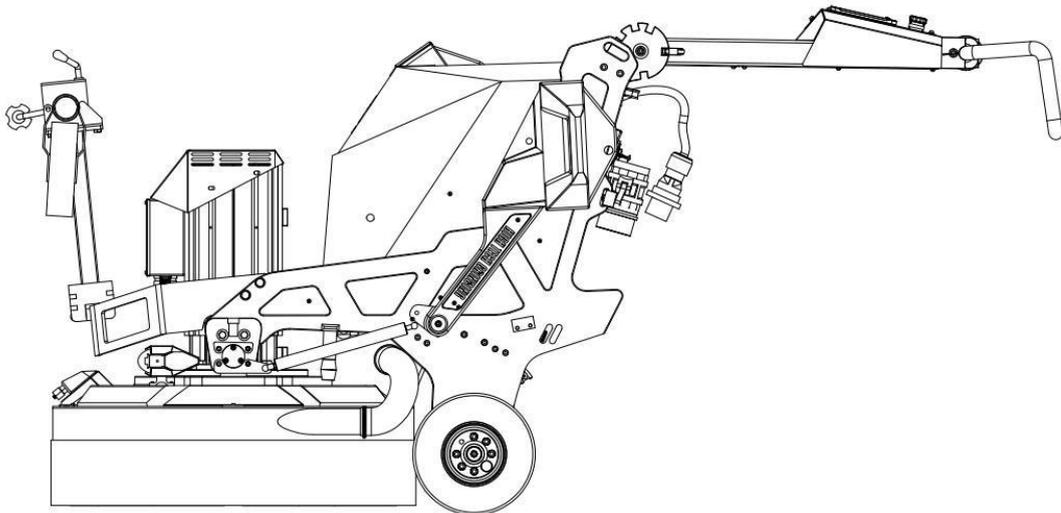
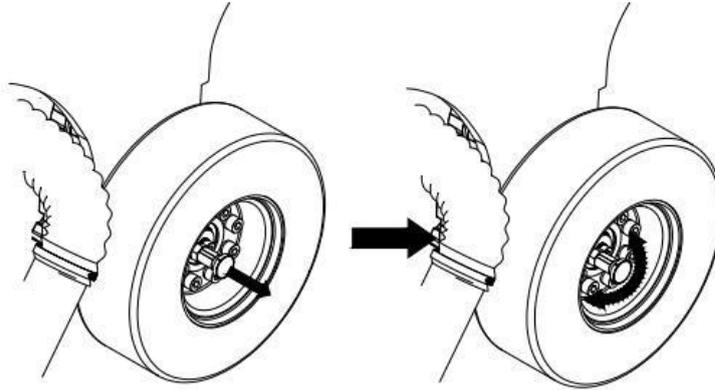
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6.2 Start and stop the grinder

6.2.1 Manual mode operation

Unlock the clutch pin, then adjust additional weight, swing rod and handle to corresponding working position, flips up support wheel device, fixed it with clutch pin and R-pin, or remove it (as shown below).



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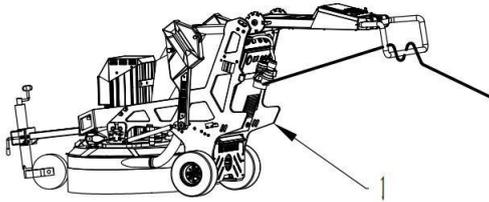
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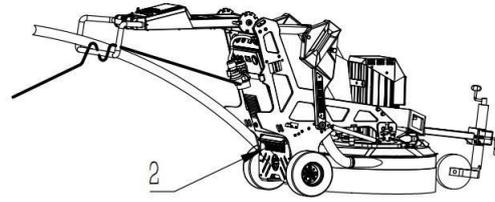
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Plug in the power cord (ensure that the emergency stop is pressed down and the switches are reset); if the machine using for dry grinding, connect the vacuum cleaner (Vacuum cleaner is equipped with a fast connector, so it can quickly connect to the vacuum cleaner); if the machine using for wet grinding, it's necessary to fill the water tank with water.

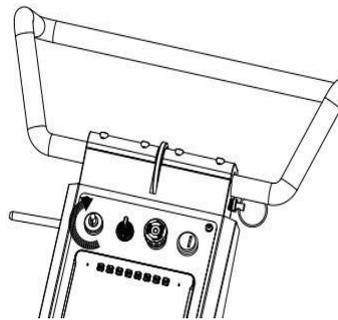
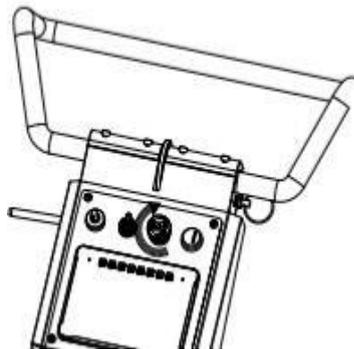


①Wet grinding



②Dry grinding

Rotate to turn on the emergency stop switch, press the remote/manual mode switch on the panel, switch it to manual mode, rotate the emergency stop switch, and then rotate the reverse switch, rotate the speed regulator to adjust the rotation speed of the motor, so that the machine can be started to grind.



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During wet grinding, press the corresponding water switch on display as required.



If the machine is operated in a weak light environment, press the spotlight switch and the headlight switch on the display according to your needs.



