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Manual of 855LE Floor Grinder

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1. Introduction

1.1 Summary

Xingyi machines are used for treating floor surfaces. The range of use depends on the tool selected. In addition to instructions and general features, this manual provides information on the use, repair, and maintenance of the grinder. For further information, contact your local retailer.

1.2 Responsibility

While we have made every effort to make this manual as complete and accurate as possible, 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 reproduced or used without the written consent of Xingyi.

1.3 Packing list

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

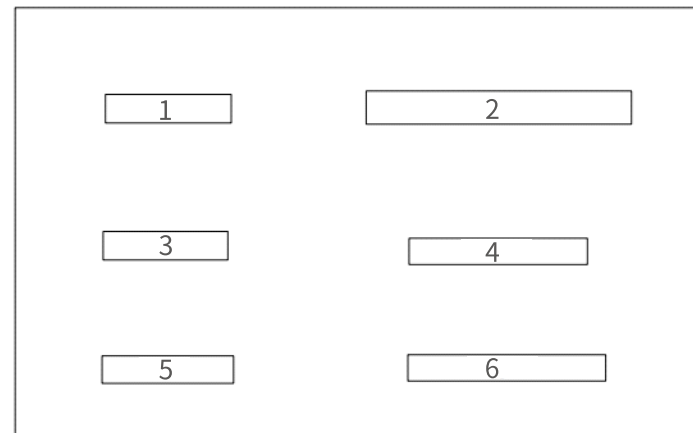
- (1) Grinder*1
- (2) Manual*1
- (3) Socket*1
- (4) Dust skirt*1
- (5) Electrical cabinet key*1
- (6) 4-inch Velcro-adapter*12 (another 12 are installed on the machine base)
- (7) Remote toolbox (including remote control, charger, battery, and strap)*1
- (8) Lead-acid battery charger*1

1.4 Receiving goods

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

Check that the delivery matches your order. If you have any questions, contact the retailer.

1.5 Machine information metal plate



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

1.6 Processing and storage

When not in use, the grinder should be stored in a dry place at room temperature. Otherwise, it may be damaged by condensation and cold. The dimensions and weight of the grinder are given in the technical data. (See P51)

1.7 Warranty

This warranty covers manufacturing defects only. Xingyi is not responsible for damage occurring during shipping, unpacking, or use. Under no circumstances will Xingyi be liable for damage or defects caused by improper use, corrosion, or use beyond the specified specifications. Xingyi 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 you have any questions about the warranty terms, please contact your retailer.

2. Risk List

2.1 General safety instructions

 **Warning:** Please read the following carefully before using the machine.

1. This manual lists important information for using this machine and operating it safely! Please 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 hazards during operation.
6. Do not operate this product when you are tired, sick, under the influence of alcohol or drugs, or in poor physical condition.
7. Keep this device out of reach of children.
8. This machine only requires one person to operate. Be careful not to allow children or unauthorized personnel to approach the machine while it is operating. Maintain a safe working distance and remember the "one machine, one person" rule.
9. Do not modify the product at will, and do not use illegally modified products. Only personnel designated by Xingyi can perform repairs and modifications using accessories provided by Xingyi.
10. Keep the product clean and ensure you can clearly read markings and labels.
11. Make sure the product you are using is intact and undamaged to ensure safe use.

2.2 Operation safety instructions

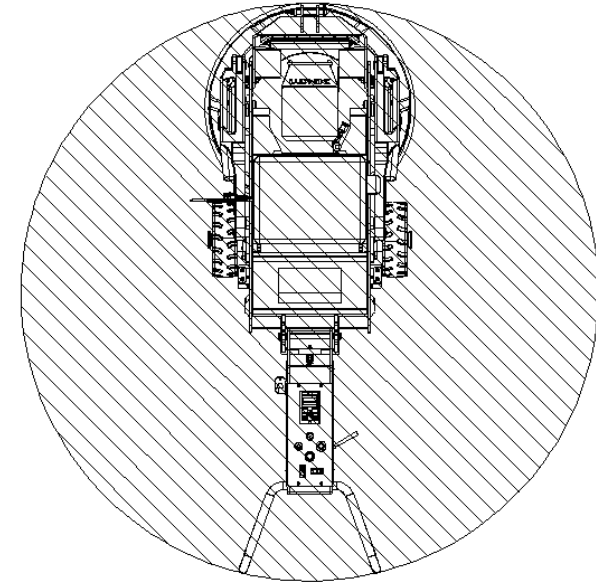
 **Warning:** Please read the following carefully before using the machine.

1. When working, you should be equipped with 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 should only be used in the manner recommended by Xingyi. Please read and understand the operating instructions in the machine manual. Different models have different accessories and control operations. Incorrect operation may cause safety problems.
4. This machine must be operated at a slope of less than 20°. The company will not be held responsible for any accidents caused by operation at a slope greater than 20°.
5. When driving on a slope, it is necessary to check that the battery power is greater than 40% and ensure that the self-locking indexing pin is in the locked state.
6. When the machine is operating, the operator must not leave the product and ensure that the product is operating normally within sight.
7. When leaving this product, press the emergency stop switch and disconnect the power cord.
8. Before operation, ensure that the dust skirt is installed on the machine to prevent dust from being inhaled into the lungs and causing harm, and to prevent the soles of the feet from accidentally touching the grinding disc.
9. Do not pull the hose to prevent the machine from tipping over and causing injury.
10. During operation, ensure that the machine is in a safe and stable position to prevent personal injury during operation.
11. The body, hair, jewelry, and loose clothing should be kept away from moving parts of machinery, as they may cause physical injury.
12. If you find any abnormal operation of the machine, such as abnormal vibration, abnormal noise, etc., you should stop using the machine immediately and ask authorized dealers and maintenance personnel to check whether the machine is damaged and repair it.

2.2.1 Personal protective equipment

1. When operating this equipment, please ensure that you wear personal protective equipment that meets the standards to reduce the harm caused by accidents.
2. Do not wear loose clothing 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 the 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 with steel toes and non-slip soles are required to prevent slips and foot injuries.
6. When the machine is working, it will generate noise and dust. You must wear protective earmuffs and masks to avoid noise damage to your ears and dust inhalation into your lungs to damage your respiratory tract.
7. A certified 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, no one other than the operator is allowed to enter this area, and operators in this area must be extra careful during operation.
2. Do not use the machine in rain, lightning, dense fog, strong wind or other adverse conditions.
3. When operating the machine, do not operate it near explosive or flammable materials or vapors. Do not operate the machine near dust, solvents, thinners or other flammable substances.
4. The 855LE can be remotely operated via a remote control. During remote operation, ensure that the machine and hazardous objects are within your field of vision to avoid accidents.
5. Before the equipment is put into operation, check the ground area to be ground and remove any hard objects such as bolts and nails that may cause damage to the abrasive or equipment. For hard objects such as steel bars and expansion screws protruding from the ground, use a cutting machine to clean the part that is protruding from the ground in advance.

2.3 Electricity safety instructions

 **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 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 in a safe condition)
4. Xingyi will not provide warranty for other losses or malfunction caused by continuous use of the machine under overload conditions.
5. The purpose of installing a frequency converter on a machine is to regulate speed and protect the safety of users and the machine. Modification or adjustment of the frequency converter, or unauthorized modification of frequency converter parameters without Xingyi's consent, is prohibited. If the device malfunctions, only Xingyi-provided replacement parts may be used. (Xingyi will not provide warranty coverage for any damage or machine malfunction caused by modification or adjustment of the frequency converter, or unauthorized modification of frequency converter parameters.)
6. Never modify the internal parts or circuits of the frequency converter 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 disconnect 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 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 frequency converter, 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. (Xingyi will not provide warranty for any other damage or malfunction of the machine caused by water ingress)

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

2.4 Safety warning signs



Please read and understand the instructions before using this equipment.



It is necessary to wear ear muffs, protective glasses, and avoid noise that can harm the ears and foreign objects that can harm 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 bolts are tightened, otherwise personal injury may occur.



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



High voltage danger, 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 mark.



Please do not make unauthorized changes to the electrical circuit or software of the machine.



Note the voltage: 380V 3 Phase



Note the voltage: 220V 3 Phase

3. Machine Overview

The 855LE is designed for treating various floor types. It is designed for grinding (rough grinding, sanding, polishing) concrete, natural stone, and terrazzo floors, or other materials specified in this manual or recommended by Xingyi. It can be used for a variety of applications, from rough grinding to fine polishing. This machine is intended for commercial applications such as hotels, schools, hospitals, factories, and offices.

855LE is equipped with radio control, which can realize remote control of the machine's movement at a certain distance. Settings can be changed and operation can be completed with just a few switches. The HMI on the remote control makes it easy for the operator to make adjustments and monitor system information, making operation more convenient for the user. The machine is equipped with a digital color display and the handheld remote transmitter is equipped with a 3.5-inch digital color display.

The operation handle and handle can be set to many different tilt positions. When the machine is manually operated, the most suitable position can be selected. The grinding head of the machine can be used with different grinding discs for grinding operations.

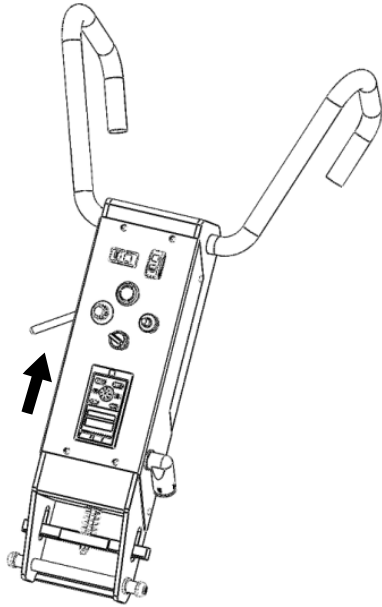
Equipped with a water tank so that the machine can not only dry grinding, but also wet grinding.

When dry grinding, always ensure a vacuum cleaner is connected to the grinder (preferably a compatible Xingyi vacuum cleaner for optimal performance). This prevents dust from being exposed to the air and posing a health threat to the operator, the operator, and nearby personnel. Inhaling dust is harmful, so even when using a vacuum cleaner, wear a protective mask to protect your health.

This machine can use different Xingyi abrasives, and the abrasives used in grinding are different depending on the different ground materials.

3.1 Operation handle angle adjustment

The adjustable operation handle mechanism uses a handle to control the position of the operation handle to accommodate changes in machine placement in different states (see P12). Hold the handle with one hand to support the operation handle, and with the other hand, pull the handle upward without moving it. Once the operation handle is rotated to the desired position according to the holes in the welding piece, release the handle.

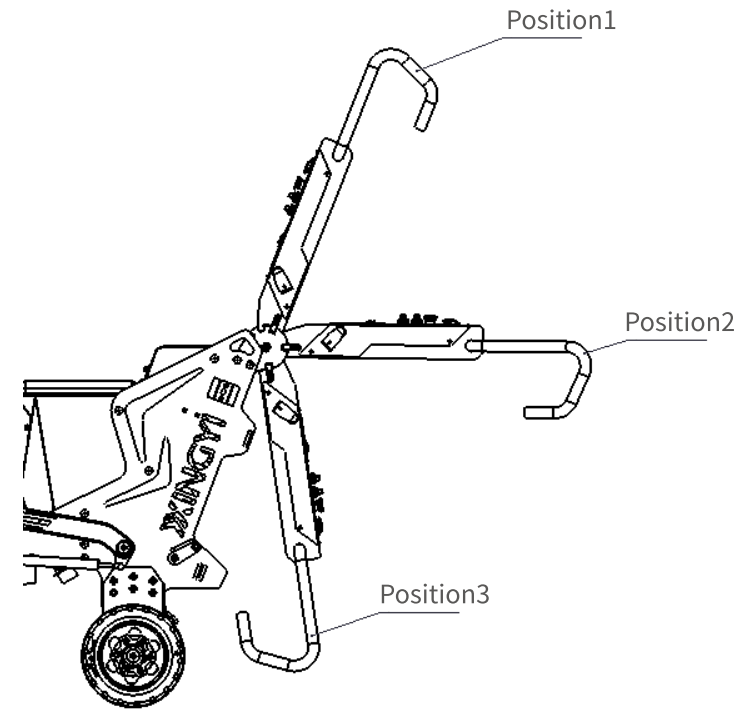


Be careful:

1. After adjusting the position of the operation handle, you need to check whether the operation handle has been limited before operating the equipment.

The operation handle is heavy, so hold it steady with one hand!

3.2 Description of operation handle position locking



Adjust the operation handle angle adjustment bar to switch the angle of the operation handle:

When replacing abrasives or when the machine is tilting, the operation handle should be in position 1.

When the machine is operating, the operation handle should be in position 2.

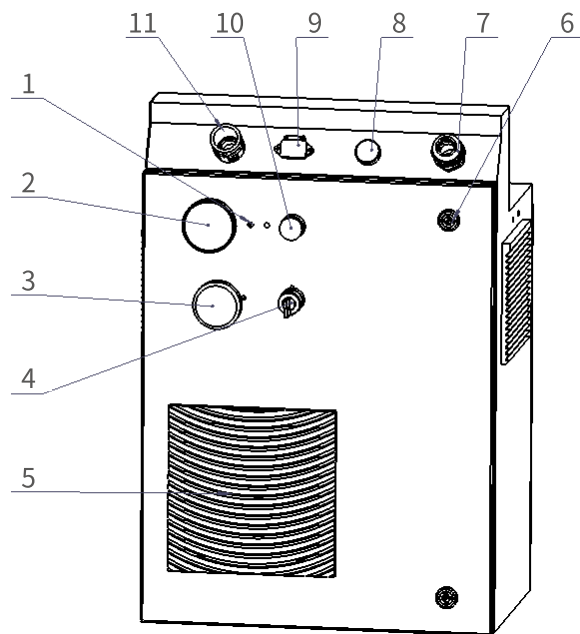
During machine transportation, the operation handle needs to be in position 3.

Attention:

1. After adjusting the position of the operation handle, it is necessary to check whether the operation handle has reached its limit before operating the equipment.

2. The operation handle is heavy, so make sure to hold it steady with one hand!

3.3 Electrical cabinet components

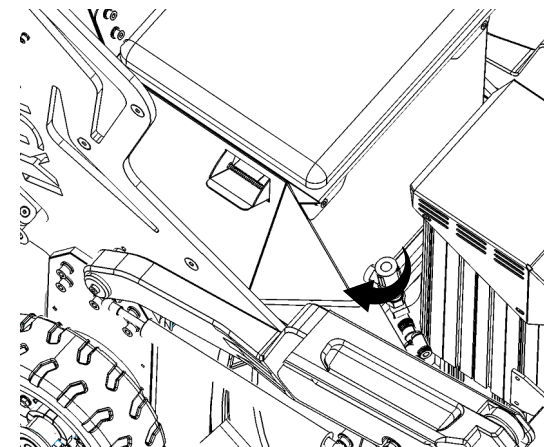


1. Indicator: Remote control status indicator.
2. Multi-functional battery panel: Display the amount of battery power reserved by the machine, as well as the machine's operating time.
3. Power-off switch: Used to cut off the entire circuit.
4. Key switch: Remote control and manual conversion.
5. Vent filter: It plays a role in heat dissipation to prevent the internal temperature of the inverter cabinet from being too high, which may cause the components inside the inverter cabinet to burn out.
6. Cabinet lock: The inverter cabinet can be locked with a key.
7. Cable gland: Used for connecting circuits and protecting cables.
8. Charging indicator: Displays the battery level during charging.
9. Battery charging port: The battery can be powered through an external power source.
10. Red indicator: It illuminates to indicate a fault.
11. Cable gland: Used for connecting circuits and protecting cables.

3.4 Water tank

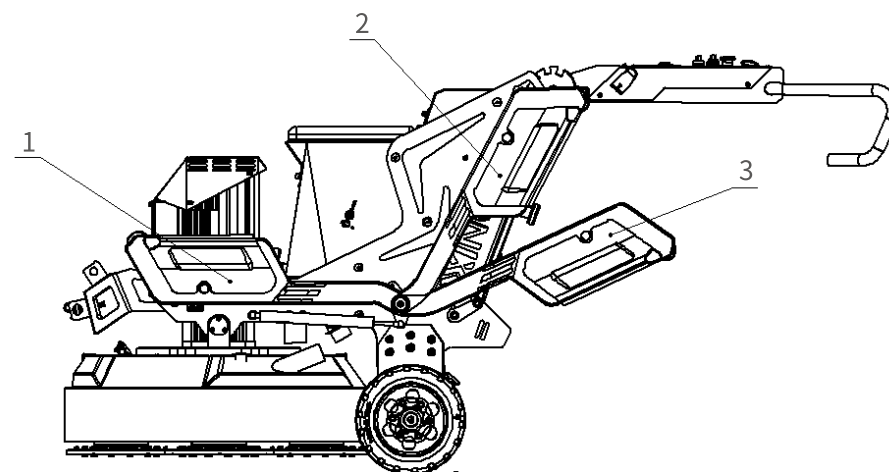
There is a water tank cap on the side of the water tank. By opening the cap, water can be poured into the tank.

