



HIGH TECH GRINDING

XINGYI

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Manual of HTG-680SP Floor Grinder

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1.Introduction

1.1 Summary

Xingyi's machines are used to treat floor surfaces. The range of use of the machine depends on the choice of tools. In addition to usage and general functions, this manual provides information on the use, repair and maintenance of the grinder. For further information, contact your local retailer.

1.2 Liability

We have made every effort to make this manual as complete and accurate as possible, and we do not assume any responsibility for any errors or missing information. Xingyi reserves the right to change the instructions in this manual without prior notice.

This manual is protected by copyright law. No part of it may be copied or used without the written consent of Xingyi.

1.3 Spare parts

The product mainly includes the following items, if anything is missing please contact the retailer.

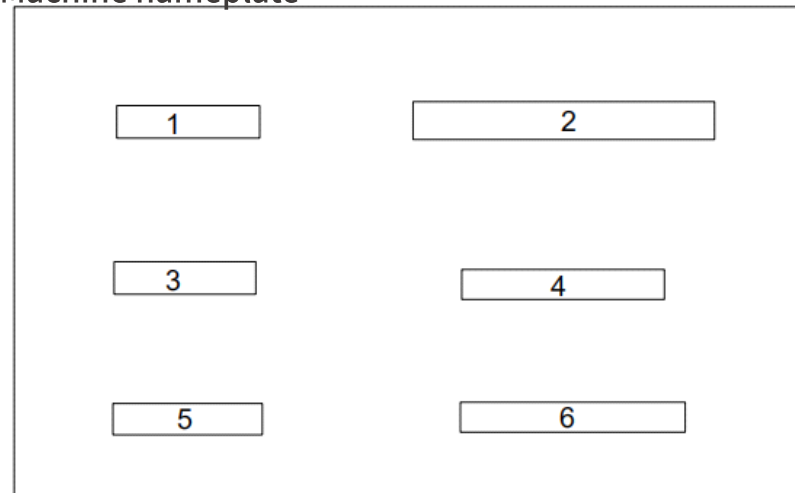
- (1) Grinding machine*1 pcs
- (2) Instruction manual*1 pcs
- (3) Socket *1 pcs
- (4) Dustproof belt*1 pcs
- (5) Electric control box key * 1 pcs
- (6) 4-inch conversion blocks * 3 pcs (another 9 are installed on the machine chassis)

1.4 Receiving goods

Carefully inspect the packaging and the machine for shipping damage. If the machine shows any signs of damage, contact the retailer and report the damage. If the packaging is damaged, report the packaging damage to the shipping company.

Check that the delivery is what you ordered. If you have any questions, contact the retailer.

1.5 Machine nameplate



- | | |
|--------------------|------------|
| 1. Model | 4. Voltage |
| 2. Production date | 5. Weight |
| 3. Power | 6. RPM |

1.6 Processing and storage

The grinder should be stored in a dry place at room temperature when not in use. Otherwise it may be damaged by condensation and cold. The dimensions and weight of the grinder are given in the technical data of (7).

1.7 Warranty

This warranty covers manufacturing defects only. Xingyi is not responsible for damages that occur during transportation, unpacking or use. In no case will the manufacturer be responsible for damages and defects caused by improper use, corrosion or use beyond the specified specifications. The manufacturer is not responsible for consequential damages or expenses under any circumstances. For complete information on the product warranty period, please refer to Xingyi 's current warranty terms. Local dealers may have special warranty terms. If there is anything unclear about the warranty terms, please contact your retailer.

2.Risk List

2.1 General safety instructions



Please read the following carefully before using the machine.

1.This manual lists important information for using this machine and operating it safely! You must read this manual carefully before operating this machine for the first time!

2.This product must not be operated unless the operator has read and understood the contents of the operator's manual.

3.Never rent a machine without its operating instructions .

4.Please comply with local laws and regulations when using this device.

5.All work must be done by trained and qualified professionals , and operators should ensure safety and prevent dangers during operation .

6.Do not operate this product when you are tired, sick, or under the influence of alcohol or drugs.

7.Keep this device out of reach of children.

8.Only one person is needed to operate this machine. When the machine is working, please be careful not to let children or unrelated people approach the machine, keep a certain working distance and remember "one machine, one person".

9.Do not modify the product at will, and do not use illegally modified products. Only personnel designated by Xingyi Company can perform repairs and modifications using accessories provided by Xingyi Company.

10.Keep the product clean and ensure that you can read markings and labels clearly.

11.The products used should be intact and undamaged to ensure safe use.

2.2 Operation Safety Instructions



Warning:

Please read the following carefully before using the machine.

1.When working, you should wear professional personal protective equipment .

2.This machine is only used for floor surface grinding and polishing. Please do not use it in other occasions.

3.Xingyi machines can only be used in the way recommended by Xingyi. Please read and understand the operating instructions of the machine manual. Different models have different accessories and control operations. Wrong operation may cause safety problems.

4.This machine must be operated at a slope less than 20°. The company will not be held responsible for any accidents caused by operation at a slope greater than 20°.

5.When the machine is operating, the operator should not leave the product and ensure that the product operates normally within sight.

6.When leaving this product, press the emergency stop button and disconnect the power cord.

7.Before operation, make sure the dustproof belt is installed on the machine to prevent dust from being inhaled into the lungs and causing harm, and to prevent the soles of your feet from accidentally touching the grinding disc.

8.Do not pull the vacuum hose to prevent the machine from tipping over and causing injury.

9.During operation, ensure that the machine is in a safe and stable position to prevent personal injury during operation.

10.Your body, hair, jewelry, and loose clothing away from moving parts of the machine; otherwise, physical injury may occur.

11.If you find that the machine is working abnormally, such as abnormal vibration, abnormal noise, etc., you should stop using the

machine immediately and have it checked for damage and repaired by authorized dealers and maintenance personnel.

2.2.1 Personal protective equipment

1. When operating this equipment, please make sure to wear standard personal protective equipment to reduce the harm caused by accidents.

2. Do not wear loose clothes or carry anything that could be dangerous, such as scarves, bracelets, rings, etc. Tie your hair up when operating the machine to prevent it from being caught in the machine and causing injury.

3. Certified protective glasses must be worn to prevent dust or foreign objects from damaging your eyes.

4. Certified rubber protective gloves must be worn to ensure a firm grip and protect your palms from damage from wet concrete.

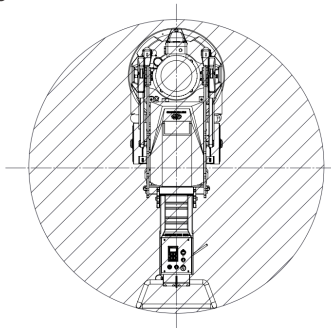
5. Certified safety shoes must be worn with steel toe caps and non-slip soles to avoid slips and foot injuries.

6. The machine will generate noise and dust when working. Protective earmuffs and masks must be worn to avoid noise damage to the ears and dust inhalation into the lungs to damage the respiratory tract.

7. An approved protective helmet must be worn.

8. It is necessary to ensure that there are fire extinguishers, first aid kits and other supplies at the work site to prevent accidents.

2.2.2 Work area safety



1. As shown in the figure above, except for the operator, no other personnel are allowed to enter this area, and the operator in this area should be extra careful during operation.

2. Do not use the machine in rain, lightning, dense fog, strong wind or other adverse conditions.

3. Do not operate the machine near explosive or flammable materials or steam. Do not operate the machine near dust, solvents, thinners or other flammable items.

4. Before the equipment is working, check the ground area to be ground and remove any hard objects such as bolts and nails that may cause damage to the grinding disc and equipment; for hard objects such as steel bars and expansion screws protruding from the ground, use a cutting machine in advance to clean up the part that is protruding from the ground.

2.3 Electricity Safety Tips



Warning:

Please read the following carefully before using the machine.

1. All circuit repairs can only be performed by professionals.

2. After the machine stops, the circuit is still energized. All power supplies should be cut off before repairing the machine.

3. The machine is equipped with an overload protection device which will automatically trip and prohibit the machine from running when the machine is overloaded (the overload can be readjusted under safe conditions).

4. The manufacturer will not provide warranty for other losses and malfunction of the machine caused by continuous use of the machine under overload conditions.

5. The purpose of adding a frequency converter to the machine is to adjust the speed and protect the safety of the user and the machine. It is forbidden to modify or adjust the frequency converter or modify the frequency converter parameters without the manufacturer's consent. If the device fails, only the accessories provided by the manufacturer can

be used to replace the broken accessories. (The manufacturer will not provide warranty for other losses and machine failure caused by modifying or adjusting the frequency converter or modifying the frequency converter parameters without the manufacturer's consent)

6. Never modify the internal parts or circuits of the inverter by yourself .

7. Do not operate the machine when the distribution box is not closed .

8. If the machine current is overloaded, special attention must be paid .

9. Never connect or remove wires when the wires are live or under load .

10. Using a damaged power cord may cause electric shock . Do not use a damaged power cord .

11. Keep electrical wires away from high temperature surfaces .

12. All electrical components of the machine should be kept dry and the machine should be stored in a dry place.

13. After cutting off the power supply, before the panel indicator light goes out, it means that there is still high voltage inside the inverter, which is very dangerous. Do not touch the uninsulated electrical machine parts.

14. Do not allow water to enter the machine motor or frequency converter . (The manufacturer will not provide warranty for other losses or malfunction of the machine due to water ingress)

15. The machine must use the wire specifications and voltage specifications specified by the manufacturer . (The power specifications are indicated on the machine brand)

2.4 Safety warning signs



Please read and understand the instructions before using this equipment.