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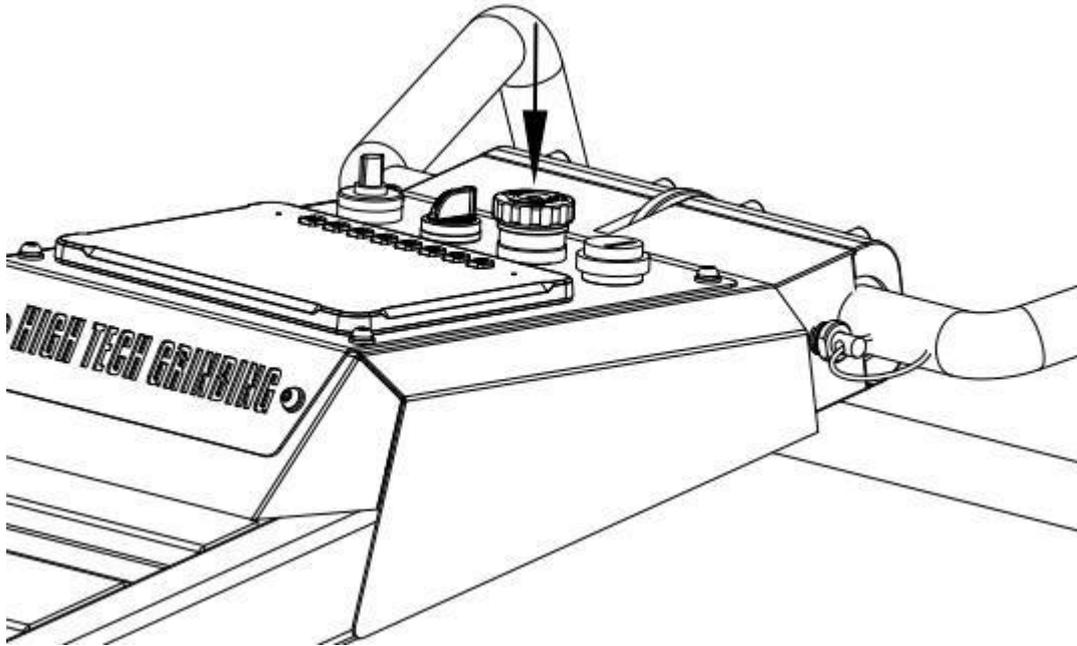
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Stop grinder: Press the emergency stop switch and unplug power to stop the machine
(remember to reset the speed regulator).



Note:

When stopping the machine, it is recommended to unplug the power supply for safety reasons.

The emergency stop switch can only be rotated and pressed down according to the direction shows on its top, and cannot be pulled up.

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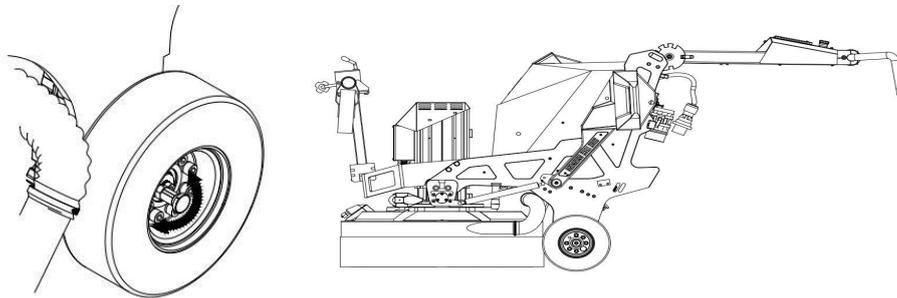
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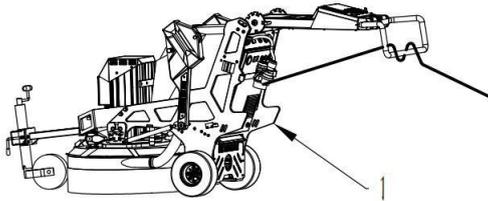
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6.2.2 Remote mode operation

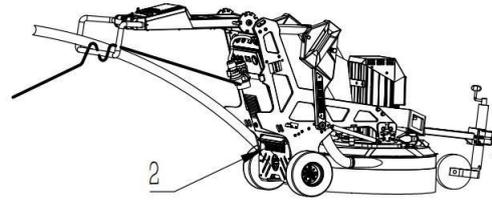
Lock the clutch pin (unlock the clutch pin if in the manual mode), adjust swing lever, handle and additional weight iron to the corresponding working position, place the supporting wheel device in the lowest position and invert it or disassemble it (as shown in the figure below).



Plug in the power cord (ensure that the emergency stop is pressed down and the switches are reset); if the machine using for dry grinding, connect the vacuum cleaner (Vacuum cleaner is equipped with a fast connector, so it can quickly connect to the vacuum cleaner); if the machine using for wet grinding, it's necessary to fill the water tank with water.



①Wet grinding



②Dry grinding

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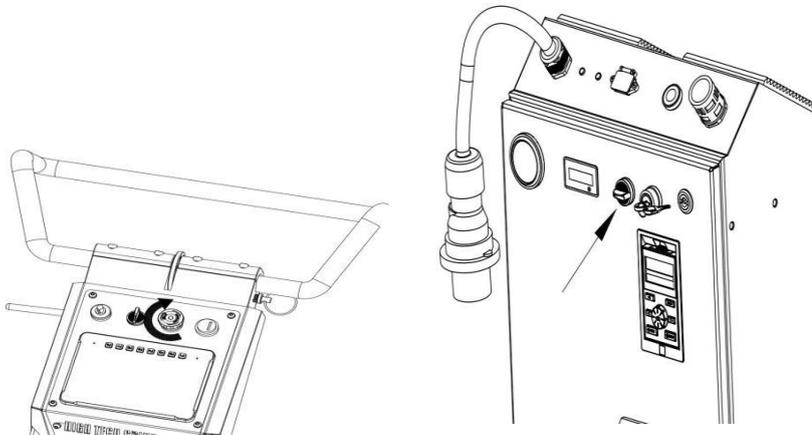
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Take out the remote control and tie it to your waist.



