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Manual of GX510 Floor Grinder

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1. Introduction

1.1 Summary

Xingyi's machines are used for finishing floor surfaces. The scope of use depends on the tools selected. In addition to usage and general functions, this manual provides information on the use, repair, and maintenance of the grinder. Further information can be obtained from your local retailer.

1.2 Responsibility

We make every effort to ensure this manual is as complete and accurate as possible, but we assume no responsibility for any errors or missing information. Xingyi reserves the right to change the descriptions in this manual without prior notice.

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

1.3 Packing list

The product mainly includes the following items; please contact the retailer if anything is lost.

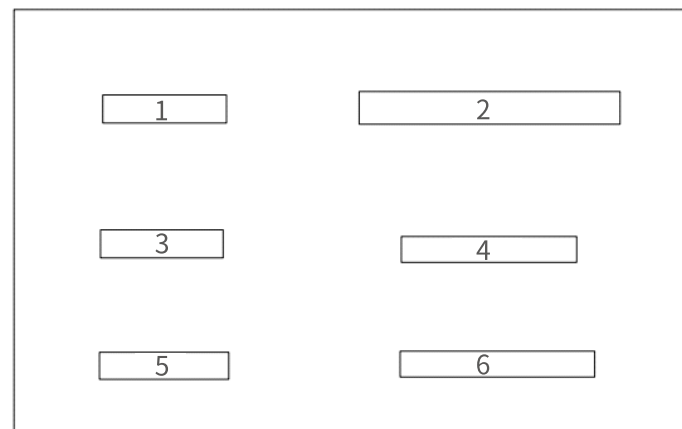
- (1) Grinder*1
- (2) Manual*1
- (3) Velcro-adapter (9 of which are installed on the machine, and 3 are included as standard accessories)*12
- (4) Dust skirt*1
- (5) Socket*1

1.4 Receiving goods

Carefully inspect the packaging and machine for any shipping damage. If the machine shows any signs of damage, contact the 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 there are any problems, please contact the retailer.

1.5 Nameplate



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

1.6 Processing and storage

The grinder should be stored in a cool, dry place 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. (See P54)

Caution! If not operated properly, the grinder may tip over, causing personal injury and machine damage.

1.7 Warranty

This warranty covers only manufacturing defects. Xingyi is not liable for damage occurring during shipping, unpacking, or use. Under no circumstances shall Xingyi be liable for damage or defects caused by improper use, corrosion, or use beyond specifications. Xingyi is not liable for indirect damages or costs under any circumstances. For complete information on Xingyi's warranty period, please refer to Xingyi's current warranty terms. Local distributors may have special warranty terms regarding sales, delivery, and warranty conditions. If you have any uncertainty regarding the warranty terms, please contact your retailer.

2. Risk List

2.1 General safety instructions

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

1. This manual lists important information for using and safely operating this machine! You must carefully read this manual before operating this machine for the first time!
2. This machine must not be operated unless the operator has read and understood the contents of the operation manual.
3. Never rent a machine without an manual.
4. When using this machine, please comply with local laws and regulations.
5. All work must be performed by trained and qualified professionals. Operators should ensure safety and prevent hazards from arising during operation.
6. Do not use this product if you are tired, sick, or under the influence of alcohol or drugs and are in poor physical condition.
7. Keep out of reach of children.
8. This machine can only be operated by one person. When the machine is in operation, keep children and unauthorized personnel away from it, maintain a certain working distance, and remember "one person per machine".
9. Do not modify the product at will, and do not use illegally modified products. Only personnel designated by Xingyi Company may perform repairs and modifications using only parts provided by Xingyi Company.
10. Keep the machine clean and ensure you can clearly read the markings and labels.
11. Ensure that the products used are intact and undamaged to ensure safe use.

2.2 Operational safety instructions

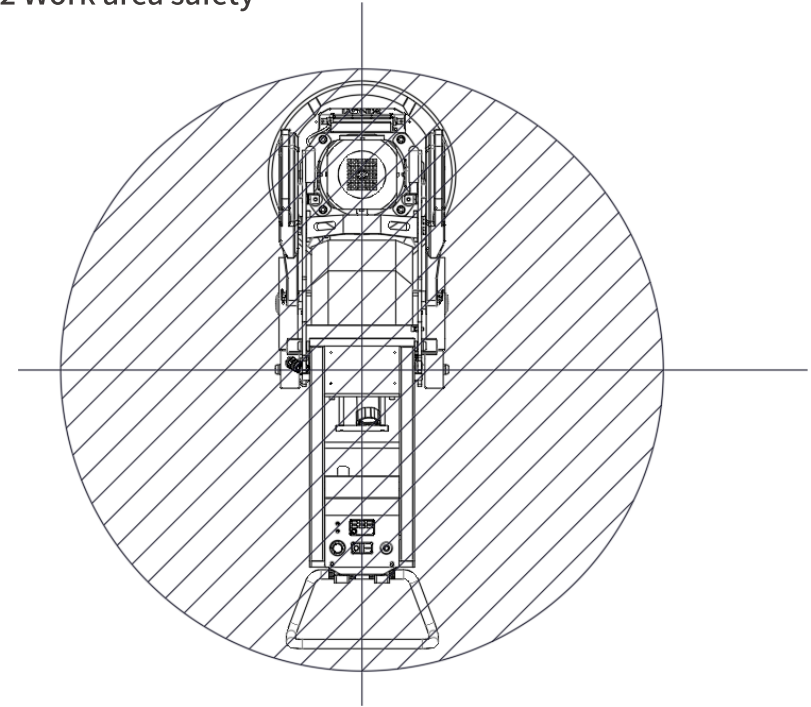
 **Warning:** Please read the following content carefully before using the machine.

1. Professional personal protective equipment should be used when working .
2. This machine is only for grinding and polishing floor surfaces. Do not use it in other situations.
3. Xingyi machines can 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 on a slope of less than 20°. Our company will not be liable for any accidents caused by operation on a slope greater than 20°.
5. When the machine is operating, the operator should not leave the product unattended and should ensure that the product is within sight and working properly.
6. When leaving this product, please press the emergency stop switch and disconnect the power cord.
7. Before operation, ensure that the dust skirt is installed on the machine to prevent dust from being inhaled into the lungs and causing injury, and to prevent the soles of your feet from accidentally touching the grinding disc.
8. Do not pull on the hose to prevent the machine from tipping over and causing injury.
9. When operating the machine, ensure it is in a safe and stable position to prevent personal injury.
10. Keep your body, hair, jewelry, and loose clothing away from moving parts of the machine, otherwise it may cause bodily injury.
11. If any abnormalities are found in the machine's operation, such as abnormal vibrations or unusual noises, the machine should be stopped immediately. The machine should be inspected for damage and repaired by an authorized dealer or repairman.

2.2.1 Personal protective equipment

1. When operating this machine, ensure that you are wearing standard personal protective equipment to reduce the harm caused by an accident.
2. Do not wear loose clothing or carry anything that could cause danger, such as scarves, bracelets, rings, etc. Tie your hair up when operating the machine to prevent it from getting caught in the machine and causing injury.
3. Certified protective eyewear 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 prevent wet concrete from injuring your palms.
5. Certified safety shoes must be worn, with steel toes and non-slip soles to prevent slipping and foot injuries .
6. The machine will generate noise and dust when it is working. You must wear protective earmuffs and a mask to avoid noise damage to your ears and dust inhalation that could damage your respiratory tract.
7. A certified protective helmet must be worn.
8. It is essential to ensure that fire extinguishers, first aid kits, and other supplies are available at the work site to prevent accidents.

2.2.2 Work area safety



1. As shown in the diagram above, no personnel other than the operator are allowed in this area, and operators in this area must exercise extra caution during operation.
2. Do not use this machine in rain, lightning, dense fog, strong winds or other adverse conditions.
3. Explosive or flammable materials and vapors must be kept away from the machine during operation. Do not operate this machine near dust, solvents, thinners, or other flammable materials.
4. Before operating the machine, inspect the floor area to be floor and remove any hard objects such as bolts and nails that may damage the abrasives or the machine; any hard objects such as steel bars or expansion bolts protruding from the floor should be cleaned up in advance using a cutting machine.