In manual grinding mode, when the machine is about to perform wet grinding, rotate the tap to activate the machine chassis to spray water, and then the wet grinding can be carried out.



①Water tank filler ②Tap

3.5 Counterweight



①Working position ②Transportation position ③Tilt position

The counterweight has three different positions, corresponding to the transportation position, the tilt position, and the working position on the machine. The adjustment of the counterweight position mainly relies on the spring pin and the limiting device on the frame to achieve the purpose of limiting.

1. When pressure needs to be increased on the grinding disc, the counterweight should be placed at position 1.
2. When the grinding disc requires normal pressure, the counterweight should be placed at position 2.
3. When the grinding disc needs to reduce pressure, or when the machine tilts, the counterweight should be placed at position 3.

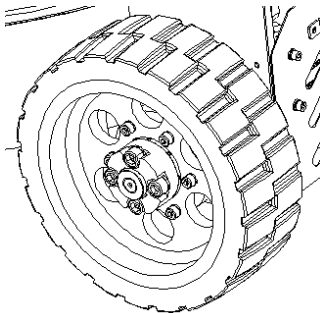
Notice:

1. The counterweight is very heavy, please handle it with care, otherwise it may cause personal injury or damage to the machine.
2. Please hold the handle of the counterweight to adjust it. Improper movement of the counterweight may cause your hand to be pinched and cause personal injury.

3.6 Traction wheel clutch

Lock the clutch: Use a 10mm Allen key to tighten the four bolts of the clutch in the middle of the wheel.

Clutch unlocking: Use a 10mm Allen key to loosen the four bolts of the clutch in the middle of the wheel, ensuring that the loosening distance is greater than 8mm but the bolts do not fall out of the wheel.



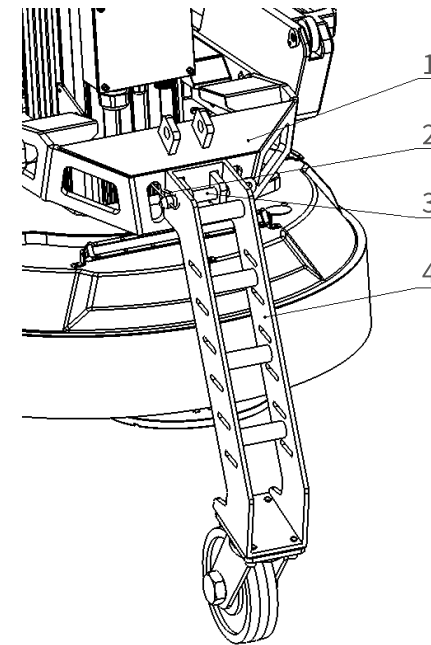
3.7 Front wheel

3.7.1 Disassemble of the front wheel

Before transporting by walking, assemble the front wheel to ensure smoother steering of the grinder. When transporting the machine, there may be times when it needs to move forward or backward, so installing front wheel can facilitate and save effort in moving the grinding machine. During grinding, it may need to be disassembled or flipped over.

Remove the front wheel: First, press the emergency stop switch, unplug the power plug, loosen the R-type pin, remove the locating pin outwards, and then horizontally remove the front wheel.

Install the front wheel: First, press the emergency stop switch, unplug the power plug, align the front wheel with the pin hole of the front wheel support frame, then insert the locating pin to fix the position, insert the R-type pin, and secure the locating pin.

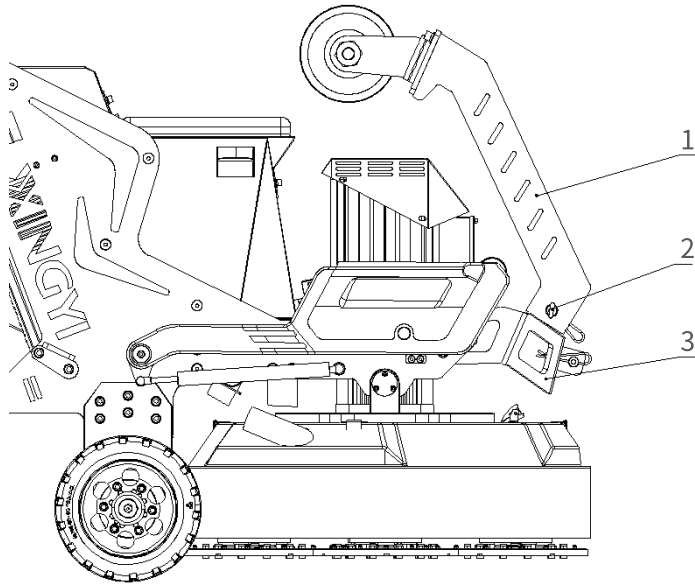


①Front wheel support frame ②R-type pin ③Locating pin ④Front wheel

 **Note:** When pulling out the pin, it may get stuck. You can pull it out while shaking the front wheel.

3.7.2 Flipping of the front wheel

1. Unlock the R-type pin first and remove the locating pin (Number ②) forward.
2. Then assemble the front wheel (Number ①) in the rotation direction to the slot behind the front wheel support frame (Number ③).
3. Insert the locating pin again and insert the R-type pin to secure the locating pin.



①Front wheel ②Locating pin ③Front wheel support frame

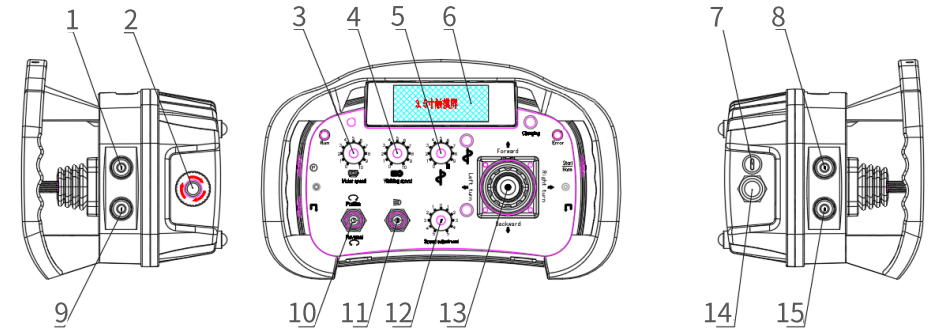
Notes:

The front wheel must be lowered to its lowest position before it can be flipped over.

When pulling out the pin, it may get stuck. Just shake the front wheel while pulling out the pin.

3.8 Remote control equipment

3.8.1 Remote control - control panel



1. Adjust interface switch.
2. Emergency stop switch: Controls the activation or interruption of radio usage, causing the machine to stop working.
3. Motor speed regulator: Controls the speed of the grinding disc drive motor.
4. Traction wheel speed regulator: Controls the travel speed of the machine.
5. Swing grinding adjustment switch: Controls the amplitude of left and right swing of the machine's S-type grinding.
6. HMI: Mainly displays some parameters, such as voltage, current, motor speed, overload fault prompt, etc.
7. Type-C charging port: Used for charging the remote control.
8. Brake switch: Controls instantaneous braking of the traction wheel.
9. U-turn left switch: Press to make the machine turn left.
10. Motor forward-reverse switch: This switch has three positions: pushing forward controls the motor to rotate forward, the middle position controls the motor not to rotate, and pushing backward controls the motor to rotate in reverse.
11. LED switch: Controls the switch of the spotlight at the bottom of the inverter cabinet.
12. Left and right wheel speed regulator: Ensures that the machine performs straight-line grinding. When the machine deviates slightly to the right (left) from the straight line, turning the switch to the left will reduce the speed of

the left wheel, causing the machine to deviate to the left (right) and maintain a straight-line walking route.

13. Directional control joystick: Controls the machine to move forward, backward, turn left, and turn right.

① Turn the directional control joystick to the center. The machine will move at the speed set on the travel speed controller.

② Push the directional control joystick backward slightly. The machine will move backwards at the speed set on the travel speed controller.

③ Push the directional control joystick hard to the extreme left, and the machine will coordinate the left and right wheels to turn left according to the minimum turning radius.

④ Push the directional control joystick hard to the extreme right, and the machine will coordinate the left and right wheels to turn right according to the minimum turning radius.

⑤ Push the directional control joystick to the middle left, and the machine will turn the left wheel and turn left.

⑥ Push the directional control joystick to the middle right, and the machine will turn the right wheel and turn right.

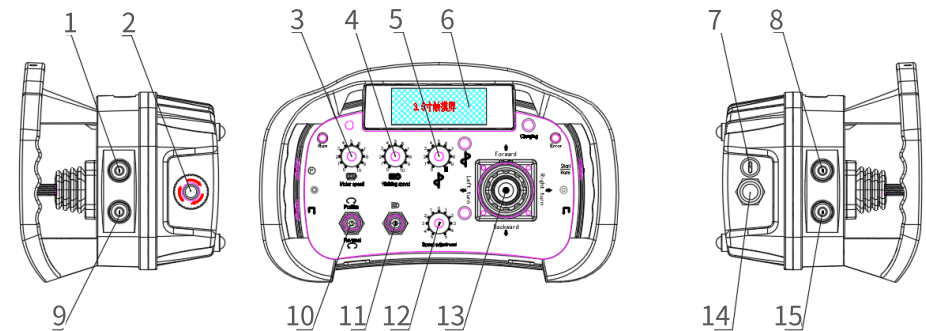
⑦ After the machine completes the turn, the joystick is reset and the machine moves according to the forward or backward command set in the previous step.

⑧ Machine travel speed: 0-28.3m/min.

14. Power switch: Controls the power supply.

15. U-turn right switch: Press to achieve the right turn action of the machine.

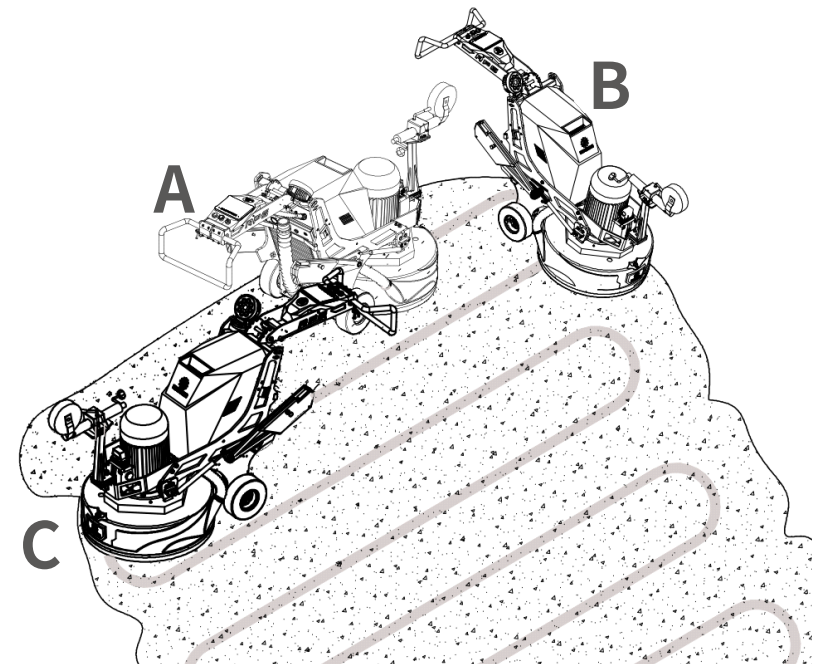
3.8.2 U-turn



When the machine is grinding, if machine A needs to turn during straight grinding, you can press NO.15 U-turn right switch to turn right (or press NO.9 U-turn left switch to turn left according to your needs) to turn into machine B and grind while turning, and finally grind in straight line in machine C.

Attention:

The actual turning point is between the two rear wheels, so when turning, a 40cm space must be reserved at the front. It is not recommended for novices to use one click turning when close to a wall.

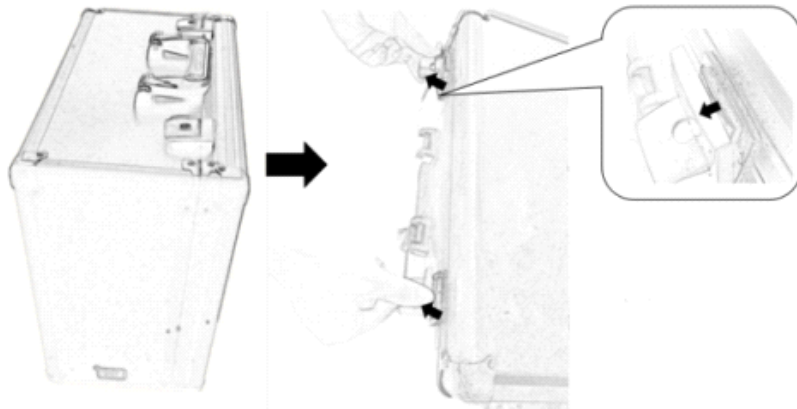


3.9 Remote control tool box

3.9.1 Use of remote control

List in remote control toolbox:

- ① Remote control*1
- ② Battery*1
- ③ Strap*1
- ④ Charger*1
- ⑤ Toolbox*1



① Remote control ② 18650 Battery ③ belt ④ Charger

⚠ Note:

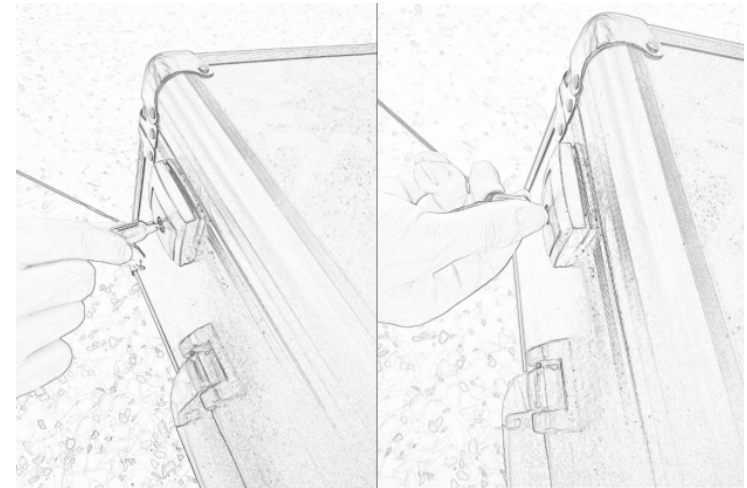
When opening the remote toolbox, be sure to first place the lid of the box steadily before taking out or putting in the device.

Remember to wear protective gloves, insulated shoes, and other protective gear during the operation process.

3.9.2 Lock the remote toolbox

For the safety of your property and transportation, a locking device has been equipped on the remote toolbox. The key is located at the bottom of the compartment where the remote control is placed in the box. Please check carefully when receiving the goods.

When locking, you just need to insert the key into the keyhole outside the box and turn it clockwise to lock. To unlock, simply turn it in the opposite direction.



⚠ Note:

1. When locking, make sure the lock is successfully engaged. To do this, check if the switch to open the box can be moved. If it cannot be moved, it indicates that the lock is successfully engaged. Be careful not to use too much force when confirming, as this may damage the locking mechanism.

2. When locking, do not apply excessive force when rotating the key to avoid breaking it.

3. Take care of the key and don't lose it.

3.9.3 Use of remote control

Installation of remote control battery: Please check the battery power before installation to avoid malfunction due to insufficient battery voltage; pay attention to the direction of the battery during installation and ensure that the battery is installed securely; remove the battery when the remote control is not used for a long time.

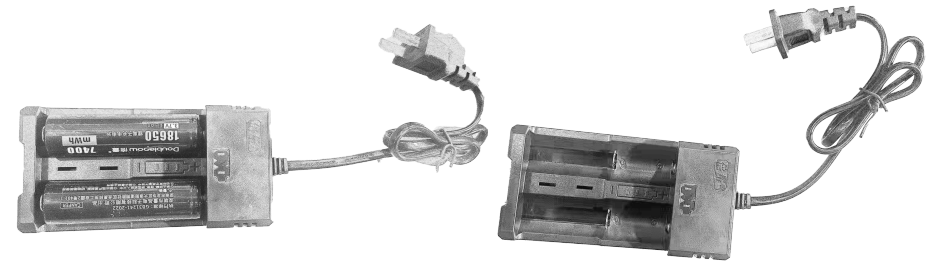
Location of remote control: The remote control should be placed in a safe and conspicuous place to avoid it from falling and being damaged.