Rotate to turn on the emergency stop switch, wait for the panel display on the swing lever, press the remote/manual mode switch on the panel to switch it to the remote control mode (if the icon is lit, it indicates that the machine has switched to the remote control mode).

Normal remote control mode operation: Rotate the electric control box button to switch to remote control mode, rotate to turn on the 5th emergency stop switch, press the 3rd start switch, push the No. 11 motor reverse switch forward, then the motor rotates forward (Push backwards to reverse the motor). Rotate the 18th motor speed adjustment switch and the 19th drive wheel speed adjustment switch to adjust the motor speed and drive wheel speed respectively, and then start the machine for grinding. Use the direction control knob No. 2 to control the direction. (The specific operation is as shown below)



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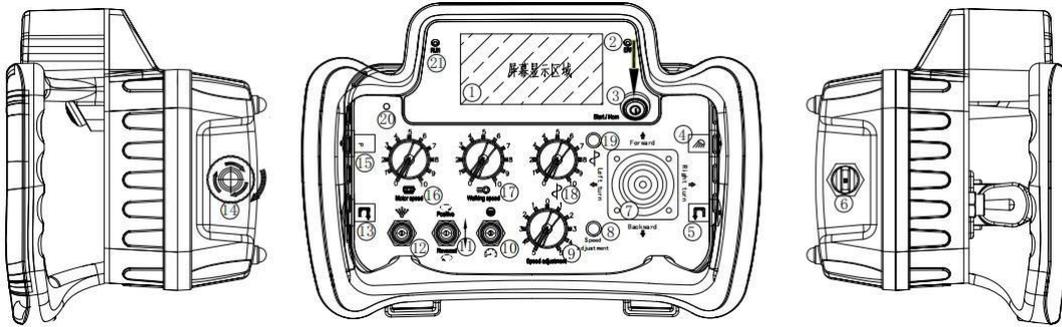
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Learning and memory grinding mode: For example, there is a zone ABCD, the machine starts grinding at point A, and end grinding work at point D .At point A, operator needs to rotate to open the 14th emergency stop switch, press the 3rd start switch, and dial the 10th remote control/learning memory grinding mode switch to switch to the learning memory grinding mode. Pushing the No. 11 motor forward/reverse switch forward, the motor will rotate forward (the motor will be reversed when pushed backwards). , Rotate the No. 16 motor speed adjustment switch and the No. 17 drive wheel speed adjustment switch to adjust the motor speed and drive wheel speed respectively. Move the No. 2 direction control handle to control the grinding direction ; When the grinder is approaching point B, press the No. 13 one-button right-turn switch, and the machine will turn right to grind. After that, the machine will automatically grind between the AB points. Press the swing lever to stop the grinding machine when the it approaching the D point that the user wants to stop.

Note:Due to the different ground quality and conditions, when using the memory function, there will be a slight deviation, which requires a little manual adjustment. Reserve at least 40cm of space on both sides.

Use the direction control knob No. 2 to control the direction of the machine.

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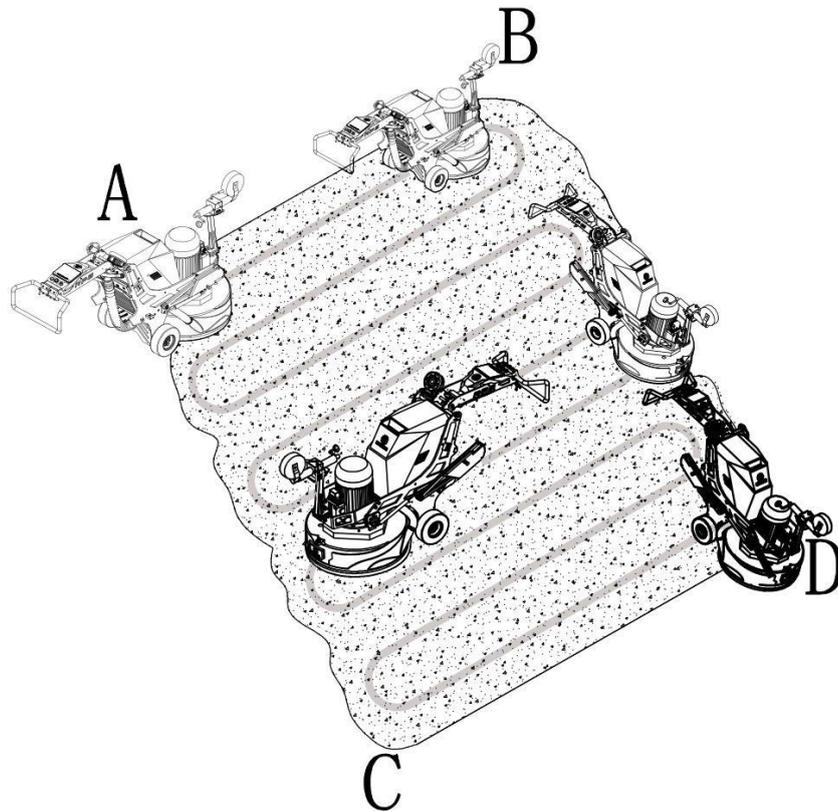
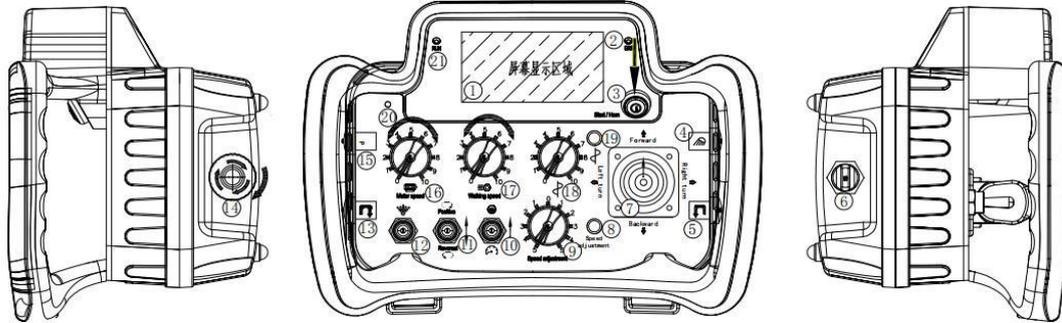
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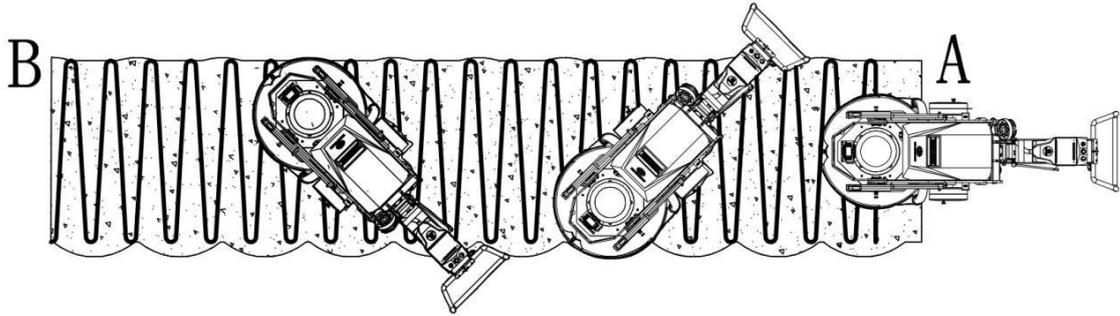
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Oscillating grinding operation:

The function of oscillating grinding is mainly used to prevent the machine from forming an edge/ridge line between the passing paths by vibrating/oscillating during the grinding process.



If the water grinding work is carried out, press the front spray switch No. 12 on the remote control and the water nozzle switch on the 13th plate according to user need);

If the machine is operated in a weak light environment, press the 4th spotlight switch and the 16th headlight switch on the remote control according to user need).

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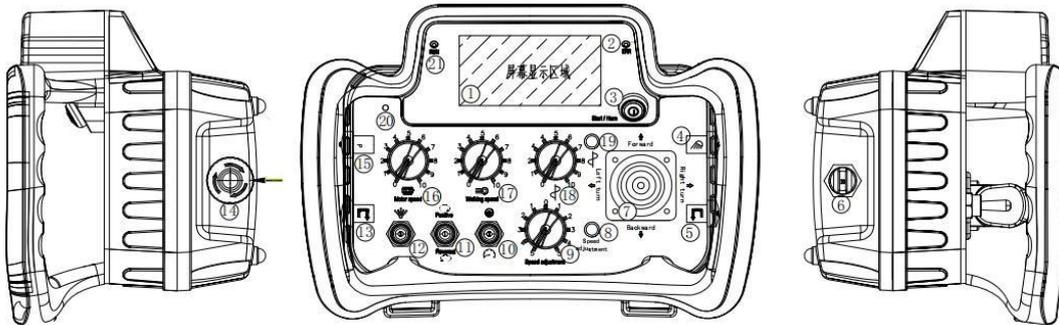
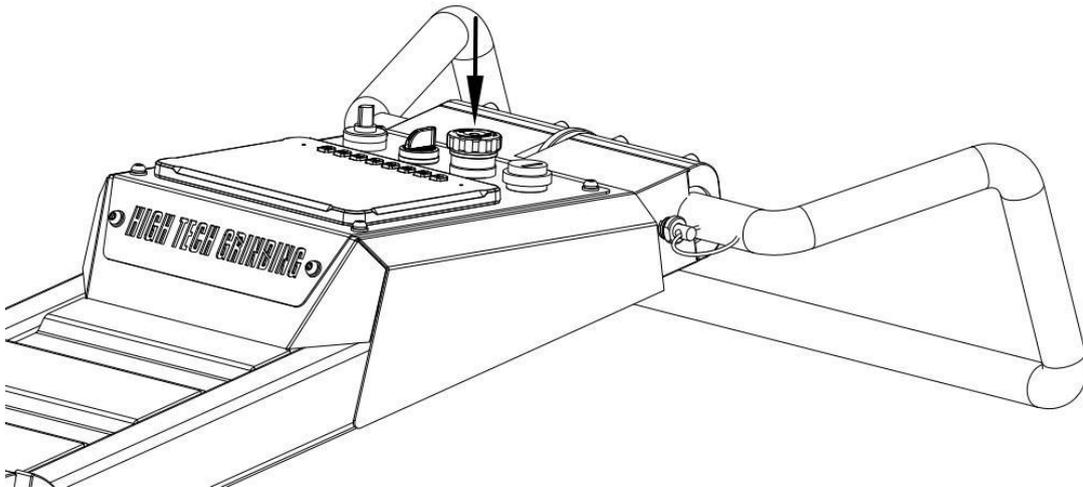
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Stop the grinder: Press emergency stop switch on the swing lever to stop the machine.

Remember to reset all the switches on the swing lever and remote control.



Note:

1. Before stopping the machine, please cut off all power.
2. The emergency stop switch can only be rotated and pressed according to the direction of rotation above the emergency stop switch, and cannot be pulled up.

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3. When turning on the machine, pay attention to reset the switches on all the remote controls to ensure the normal use of the machine. Otherwise, the machine cannot work even the power switch has been turned on.