2.3 Electrical safety instructions

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

1. All circuit repairs must be performed by qualified professionals.
2. The circuit remains powered even after the machine has stopped. All power should be disconnected before repairing the machine.
3. The machine is equipped with an overload protection device that will automatically trip and stop the machine from operating when it is overloaded (the overload will be readjusted when it is safe to do so).
4. Xingyi will not provide warranty coverage for any other damages or malfunctions caused by continued use of the machine under overload conditions.
5. The purpose of installing an inverter on the machine is to regulate speed and protect the safety of the user and the machine. It is forbidden to modify or adjust the inverter or alter its parameters without Xingyi's consent. If the device malfunctions, only replacement parts provided by Xingyi should be used. (Xingyi will not provide warranty coverage for any other losses or machine malfunctions caused by modifying or adjusting the inverter or altering its parameters without Xingyi's consent.)
6. Never modify the internal parts or wiring of the inverter yourself.
7. Do not operate the machine when the distribution cabinet is not closed.
8. If the machine current is overloaded, special attention must be paid.
9. Never connect or disconnect a wire when it is energized or under load.
10. Using a damaged power cord may result in electric shock; do not use a damaged power cord.
11. Wires should be kept 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. If the indicator light on the panel does not go out after the power is cut off, it means that there is still high voltage inside the inverter, which is very dangerous. Do not touch any uninsulated electrical parts.

14. Water must not enter the machine's motor or inverter. (Xingyi will not provide warranty coverage for any damage or malfunction caused by water ingress.)

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

2.4 Safety warning signs



Please read and understand the manual before using this machine.



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.



Protective masks must be worn to avoid inhaling dust and damaging the lungs.



Ensure all parts of the machine are in good working order and all bolts are tightened, otherwise it may cause personal injury.



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



High voltage hazard. Do not open. Doing so may cause personal injury.



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



This is where the hook mark is located.



Input voltage (This is a sample reference; please refer to the actual label on the machine's inlet).

3. Machine

3.1 Overview

The GX510 is used to process various types of flooring. It is used for grinding (rough grinding, sanding, polishing) concrete, natural stone and terrazzo floors, or materials specified in this manual or recommended by Xingyi.

The operation handle and handle can be set to many different tilt positions to meet your needs. The machine can select the most suitable position for grinding operations. The grinding head of this machine can be used with different grinding discs for grinding operations.

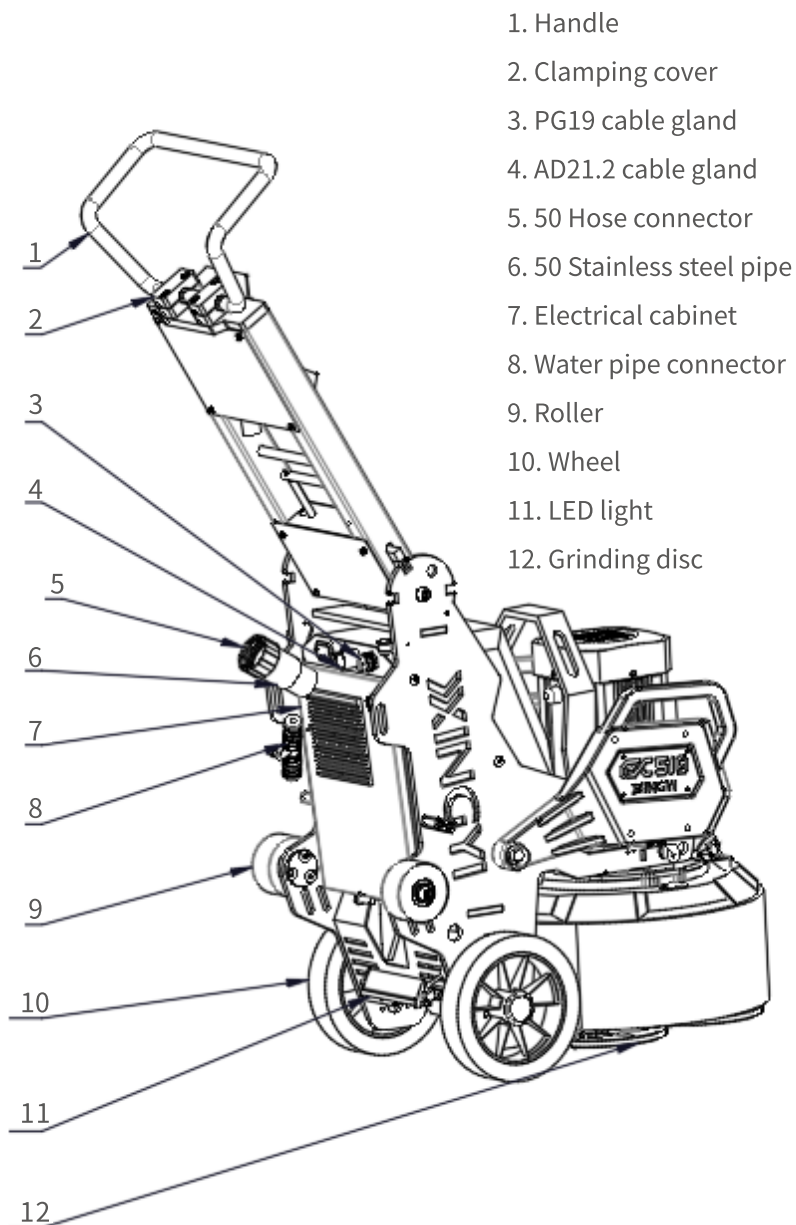
When dry grinding, use a dust skirt to cover the grinding head area of the working environment. Because it is floating, it is in constant contact with the floor. This not only ensures that the operator does not come into contact with rotating mechanical parts, but also reduces dust exposure and improves the efficiency of the vacuum cleaner in absorbing dust.

When dry grinding, always ensure a vacuum cleaner is connected to the grinder (preferably a compatible vacuum cleaner from Xingyi for better results). This is to prevent dust exposure in the air, which could pose a health threat to the operator, business owner, and nearby residents. Because inhaling dust is harmful, a protective mask should be worn during operation, even with a vacuum cleaner, to ensure your own health.

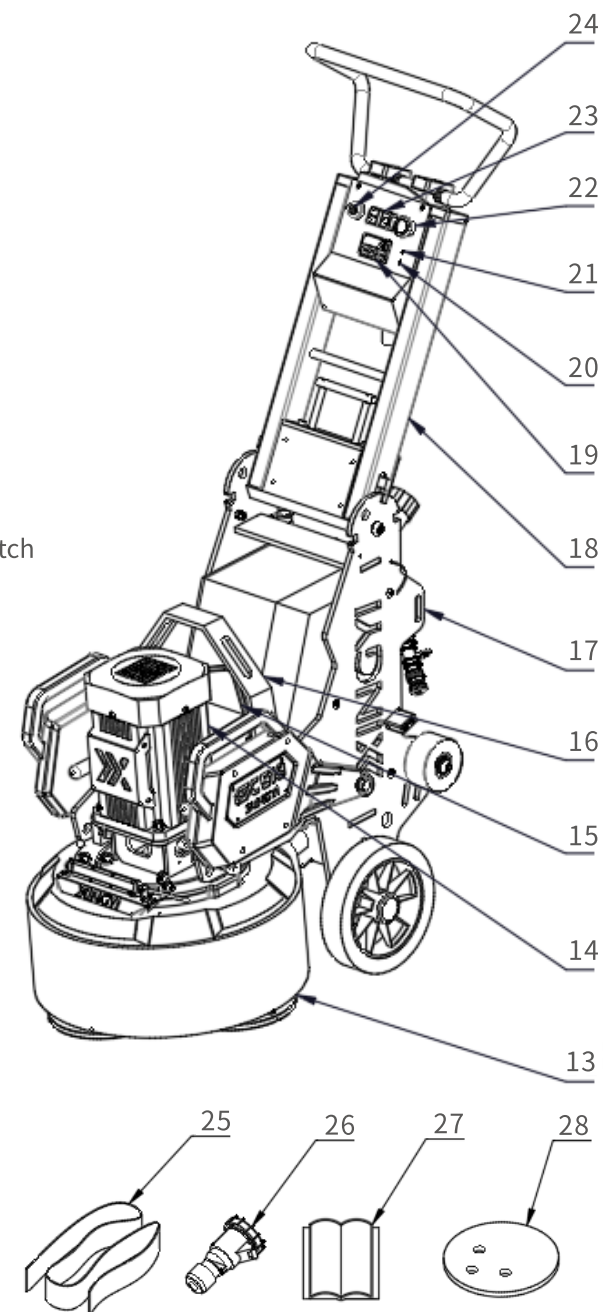
This machine can perform both dry and wet grinding. When wet grinding, water is sprayed onto the grinding disc and the floor using a spray bottle or the machine's water pipe to cool the abrasive, making grinding more efficient. This also prevents dust and ensures the user's safety.