To turn on the remote control: Put a fully charged OHM battery pack into the battery box, release the emergency stop switch on the remote control, and long press the "start" switch until the green light is on and flashes once per second, which means it is turned on normally.

To turn off the remote control: Press the emergency stop switch on the remote control, the power indicator goes out and the remote control turns off.

Power indicator: If the green light flashes once per second, it indicates that the remote control is working properly; if the red light flashes once per second accompanied by a buzzer sound, it indicates that the battery voltage of the remote control is low; if the red and green lights flash alternately, it indicates that the smart key has not been recognized; if the red and green lights are constantly on, it indicates that the high-frequency module has not been recognized.

3.9.4 Use of remote control charger



Input the correct voltage according to the mark on the charger

Put the rechargeable battery into the charger:

The charger indicator light changes from solid green to solid red, indicating normal charging.

The charger indicator light changes from solid green to flashing red, indicating:

The battery is over-discharged and the charger is in trickle-charge mode. After a short period of trickle charging, the indicator light changes to solid red and enters normal charging mode.

If the rechargeable battery malfunctions, it needs to be replaced.

After charging is complete, the indicator light changes from solid red to solid green.

Attention:

Be sure to confirm the charger voltage.

Make sure the rechargeable battery is fully inserted into the charger.

If charging is not completed after more than 4 hours, please check whether the charger or battery is in good condition.

4. Machine operation

4.1 Overview

The following section primarily describes the grinder at different positions when switching the mode to manual operation, the main operations of the grinder, and how to install abrasives.

Notes:

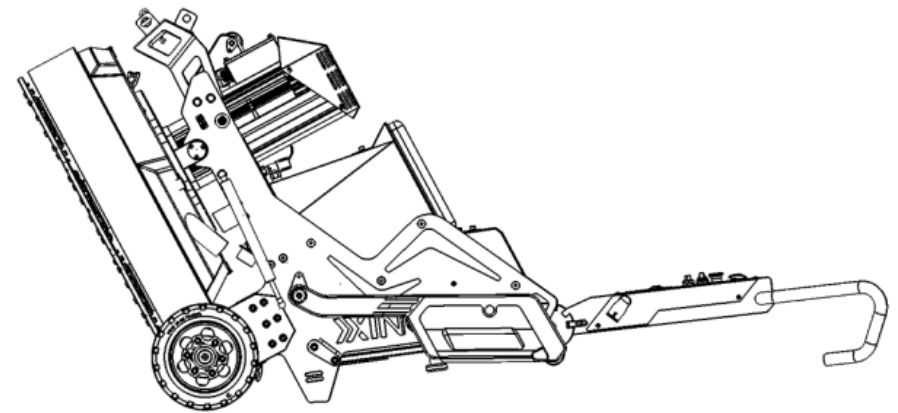
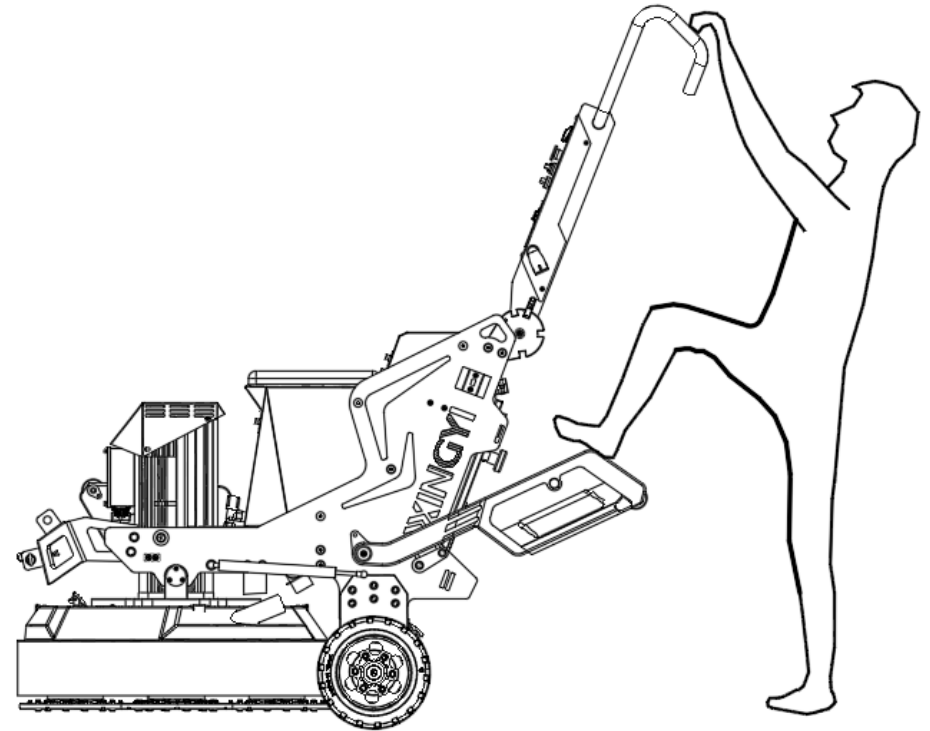
1. Grinder can only be used or repaired by personnel who have received necessary theoretical and practical training and have carefully read the user manual.
2. When operating the grinder, protective equipment such as gloves, face shields, work clothes, helmets, insulated shoes, etc. should be used.

4.2 Grinding operation instructions

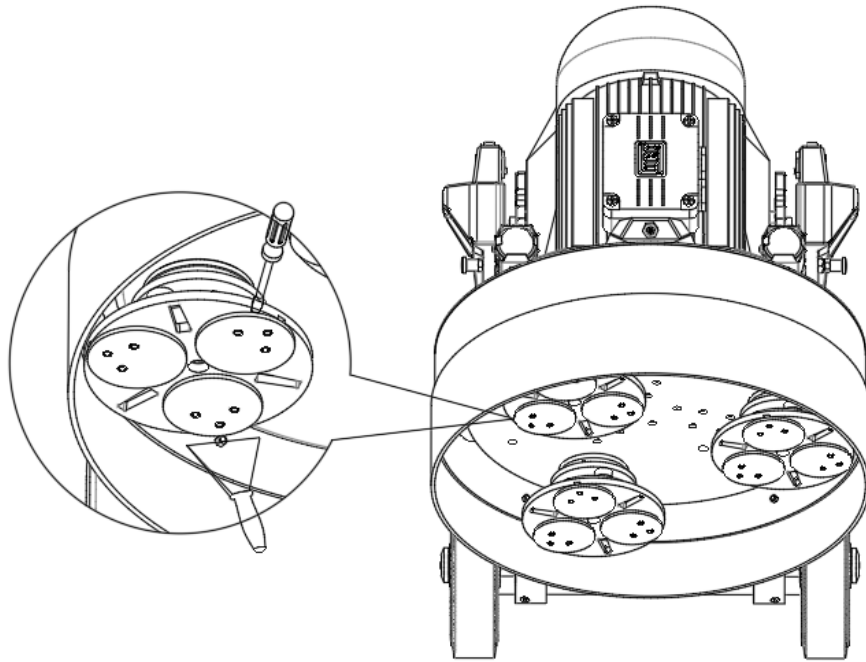
1. Replace the abrasives.
2. Select the location for the counterweight based on grinding needs and connect it to an industrial vacuum cleaner.
3. Check that the switch is in the OFF state and connect the correct power supply.
4. Pull out the power-off switch on the electrical cabinet.
5. Reset the emergency stop switch on the control panel.
6. Adjust the working/speed state required for proper speed regulation according to grinding needs.
7. Adjust the forward-reverse switch to the appropriate working state according to the grinding needs.

4.2.1 Replace the abrasive

When replacing the abrasive, adjust the machine to the tilt position, then tilt the machine and carefully lay it flat. After laying the machine flat, stand beside it and check if it is placed steadily. Use a screwdriver and a scraper to grind the disc.



Tilt the machine, use a screwdriver to remove the abrasive, and remove the dust with a spatula. If not cleaned in time, the abrasive may become loosely attached, causing it to fly off during grinding, which can damage the machine and pose a threat to personal safety.

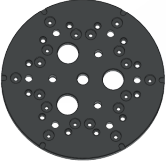
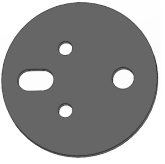


1. Switch the position of the counterweight to "Position 3".
2. Switch the operation handle to "Position 1".
3. As shown in the figure, stand on the counterweight and press down on the machine.
4. Replace with suitable abrasive.

⚠ Attention:

1. Please ensure that the machine does not tilt forward before replacing the abrasive.
2. After the machine has been running for a period of time, the abrasive, grinding disc, and gearbox will generate high temperatures. Please be careful when replacing the abrasive to avoid burns.
3. Ensure to perform the operation of replacing the abrasive only after the power is unplugged and the emergency stop switch is pressed.

Velcro-adapter list

Name	Grinding disc		Name	100 Velcro-adapter
SKU	4.11.093.066		SKU	3.22.115.013
Picture		Corresponding installable Velcro-adapter	Picture	

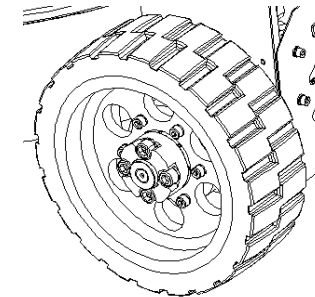
⚠ Attention:

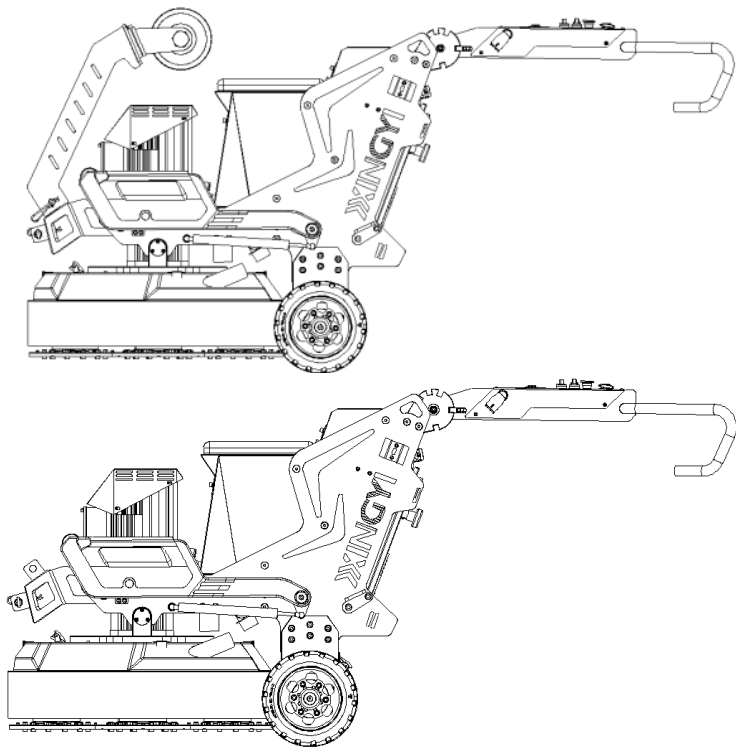
1. Please ensure that the machine does not tilt forward before replacing the abrasive.
2. After the machine has been operating for a while, the abrasive, grinding disc, and gearbox will generate high temperatures. Please exercise caution when replacing the abrasive to avoid burns.
3. Ensure to perform the operation of replacing the abrasive only after the power is unplugged and the emergency stop switch is pressed.
4. Select the location for the counterweight based on grinding needs, and connect it to an industrial vacuum cleaner.

4.3 Start and stop the grinder

4.3.1 Manual mode operation

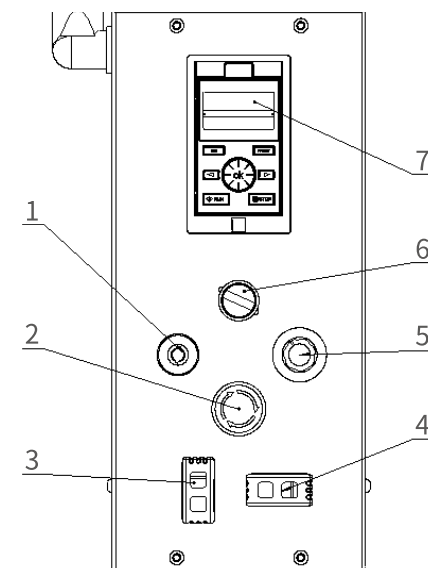
(1) Tighten the four bolts of the traction wheel clutch structure, adjust the counterweight, operation handle, and handle to their corresponding working positions, flip up the support wheel device, secure it with a latch and an R-type pin, or remove it (as shown in the following figure after adjustment).



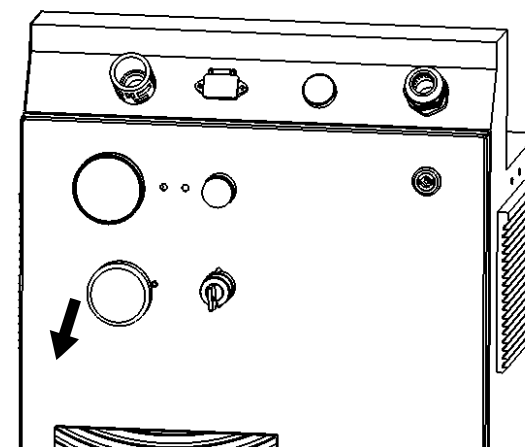


(2) Plug in the power cord (before doing this, make sure the emergency stop switch is pressed and all switches have been reset); if it is dry grinding, connect the vacuum cleaner (if the vacuum cleaner shipped by Xingyi is equipped with a camlock, it can be quickly connected to the vacuum cleaner); if it is wet grinding, fill the water tank with water.

(3) First, pull out the power-off switch on the electrical cabinet, turn the key switch on the electrical cabinet to the right position (manual operation position), then rotate to activate the emergency stop switch on the control panel, rotate the speed regulator to adjust the motor's rotational speed, rotate the forward-reverse switch, turning the switch to the left will cause the motor to rotate forward (turning to the right will cause the motor to rotate in reverse), and then you can start the equipment for grinding (if performing wet grinding work, you need to fill the water tank with water before turning on the tap. If operating the machine in a low-light environment, you can turn on the LED light switch according to your own needs.

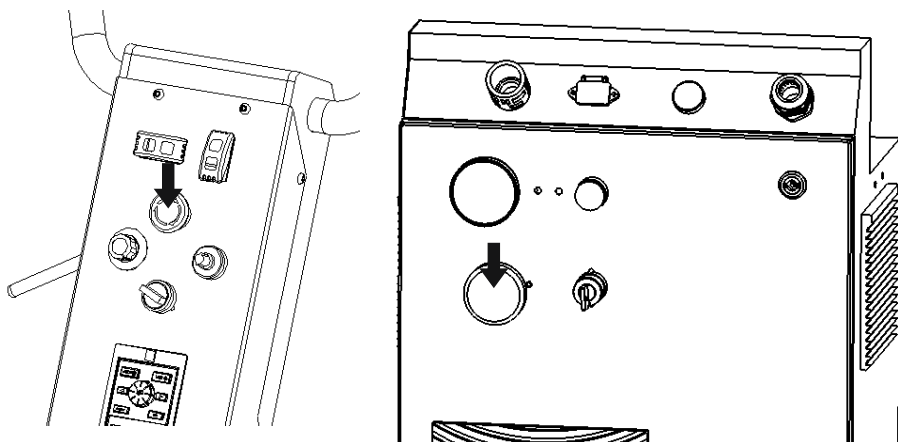


1. Speed regulator(Adjust grinding speed)
2. Emergency stop switch
3. Forward/backward switch
4. Left/right turn switch
5. Traction wheel speed regulator
6. Forward-reverse switch
7. Inverter panel



(4) If performing wet grinding work, press the corresponding spray switch on the HMI according to your own needs. If the machine is operated in a low-light environment, you can press the LED switch on the HMI according to your own needs.

(5) Turn off the grinder: Press the emergency stop switch on the operation handle to stop the machine. Remember to reset all the switches on the operation handle, then press the power-off switch on the electrical cabinet and unplug the power plug.