4. When using the remote control device, please pay attention to the signal light on the remote control. The remote control can't out the normal use range of the machine. Otherwise, it will be too far to control the machine.

5. Turn on the transmitter power, observe whether the power light is flashing slowly or not. If not, adjust the transmitter.

6. The grinding disc drive motor must be started to run before pushing the direction rocker .

7. When the machine needs to stop working or an emergency occurs, press the emergency switch on the transmitter.

8. In the remote control mode, only the remote/manual mode switch can be performed, any touch-screen and button operation on the display will be unresponsive.

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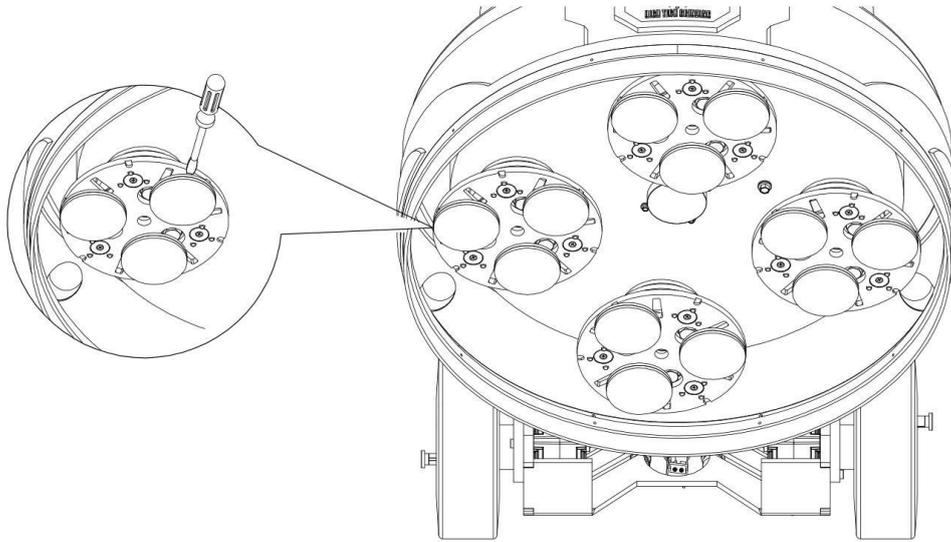
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6.2.3 Replace abrasives

When replacing abrasives, adjust machine to the lifting position, then tip the machine carefully and lay the machine flat. After leveling the machine, stand next to the machine and check whether the machine is stable. Replace the abrasive with a flat-blade screwdriver and replace it with a new one.



Note:

1. Please ensure that the machine won't tip forward before replacing the abrasive;
2. After the machine has been running for a period of time, the abrasive, grinding disc and the gear box will generate high temperature. Be careful to be burn when you replace the abrasive.
3. Replace the abrasive only when the power is unplugged and the emergency stop is pressed.

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6.2.4 The wire winding

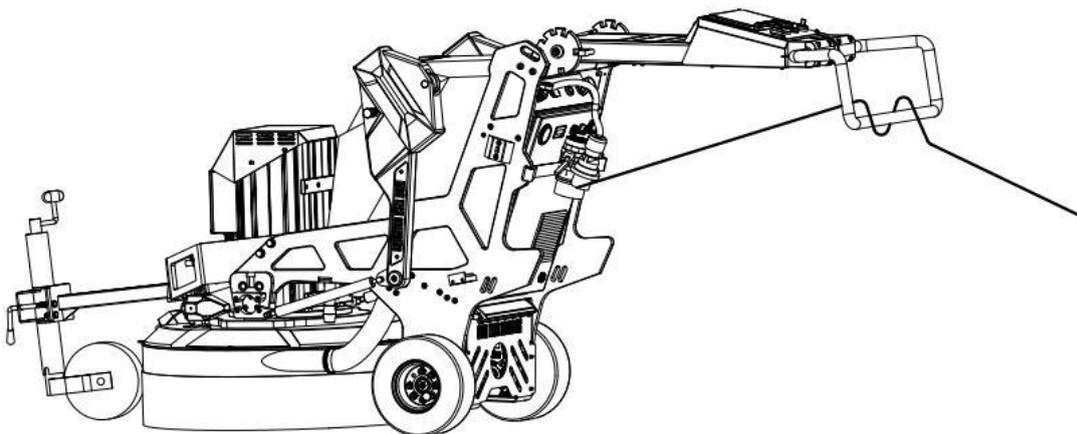
During machine working process, the wire wind method is particularly important, you can greatly improve your work efficiency and improve your safety. The specific operation is as follows:

1. Plug in an external power supply;
2. Turn the power cord through the swing lever handle;
3. The power cord wrapped around the handle at least two laps;
4. Slightly hard to pull the power cord to ensure that the power cord has enough friction

so that the power cord firmly fixed on the handle.

Note:

1. Make sure the power plug and socket are securely connected;
2. Please make sure the emergency stop has been pressed before plug the power supply, and the other switch has been reset;
3. Power supply line, please use (please find in Manual) wire minimum wire size;
4. Please use the correct power supply.