This machine can use different Xingyi abrasives, and the abrasives used in grinding vary depending on the floor material.

3.2 Overview of main assemblies

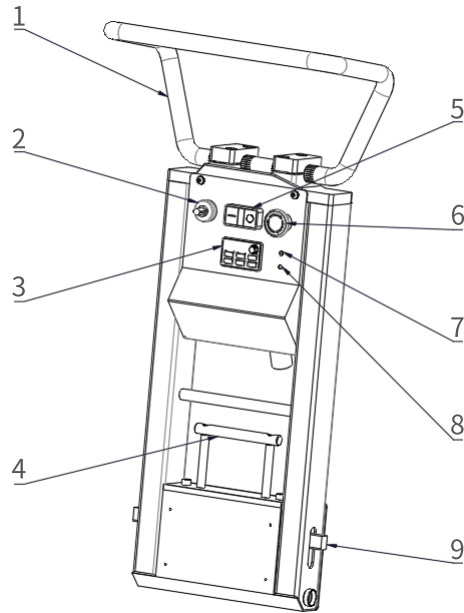


13. Gearbox cover
 14. Motor
 15. Allen key
 16. Lifting frame
 17. Machine frame
 18. Operation handle
 19. Control panel
 20. Green indicator
 21. Red indicator
 22. Emergency stop switch
 23. ON-OFF switch
 24. Speed regulator
 25. Dust skirt
 26. Plug
 27. Manual
 28. Velcro-adapter



3.3 Operation handle assembly

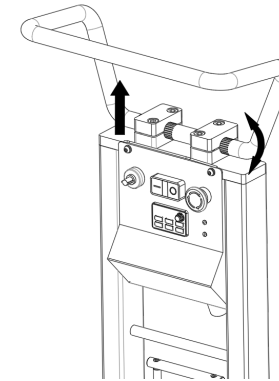
3.3.1 Overview



1. Handle: The position where the user places their hands when operating the machine.
2. Speed regulator: Mainly used to adjust the rotation speed of the motor.
3. Inverter panel: Displays parameters such as voltage, current, motor speed, and overload fault warnings.
4. Pull handle: Used to adjust the direction of the operation handle.
5. ON-OFF switch: Used to control the start and stop of the machine.
6. Emergency stop switch: Used to stop the machine; when the machine is in a dangerous state or needs to stop working, press the emergency stop switch to cut off the power supply and stop the machine operation, so as to protect the safety of personnel and machine.
7. Red indicator: Lights up when the machine malfunctions.
8. Green indicator: Lights up when the machine is working normally.
9. operation handle pin: Used to fix the operation handle.

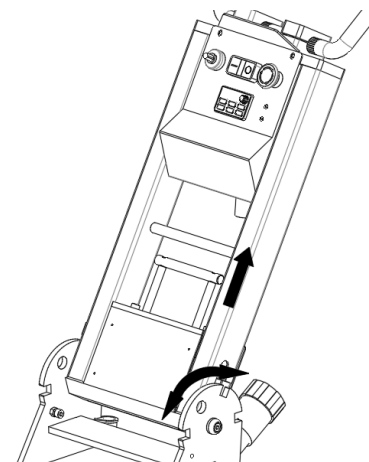
3.3.2 Handle

The operation handle is fixed with two clamping covers and clamping seats. If you need to adjust the angle of the operation handle, you can use the Allen key provided in front of the electrical cabinet to loosen the bolts on the clamping cover, rotate the handle to the appropriate angle, and then tighten the clamping cover.



3.3.3 Operation handle angle adjustment

The adjustable operation handle is controlled by a pull handle to adjust its position to accommodate different machine placement methods (see P19). Hold the handle with one hand to support the operation handle, and pull the handle upwards with the other hand. Rotate the operation handle to the desired position according to the holes on the welding piece, and then release the pull handle.



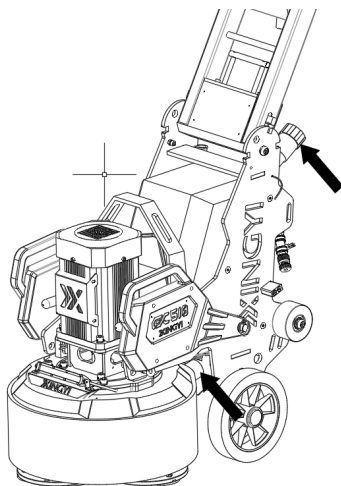
Be careful:

1. After adjusting the position of the operation handle, you must first check whether the operation handle has reached its limit before operating the machine .
2. The operation handle is quite heavy, so you need to hold it firmly with one hand!

3.4 Hose

This machine comes with a hose. When grinding, connect one end of the 50mm hose to the grinding disc cover and the other end to the vacuum cleaner using a hose clamp. Ensure that the hose is tightly connected during use.

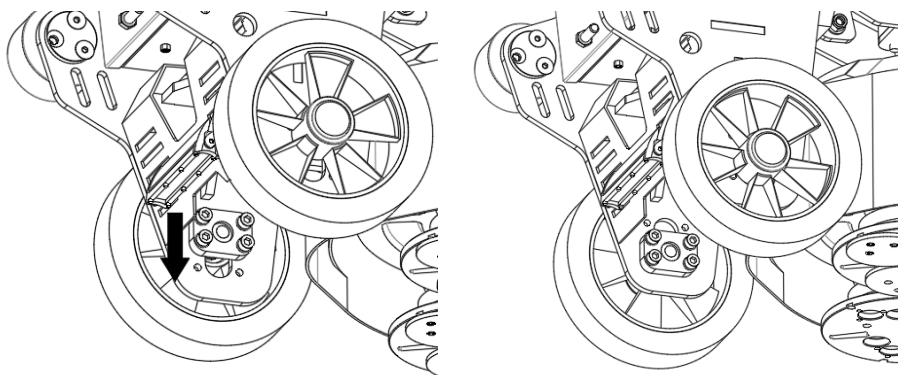
The hose should be kept away from the wheels.



3.5 Adjustable wheel shaft

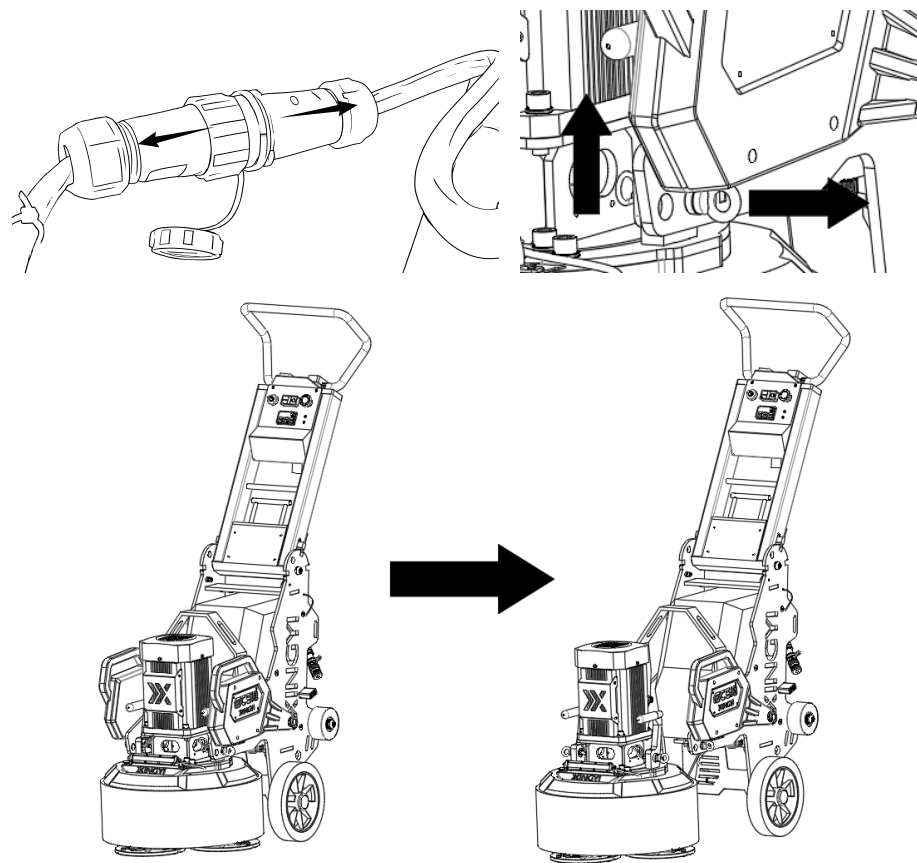
The machine wheels are fixed to the frame by two adjustable wheel shafts, and the wheel height can be adjusted when using abrasives of different heights (such as bush hammer).