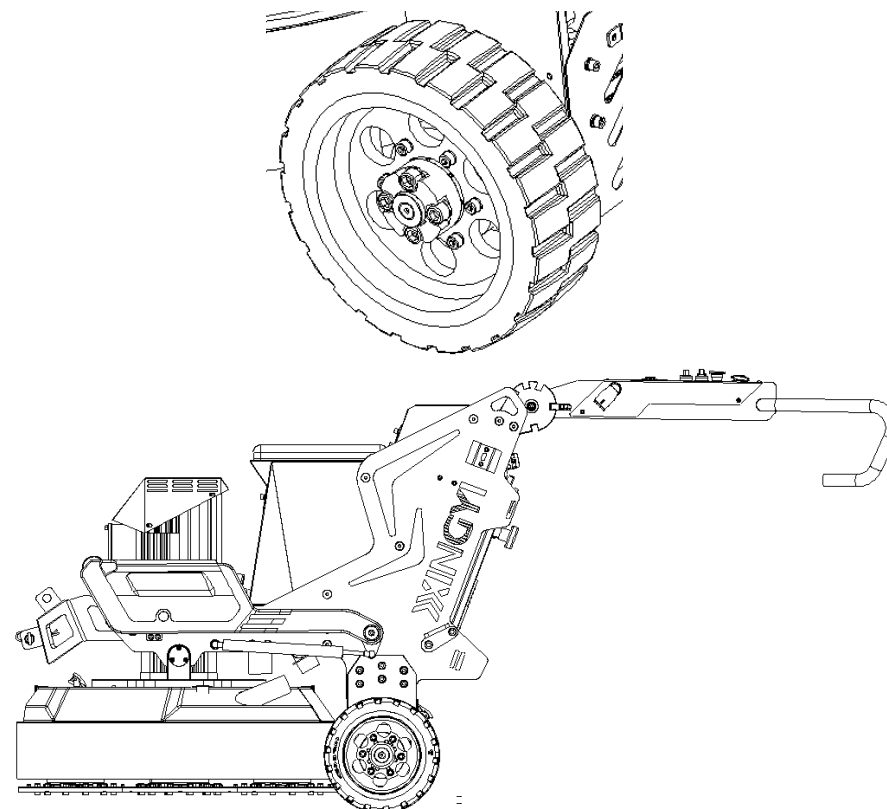
Note:

For safety reasons, it is recommended to unplug the power plug when stopping the machine.

The emergency stop switch can only be rotated and pressed downwards according to the rotation direction marked on the switch, and cannot be pulled upwards.

4.3.2 Remote control mode operation

(1) Tighten the four bolts of the traction wheel clutch structure, adjust the counterweight, operation handle, and handle to their corresponding working positions, rotate the support wheel device to its lowest position and flip it up, or remove it (as shown in the following figure after adjustment).

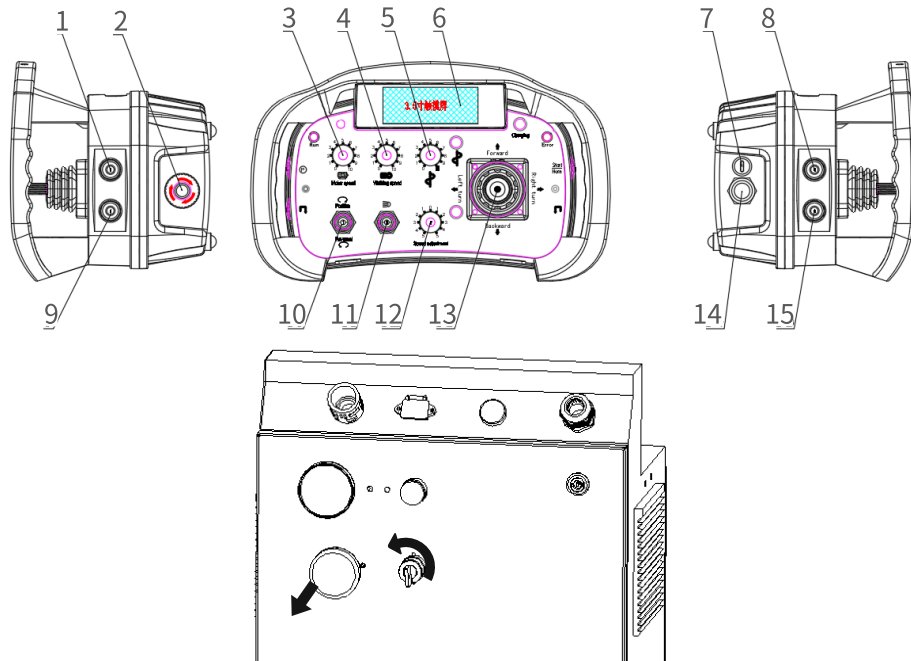


(2) Plug in the power cord (before doing this, make sure the emergency stop switch is pressed and all switches have been reset); if it is dry grinding, connect the vacuum cleaner (if the vacuum cleaner shipped by Xingyi is equipped with a camlock, it can be quickly connected to the vacuum cleaner); if it is wet grinding, fill the water tank with water.

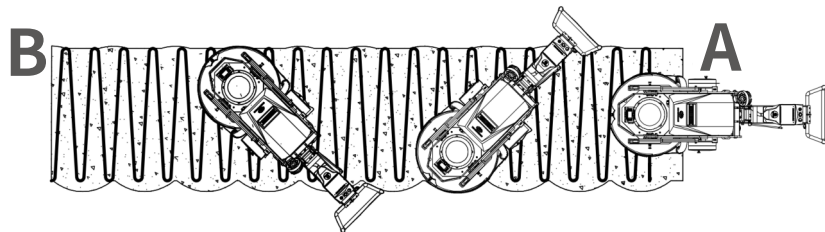
(3) Take out the remote toolbox, tie the strap around your neck, turn on the emergency stop switch, wait for the inverter panel on the operation handle to display the interface, and press the remote control/manual mode switch on the inverter panel to switch it to remote control mode (a bright icon indicates that it has switched to remote control mode).

(4) Operation in normal remote control mode: Pull up the power-off switch on the electrical cabinet and rotate the key switch to switch it to remote control mode. Turn on the No.2 emergency stop switch on the remote control, press

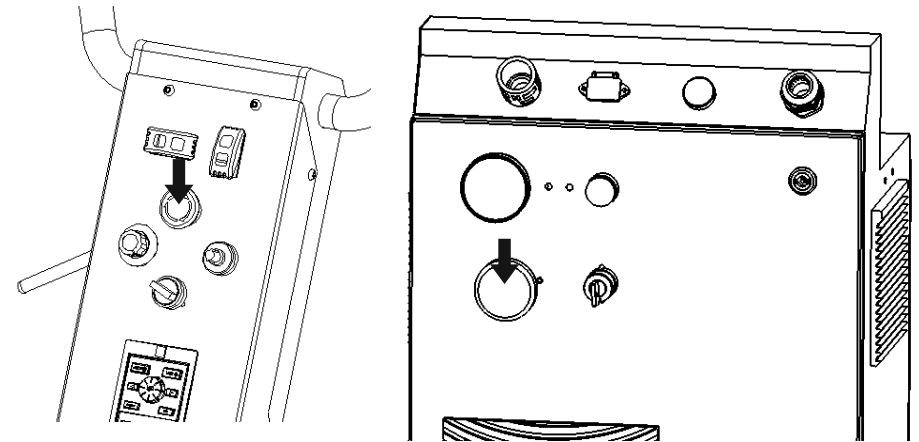
the No.14 power switch, push the No.10 motor forward-reverse switch forward to rotate the motor in the forward direction (push it back to rotate the motor in the reverse direction), rotate the No.3 motor speed regulator and the No.4 traction wheel speed regulator to adjust the motor speed and traction wheel speed respectively, and then the machine can be started for grinding work. Use the No.13 directional control joystick to control the direction of the machine.(For specific instructions on the switches on the remote control, please refer to see P18. As shown in the figure below)



(6) Oscillation grinding operation: The oscillation grinding function is mainly used to prevent the formation of edges/ridges between the paths during the grinding process by oscillating/swinging the machine.



(6) Oscillation grinding operation: The oscillation grinding function is mainly used to prevent the formation of edges/ridges between the paths during the grinding process by oscillating/swinging the machine.



⚠ Attention:

1. For safety reasons, it is recommended to unplug the power cord when stopping the machine.
2. The emergency stop switch can only be rotated and pressed downwards according to the rotation direction indicated on the switch, and cannot be pulled upwards.
3. When starting to operate the machine, make sure to reset all switches on its remote control to ensure normal use. Otherwise, the machine will not operate even if the power switch is turned on.
4. When using the remote control device, the remote control must not be taken out of the normal usage range of the machine. You can pay attention to the signal light on the remote control. Otherwise, if it is too far away, you will not be able to control the machine.
5. The directional control joystick can only be operated after the grinding disc drive motor has been started.
6. When the machine needs to be stopped or in case of an emergency, press the emergency stop switch on the remote control.

4.3.3 Connect to the correct power source

The winding method of machine working wire

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 operation 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.



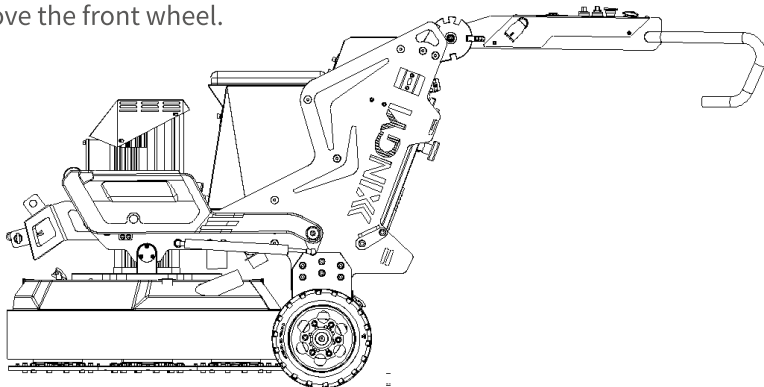
Note:

1. Make sure the power plug and socket are firmly connected;
2. Before plugging in the power plug, make sure the emergency stop switch has been pressed and other switches have been reset;
3. Please use the power cord according to the minimum specifications of (See P51)
4. Please use the correct power supply.

4.4 Machine position description

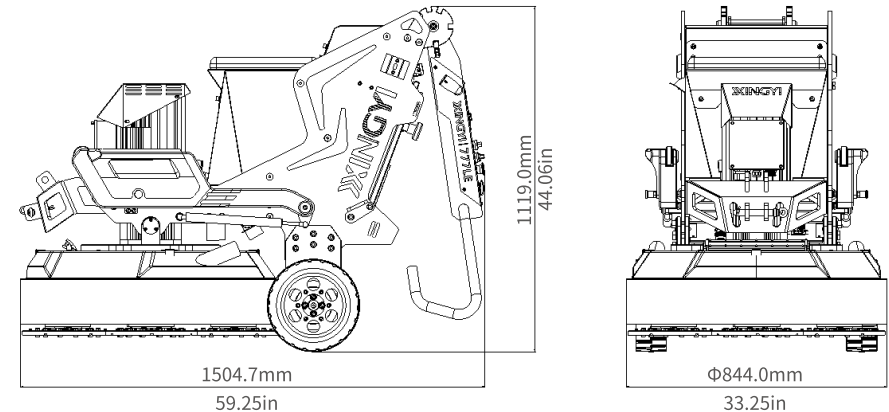
4.4.1 Machine working position

When the grinder is working, adjust the counterweight to the working position and pull out the self-locking indexing pin on the traction wheel. Adjust the operation handle, handle, etc. to the working position. Turn up or remove the front wheel.



4.4.2 Machine packaging position

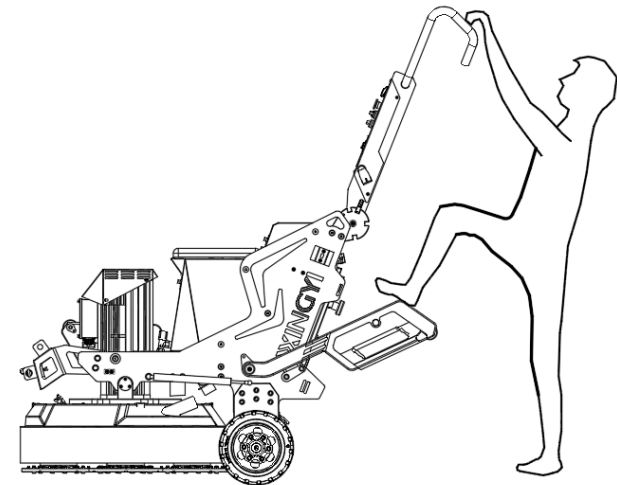
When packaging, you can adjust the position of the operation handle, front wheel, and handle to reach the packaging position. The minimum packaging size is as follows, and it can be packaged according to its size.



4.4.3 Machine tilt position

Adjust the position of the counterweight so that it is at the tilt position, and adjust the handle and operation handle to the tilt position of the machine. (The best recommended tilt position)

Holding the handles tightly with both hands, place one foot on the counterweight and press the machine down with force.



To put the machine down, you need to hold the handle tightly with both hands, put your feet on the counterweight, 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. Xingyi does not assume any responsibility for machine losses and personal injuries caused by improper operation.

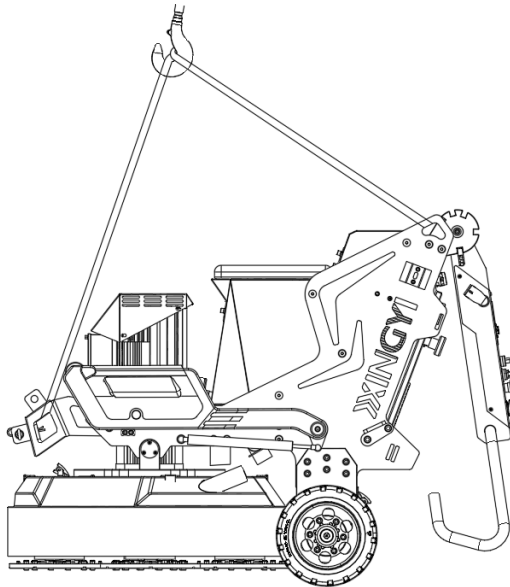
Be careful:

After tilting, 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.

The front wheel can be flipped over or disassembled.

4.4.4 Lifting machine

When lifting the machine, fasten the lifting belt to the two lifting holes on the frame next to the motor and the two lifting holes on the frame near the operation handle 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 holes.
3. The two ropes need to be connected diagonally to the lifting holes.

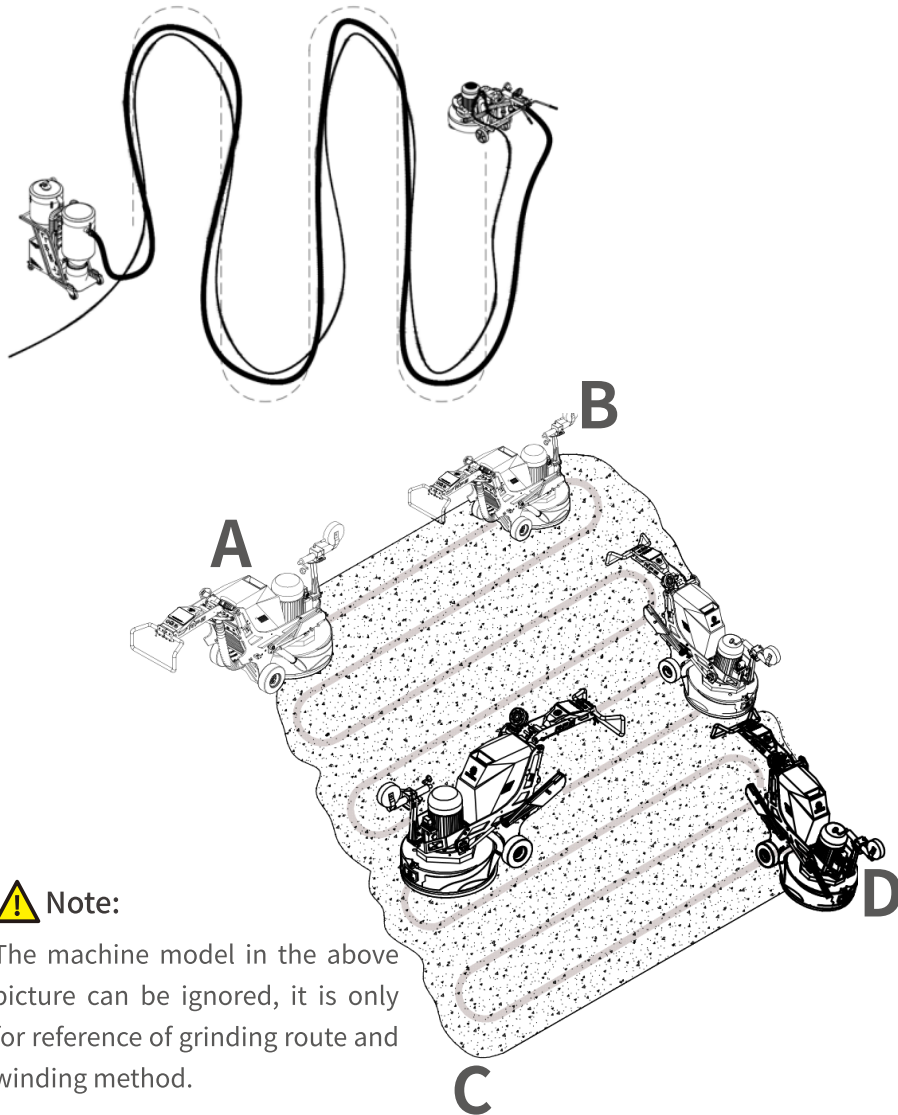
4.4.5 Notes

 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 operation handle, you need to check whether the operation handle 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 tilting or lowering the machine, you must pay special attention to your own safety to avoid injury or damage to the machine.