Be sure to wear earmuffs and protective glasses to avoid noise damage to the ears and foreign objects to the eyes.



You must wear a protective mask to avoid inhaling dust and damaging your lungs.



Make sure all parts of the equipment are intact and all screws are tightened, otherwise personal injury may occur.



Insulated rubber shoes must be worn, otherwise there may be a risk of electric shock.



High voltage hazard, do not open, otherwise personal injury may occur.



Danger warning, please pay attention to the text description below this icon to avoid danger.



This is the hook.

3. Machine

3.1 Overview

HTG-680SP is used to treat various types of floors. It is used to grind (rough grinding, grinding, polishing) concrete, natural stone and terrazzo floors or materials specified in this manual or recommended by Xingyi. It can be used for a variety of purposes from rough grinding to fine polishing. This machine is intended for commercial applications, such as hotels, schools, hospitals, factories, offices and other places.

The Swing bar and the handle can be set in many different tilting positions. When the machine is operated manually, a position that is most suitable can be selected. The grinding head of the machine can be used with different grinding discs for grinding operations.

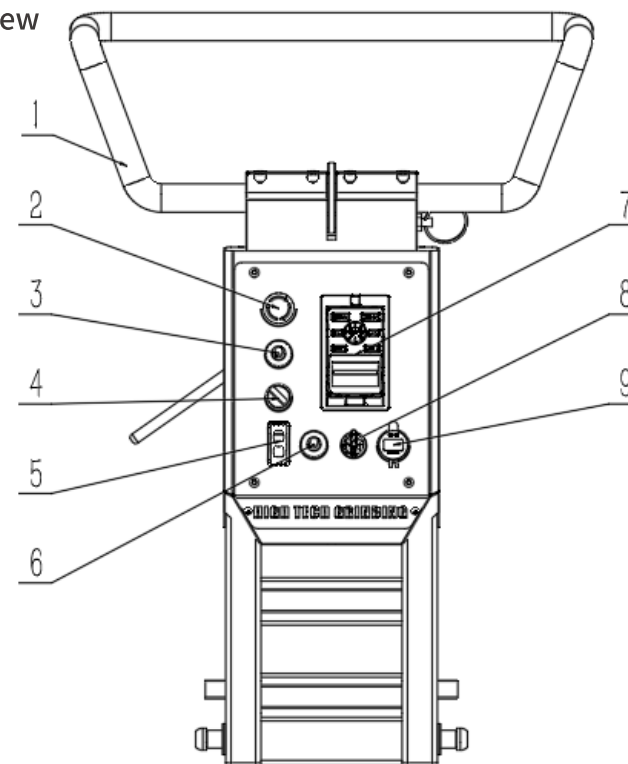
Equipped with a water tank so that the machine can not only dry grind, but also wet grind.

When dry grinding, be sure to connect a vacuum cleaner to the grinder (it is best to equip it with a vacuum cleaner that matches Xingyi for better results). This prevents dust from being exposed to the air and posing a threat to the health of the operator, operator, and nearby people. Inhaling dust is harmful, so during operation, even with a vacuum cleaner, you should wear a protective mask to protect your own health.

This machine can use different Xingyi grinding wheels, and the grinding wheels used in grinding will be different depending on the different ground materials.

3.2 Swing bar assembly

3.2.1 Overview



1. Operating handle: The position where the user places his hands during operation.

2. Emergency stop switch: When the equipment is in a dangerous state or needs to stop working, press the emergency stop switch to cut off the power supply and stop the equipment to protect the safety of people and equipment.

3. Speed regulator: mainly used to adjust the rotation speed of the motor.

4. Forward and reverse switch : This switch has three gears. Rotate it to turn on the emergency stop switch and change the direction of the switch. The motor rotates forward when it is on the left ; the motor does not rotate when it is in the middle gear ; and the motor rotates reversely when it is turned to the right.

5. Forward/Reverse Switch: Controls the forward and reverse movement of the device .

6. Driving wheel speed governor: adjusts the travel speed of the driving wheel.

7. Display screen: displays some parameters, such as voltage, current, motor speed, overload fault prompt, etc.

8. LED light switch: controls the switch of LED light.

9. USB port: can be used for charging, such as charging a mobile phone.

3.2.2 USB interface

There is a charging (USB port) device on the control panel. When we flip up the cover, we can see the USB port, which is mainly for the convenience of users to charge the device.



Notice:

When operating the grinder, be sure to close the cover and do not open it to expose the USB interface to prevent dust from getting in and clogging the USB interface.

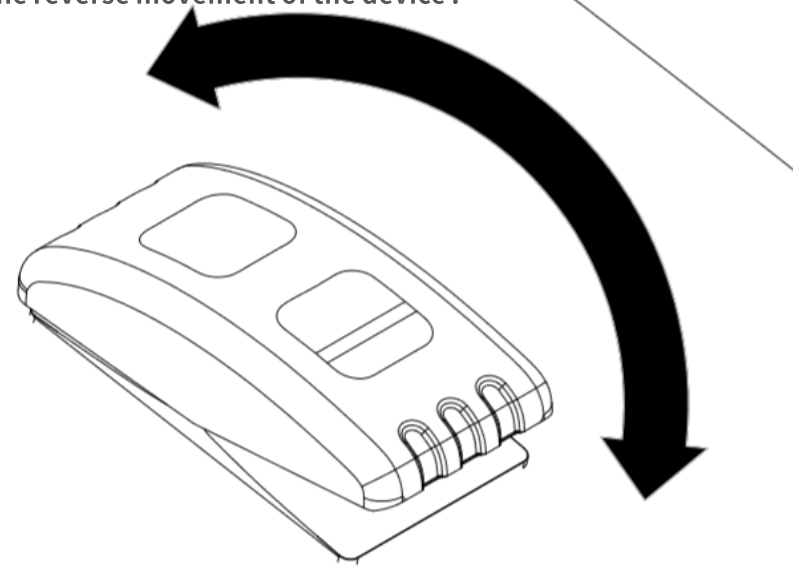
When the USB interface is not in use for charging, remember to cover it to prevent dust from falling into the USB interface.

3.2.3 Forward /reverse device

The forward/backward device is mainly used to control the forward or backward movement of the device . It frees users from the need to manually pull or push the device to make it move forward/backward, greatly simplifies manpower, and makes user operation more comfortable and convenient.

The forward/reverse device has three main gears. The first is the forward gear: press forward to execute the forward movement of the

device ; the second is the middle gear. Press the switch to the middle gear and the device will execute the command to stop moving (if it is currently in the forward gear, press backward once to enter the middle gear; if it is currently in the reverse gear, press forward once to enter the middle gear); the third is the reverse gear. Press backward to execute the reverse movement of the device .



Notice:

When shifting to different gears, be careful not to use too much force, otherwise the gear will be skipped;

During grinding operation, be sure to connect the vacuum cleaner (it is recommended to use the vacuum cleaner shipped by Xingyi). Otherwise, if the vacuum cleaner does not have a good cleaning effect , it is likely to cause the forward/reverse device switch to be clogged with dust, causing the switch to malfunction.

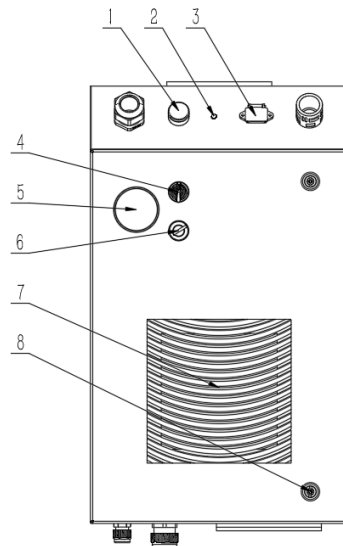
3.2.4 Handle

The adjustment pin on the handle can be adjusted to different positions by positioning the circular holes to meet different needs of users. Hold the armrest with one hand and pull out the adjustment pin with the other hand. When it is rotated to the appropriate position, release the adjustment pin.

3.2.5 Swing bar angle adjustment

The Swing bar adjustable device uses a handle to control the different positions of the Swing bar to adapt to the conversion of the machine placement mode in different states . Hold the handle with one hand to support the Swing bar, pull the handle upward with the other hand without moving, rotate the Swing bar to the required position according to the hole position on the fan plate, and then release the handle.

3.3 Electric control box components



1.Operation indicator light: When the device is working normally, the operation indicator light is on.

2.Fault light : When the brushless controller fails, the fault light will flash .

3.Charging port: used to charge the internal battery of the device itself.

4.Water pump switch: controls the opening/closing of the sprinkler head.

5.Battery level indicator: Displays the battery level.

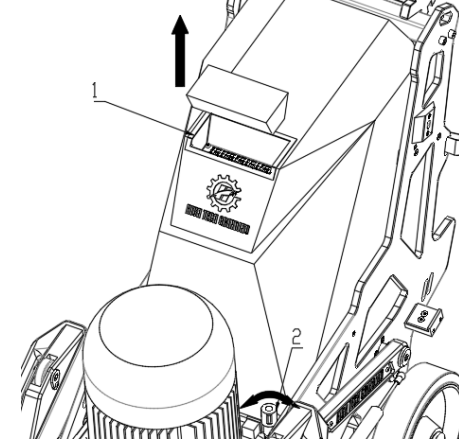
6.Key switch: Turn on/off the DC power supply.