Use the Allen key in front of the machine's electrical cabinet to remove the M10 bolts on the adjustable wheel shaft, adjust the height, and then tighten them.



3.6 Quick release power connection

The machine frame and grinding head are connected by a quick-release structure. To separate the frame and grinding head, disconnect the connection of the motor wire, loosen the hose clamp, remove the hose, and remove the two quick-release pins. There are two handles on the grinding disc cover for easy carrying and moving of the grinding head.

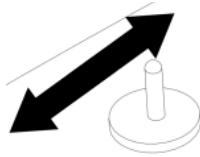


⚠ Notice:

1. Two people are required to assist: One to hold the operation handle and the other to remove the grinding head. Otherwise, the machine frame may tip over, causing personal injury .
2. When installing the power connection for the motor wire, make sure the white dots inside the connector are aligned.

3.7 LED lights

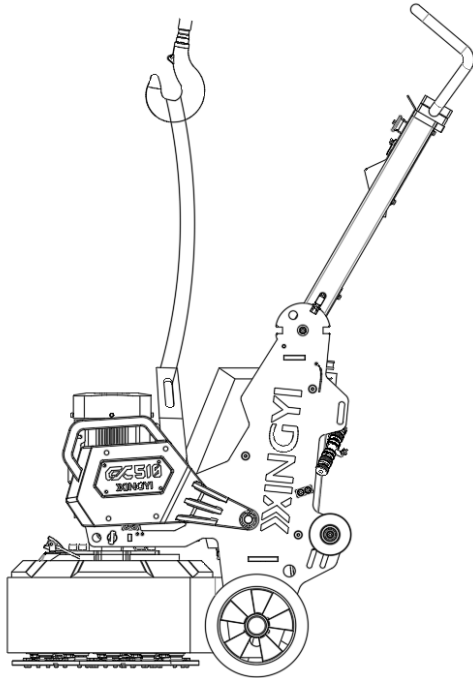
There is an LED light switch on the electrical cabinet. Turning the LED light switch to ON will turn on the LED light, and turning it off will turn it off.



The LED light base is fixed in position, but the illumination distance can be adjusted slightly. This allows users to adjust the distance of the illumination on the floor according to their different needs when operating the machine. Simply rotate the LED light up or down to adjust it.

3.8 Lifting frame

The machine is equipped with a lifting frame for lifting and transport.

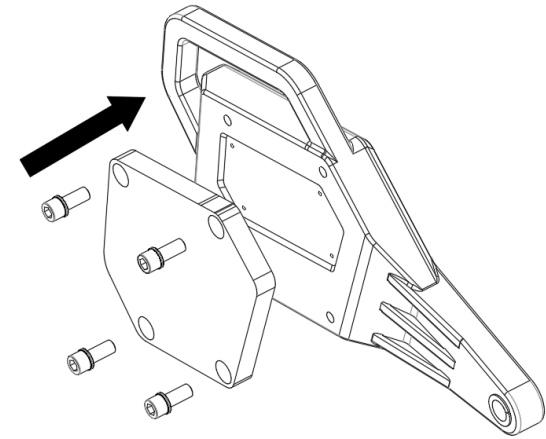


Notice:

1. Lifting the machine may cause personal injury or damage to the machine or surrounding objects. Identify the danger zone, then check and ensure that no one is in the danger zone during the lifting process.
2. Check that the rope is securely fixed to the lifting hole.

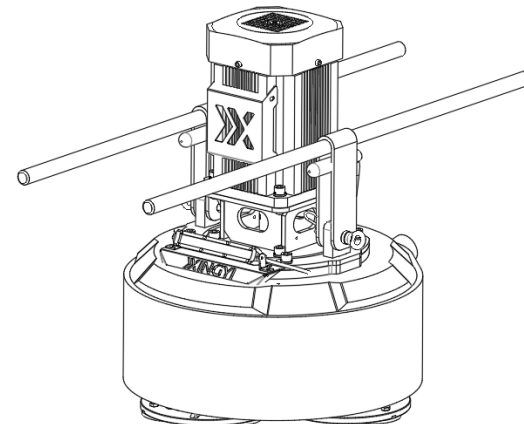
3.9 Additional counterweight (Optional)

The machine can be equipped with an additional counterweight, which weighs 2*5.5KG. The counterweight is locked to the counterweight using 4-M12*30 bolts and tab washers.



3.10 Carrying handle parts (Optional)

The machine can be equipped with carrying handle parts for easy movement of the gearbox. Separate the gearbox from the frame (see P16) and secure the carrying handle parts with the machine's original quick-release pins.



4. Machine Operation

4.1 Overview

The following sections describe the different locations of the grinder, the main operation of the grinder, and how to install the abrasives.

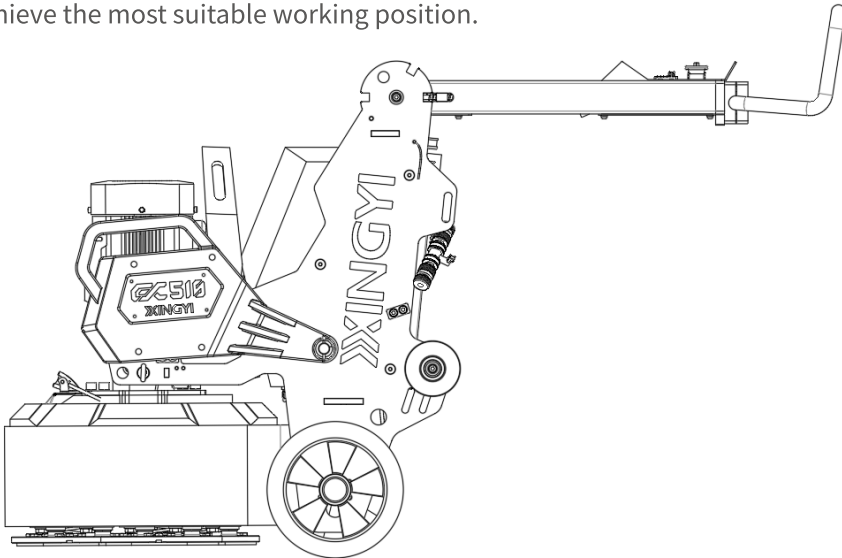
Notes:

1. The grinder can only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.
2. Protective equipment must be used when operating the grinder, such as protective gloves, face shield, work clothes, safety helmet, and insulated shoes.

4.2 Machine location description

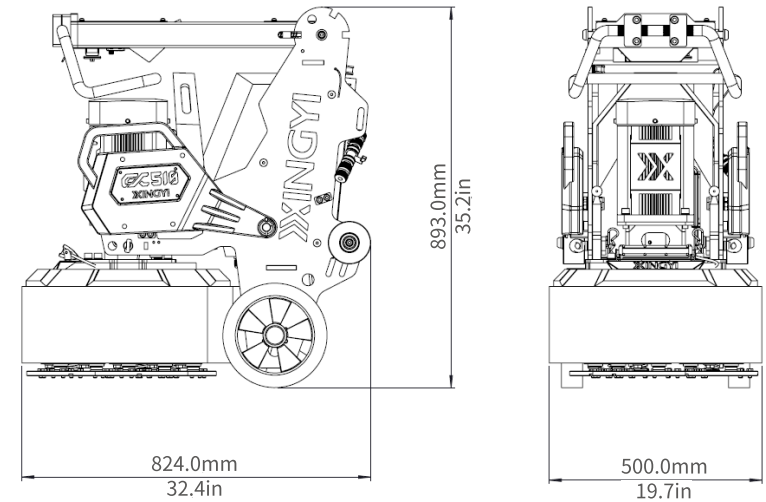
4.2.1 Machine working position

When the grinder is working, adjust the position of the operation handle to achieve the most suitable working position.



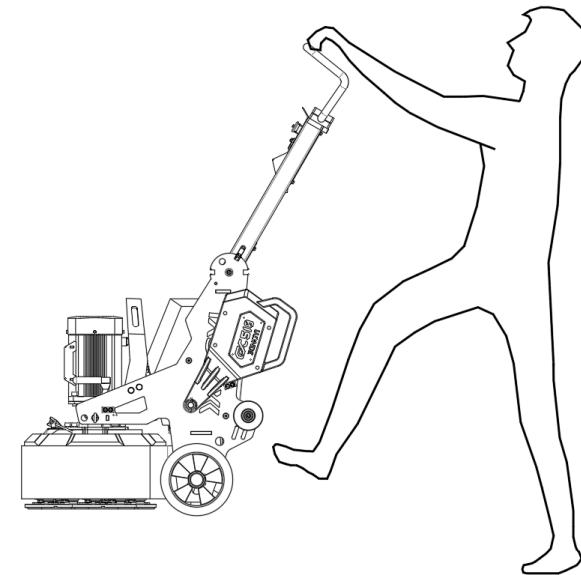
4.2.2 Machine packaging position

During packaging, the position of the operation handle can be adjusted to achieve the desired packaging position. The minimum packaging dimensions are as follows; packaging can be carried out according to these dimensions.