4.5 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.

4.6 Notes

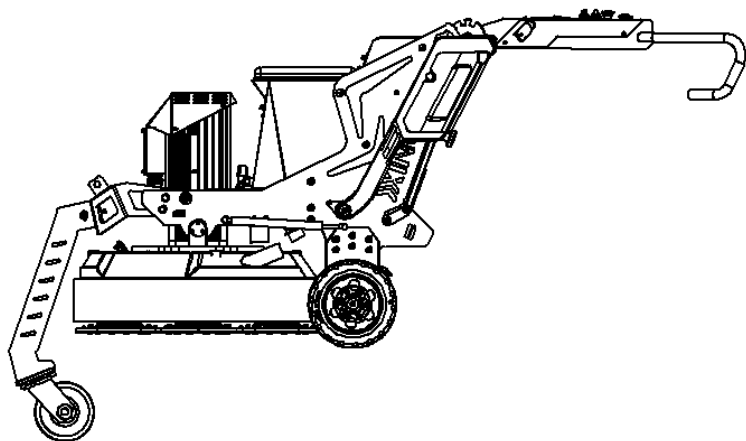
 Please be sure to read the following content carefully, otherwise it may cause unnecessary harm.

1. During the grinding process, you must pay attention to the battery panel on the remote control. When the battery is low, you should replace the battery in time or stop grinding to charge the battery. Otherwise, Xingyi will not compensate for any losses caused by it.
2. During the grinding process, be sure to always pay attention to the signal status reflected by the signal indicator on the remote control.
3. When grinding, just flick the direction control switch of the remote control.
4. When grinding, pay attention to observe the wires while grinding to prevent the wires from being compressed.
5. During the grinding process, be sure to pay attention to nearby obstacles to avoid machine damage and personal injury.
6. Before grinding, pay attention to resetting the self-locking indexing pin. If it is not reset properly, the machine will not move.

The work area should be checked for safety before grinding. For details, see P06.

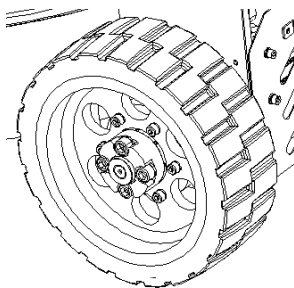
5. Transportation

There are two ways to transport this machine: manual and automatic. During transportation, it can be operated without plugging in, relying on the machine's own battery. When transporting the grinding machine, it is necessary to pull out the reset indexing pin on the counterweight, gently lower the counterweight to the transportation position, adjust the positions of the handle and the operation handle, and install the front wheel support frame to the transportation position to achieve the most suitable transportation position. As shown in the figure.



5.1 Manual

1. Loosen the traction wheel clutch: Use a 10mm Allen wrench to loosen the four bolts of the clutch located in the middle of the wheel.
2. Use the handle to push the machine.

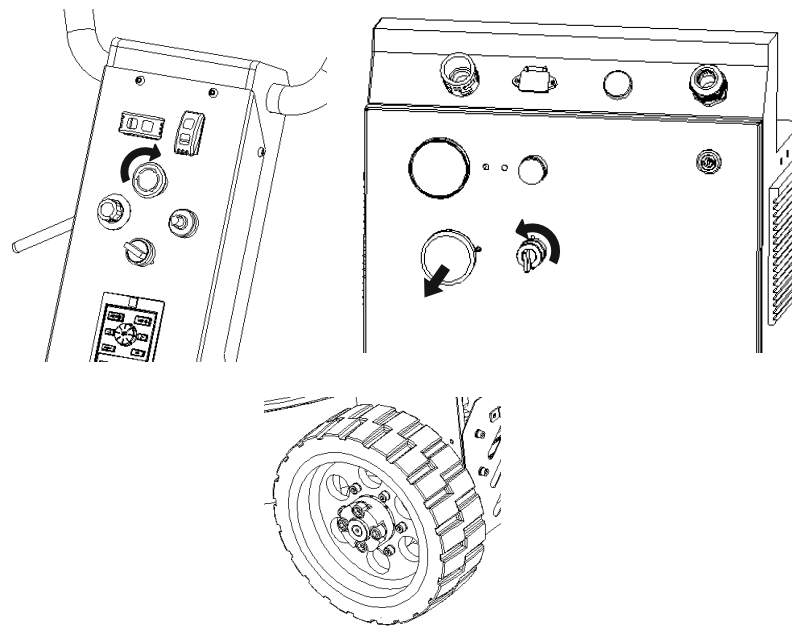


⚠ Attention:

1. Pay attention to your own safety when tilting the machine and always do it within your ability.
2. Before transportation, be sure to take out the abrasive to prevent it from falling and being lost, causing unnecessary losses.
3. When using the hand-push method, the traction wheel clutch must be in an unlocked state.
4. When the traction wheel clutch structure is in the locked state, pushing it manually can cause damage to the drive motor!

5.2 Remote control

1. Secure the traction wheel clutch: Use a 10mm Allen wrench to tighten the four bolts of the clutch in the middle of the wheel securely in place.
2. Turn on (unplug) the power-off switch on the electrical cabinet, and activate the emergency stop switch on the operation handle control panel.
3. Adjust the key switch on the electrical cabinet to remote control mode.
4. Use a remote control to control the travel speed and direction of the machine.



Attention:

1. The emergency stop switch is rotated and pressed, and cannot be pulled out. Otherwise, Xingyi will not compensate for any losses caused.
2. Before transportation, be sure to take out the abrasive to prevent it from falling and being lost, causing unnecessary losses.
3. During operation, you must pay attention to the power of the remote control and the battery. When using your own battery, the travelling speed must not exceed 4.
4. During the operation, just flick the direction control switch on the remote control.
5. Be extremely careful when operating floor polishing or transporting upwards or downwards on a slope (maximum slope 17°).
6. If it is a steep slope, be sure to use a winch. Do not stand behind the machine.
7. When the remote control device indicates that the battery power is low (when the red light on the electrical cabinet is on), avoid moving the machine up a slope.
8. When moving down a slope, drive the machine slowly in the reverse direction.
9. When moving up a slope, drive the machine slowly in the forward direction.

5.3 Transportation and storage

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

1. Use extreme caution when moving the machine in manual control mode or on an incline. Even a small incline can create enough force that the hands cannot be used to brake the machine.
2. The machine should not be lifted by its handle, motor, frame or other parts. The machine is best transported after being securely secured to a pallet/skid.
3. Never attempt to lift the machine 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 resting on a pallet or stand. Failure to do so may cause irreparable damage to the grinding disc and other internal components of the machine.
5. Please secure the machine during transportation to avoid damage and accidents during transportation.
6. Whenever possible, the machine should be covered during transport to reduce exposure, especially in rain or snow.
7. During transport, the grinding unit should rest on the ground with the tool plate always installed to protect the locking mechanism.
8. Store this unit in a locked area to keep it out of reach of children or unauthorized persons.

6. Machine Maintenance

6.1 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.

6.2 Daily inspection

6.2.1 Check the switch

Turn on the screen and test the functions of each switch.

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

Attention:

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.

6.2.2 Check the grinding disc cover

When there is a lot of dust, it is easy to cause the hose on the grinding disc cover of the grinder to be blocked by dust. Use a flashlight to illuminate the hose to see if there is any dust blocking it. Clean it if necessary. (See P47)

6.2.3 Check the grinding disc

When the grinder is working for a long time or there is a lot of grinding dust, the Velcro-adaptor 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 Velcro-adaptor 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. (See P47)

6.2.4 Long-term storage of battery

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

If storing for more than 1 month, remove the battery from the remote control.

6.2.5 Notice

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

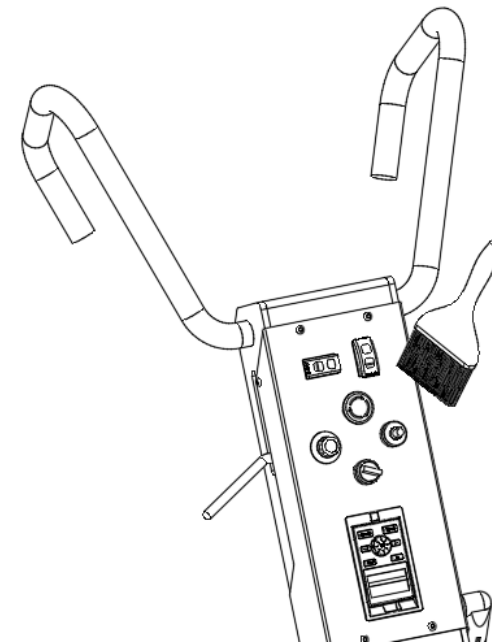
Inspection and maintenance can only be carried out after pressing the emergency stop switch and unplugging the power supply.

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

6.3 Cleanup

6.3.1 Clean the 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.



6.3.2 Maintenance of remote control equipment

You can wipe the switch with a fine brush or soft, dry cotton cloth, but never rinse with water.

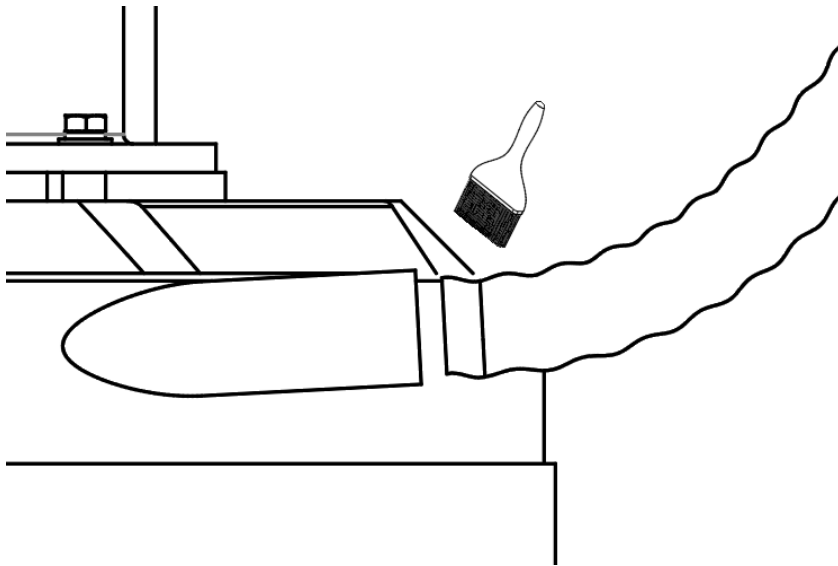
Keep the battery compartment clean.

When using rechargeable battery, please ensure that the battery are fully charged for the first use; if the battery are not used for a long time, store them at room temperature and charge them regularly to prevent self-discharge and battery damage (charge them once a month).

If the remote control is not used for a long time, the battery must be removed.

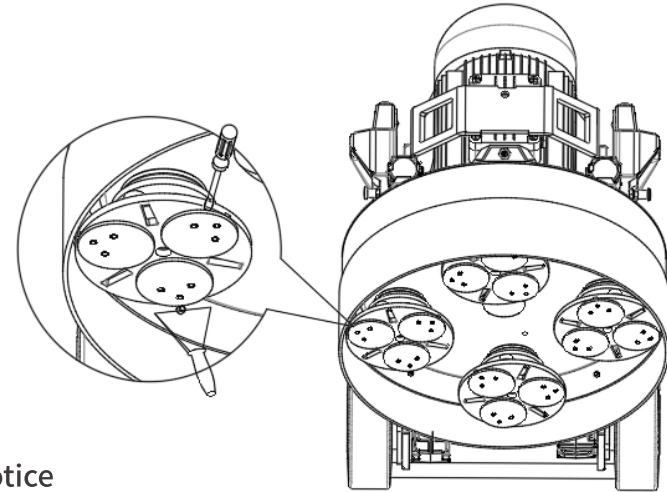
6.3.3 Clean the grinding disc cover

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



6.3.4 Clean the Velcro-adapter

Tilt the machine up, use a screwdriver to lift down the abrasive and use a shovel to remove the dust. If it is not cleaned in time, the abrasive may not be firmly bonded, and it may fly during the grinding process, causing damage to the machine and a threat to personal safety.



6.3.5 Notice

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

6.4 Battery disposal

6.4.1 Overview

The battery in the machine and remote control are 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 Xingyi should be used. For details, please consult your local dealer.

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

6.4.2 Battery

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

When the machine is connected to a three-phase power source and in operation, the battery is always in a charged state. The battery level is displayed on the battery panel, so you can always monitor the level.

The machine battery needs to be charged using the charger provided by Xingyi. The model is a lead-acid battery which can support for 45 minutes. The charging time is about 4 hours.

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 battery is 1-2 years.



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 switch, and then pressing the battery start system, so that the battery can be charged.

6.5 Overload protection

The inverter of this equipment is equipped with overload protection. When the equipment is overloaded, the inverter panel 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, stop the machine for 10-30 minutes (depending on the heat of the motor), and then start the machine.

6.6 Repair

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 machine requires repair, please contact your retailer.

7. Common problems and solutions

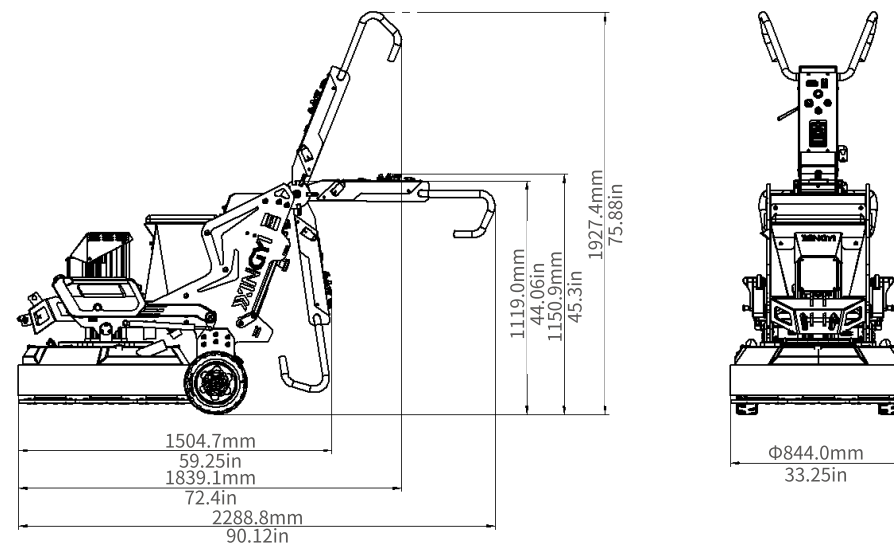
This chapter describes some possible faults and how to deal with them. If they cannot be solved or an error occurs, please contact your nearest retailer.

Problem	Possible cause	Solution
Cannot start the machine	The emergency stop switch is pressed	Release 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. Cannot charge when using three-phase power 2. Cannot charge when using dedicated charger	Three-phase power supply voltage is lower than 320V	Make sure the voltage is not less than 320V
	Lead-acid battery power is used up to 0	Charge for 2 hours using a dedicated charger
	The battery is damaged, or has been charged and discharged more times than its lifespan	Consider replacing the battery
	Dedicated charger is damaged	Replace the charger
Machine vibration	The diamond may not be installed correctly or at a different height	Correctly install diamonds with the same height
	Is the grinding disc flat?	Adjust and install the grinding disc
The machine moves forward or backward out of control	The self-locking indexing pin of the wheel is broken or there is no self-locking indexing pin	Replace or install a new self-locking indexing pin
	Servo motor, servo controller failure/remote control receiver failure	Contact Xingyi for repair
	Is the key way connecting the shaft and the drive damaged?	Check and contact Xingyi for repair or replacement of damaged key way

8. Technical Data

The tables and pictures show the technical data and dimensions of the grinding machines .