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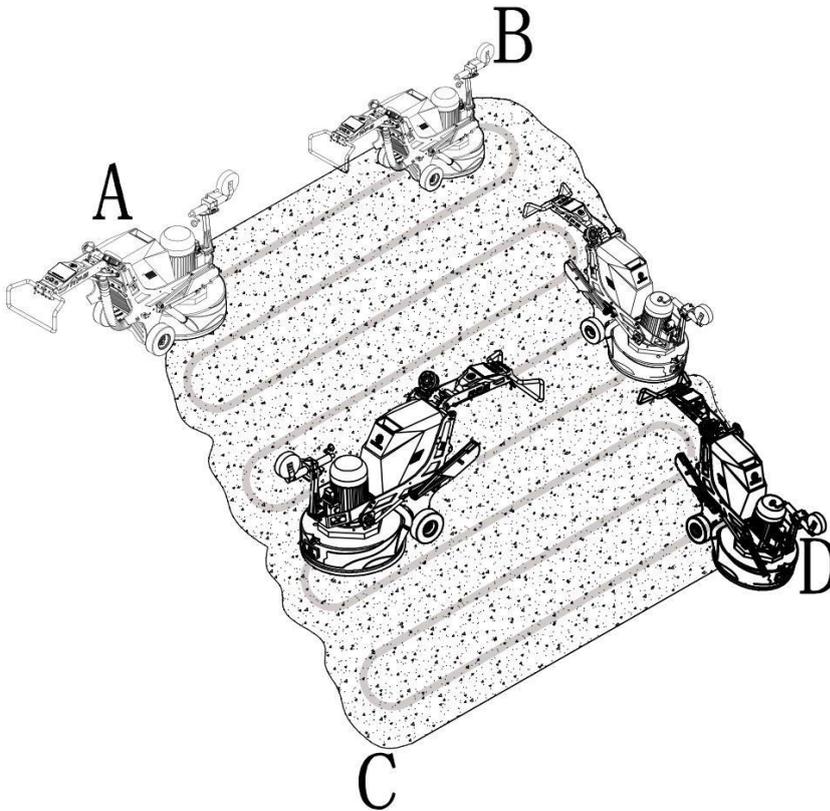
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6.2.5 Grinding route (for reference)

When grinding the ground, it should be in accordance with the # method to grind the ground to get better effect. And according to # to grind ground, the machine grinding direction makes the wire more and more farther away, so that you can further avoid the interference of the wire to the normal work of the grinding machine.



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6.2.6 Notes

During grinding, pay attention to the indicator light of remote controller, when it near to power off, battery must be changed in time, or stop grinding to charge the remote grinding machine.

During grinding , the sigh situation from the remote controller must be noticed.

During grinding, control switch of the remote controller direction just needs to be stirred softly.

During grinding ,the cable needs to be noticed, in case of the cable be pressed.

When grinding ,the barrier in the side must be remembered, in case of damage of the machine and human safety.

Before grinding, check the clutch is reset, if not, the machine could not move on.

7. Machine Maintenance

7.1 Overview

We recommend that the grinding machine be checked regularly to extend the service life.

Note:

During the maintenance and repair process, the power of the grinder must be disconnected.

Wear protective equipment such as safety shoes, protective gloves, protective masks, etc.

7.2 Daily inspection

7.2.1 Check switches

The emergency stop switch should be rotated along the rotation direction of the switch. Turn the motor positive and negative knob to start the machine to see whether the machine

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starts. (Safely and normally start the machine, the running light will light up, if not normally start, then there will be the error code showed on the display screen)

Turn on the grinder and press the emergency stop switch to see if the machine stops.

Turn on the emergency stop switch and turn on the two light switches on the panel (on the remote control) to check if the corresponding light is on.

Turn on the emergency stop switch and open the two water switches on the panel (on the remote control) to check whether the corresponding water spray system is spraying.

Note:

For safety reasons, it is strongly recommended to press the emergency stop switch when stopping the device, which would be safer.

When starting the machine, it is recommended to press the handle to lift the machine slightly, reduce the pressure of the grinding disc, and reduce the friction between the grinding abrasive and the ground, so as to avoid motor overloading when starting the machine.

7.2.2 Check the disc cover

When there is a large amount of dust, it is easy to cause dust nozzle of grinding disc cover clogged by dust, use flashlight to see if there is dust clogged, clean up if necessary.

7.2.3 Check the grinding plate

In the case of long hours of work or a large amount of dust, the grinding plate of grinding head may be stained with dust. It will lead lack of connection between grinding head and plate, which will affect grinding efficiency even lead to abrasive drop and cause accident. In view of this situation, please remember to clean up in time.

7.2.4 Long-term storage of batteries

Stored for a long time, the machine battery should be maintained and charged once every month

Stored longer more than 1 months, please take the battery out of the remote control device.

7.2.5 Note

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Be sure to wear protective equipment for maintenance checking such as protective gloves, protective masks, insulated shoes, etc.

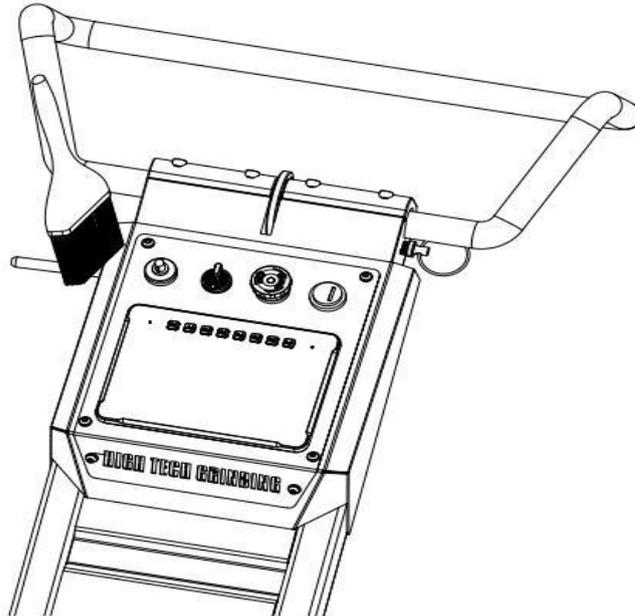
The maintenance operation must be done when the emergency stop pressed and the power unplugged.