4.2.3 Machine tilt position

Adjust the handle and operation handle to the machine's tilt position.



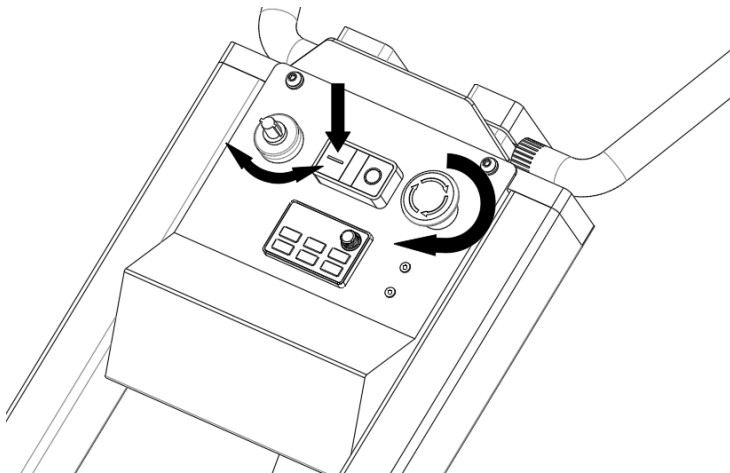
To lower the machine, grip the handles firmly with both hands, use your own weight to balance the machine, and lower it slowly to protect the grinding head. When lowering the machine, be mindful of your own strength and operate with caution to ensure the safety of both the machine and yourself. Xingyi shall not be held responsible for any machine damage or personal injury caused by improper operation.

4.2.4 Notes

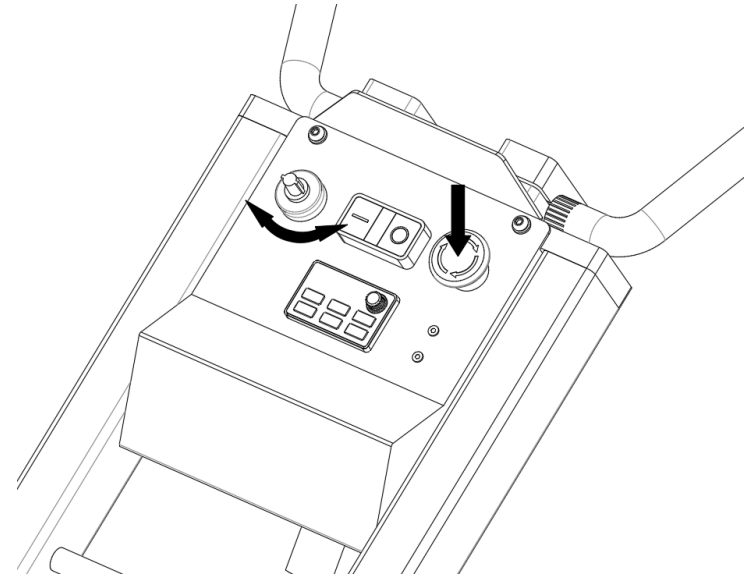
1. If operated carelessly, the grinder may tip over, causing machine damage and personal injury.
2. During the adjustment process, make sure the locking device is reset before operating the machine.
3. When the grinder is adjusted to the transportation or packaging position, there is a risk of crushing injury, so please be careful.
4. Inhaling dust during the grinding process is harmful. Please wear a professional mask during operation to ensure personal safety.
5. When tilting or lowering the machine, pay special attention to your own safety to avoid damage to the machine.

4.3 Start and stop the grinder

1. Start the grinder: Rotate to turn on the emergency stop switch, press the green start button in the ON-OFF switch to start the machine, and then adjust the motor speed using the speed regulator.



2. Stop the grinder: Press the emergency stop switch to stop the grinder; at the same time, reset the speed regulator to 0 RPM.



⚠ Notice:

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

The emergency stop switch can only be rotated and pressed down in the direction indicated on the switch; it cannot be pulled up.

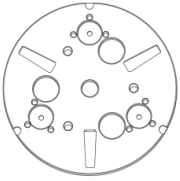
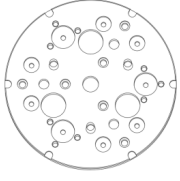
When starting the machine, it is recommended to press the handle to slightly tilt the machine back, reduce the pressure on the grinding disc, and reduce the friction between the grinding disc and the floor. This will prevent the motor from being overloaded when starting the machine.

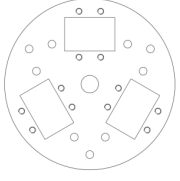
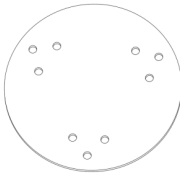
4.4 Replace the grinding disc

The machine can be fitted with different grinding discs according to usage requirements. Below are the common methods for replacing grinding discs.

When changing the grinding disc, adjust the machine to the tilt position, then tilt the machine up and carefully lay it flat. After laying the machine flat, stand next to it to check if it is stable.

4.4.1 List of grinding disc and velcro-adapter

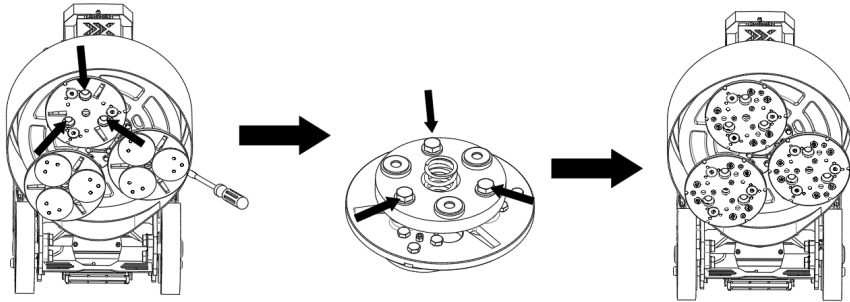
1	SN	Name	SKU	Picture
	1	Grinding disc	3.14.112.012	
	Velcro-adapters can be used			
	SN	Name	SKU	Picture
	1	100 Velcro-adapter	3.22.115.003	
2	2	100 Velcro-adapter	3.22.115.028	
	1	Grinding disc	3.14.112.043	

3	SN	Name	SKU	Picture
	1	Bush hammer mounting disc	3.14.112.026	
	Abrasives can be used			
	SN	Name	SKU	Picture
4	1	Bush hammer	A03.01.0502	
	1	Integrated Velcro-adapter	3.14.211.021	

4.4.2 Replace the grinding disc

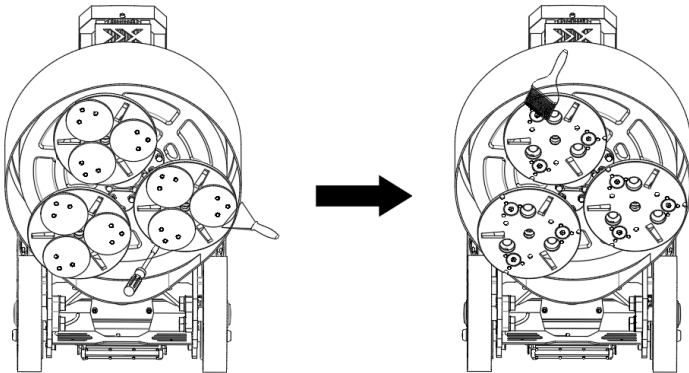
Use a screwdriver to remove the abrasive from the grinding disc, and use a 24mm screwdriver socket and an electric wrench to remove the three M16 bolts from the grinding disc.

Remove the other three M16 external hexagonal gears, replace them with the grinding discs, and then reinstall the removed grinding disc assembly onto the gearbox.