7.Fan filter: It plays a role in heat dissipation to prevent the internal temperature of the inverter box from being too high, which may cause the components inside the inverter box to burn out.

8.Inverter box key lock: The inverter box can be locked with a key.

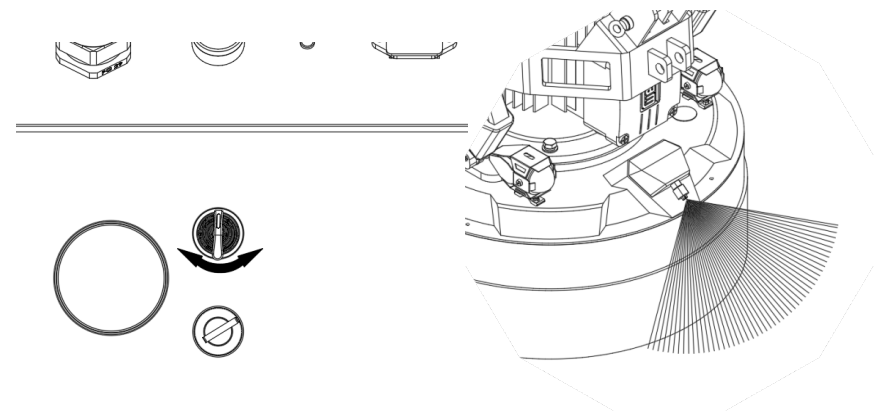
3.4 Water tank

There is a water tank cover on the water tank. After removing the water tank cover, there is a water inlet, which can be filled with water. When the equipment is to perform water grinding, turn the water switch clockwise to start the water grinding work. After the water grinding work is completed, turn the water switch counterclockwise to end the water



1.Water tank filling port 2. Water switch

Turn on the water pump switch on the inverter box , and water will be sprayed in front of the machine; otherwise, turn it off .

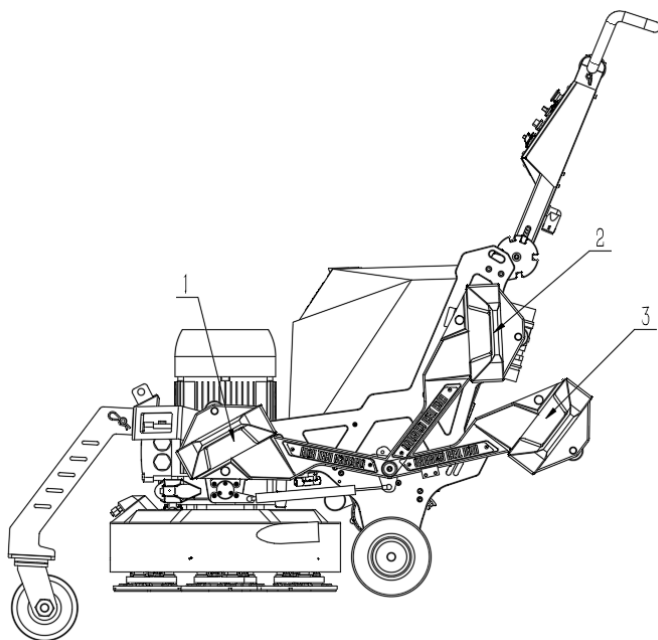


⚠ Notice :

1. When performing water grinding and water spraying operations, always pay attention to the water level in the water tank.

3.5 Weighted Iron

The weight iron has three different positions, corresponding to the transport position, the lifting position, and the working position on the machine. The adjustment of the weight iron position mainly relies on the spring pin to cooperate with the limit device on the frame to achieve the purpose of limiting.



1. Working position 2. Transport position 3. Warping position

⚠ Notice :

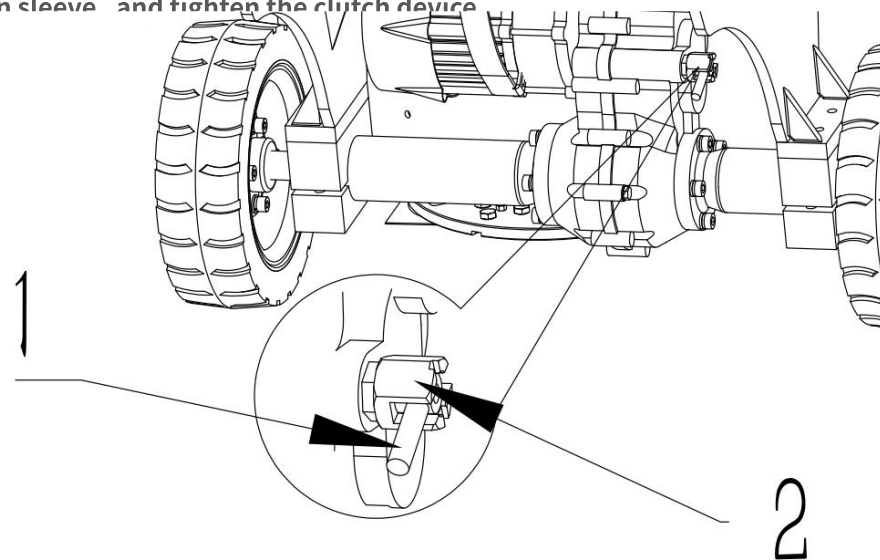
1.The weighted iron is very heavy, please be sure to handle it with care, otherwise it may cause personal injury or machine damage.

2.Please hold the handle of the weight iron to adjust it. Improper movement of the weight iron may cause your hand to be pinched and cause personal injury.

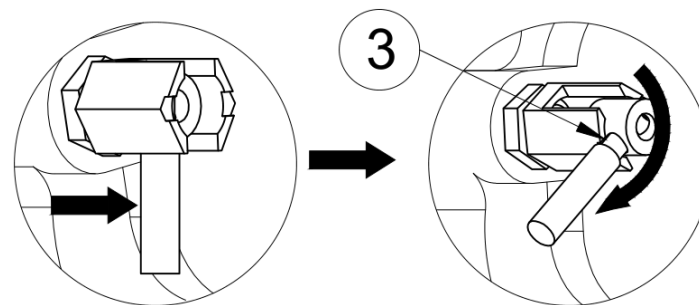
3.6 Clutch device

The clutch device (i.e. the device consisting of the clutch rubber sleeve and the clutch pin is collectively referred to as the clutch device) mainly has two states:

Unlocked state of the clutch device: When the equipment is not working, loosen the clutch device, then pull out the clutch pin, rotate the clutch pin sleeve, clamp the clutch pin on the limit device 1 of the clutch pin sleeve and tighten the clutch device.

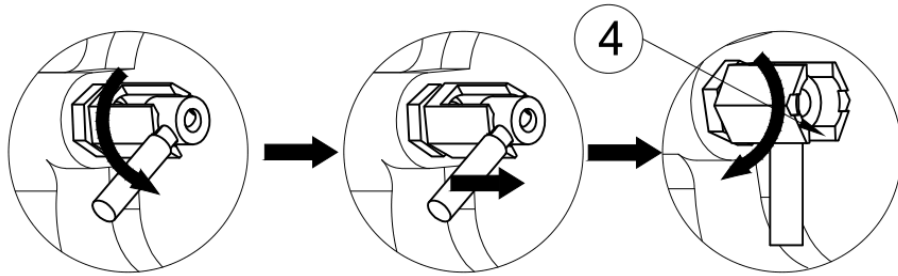


①Clutch pin sleeve ②Clutch pin



③Limiting device 1

Clutch device locking state: When the equipment starts working, loosen the clutch device, then pull out the clutch pin, rotate the clutch pin sleeve, lock the clutch pin on the limit device 2, and tighten the clutch device



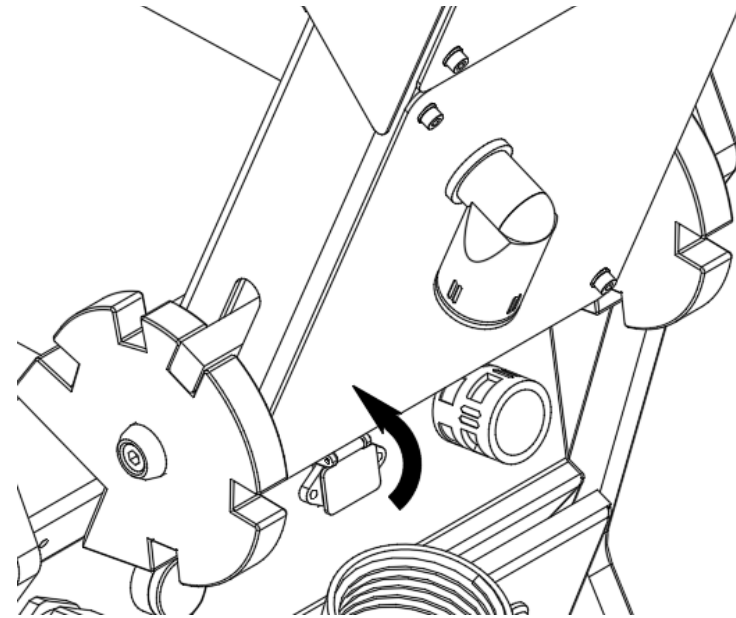
④ Limiting device 2

Notice:

1. The clutch pin may get stuck when you pull it out. Just shake the device while pulling out the clutch pin.
2. When performing grinding work, the clutch pin needs to be rotated to the corresponding position, and the clutch pin must be limited before working.
3. When pulling or rotating the clutch device, remember to place the weighted iron in the working position first to prevent the weighted iron from hitting or knocking people, causing unnecessary casualties.
4. When pulling out or screwing in the clutch pin, remember not to screw the clutch device too loosely or too tightly. Whether it is too loose or too tight, it cannot ensure that the clutch pin can be pulled out smoothly and stuck on the limit device smoothly.