When the machine is tilted, make sure that the machine is flat and then check the operation of the grinding disc.

7.3 Cleaning

7.3.1 Clean the switches

Grinding machine works on site for a long time, and the switch will inevitably run into the dust. For this reason, please check switch after grinding, to see whether the part is clogged by dust. Otherwise, it may cause the switch failure.



7.3.2 Maintenance of remote control equipment

Wipe the switch with a fine brush or a soft, dry cotton cloth. Do not rinse with water;

Keep the battery compartment clean;

If you do not use the remote control for a long time, you need to remove the battery.

When using the rechargeable battery, please ensure that the battery is fully charged for

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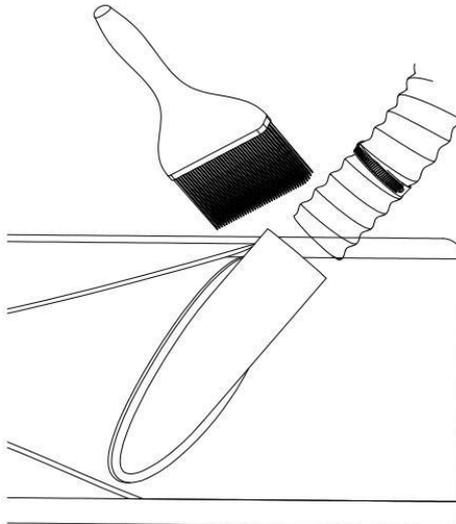
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the first time; for the long-term nonuse of the battery, it should be stored at room temperature and timely charged to prevent damage caused by self-discharge of the battery (It is recommended to charge up it once every month).

If you do not use the remote control for a long time, you need to remove the battery.

7.3.3 Clean the grinding plate cover

Remove the vacuum tube connection, illuminate the dust nozzle with a flashlight, clean the dust nozzle with brush. So that it will not clog the dust nozzle and affect dust collection efficiency.



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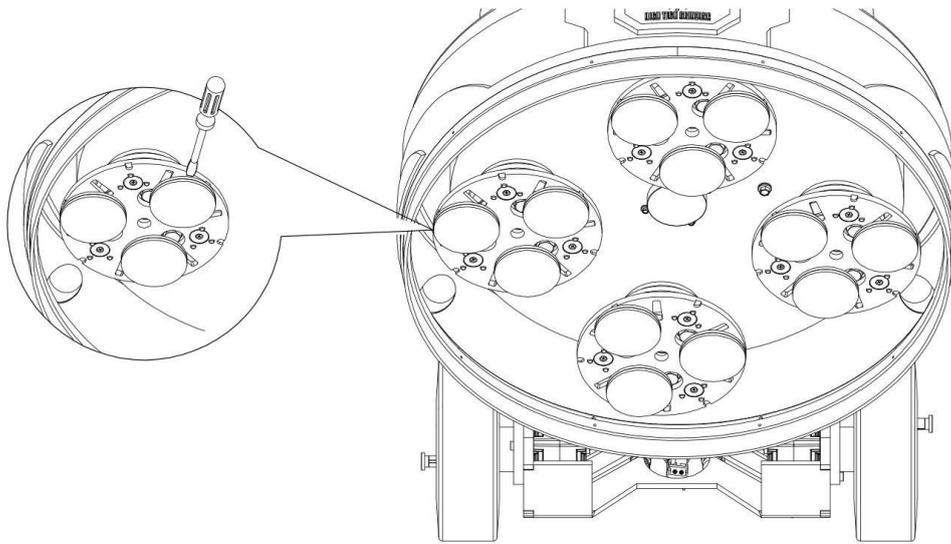
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7.3.4 Clean the grinding plate and Velcro-iron accessories

Tilt the machine and use a cross screwdriver to remove the pads, and use shovel to remove dust. If you do not clean up in time, it is possible to make the pads disconnected, and pads fly out when grinding, causing damage to the machine and threaten personal safety.



7.3.5 Note

1. Be sure to disconnect the plug from the socket before cleaning, maintenance or assembly.
2. Be sure to clean the whole grinder after each day' s working. Do not use a pressure washer to clean the machine directly.
3. In order to cool the equipment effectively, the cooling air port must be kept clear and clean.

7.4 Battery treatment

7.4.1 Overview

The batteries in the machine and remote control are lead-acid batteries. In extremely cold conditions, the battery capacity will be reduced and the use time will be shortened. Any changes to the battery are prohibited.

The battery must be charged at an ambient temperature between 0 °C and 40 °C. Use

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only the original battery and charger supplied by the manufacturer. For details, please consult with local dealer.

Waste batteries should not be treated as domestic waste! Take the waste battery to the nearest maintenance or recycling point.

7.4.2 Battery

The battery only be used in transport mode. NOT FOR GRINDING WORK! The machine must be connected to a 3-phase power source for grinding work.

When the machine is connected to a three-phase power supply for running, the battery is auto-charged. The display shows battery level, which can be observed at any time.

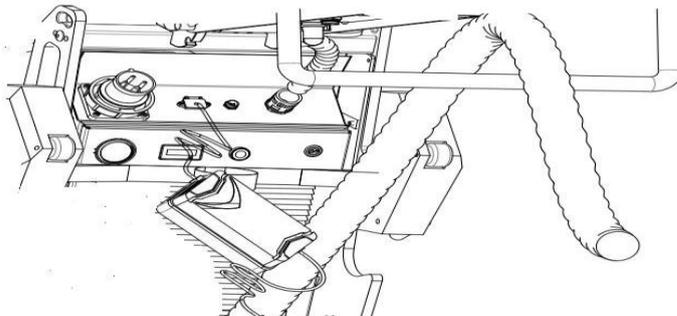
The battery needs to be charged with the charger provided by the manufacturer. The battery is a lead-acid battery. It provides 45min running time, and charging time is about 4 hours.