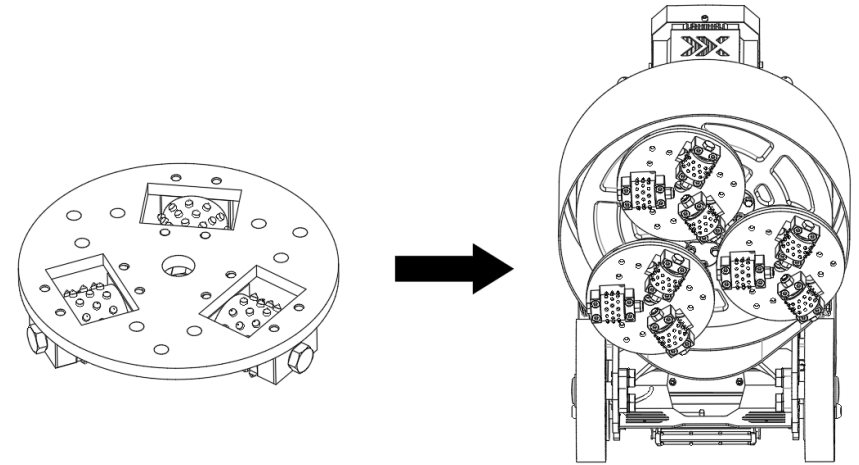
4.4.3 Replace the abrasive

Use a flat-head screwdriver and a scraper to replace the abrasives. After removing the abrasives, clean the grit and debris from the magnet with a brush to avoid affecting the magnetism and causing the abrasives to fly out during machine operation.



4.4.4 Replace the bush hammer

Install the bush hammer on the bush hammer mounting disc, align it with the hole and attach it to the magnet. Lock the adjustable wheel shaft in the four screw holes below and adjust the wheel height (see P15).



After replacing the bush hammer, it can be used in the following fields:

1. Roughen the concrete surface.
2. Clean most of the horizontal surfaces.
3. Remove surface coatings.
4. Apply anti-slip treatment to the surface.

⚠ Notice:

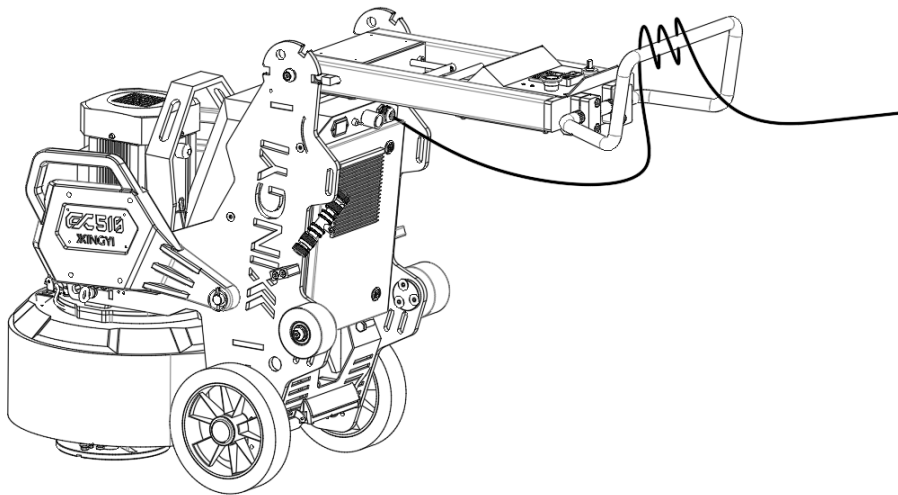
Make sure the machine does not tilt forward before changing the grinding disc. When the machine has been running for a period of time, the abrasive and grinding disc will generate high temperatures. Please be careful when replacing the grinding disc to avoid burns.

The grinding disc is very heavy, so be careful when replacing it to avoid it falling and injuring you. If necessary, two people can assist with the assembly. Make sure the power is off and the emergency stop switch is pressed before changing the grinding disc.

4.5 Winding method of machine working wires

The way the power cord is wound is particularly important during machine operation, as it can greatly improve your work efficiency and enhance your safety. The specific operating procedure is 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 two times;
4. Gently pull the power cord to ensure sufficient friction so that it is securely attached to the handle.

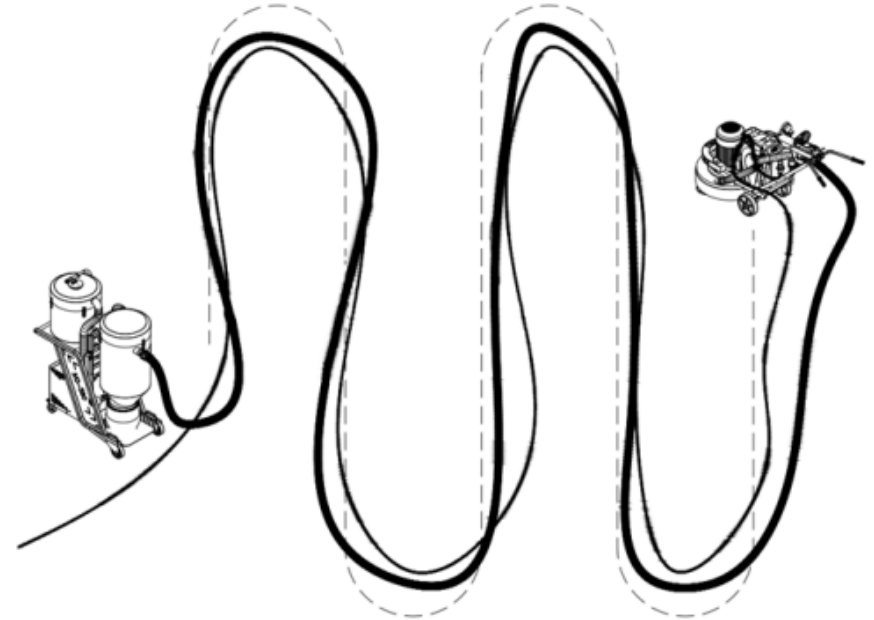


⚠ Notes:

1. Ensure the power plug and socket are securely connected;
2. Before plugging in the power cord, ensure that the emergency stop switch is pressed and all other switches are reset.
3. Please use the minimum specification power cord according to see P54.
4. Please use the correct power supply.

4.6 Optimal grinding route

When grinding the floor, it should be done in a # pattern for better results. When grinding in this # pattern, the direction of the grinder should be such that the power cord extends as far as possible; this will further prevent the power cord from interfering with the normal operation of the grinder.



Note: The machine model in the above images can be ignored; they are for reference only regarding the grinding route and winding method.

5. Equipment Maintenance

5.1 Overview

We recommend that you inspect the grinder regularly to extend its lifespan.

Notice:

The power supply to the grinder must be disconnected during maintenance and repair.

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

5.2 Daily inspection

5.2.1 Check the switch

Turn the emergency stop switch in the same direction as the switch, press the start switch to start the machine, and see if the machine starts.

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

Rotate the speed regulator to see if the motor speed changes normally.

5.2.2 Check the grinding disc cover

In dusty conditions, the hose on the grinding disc cover of the grinder can easily become clogged with dust. Use a flashlight to illuminate the hose to check for dust blockage and clean it if necessary. (See P51)

5.2.3 Check the grinding disc

When a grinder operates for extended periods or generates significant amounts of grinding dust, the grinding disc of the grinding head may become contaminated with dust. Excessive dust, if not cleaned promptly, can lead to a less tight fit between the grinding head and the grinding disc, affecting grinding efficiency. In more serious cases, causing abrasive particles to fall out and resulting in accidents. Remember to clean it when necessary. (See P51)

5.2.4 Notes

 When performing maintenance and inspections, remember to use protective equipment such as protective gloves, protective masks, and insulated shoes.

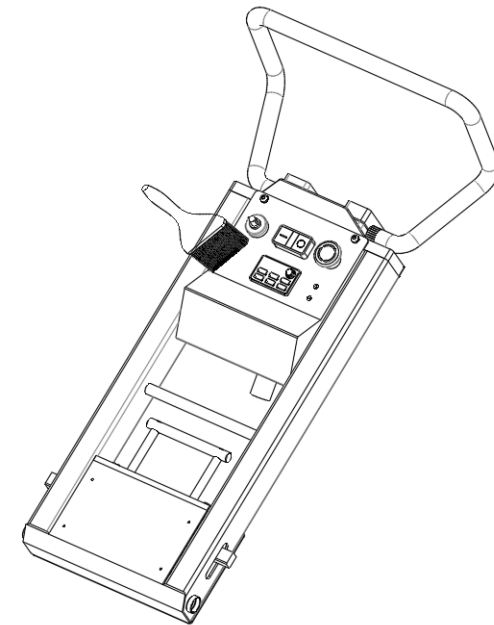
Inspection and repair can only be carried out with the emergency stop switch pressed and the power disconnected.