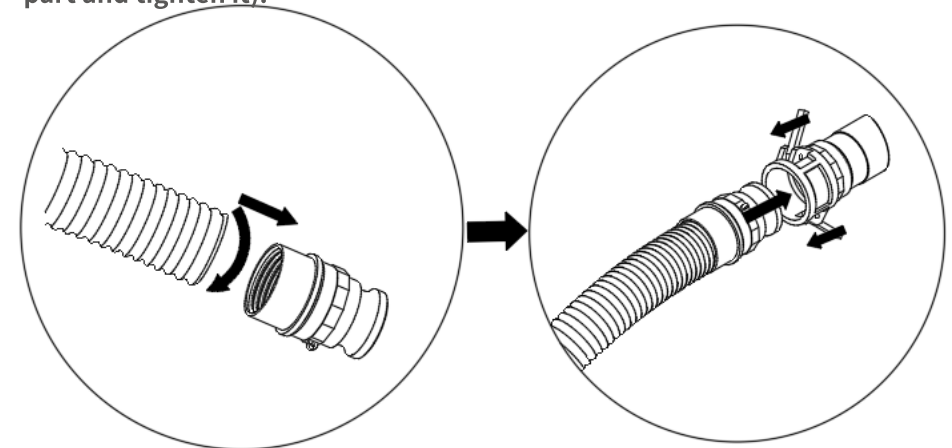
3.7 Reserve Battery Charging

When the reserve battery of the equipment is out of power, the power indicator on the inverter box is less than 20%, and the reserve battery needs to be charged. Open the cover of the charging port and charge it with the charger provided by this manufacturer .



3.8 Quick Connectors

The quick connector consists of a front part and a rear part. The front part is assembled with the dust suction pipe opening of the grinder (screw the front part into the dust suction pipe interface through a thread and tighten it), and the rear part cooperates with the dust suction pipe of the vacuum cleaner (screw the copper wire dust suction pipe into the rear part and tighten it).



4. Machine Operation

4.1 Overview

The following sections describe the different locations of the grinder, the main operations of the grinder, and how to install and replace the grinding discs.

Precautions:

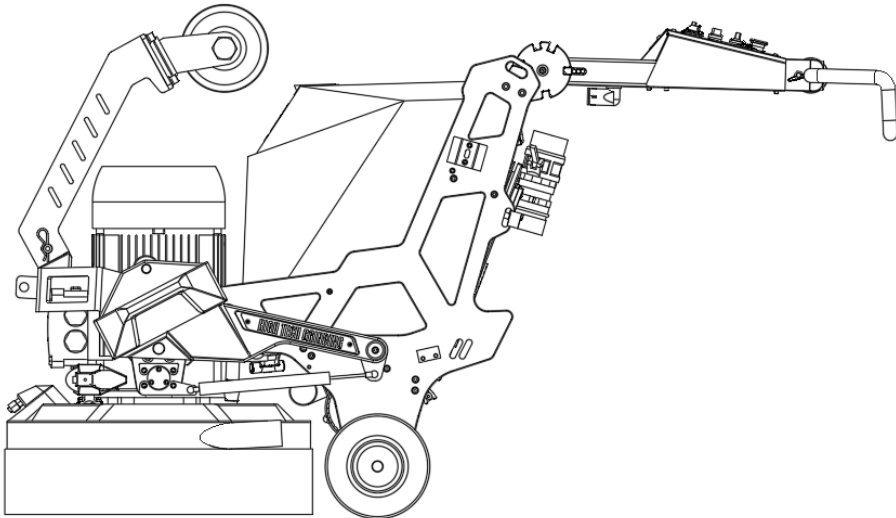
1. The grinder may only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.

2. Protective equipment must be used when operating the grinder, such as protective gloves, protective masks, work clothes, safety helmets, insulating shoes, etc.

4.2 Machine Location Description

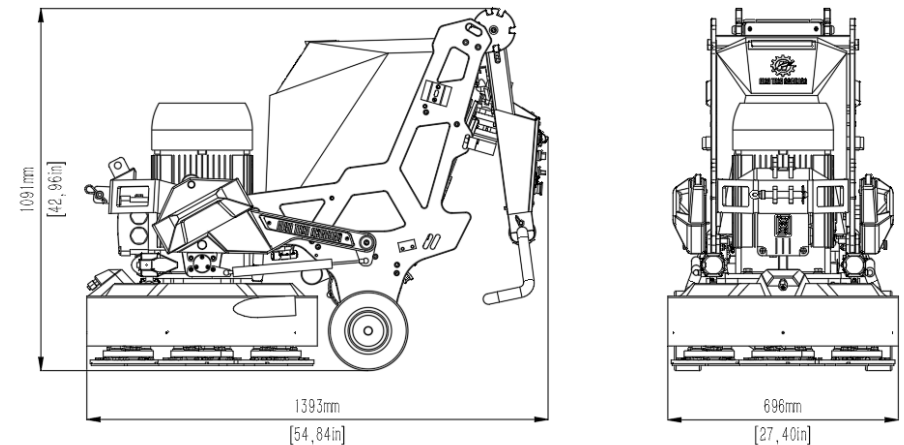
4.2.1 Machine working position

When the grinder is working, you need to pull out the reset indexing pin on the weight iron, gently lower the weight iron to the working position (for specific operations, see 3.5), and adjust the position of the handle and Swing bar to achieve the most suitable working position. Turn the front guide wheel over to install or remove



4.2.2 Machine packaging location

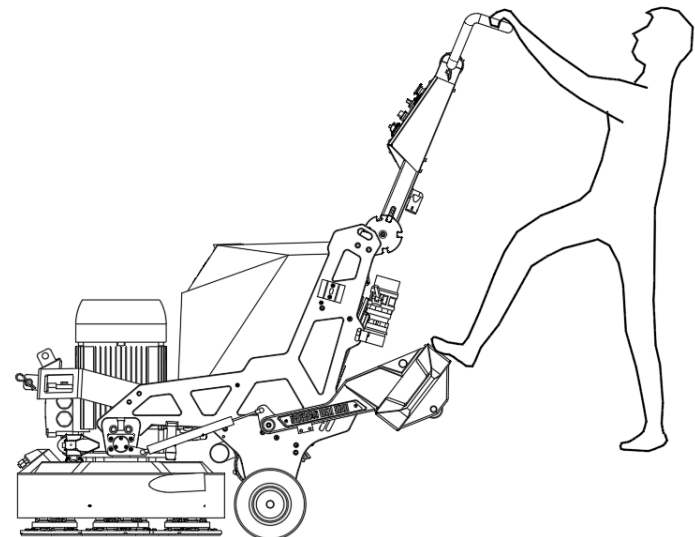
When packing, you can adjust the position of the Swing bar and handle to reach the packing position. The minimum packing size is as follows, and it can be packed according to its size.



4.2.3 Machine lift position

Adjust the position of the weight iron so that it is at the lifting position, and adjust the handle and Swing bar to the lifting position of the machine. (The best recommended lifting position)

Holding the handles tightly with both hands, he placed one foot on the weighted iron and pressed the machine down with force.



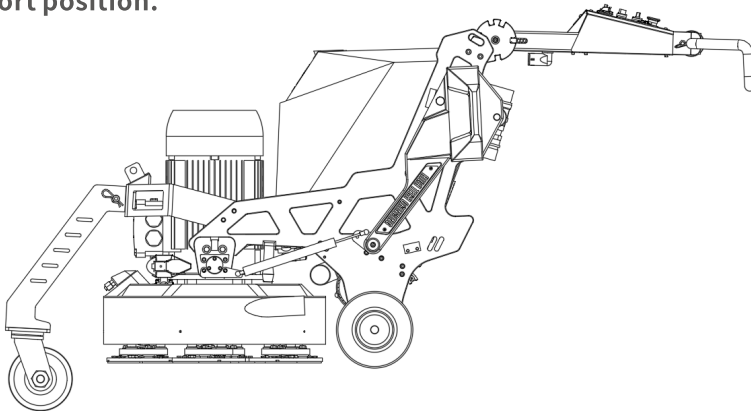
To put the machine down, you need to hold the handles tightly with both hands, put your feet on the weighted iron, balance the machine with your own gravity, and slowly put it down to protect the grinding head. When putting the machine down, you must pay attention to your own strength, do it within your ability, and operate carefully to ensure the safety of the machine and yourself. The company does not assume any responsibility for machine losses and personal injuries caused by improper operation.

⚠ Notice :

After lifting, remember to stand next to the grinding head and press it lightly to see if the machine is stable and whether there is a threat of tipping over in front to ensure your own personal safety.

4.2.4 Machine transportation location

When the grinder is working, you need to pull out the reset indexing pin on the weight iron, gently lower the weight iron to the transport position (for specific operations, see 3.5) , and adjust the position of the handle and Swing bar to achieve the most suitable transport position.