You can reset the emergency stop switch and connect to the power supply to charge the battery when the machine is not running,

Lead-acid batteries have a service life of about 1-2 years.

Note:

When storing for a long time, the battery should be charged before plugging in the 3-phase power supply, release the emergency stop, and then press the battery starting system to charged.



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7.5 Overloading

The machine is equipped with an overload protection function on the inverter. When the machine is overloaded, the overload error will be showed on the display of the control panel. In this case, just disconnect the power plug and decrease the loading, then restart it.

7.6 Maintenance

Any repairs must be performed by Pantheon Service Center training service personnel and use original Pantheon accessories. If your machine needs repair, please contact with your retailer.

8. Frequently Asked Questions and Solutions

This chapter describes some of the possible failures and how to handle them. If you still can not resolve or have an error, please contact your nearest retailer.

Problem	Possible reason	Solution
The machine can't run.	Emergency stop switch is pressed	Turn on the emergency stop switch
	Overload	Unplug the power cord and taking decreasing loading measures, then plug it in again.
	Power and power cable damage	Contact a licensed electrician
The machine uttered a low buzz when turn on	Dust in the motor impeller	Clean the dust
	Motor burned down	Replace the motor
	Input power Phase loss.	Turn off the machine power to avoid burning the motor, and correct the power source
The machine is difficult to hold or the motor current consumption is large	There are not enough diamonds pads under the device or using wrong diamonds	Use the number of diamonds recommended by Pantheon to reduce workforce on the grinder and operator

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Unable to charge	Field voltage is lower than 350v	
	Battery power is down to 0	Charge with the single-phase charger for 1 hour
	The battery is damaged.	Replace the battery
	charger damaged	replacing a charger
Machine beating	Diamond pads may not be properly installed or heights are different	Properly install diamonds with the same height
	The grinding disk is not flat	Adjust and install the disks
Machine forward, backward out of control	No clutch bolt or the clutch is broken	Replace the clutch with a new one
	Check if the PLC output is running	Contact the factory for repair
	Check if the motor wire is loose	Contact a licensed electrician or check the motor wire
	Check if the key between wheels and driver is broken	Check and contact the factory for repair and replace the damaged key

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9. Technical Data

The table and picture show the technical data and dimensions of the grinder.

	HTG-820RC	
Engine power	18.5KW	
Rated voltage	3P220V	3P380V
Rated current	70.3A	39.3A
Input hertz	50HZ/ 60HZ	
Inverter power	18.5KW/25HP	
Working width	820mm/32.28in	
Diameter of grinding disk	Φ278mm/Φ10.94in	
Grinding speed	350 ~ 1950 r/ min	
Pressure(additional weight front loaded)	293.5Kg	
Pressure(additional weight middle loaded)	204.5Kg	
Pressure(additional weight rear loaded)	193Kg	
Dimension(rear position)L*W*H	1875×833×1930mm/74.8×32.8×75.98in	
Dimension(working position)L*W*H	2305×833×1165mm/90.75×32.8×45.87in	
Dimension(packing position)L*W*H	1590×833×1130mm/62.6×32.8×44.5in	
Max.Length*width*height L*W*H	2770×833×1930mm/109.1×32.8×75.98in	
Total weight	620kg	
Cable model	10mm	10mm
Storage temperature	- 20 ~ +60°C / - 4 ~ +140° F	
Working temperature	- 10 ~ +40°C / + 14 ~ +104° F	
Humidity	Below 95% (no condensation)	

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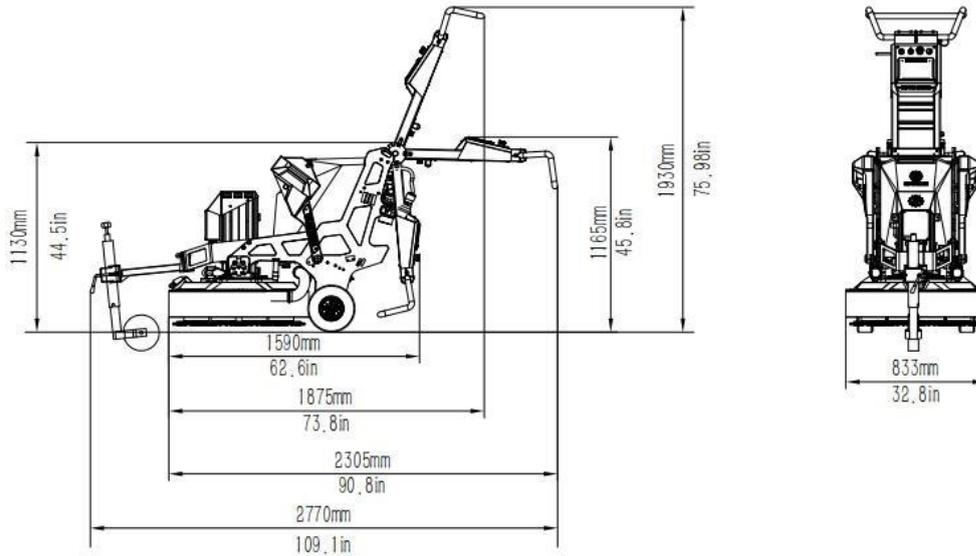
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10. Warranty

Pantheon does not bear the cost of machine damage caused by improper transportation, unpacking and improper use. Local distributors may be subject to specific warranty terms, please contact with your local distributor for specific warranty terms.

Welcome to [visit or Live inspection our showroom](#) at any time~

Yours Sincerely,

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