When tilting the machine, remember to check if it is level before inspecting the grinding disc.

5.3 Cleaning

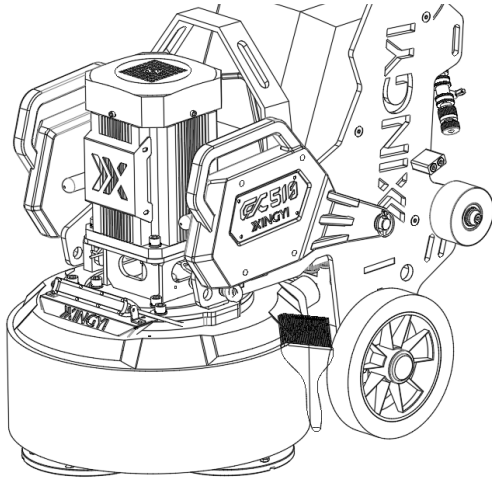
5.3.1 Clean the switch

Since the grinder works on the construction site for a long time, dust inevitably gets into the switch. Therefore, after each operation of the grinder, you should check whether the switch is clogged with dust, which may cause the switch to malfunction.



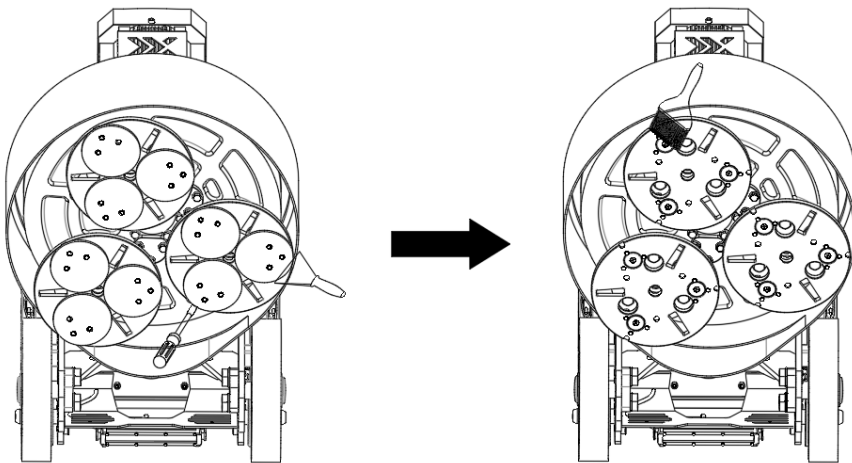
5.3.2 Clean the grinding disc cover

Disconnect the hose connector, illuminate the hose with a flashlight, and use a brush to clean the dust from the opening. This will prevent clogging and ensure efficient vacuuming.



5.3.3 Clean the velcro-adapter

Lift the machine, use a flat-head screwdriver to pry off the abrasives, and scrape off the dust with a shovel. If not cleaned promptly, the abrasives may not adhere properly, causing them to fly off during grinding, resulting in machine damage and personal safety threats.



5.3.4 Notes

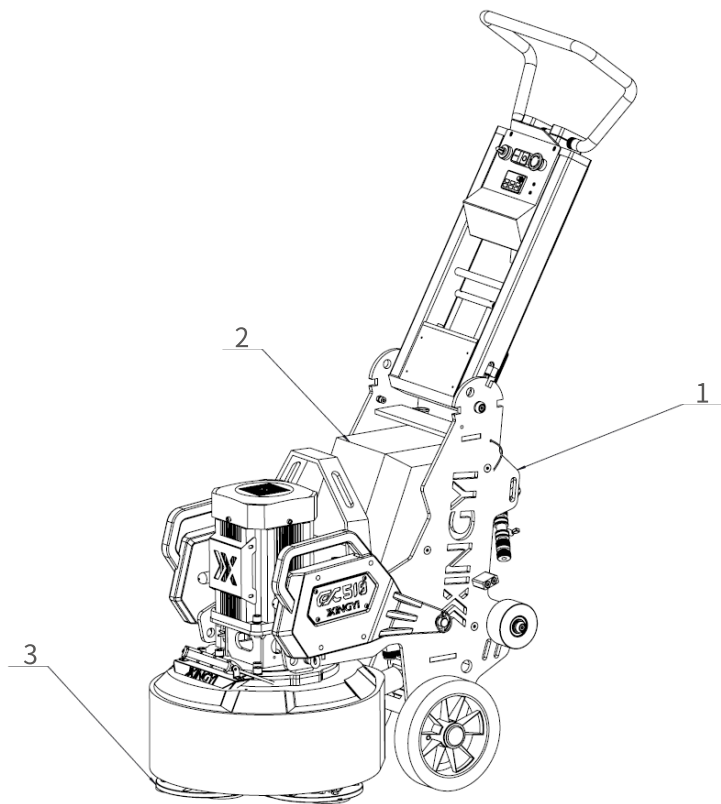
1. Always unplug the plug from the socket before cleaning, maintenance or assembly.
2. Always clean the entire machine after the end of each workday. Do not use a pressure washer to clean the machine directly.

5.4 Maintenance

Any machine requiring repair must be performed by trained service personnel from a Xingyi service center using genuine Xingyi parts and accessories. If your machine requires repair, please contact your retailer.

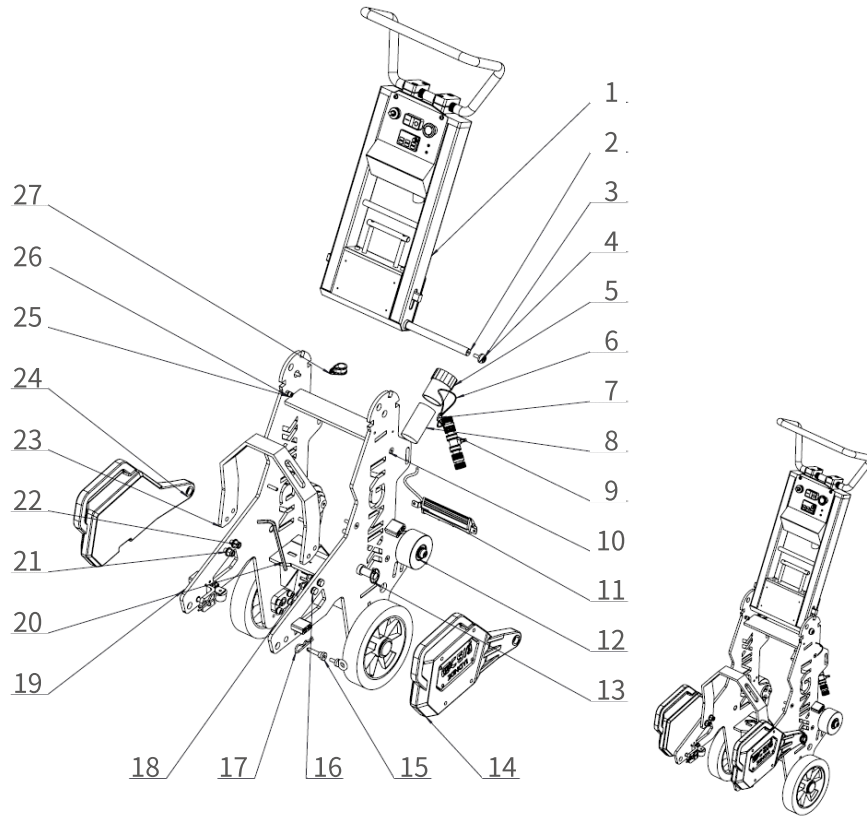
6. Parts List

1. Grinder assembly



1.11.106.001 Grinder			
SN	SKU	Name	QTY
1	2.11.106.001	Machine frame assembly	1
2	2.13.106.001	Electrical cabinet assembly	1
3	2.12.106.001	Machine head assembly	1