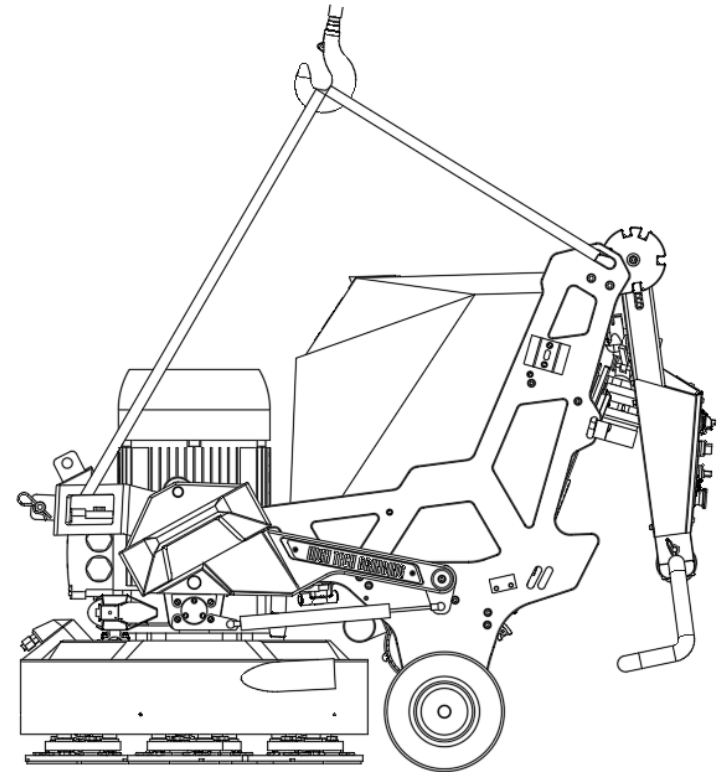
⚠ Notice :

When rotating the supporting wheel, always pay attention to the height of the grinding disc from the ground. It should not be too low to prevent the grinding disc from shaking and colliding with the ground, thus damaging the grinding disc.

It is recommended to support the wheel so that the lowest position of the grinding disc is 25mm from the ground.

4.2.5 Lifting Machine

When lifting the machine, fasten the lifting belt to the two lifting ears on the frame next to the motor and the two lifting ears on the frame near the Swing bar to lift the machine. (Note: Two ropes that can withstand 500 kg are required to tie the machine)



⚠ Notice :

1. When lifting the machine, there is a possibility of personal injury or damage to the machine or surrounding objects. Determine the danger zone and then check to ensure that no one is in the danger zone during lifting.
2. Check whether the rope is fixed firmly to the lifting hole.
3. The two ropes need to be connected diagonally to the lifting ports.



4.2.6 Notes

Please be sure to read the following content carefully, otherwise it may cause unnecessary harm.

1. If the operation is not careful, the grinder may overturn, causing machine damage and personal injury.

2. When you pull out the handle adjustment pin, it may get stuck. In this case, you need to shake the handle while pulling out the pin.

3. When adjusting the handle position, be sure to check whether the handle adjustment pin has been automatically reset before operating the machine.

4. After adjusting the position of the Swing bar, you need to check whether the Swing bar has been limited before operating the machine.

5. When the grinder is adjusted to the position for transportation or packaging, there is a risk of squeezing injury, so please be careful.

6. When lifting or lowering the machine, you must pay special attention to your own safety to avoid injury or damage to the machine.

4.3 Transportation

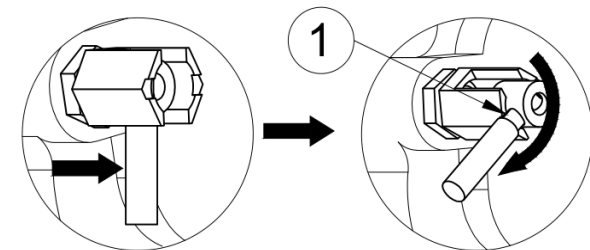
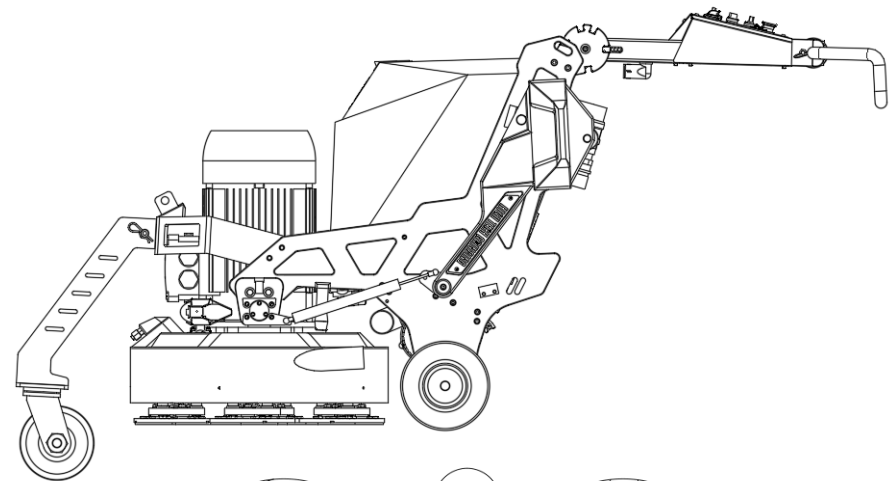
There are two types of transportation for this equipment : manual transportation and electric transportation. During electric transportation, it does not need to be plugged in, and can rely on the equipment 's own reserve battery.

4.3.1 Manual transport

1. Adjust the handle and swing bar to the working position, and the weight iron to the transport position (the specific adjustment actions of each component are described above, and the adjustment is shown in the figure below)

2. Unlocking the clutch device: When the equipment is not working, loosen the clutch device, then pull out the clutch pin, rotate the clutch pin sleeve, clamp the clutch pin on the limit device 1 of the clutch pin sleeve, and tighten the clutch device.

3. Use the handle to push the device .



①Limiting device 1

Notice:

1. The clutch pin may get stuck when you pull it out. Simply shake the device while pulling out the clutch pin.

2. Pay attention to your own safety when lifting the device , and be sure to do it within your ability

3. Before transportation, be sure to take out the grinding disc to prevent it from falling and being lost, causing unnecessary losses.

4. When using the hand-push method, the clutch must be unlocked.

5. When the clutch device is locked, pushing it by hand may easily cause damage to the drive motor!

4.3.2 Electric transport

1. Adjust the handle and Swing bar to the working position, and the weight iron to the transport position (the specific adjustment actions of each component are described above, and the adjustment is shown

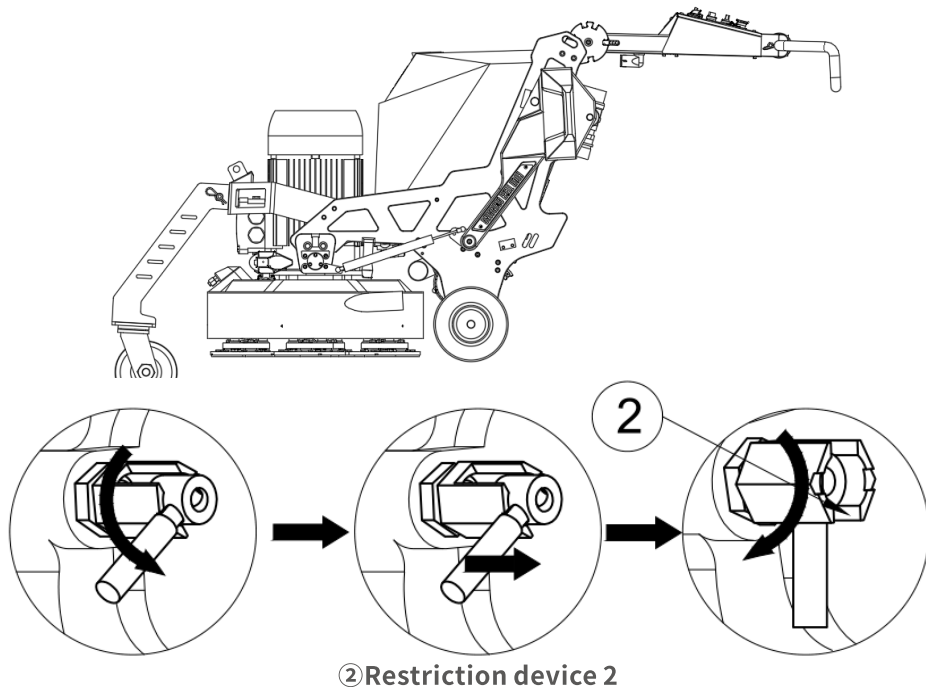
in the figure below)

2. Clutch device locked: When the equipment starts working, loosen the clutch device, then pull out the clutch pin, rotate the clutch pin sleeve, lock the clutch pin on the clutch pin sleeve, and tighten the clutch device.

3. Turn on the general emergency stop on the Swing bar control panel;

4. Turn on the drive wheel switch on the electric control box and adjust the drive wheel speed to above 30;

5. Use the forward/reverse switch for transport.



Notice:

1. The emergency stop switch is turned and pressed, and cannot be pulled out. Otherwise, the manufacturer will not compensate for any losses caused .

2. Before transportation, be sure to take out the grinding disc to

prevent it from falling and being lost, causing unnecessary losses.

3. During operation, be sure to reserve battery power.

4. Be extremely careful when polishing or transporting the floor up and down a slope (maximum slope 17°) .

5. If it is a steep slope, be sure to use a winch. Do not stand behind the equipment .

6. When driving on a slope, check that the battery power is greater than 40% , make sure the clutch is in a locked state, and the AC input voltage must not be lower than 350V.