Model	855LE	
Motor Power	18.5KW/25HP	
Rated Voltage	220V 3 Phase	380V 3 Phase
Rated Current	60.6A	37.7A
Input Hertz	50HZ/60HZ	
Inverter power	18.5KW/25HP	
Grinding Width	834mm/32.8in	
Grinding Disc Size	φ297mm/φ11.7in	
Grinding Speed	350-1950r/min	
Grinding Pressure (Counterweight in front)	382KG/842.2lbs	
Grinding Pressure (Counterweight in the middle)	275.5KG/607.4lbs	
Grinding Pressure (Counterweight at the back)	247KG/544.5lbs	
Dimensions (Tilt position) Length × Width × Height	1839*844*1927mm/72.4*33.25*75.88in	
Dimensions (Working position) Length x Width x Height	2289*844*1151mm/90.12*33.23*45.31in	
Dimensions (Packaging position) Length × Width × Height	1505*844*1119mm/59.25*33.23*45.31in	
Longest × Widest × Highest	2289*844*1927mm/90.12*33.23*75.88in	
Machine Weight	630KG/1388.91lbs	
Wire Type	10mm ²	
Storage Temperature	-20~+60°C/-4~+140°F	
Operating Temperature	-20~+60°C/-4~+140°F	
Humidity	95%以下 (no condensation)	



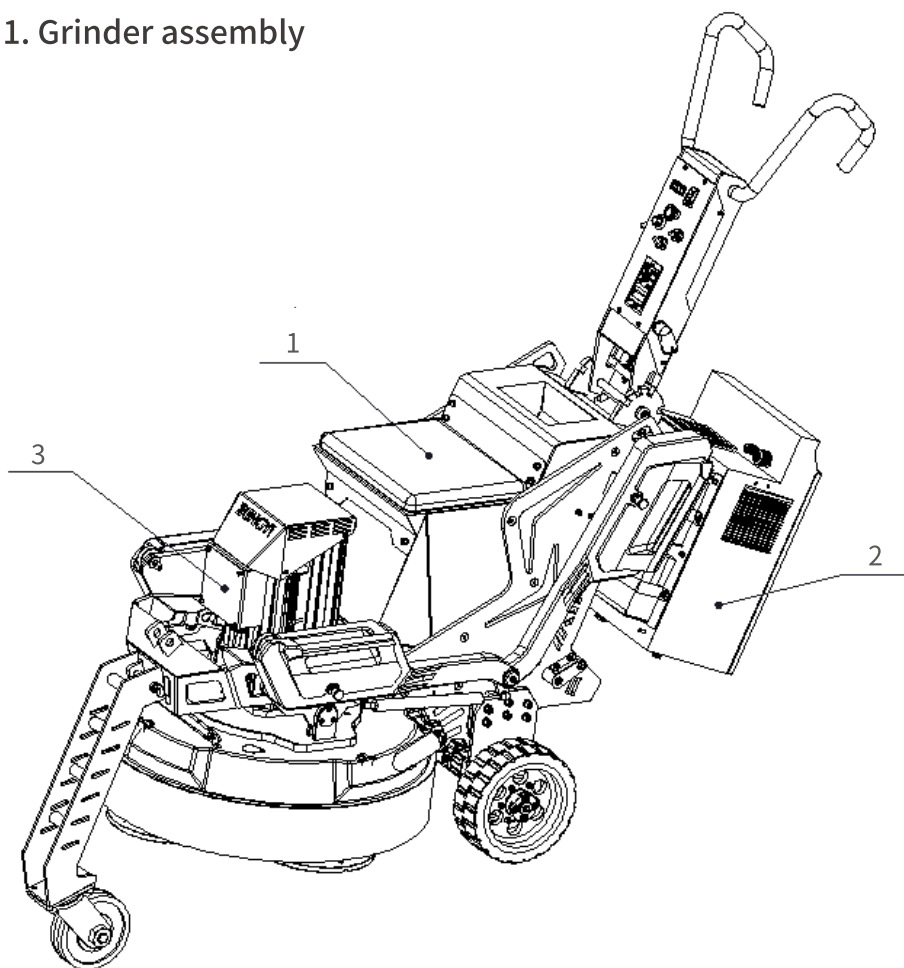
9. Warranty

Warranty Policy

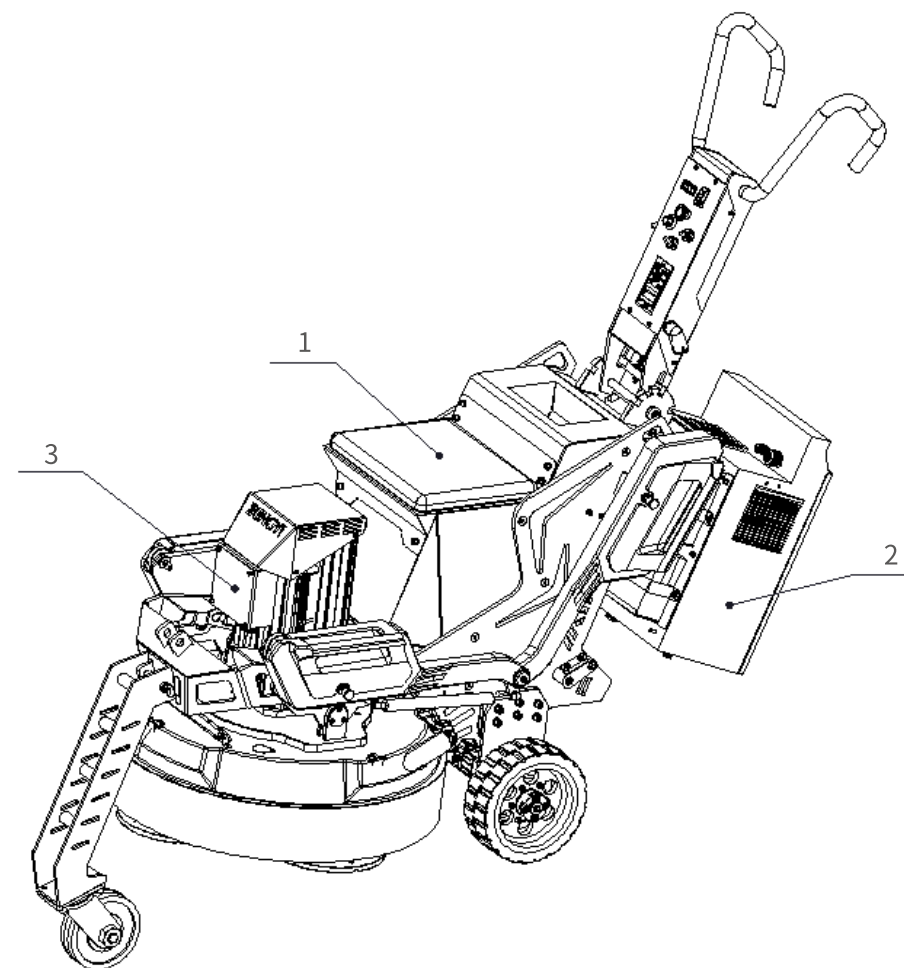
Xingyi is not responsible for the cost of machine damage caused by transportation, unpacking, or improper use. Local dealers may have specific warranty terms. Please contact the local dealer for specific terms.

10. Parts List

1. Grinder assembly

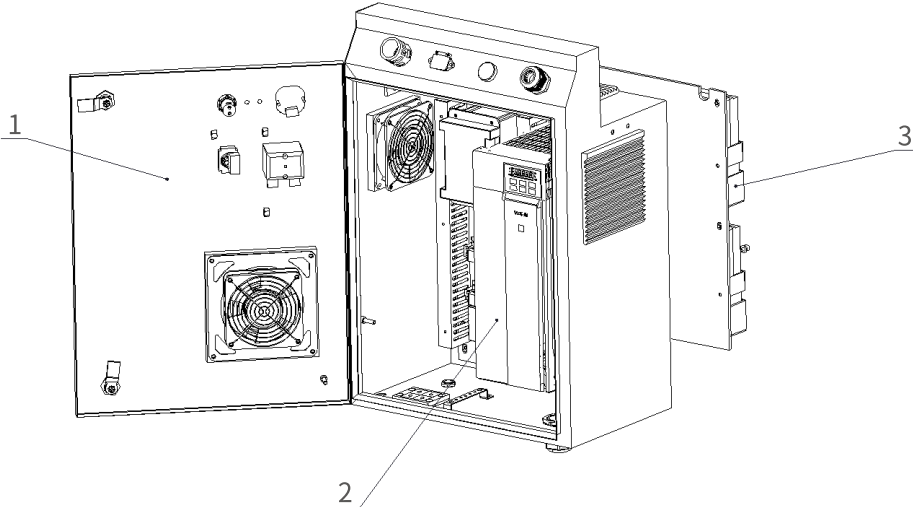


855LE (220V 3 Phase) :1.11.077.003			
SN	SKU	Name	QTY
1	2.11.077.004	Machine frame components	1
2	2.13.077.004	Electrical cabinet components	1
3	2.12.077.004	Machine head components	1

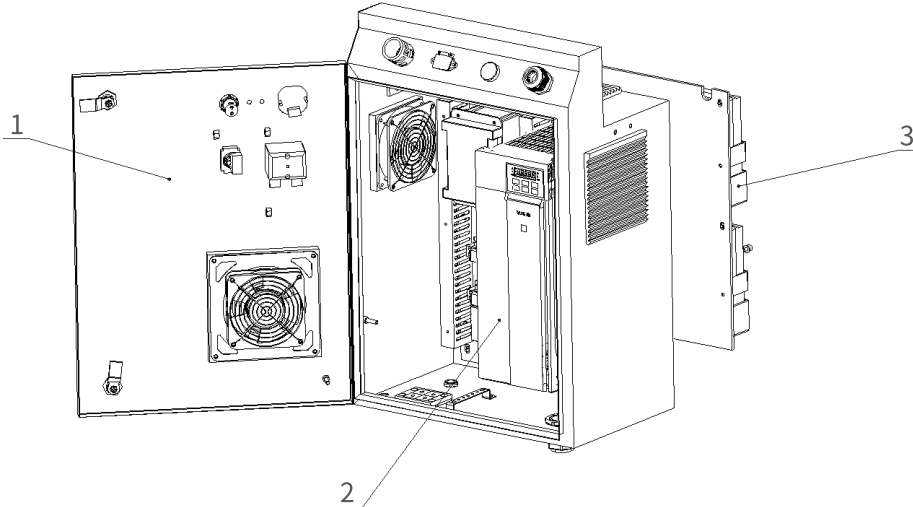


855LE (380V 3 Phase) :1.11.077.004			
SN	SKU	Name	QTY
1	2.11.077.004	Machine frame components	1
2	2.13.077.003	Electrical cabinet components	1
3	2.12.077.005	Machine head components	1

2. Electrical cabinet components

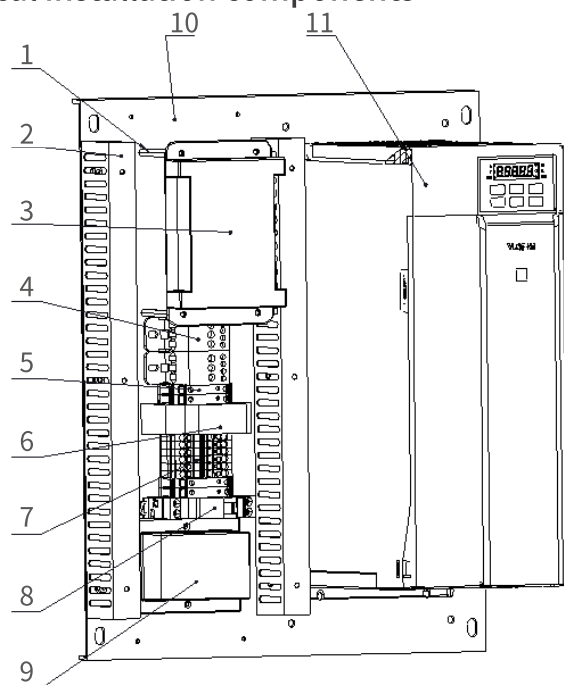


855LE (220V 3 Phase) Electrical cabinet components:2.13.077.004			
SN	SKU	Name	QTY
1	2.42.077.006	Inverter cabinet components	1
2	2.42.077.007	Electrical installation components	1
3	2.42.077.008	Front electrical group	1



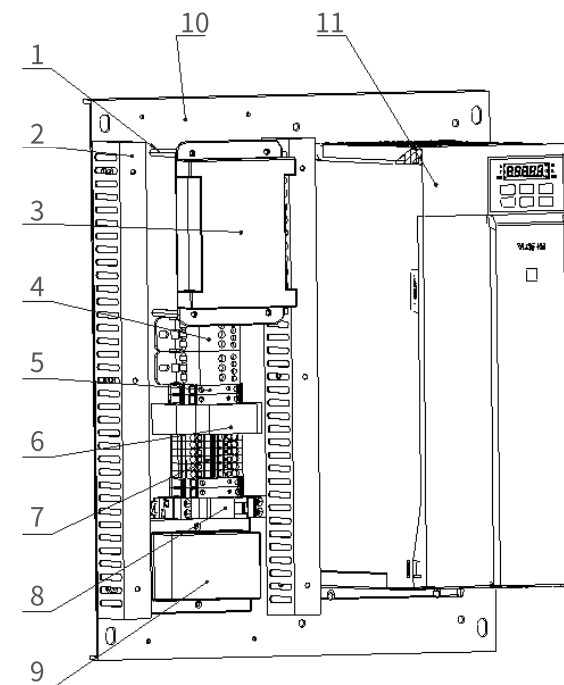
855LE (380V 3 Phase) Electrical cabinet components:2.13.077.003			
SN	SKU	Name	QTY
1	2.42.077.006	Inverter cabinet components	1
2	2.42.077.005	Electrical installation components	1
3	2.42.077.004	Front electrical group	1

3. Electrical installation components



855LE (220V 3 Phase) Electrical installation components:2.42.077.007

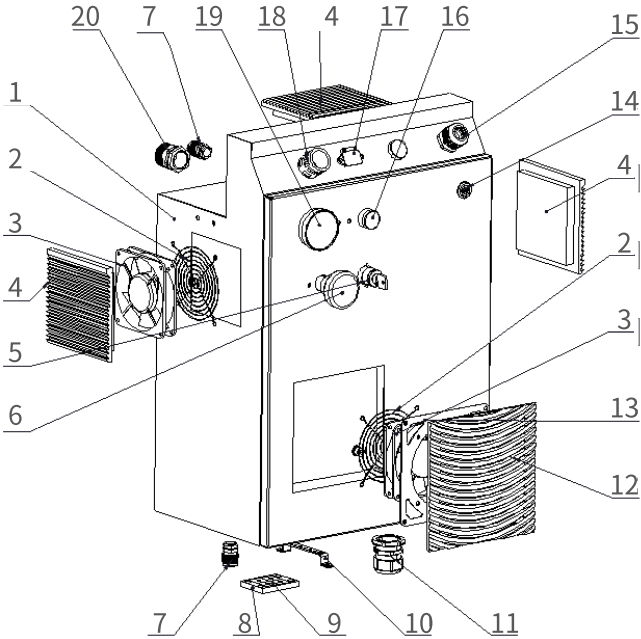
SN	SKU	Name	QTY
1	5.11.199.249	Stud	4
2	3.23.116.002	PVC trunking	2
3	3.12.115.029	Remote control receiver	1
4	3.22.201.015	Wire joint connector	2
5	3.21.123.027	Fuse terminal	4
6	3.21.114.017	Circuit breaker	1
7	3.21.123.008	Terminal block	6
8	3.21.114.042	Circuit breaker	1
9	3.12.162.004	48V to 24V step-down module	1
10	4.11.077.070	Mounting plate	1
11	3.12.111.084	Inverter	1



855LE (380V 3 Phase) Electrical installation components:2.42.077.005

SN	SKU	Name	QTY
1	5.11.199.249	Stud	4
2	3.23.116.002	PVC trunking	2
3	3.12.115.029	Remote control receiver	1
4	3.22.201.015	Wire joint connector	2
5	3.21.123.027	Fuse terminal	4
6	3.21.114.017	Circuit breaker	1
7	3.21.123.008	Terminal block	6
8	3.21.114.042	Circuit breaker	1
9	3.12.162.004	48V to 24V step-down module	1
10	4.11.077.070	Mounting plate	1
11	3.12.111.016	Inverter	1