7. When moving down a slope, the equipment should be driven slowly in the reverse direction .

8. When moving up a slope, the equipment should be driven slowly in the forward direction .

4.3.3 Transportation and storage

1. Be extremely careful when moving a device that is in manual control mode or on an incline . Even a small incline may create a large force that makes it impossible to hold the device with the handbrake .

2. The equipment should not be lifted by its handles, motor, frame or other parts . It is best to transport the equipment after it is securely fixed on a pallet/skid.

3. Never attempt to lift equipment if mechanical means such as a crane or forklift are not possible .

4. Do not use a forklift truck under the planetary grinding head unless the machine is parked on a pallet or bracket. Otherwise, irreparable damage may be caused to the grinding disc and other internal components of the machine .

5. Please secure the equipment during transportation to avoid damage and accidents during transportation.

6. During transportation, the grinding unit should be placed against the ground and the tool plate should always be installed to protect the locking mechanism.

7. Please store this machine in a locked area to prevent children or

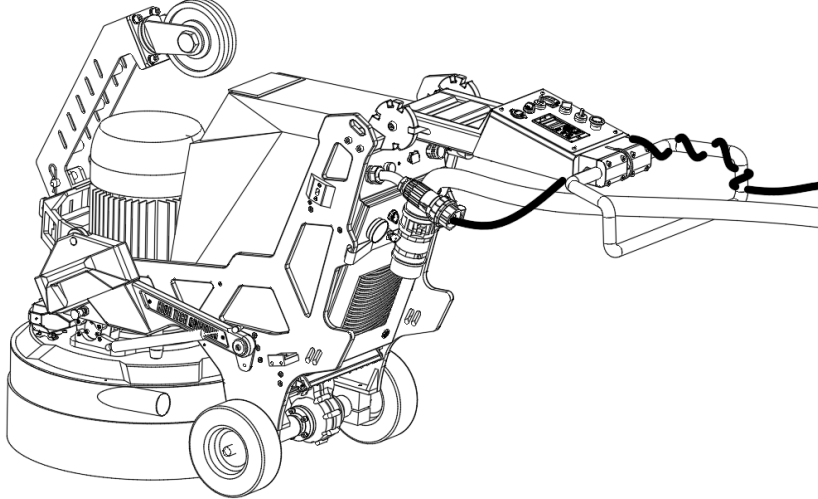
unauthorized persons from accessing it .

4.4 Starting and stopping the grinder

1. Start the grinder:

(1) First move the Swing bar (3.2.1) , handle (3.2.4) , and weight iron (3.5) to the corresponding working positions . Turn over the front guide wheel to install or remove it.

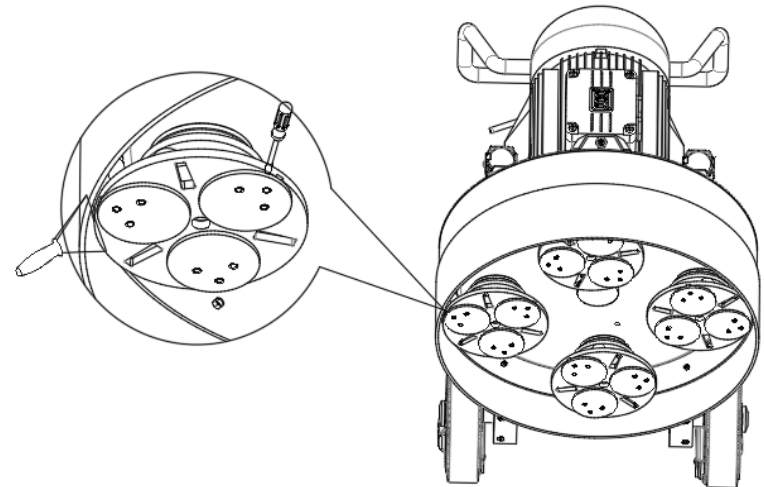
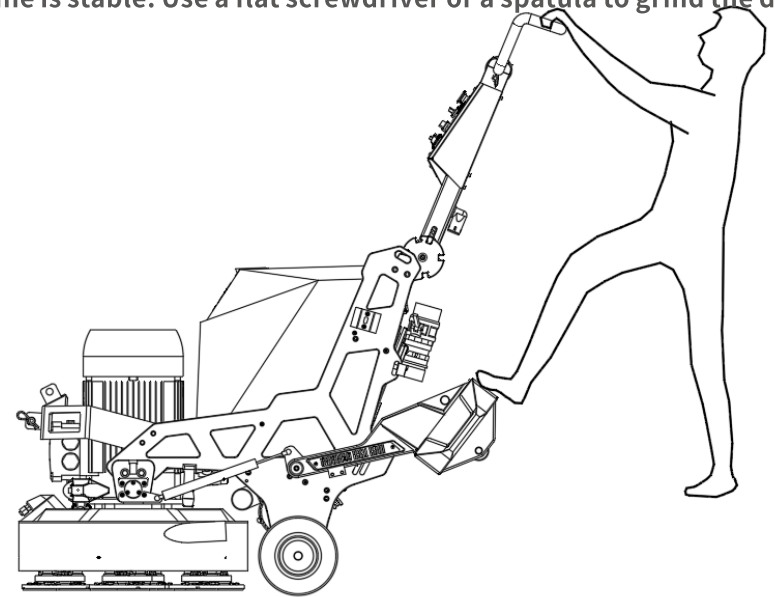
(2) Lock the clutch pin (unlock the clutch pin in manual mode, see the page number added after typesetting for detailed instructions) and plug in the power cord (before this, make sure the emergency stop is in the pressed state and all switches have been reset); if it is in dry grinding mode, connect the vacuum cleaner (if the vacuum cleaner shipped by Xingyi is equipped with a connector, it can be quickly connected to the vacuum cleaner); in water grinding mode, fill the water tank with water.



(3) Turn on the emergency stop switch, turn the speed regulator to adjust the motor speed, turn the switch to the left for the motor to rotate forward (turn it to the right for the motor to rotate reversely), press the forward and reverse switch to control the forward and reverse movement of the machine, and then start the equipment for grinding (if water grinding is performed, the water switch needs to be turned on.)

4.5 Replacing the grinding disc

When replacing the grinding disc, adjust the machine to the tilting position, then tilt the machine and carefully lay it flat. After laying the machine flat, stand next to the machine and check whether the machine is stable. Use a flat screwdriver or a spatula to grind the disc.



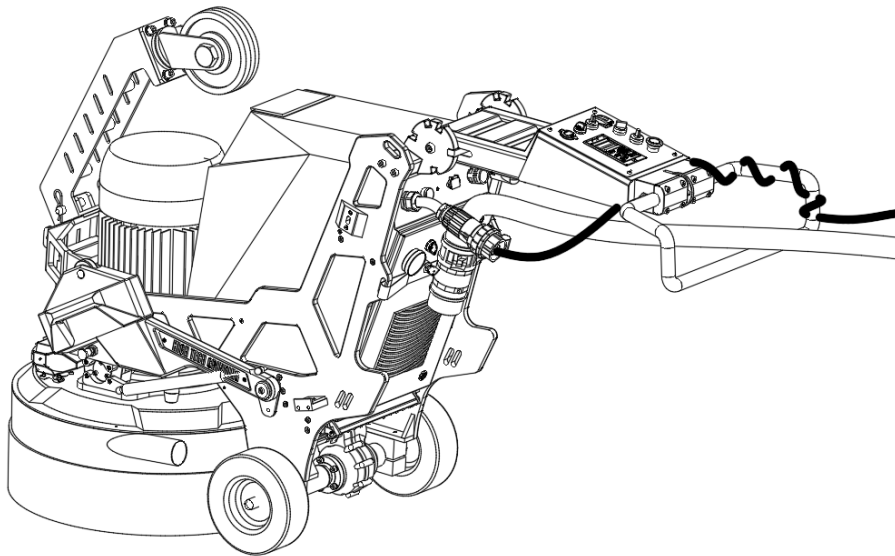
Careful:

1. Make sure the machine does not tilt forward before changing the abrasive;
2. When the machine runs for a period of time, the abrasive, grinding disc and gear box will generate high temperature. Please be careful when changing the abrasive to avoid burns.
3. Make sure the power is unplugged and the emergency stop button is pressed before replacing the grinding disc.

4.6 How to wind the machine working wires

When the machine is working, the wire winding method is particularly important, which can greatly improve your work efficiency and safety. The specific operation methods are as follows:

1. Plug in the external power supply;
2. Pass the power cord through the Swing bar handle;
3. Wrap the power cord around one side of the handle at least twice;
4. Pull the power cord slightly to ensure that there is enough friction to firmly fix the power cord on the handle.

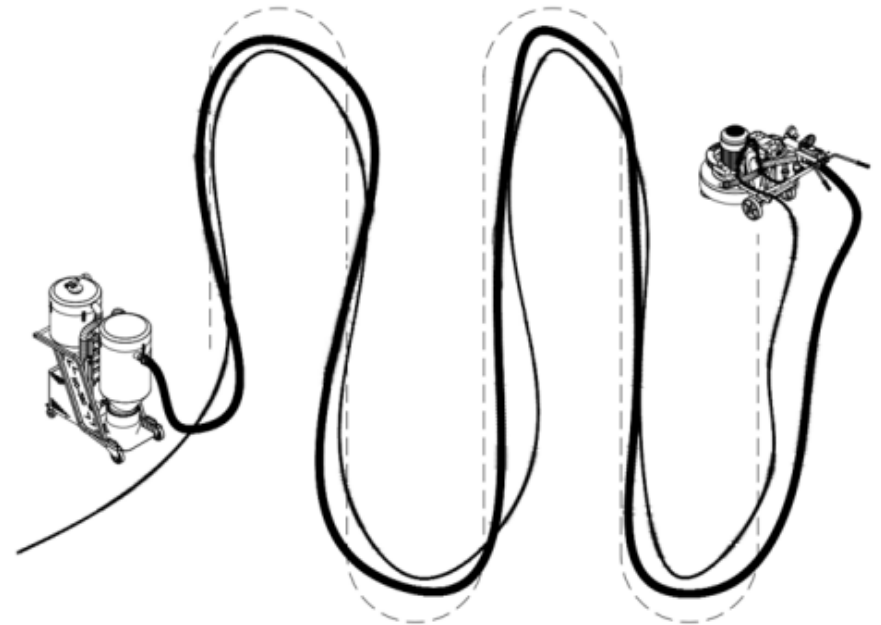


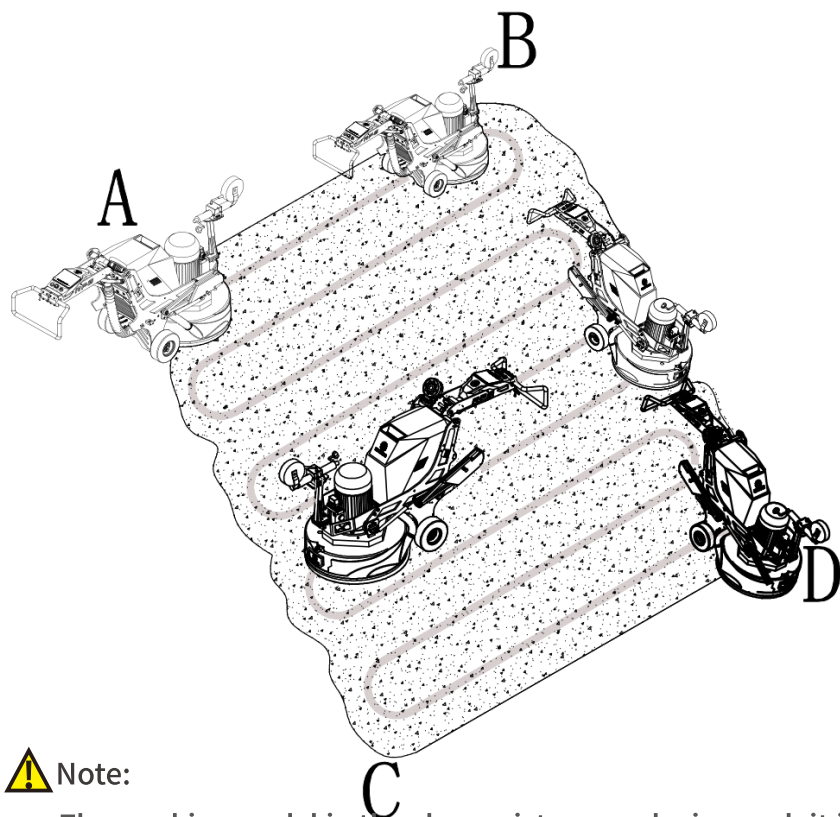
Note:

1. Make sure the power plug and socket are firmly connected;
2. Before plugging in the power plug, make sure the emergency stop button has been pressed and other switches have been reset;
3. Please use the power cord according to the minimum specifications of (add page numbers after typesetting) ;
4. Please use the correct power supply.

4.7 Optimal grinding route

When grinding the floor, you should grind it in the shape of #, so that the grinding effect will be better. When grinding the floor in the shape of #, the grinding direction of the grinder should be such that the wire is pulled farther and farther, so as to further avoid the wire interfering with the normal operation of the grinder.





Note:

The machine model in the above picture can be ignored, it is only for reference of grinding route and winding method.

4.8 Precautions

Please be sure to read the following content carefully, otherwise it may cause unnecessary harm.

1. During the grinding process, you must always pay attention to the working conditions reflected by the working indicator light on the electronic control.

2. When grinding, pay attention to observe the wires while grinding to prevent the wires from being compressed.

3. During the grinding process, be sure to pay attention to nearby obstacles to avoid machine damage and personal injury.

4. Before grinding, check the safety of the working area. For details, see (2.2.2)

5. Equipment maintenance

5.1 Overview

We recommend that you inspect your grinder regularly to extend its life.

Notice:

During maintenance and repair, the grinder must be disconnected from the power supply.

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

5.2 Daily inspection

5.2.1 Check the switch

Connect to three-phase power supply and detect emergency stop, machine start, speed regulation and other functions of the control panel

Notice:

For safety reasons, it is strongly recommended that you remember to press the emergency stop switch when stopping the machine so that all switches are reset, which is safer.

5.2.2 Check the grinding disc cover

When there is a lot of dust, it is easy to cause the dust suction pipe on the grinding disc cover of the grinder to be clogged with dust. Use a flashlight to illuminate the dust suction pipe to see if there is any dust blocking it. Clean it if necessary. (3.8)

5.2.3 Check the grinding disc

When the grinder is working for a long time or there is a lot of grinding dust, the conversion block of the grinding head may be stained with dust. Too much dust and not cleaning it in time will cause the grinding head and the conversion block to not fit well, affecting the grinding efficiency. In more serious cases, it will cause the abrasive to fall and cause an accident. Remember to clean it when necessary. (5.3.3)

5.2.4 Long-term storage of batteries

During long-term storage, the reserve battery should be maintained and charged once a month.

5.2.5 Note

Remember to use protective equipment when performing maintenance inspections, such as protective gloves, protective masks, insulated shoes, etc.

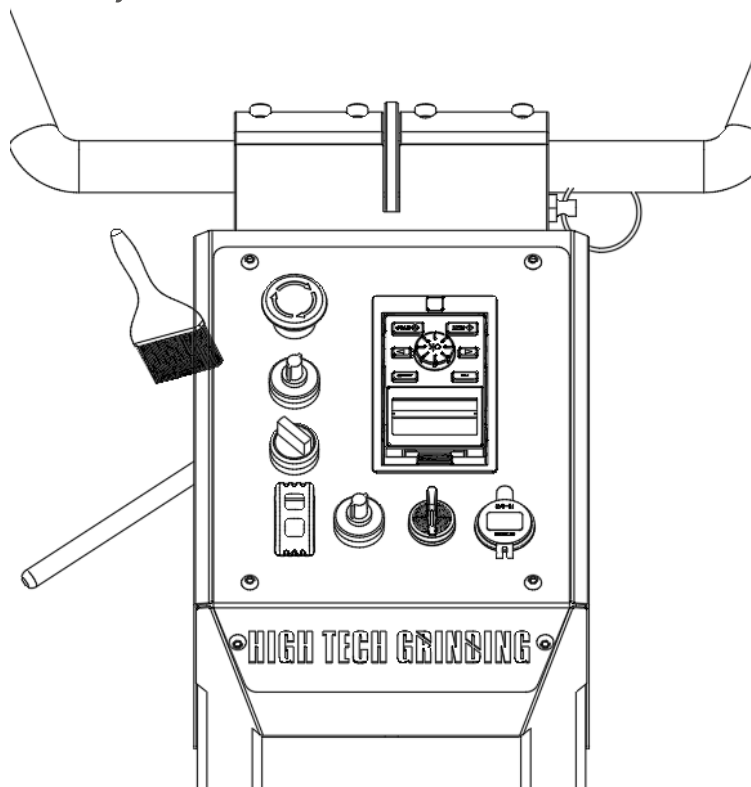
Inspection and maintenance can only be carried out after pressing the emergency stop button and unplugging the power supply.

When you lift up the machine, remember to check whether the machine is level before checking the grinding disc.

5.3 Cleanup

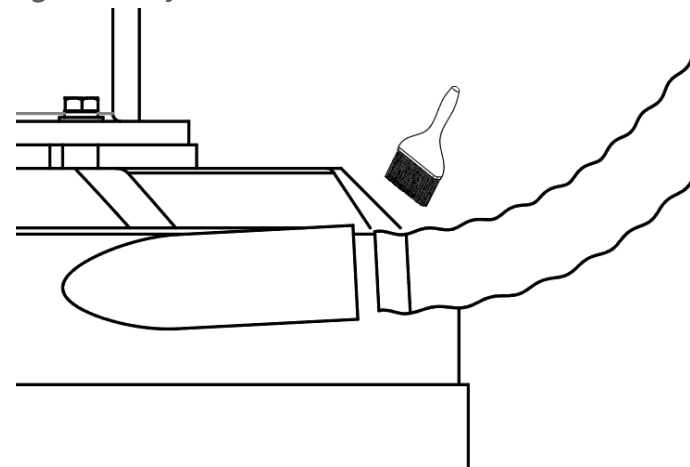
5.3.1 Cleanup switch

The grinder works on the construction site for a long time, and dust will inevitably get into the switch. Therefore, after each operation of the grinder, you should check whether the switch part is blocked by dust, which may cause the switch to malfunction.