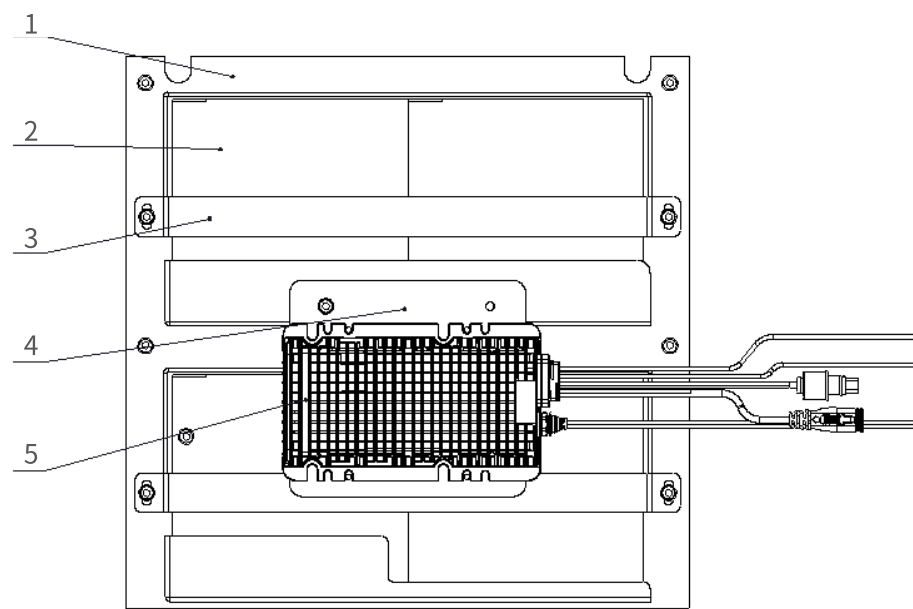
4. Inverter cabinet components



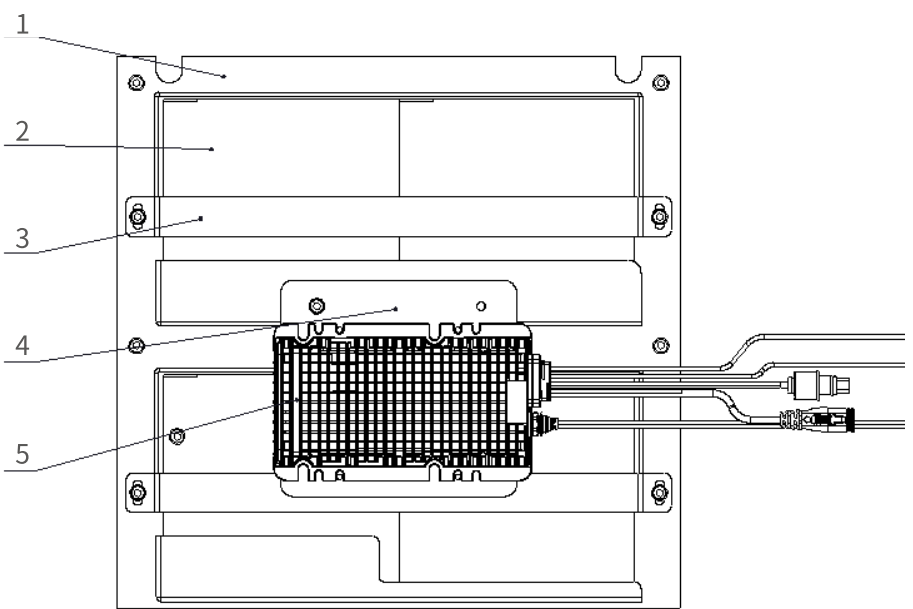
855LE (380V 3 Phase/220V 3 Phase) Inverter cabinet components:2.42.077.006			
SN	SKU	Name	QTY
1	2.21.077.013	Electrical cabinet welding	1
2	3.21.115.004	Mesh plate	2
3	3.21.115.008	Vent	2
4	3.21.115.002	Outlet filter	3
5	5.11.110.008	Key switch	1
6	3.21.114.048	Power-off switch	1
7	5.11.110.001	Cable gland	2

8	3.22.201.009	Wire guard-rubber	1
9	3.21.122.036	Wire guard-rubber	2
10	3.21.201.023	Grounding busbar	1
11	5.11.110.002	Cable gland	1
12	3.21.115.003	Outlet filter	1
13	4.11.022.102	Fixing Metal part	1
14	3.22.123.001	Cabinet lock	2
15	5.11.110.021	Cable gland	1
16	3.21.116.001	Red indicator	1
17	3.21.118.005	Charging port	1
18	5.11.110.008	Cable gland	1
19	3.21.119.003	Multi-functional battery panel	1
20	5.11.110.002	Cable gland	1

5. Front electrical group

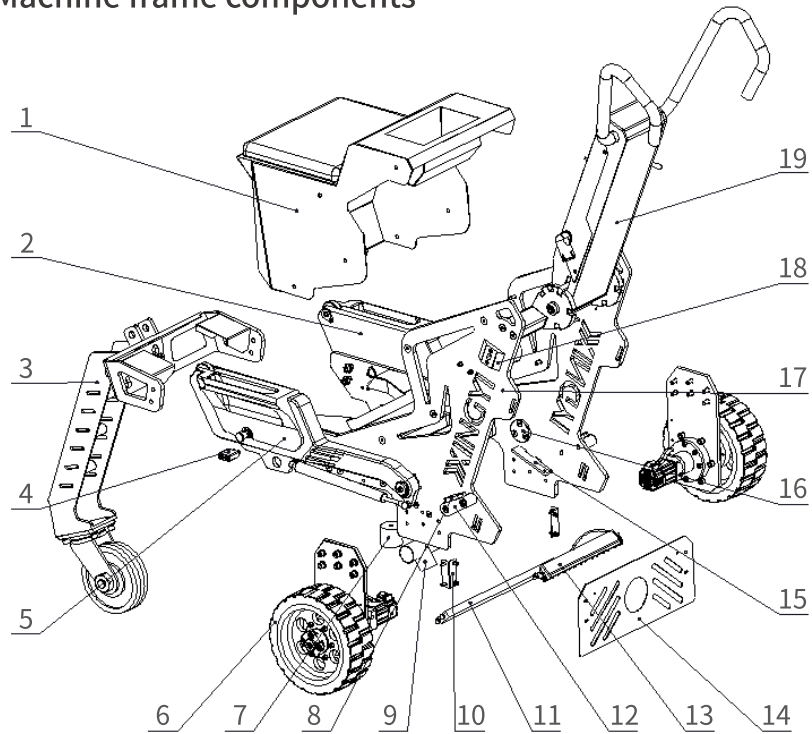


855LE (220V 3 Phase) Front electrical group:2.42.077.008			
SN	SKU	Name	QTY
1	4.11.077.006	Battery mounting base	1
2	3.21.120.002	Lead-acid battery (12V 20AH)	4
3	4.11.022.105	Fixing part	2
4	4.11.077.069	Mounting base	1
5	3.21.121.007	Charger	1



855LE (380V 3 Phase) Front electrical group:2.42.077.004			
SN	SKU	Name	QTY
1	4.11.077.006	Battery mounting base	1
2	3.21.120.002	Lead-acid battery (12V 20AH)	4
3	4.11.022.105	Fixing part	2
4	4.11.077.069	Mounting base	1
5	3.21.121.037	Charger	1

6. Machine frame components

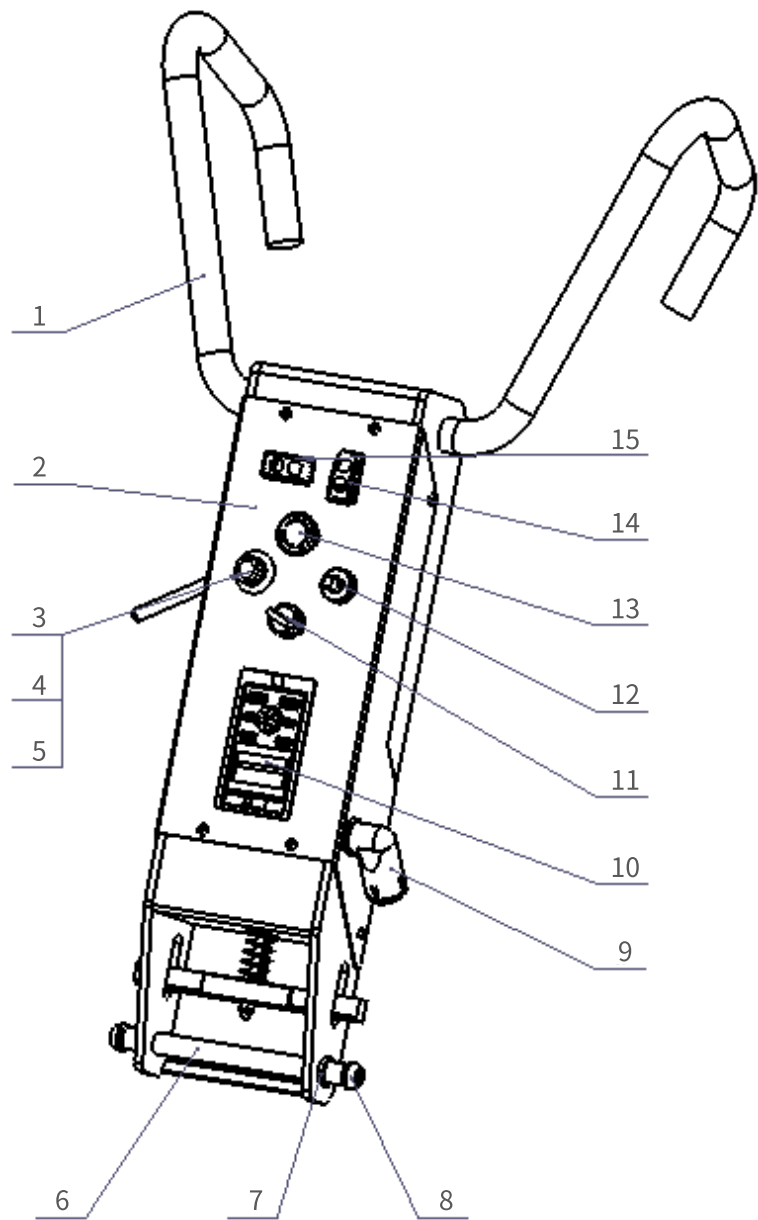


855LE (380V 3 Phase/220V 3 Phase) Machine frame components:2.11.077.004

SN	SKU	Name	QTY
1	2.41.077.003	Water tank	1
2	4.11.022.059	Right counterweight	1
3	2.41.077.001	Front wheel assembly	1
4	4.11.078.060	Fixing block	2
5	4.11.022.057	Left counterweight	1
6	2.41.077.004	Wheel axle assembly 2	2
7	3.22.117.044	Limit nylon	1

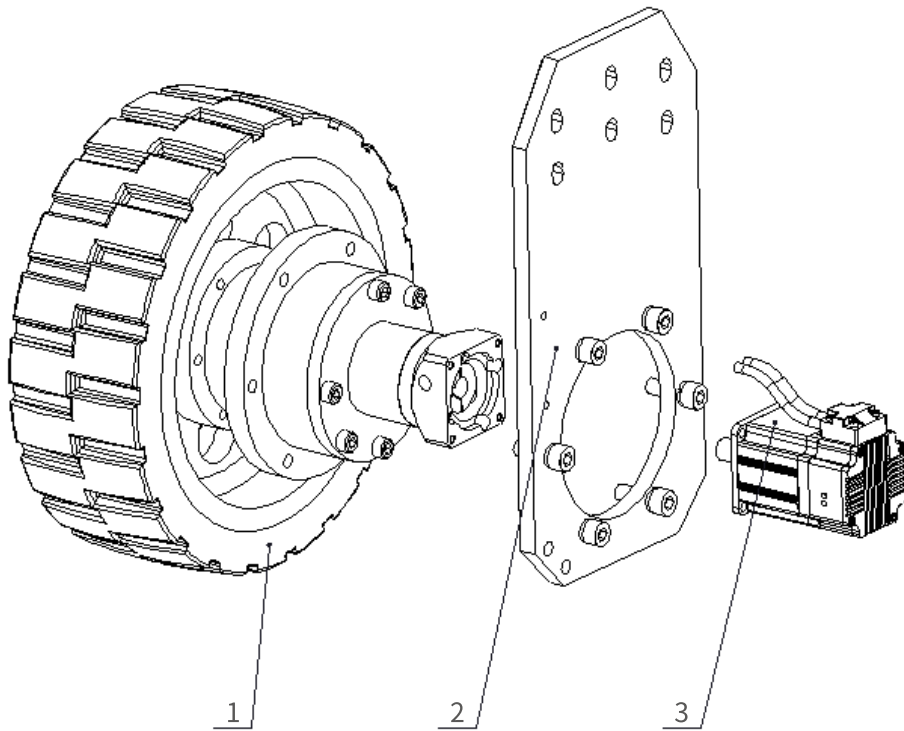
8	4.11.022.025	Rubber pad	2
9	4.11.033.034	Tee welding	1
10	4.11.077.072	Metal part	2
11	4.11.077.079	Key way	1
12	4.11.022.026	Rubber pad	2
13	3.21.116.031	LED light	1
14	4.11.077.073	Guard	1
15	4.11.022.034	Metal part	1
16	4.11.077.077	Fixing shaft	2
17	2.21.077.015	Frame welding	1
18	4.11.001.033	Fixing block	2
19	2.41.077.007	Operation handle assembly	1

7. Operation handle assembly



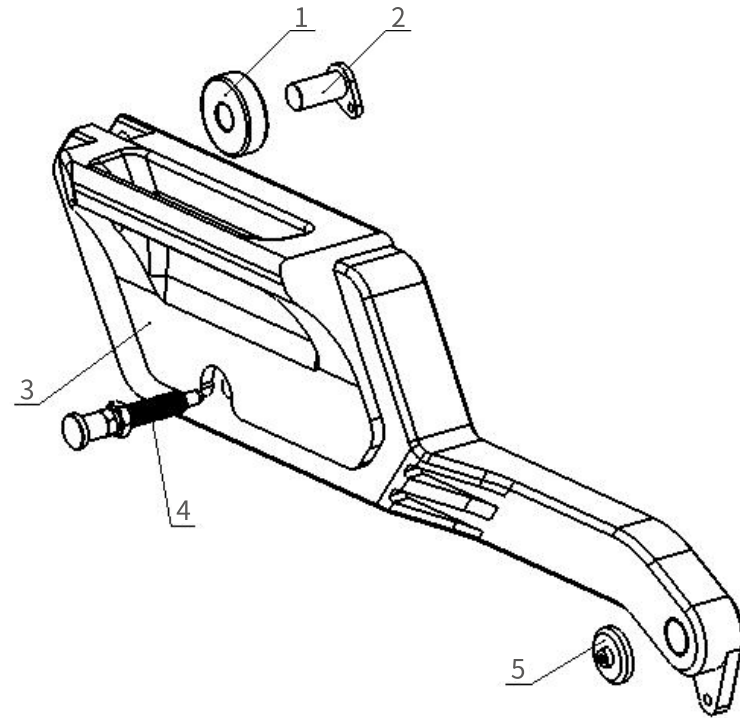
855LE (380V 3 Phase) Operation handle assembly:2.41.077.006			
SN	SKU	Name	QTY
1	2.21.077.014	Operation handle welding	1
2	4.11.077.074	Control panel	1
3	3.21.117.002	Speed regulator cap	1
4	3.21.117.004	Speed regulator dial	1
5	3.21.117.001	Speed regulator	1
6	4.11.022.042	Rotation axis	1
7	4.11.001.037	Spacer	2
8	4.11.001.097	Cover	2
9	5.11.110.006	Cable gland	1
10	3.12.112.001	Inverter panel	1
11	3.21.114.001	Three-position selector switch	1
12	3.21.117.005	Speed regulator	1
13	3.21.114.002	Emergency stop switch	1
14	3.21.114.003	Rocker switch	1
15	3.21.114.050	Rocker switch	1