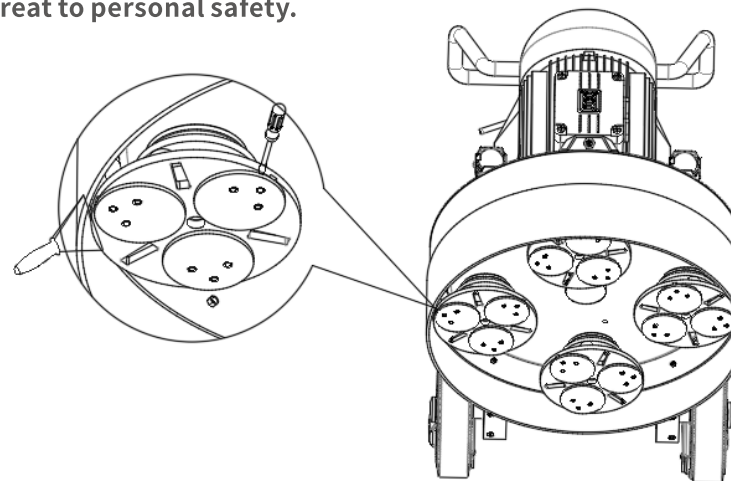
5.3.2 Cleaning the grinding disc cover

Remove the vacuum hose interface, illuminate the vacuum hose opening with a flashlight, and use a brush to clean the dust at the vacuum hose opening to prevent it from clogging and affecting the vacuuming efficiency.



5.3.3 Cleaning the grinding disc conversion block

Lift the equipment, use a Phillips screwdriver to lift off the grinding disc, and use a shovel to remove the dust. If it is not cleaned in time, the grinding disc may not be firmly bonded, and the disc may fly during the grinding process, causing damage to the equipment and a threat to personal safety.



5.3.4 Note

1. Always unplug the plug from the socket before cleaning, maintenance or assembly.
2. Be sure to clean the entire device after each workday. Do not use a high-pressure cleaner to clean the device directly .
3. In order to effectively cool the equipment , the cooling air outlet must be kept unobstructed and clean.

5.4 Battery Disposal

5.4.1 Overview

The battery in the machine is a lead-acid battery. In extremely cold conditions, the battery capacity will decrease and the service life will be shortened. Any modification to the battery is prohibited.

The battery must be charged at an ambient temperature between 0°C and 40°C, and only the original battery and charger provided by the manufacturer should be used. For details, please consult your local dealer.

Used batteries must not be disposed of as household waste! Send used batteries to your nearest maintenance shop or recycling point for disposal.

5.4.2 Reserve Battery

The reserve battery can only be used in transport mode. Grinding operations must not be performed in battery mode . The machine must be connected to a power source for grinding operations.

When the machine is connected to a three-phase power source and in operation, the reserve battery is always in a charging state. The power level is shown on the power indicator, allowing you to monitor the reserve battery level at all times.

The machine battery needs to be charged using the charger provided by the manufacturer (the specific operation is shown in the figure below).

When the machine is not running, the emergency stop switch can be reset and the power supply can be connected to charge the battery.

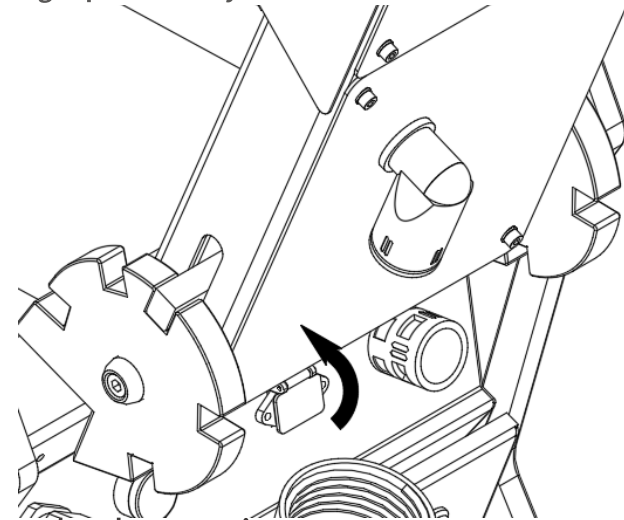
The design life of lead-acid batteries is 1-2 years .

Note:

Note: When storing for a long time, the battery should be charged by first plugging into a 3-phase power source, releasing the emergency stop, and then pressing the battery start system, so that the battery can be charged.

5.4.3 Reserve Battery Charging

When the equipment 's reserve battery is out of power (the power indicator on the inverter box is less than 20%) , you need to charge the reserve battery. Open the cover of the charging port and charge it with the charger provided by the manufacturer .



5.5 Overload protection

The frequency converter of this equipment is equipped with overload protection. When the equipment is overloaded, the display screen on the control panel will show that the equipment is overloaded. At this time, it is necessary to cut off the power, reduce the load, let the machine stop working for 10-30 minutes (depending on the heat of the motor), and then start the machine.

5.6 Maintenance

Any repairs that may be required must be performed by Xingyi Service Center trained service personnel and using Xingyi original parts and accessories. If your device requires repair, please contact your retailer.

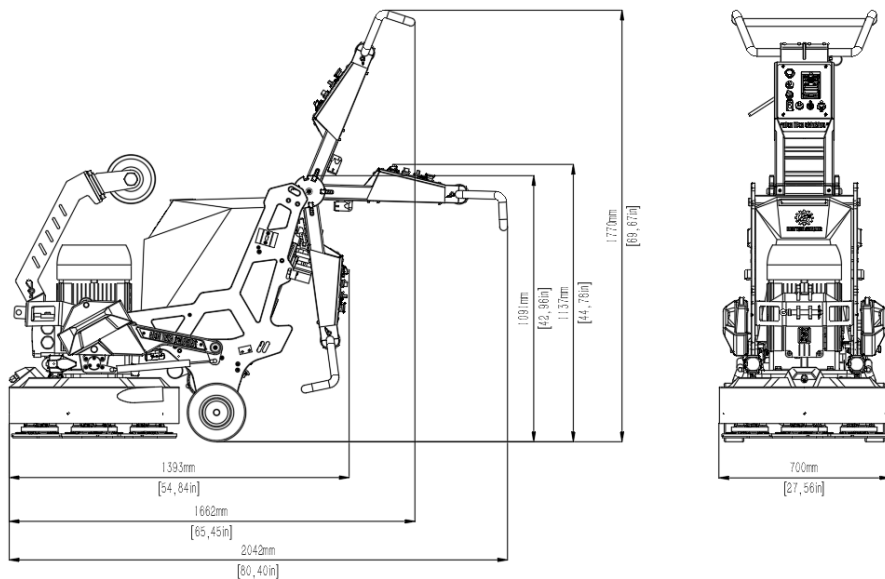
6.Common problems and solutions

This chapter describes some possible faults and how to deal with them. If they cannot be solved or an error occurs, please contact your nearest retailer.

	HTG-680SP
Motor power	11KW /15HP
Rated voltage	3P380V
Rated current	23.4A
Input Hertz	50HZ/60HZ
Frequency Converter	11KW/15HP
Grinding width	678mm/26.7in
Grinding disc size	Φ 230mm/Φ9.1in
Grinding speed	350 ~ 1680 r/min
Grinding and pressing (heavy iron in front)	310 KG
Grinding pressure (with heavy iron in the middle)	252KG
Grinding pressure (with heavy iron at the back)	229 KG
Working position length F × width L × height A	2042×700×1137mm/80.40×27.56×44.78in
Warping position length E × width L height C	1662×700×1770mm/65.45×27.56×69.67in
Packing size: length D × width L × height A	1393×700×1091mm/54.87×27.56×42.96in
Longest F × Widest L × Highest C	2042×700×1770mm/80.40×27.56×69.67in
Machine weight	527KG
Wire model	3*6+1*4 mm ²
Storage temperature	- 20 ~ +60° C / - 4 ~ +140° F
Operating temperature	- 10 ~ +40° C / + 14 ~ +104° F
humidity	Below 95% (no condensation)

7. Technical data

Problem	Possible reason	Solution
Cannot start the machine	The emergency stop switch is pressed	Turn on the emergency stop switch
	Motor is stuck	Troubleshooting motor jam
	Power system and cables are damaged	Contact a Licensed Electrician
	Not operating according to specifications	Refer to the operation instruction video
When turned on, the machine emits a low humming sound	Motor burnt out	Replace the motor
	Three-phase power failure	Contact a licensed electrician or check whether the input power is three-phase input.
The machine is difficult to control or the motor consumes a lot of current	Too few diamonds under the machine or wrong type of tool applied	Use the number of diamonds recommended by Xingyi to reduce stress on the grinder and operator
Lead-acid battery built into the machine 1. charge when using three-phase power 2. Cannot charge using dedicated charger	Three-phase power supply voltage is lower than 320V	Make sure the voltage is not less than 320V
	lead-acid battery is used to 0	Charge for 2 hours with a dedicated charger
	The battery is damaged, or has been charged and discharged for more times than its lifespan	Consider replacing the battery
	Dedicated charger is damaged	Replace the charger
Machine jump	The diamond may not be installed correctly or at a different height	Correctly install diamonds with the same height
	Is the chassis flat?	Adjust and install the chassis
The machine moves forward or backward out of control	Electric rear axle clutch not locked	Lock the electric rear axle clutch
	Servo motor, servo controller failure/remote control receiver failure	Contact the manufacturer for repair
	Is the key connecting the wheel and the drive damaged?	Check and contact the manufacturer for repair or replacement of damaged keys.



The table and pictures above show the technical data and dimensions of the grinder.

8. Warranty

Warranty Policy

Xingyi is not responsible for equipment damage caused by transportation, unpacking, or improper use. Local dealers may have specific warranty terms. Please contact the local dealer for specific terms.