8. Wheel axle assembly



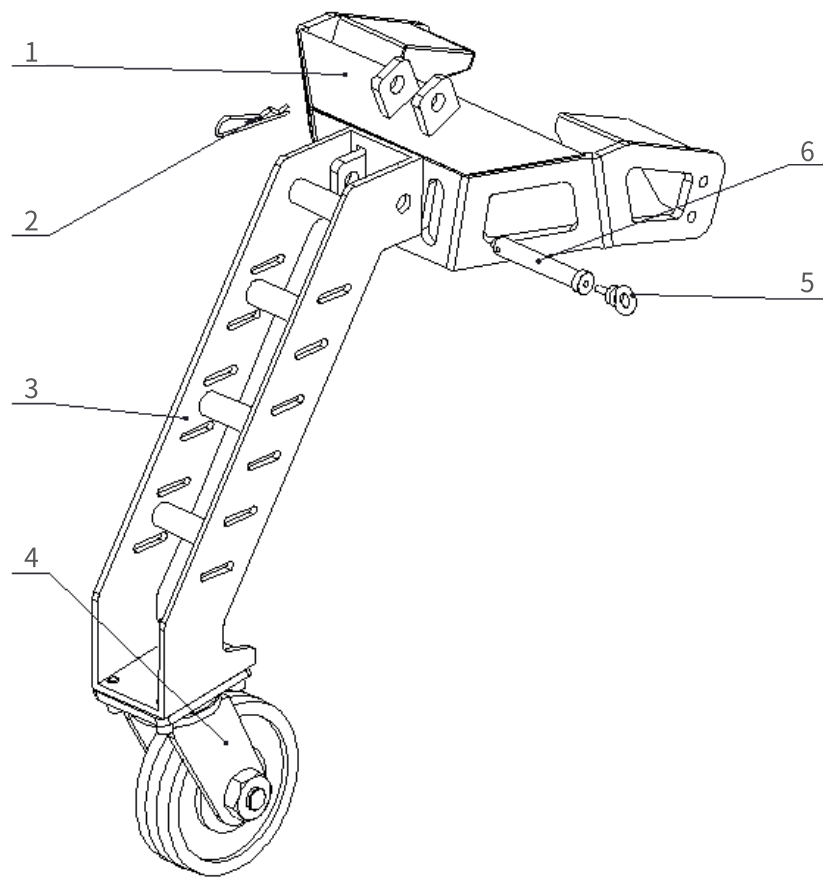
855LE (380V 3 Phase) Wheel axle assembly:2.41.077.004			
SN	SKU	Name	QTY
1	3.11.112.076	Wheel (with reducer)	1
2	4.11.077.083	Connection plate	1
3	3.11.112.078	Servo motor	1

9. Counterweight assembly



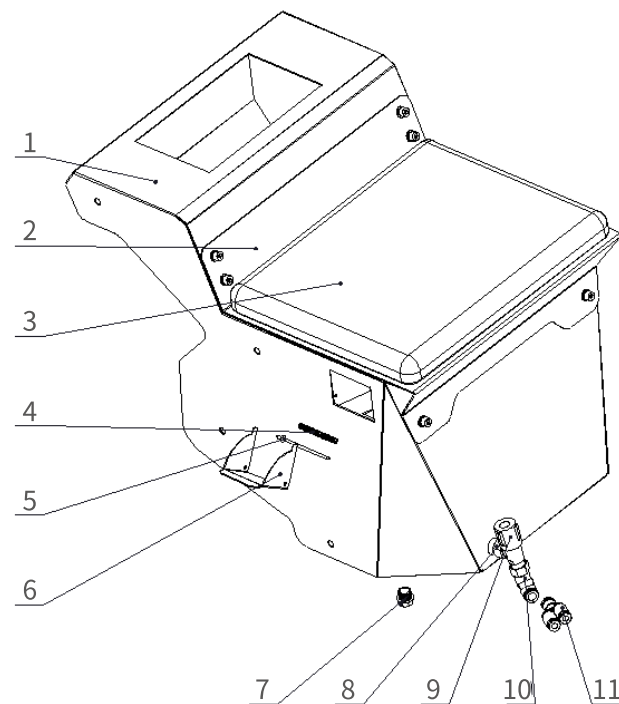
855LE (380V 3 Phase) Counterweight assembly			
SN	SKU	Name	QTY
1	4.11.022.076	Counterweight wheel	1
2	4.11.022.077	Pin shaft	1
3	4.11.022.057	Left counterweight	1
	4.11.022.059	Right counterweight	1
4	3.22.121.001	Stop pin	1
5	4.11.022.061	Shaft cover	1

10. Front wheel assembly



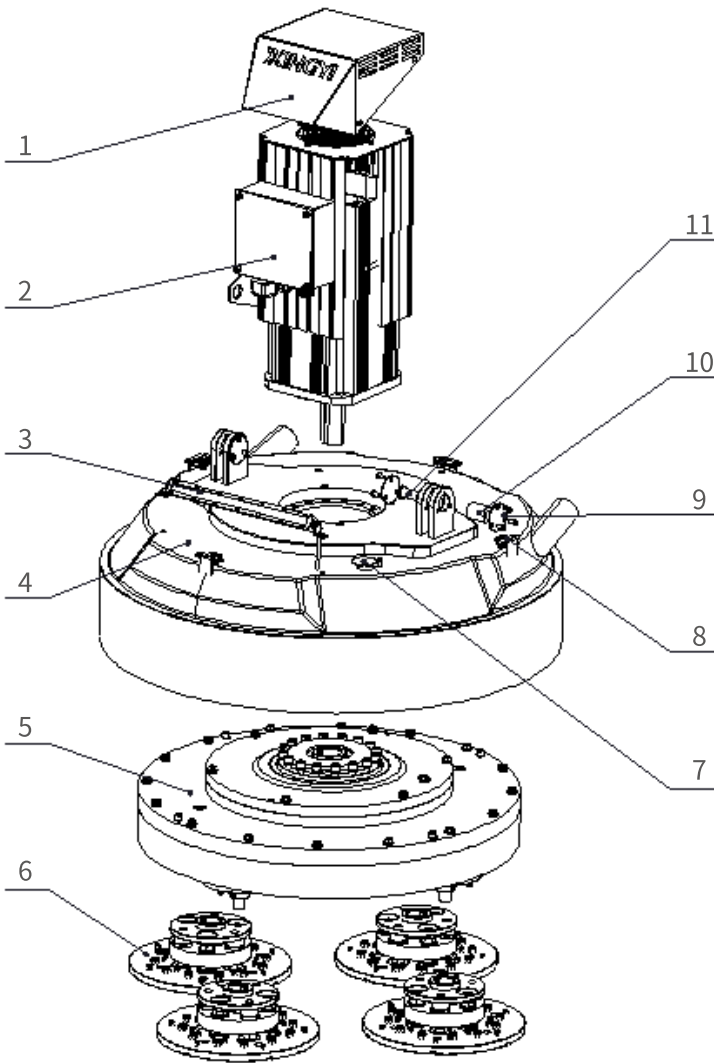
855LE (380V 3 Phase) Front wheel assembly:2.41.077.001			
SN	SKU	Name	QTY
1	4.11.077.034	Support plate	1
2	3.22.121.006	B-type pin	1
3	4.11.077.085	Support frame	1
4	3.22.111.059	Universal wheel	1
5	5.11.161.001	Bolt	1
6	4.11.049.013	Fixing pin	1

11. Water tank components

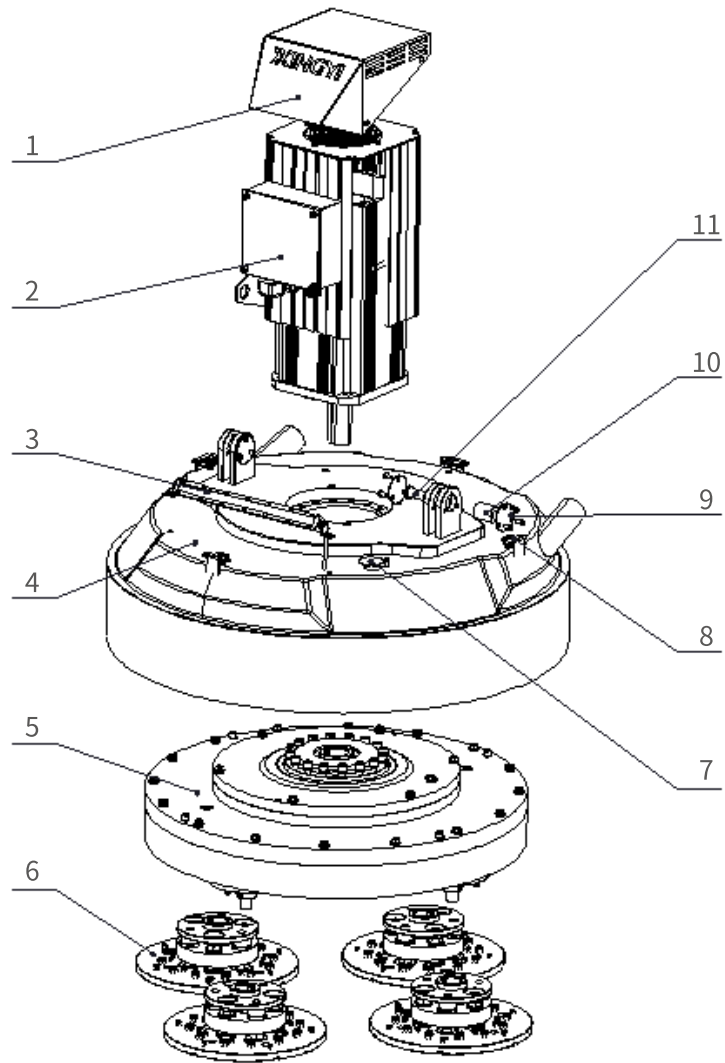


855LE (380V 3 Phase) Water tank components:2.41.077.003			
SN	SKU	Name	QTY
1	3.15.112.039	Water tank	1
2	4.11.077.020	Metal part	1
3	4.11.077.021	Seat plate	1
4	4.11.022.016	Spring	1
5	4.11.022.015	Pouring cover shaft	1
6	4.11.022.017	Pouring cover	1
7	3.22.126.001	Plug	1
8	3.22.125.001	Connector	1
9	3.15.113.001	Tap	1
10	3.22.125.003	Pneumatic connector	1
11	3.22.125.004	Pneumatic connector	1

12. Gearbox components

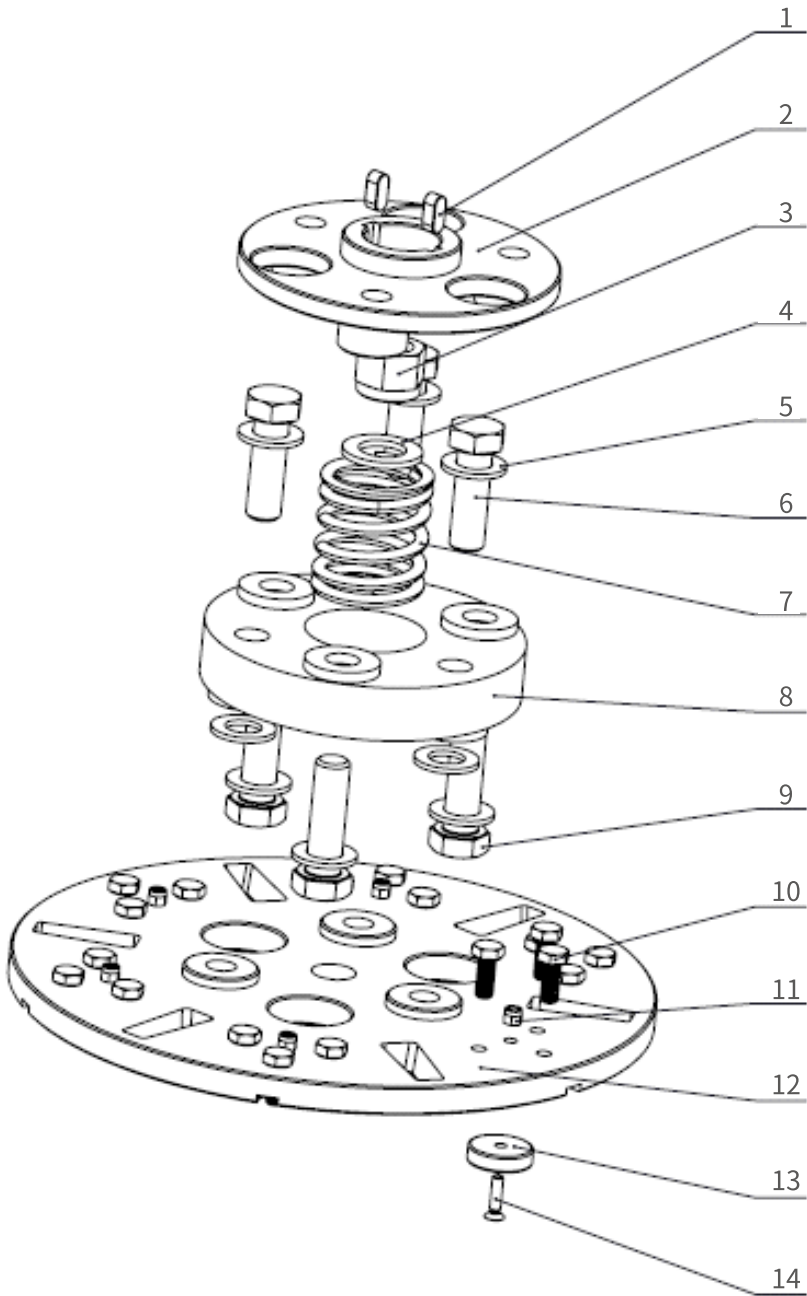


855LE (220V 3 Phase) Gearbox components:2.12.077.004			
SN	SKU	Name	QTY
1	4.11.093.030	Cover	1
2	3.11.111.131	Motor	1
3	3.21.116.031	LED light	1
4	2.21.077.012	Gearbox cover welding	1
5	3.13.112.001	Gearbox	1
6	2.41.093.032	Grinding disc components	4
7	3.22.163.021	Oil cap	1
8	4.11.001.049	Dust skirt fixing part	4
9	4.11.001.047	Cover plate	4
10	3.22.122.003	Rubber sleeve	2
11	4.11.001.048	Pin	2



855LE (380V 3 Phase) Gearbox components:2.12.077.003			
SN	SKU	name	QTY
1	4.11.093.030	Cover	1
2	3.11.111.128	Motor	1
3	3.21.116.031	LED light	1
4	2.21.077.012	Gearbox cover welding	1
5	3.13.112.001	Gearbox	1
6	2.41.093.032	Grinding disc components	4
7	3.22.163.021	Oil cap	1
8	4.11.001.049	Dust skirt fixing part	4
9	4.11.001.047	Cover plate	4
10	3.22.122.003	Rubber sleeve	2
11	4.11.001.048	Pin	2

12. Gearbox components



855LE (380V 3 Phase/220V 3 Phase) Grinding disc components:2.41.093.032			
SN	SKU	Name	QTY
1	3.22.118.001	Key way	2
2	3.22.116.001	Upper flange	1
3	5.11.106.012	Nylon cap	1
4	5.11.109.022	Flat washer	1
5	5.11.109.012	Flat washer	9
6	5.11.101.053	Bolt	3
7	3.22.120.002	Spring	1
8	3.22.117.001	Rubber pad	1
9	5.11.101.132	Bolt	3
10	5.11.101.042	Bolt	18
11	5.11.106.013	Nylon cap	6
12	3.14.112.111	Grinding disc	1
13	3.22.114.001	Magnet	6
14	5.11.103.006	Bolt	6

11. List of Wearing Parts

855LE 220V 3 Phase(1.11.077.003) Wearing circuit components			
SN	SKU	Name	QTY
1	3.21.114.002	Emergency stop switch	1
2	3.21.114.001	Three-position selector switch	1
3	3.21.114.003	Rocker switch	1
4	3.21.114.050	Rocker switch	1
5	3.21.117.005	Speed regulator	1
6	3.21.117.001	Speed regulator	1
7	3.21.117.002	Speed regulator cap	1
8	3.21.117.004	Speed regulator dial	1
9	3.21.112.128	Plug	1
10	3.21.112.127	Socket	1

855LE 380V 3 Phase(1.11.077.004) Wearing circuit components			
SN	SKU	Name	QTY
1	3.21.114.002	Emergency stop switch	1
2	3.21.114.001	Three-position selector switch	1
3	3.21.114.003	Rocker switch	1
4	3.21.114.050	Rocker switch	1
5	3.21.117.005	Speed regulator	1
6	3.21.117.001	Speed regulator	1
7	3.21.117.002	Speed regulator cap	1
8	3.21.117.004	Speed regulator dial	1
9	3.21.112.006	Plug	1
10	3.21.112.003	Socket	1

855LE 220V 3 Phase/380V 3 Phase (1.11.077.003/1.11.077.004) Mechanical			
SN	SKU	Name	QTY
1	3.22.121.001	Stop pin	2
2	3.22.117.001	Rubber pad	4
3	3.22.120.002	Spring	4
4	5.11.101.086	Bolt	12
5	5.11.101.015	Bolt	12
6	5.11.101.190	Bolt	36
7	3.22.115.003	100 Velcro-adapter	12
8	3.22.114.001	Magnet	36
9	3.22.118.001	Key way	4
10	3.22.122.003	Rubber sleeve	2
11	3.22.124.032	Dust skirt	1
12	A02.01.0202	Velcro with glue	2M
13	A02.01.0201	Velcro	2M
14	A02.01.0204	Foam	2M