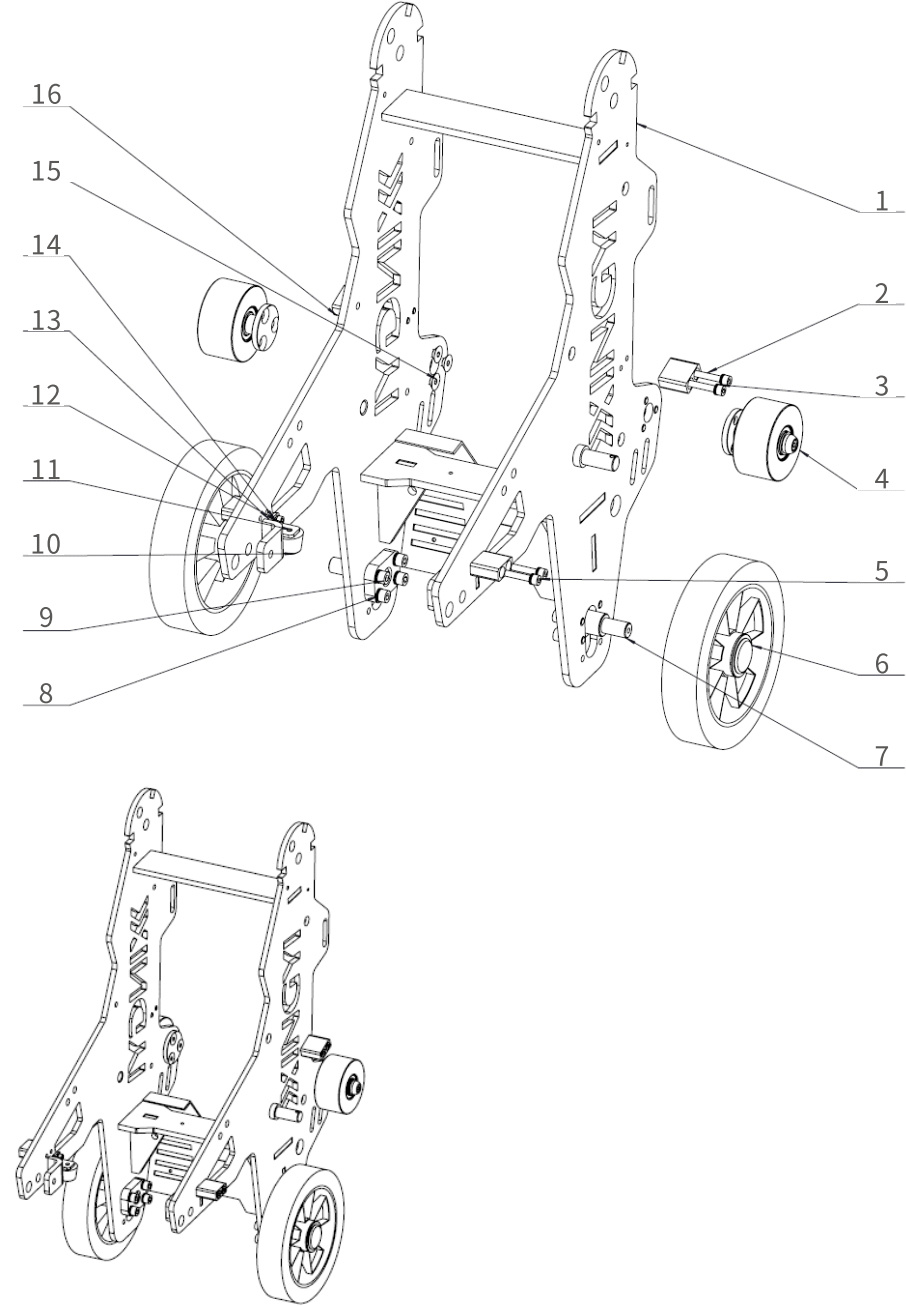
2. Machine frame assembly



2.11.106.001 Machine frame assembly			
SN	SKU	Name	QTY
1	2.41.106.005	Operation handle assembly	1
2	4.11.106.055	Rotary shaft	1
3	5.11.101.021	Bolt	2
4	4.11.001.034	Cover	2
5	3.22.126.004	Hose connector	1
6	3.22.201.084	Wire rope	0.2

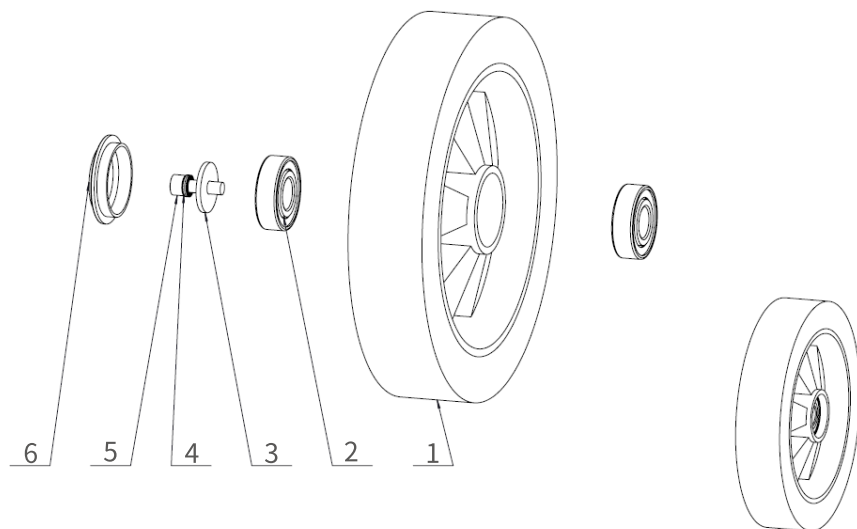
7	3.22.201.083	Wire rope clamp	1
8	4.11.100.044	50mm steel pipe	1
9	3.22.126.084	Two-way nipple valve assembly	1
10	5.11.101.128	Bolt	6
11	3.21.116.007	LED light	1
12	2.41.106.001	Machine frame assembly	1
13	3.22.121.002	Ring pin	2
14	2.41.106.006	Left counterweight assembly	1
15	4.11.106.056	Quick-release pin	
16	5.11.109.058	Tab washer	4
17	3.22.121.004	R-type pin	2
18	5.11.106.021	Nut	4
19	92.51.14.091	Bolt	2
20	5.51.107.109	Long Allen key	1
21	5.11.109.014	Flat washer	4
22	5.11.101.187	Bolt	5
23	4.11.106.046	Lifting frame	1
24	2.41.106.004	Right counterweight assembly	1
25	5.11.101.040	Bolt	1
26	5.11.106.002	Nut	1
27	5.11.107.003	Fixing clamp	1

3. Machine frame assembly



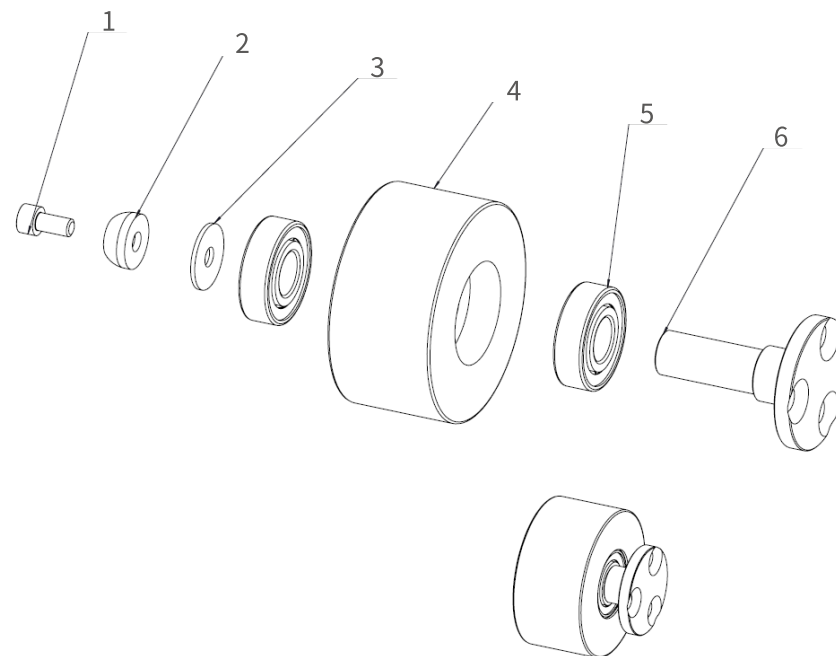
1.11.106.001 Machine frame assembly			
SN	SKU	Name	QTY
1	2.21.106.006	Frame	1
2	5.11.101.058	Bolt	4
3	5.11.109.009	Tab washer	10
4	2.41.106.007	Roller assembly	2
5	5.11.101.270	Bolt	4
6	2.41.106.002	Wheel assembly	2
7	4.11.026.003	Adjustable wheel shaft	2
8	5.11.109.006	Tab washer	8
9	5.11.101.005	M10×30 Bolt	8
10	3.22.117.003	Rubber seat	2
11	5.11.101.040	Bolt	2
12	5.11.101.007	Bolt	4
13	4.11.106.038	Fixing metal part	2
14	5.11.109.061	Tab washer	4
15	5.11.101.263	Bolt	6
16	4.11.078.060	Front fixing block	4

4. Wheel assembly



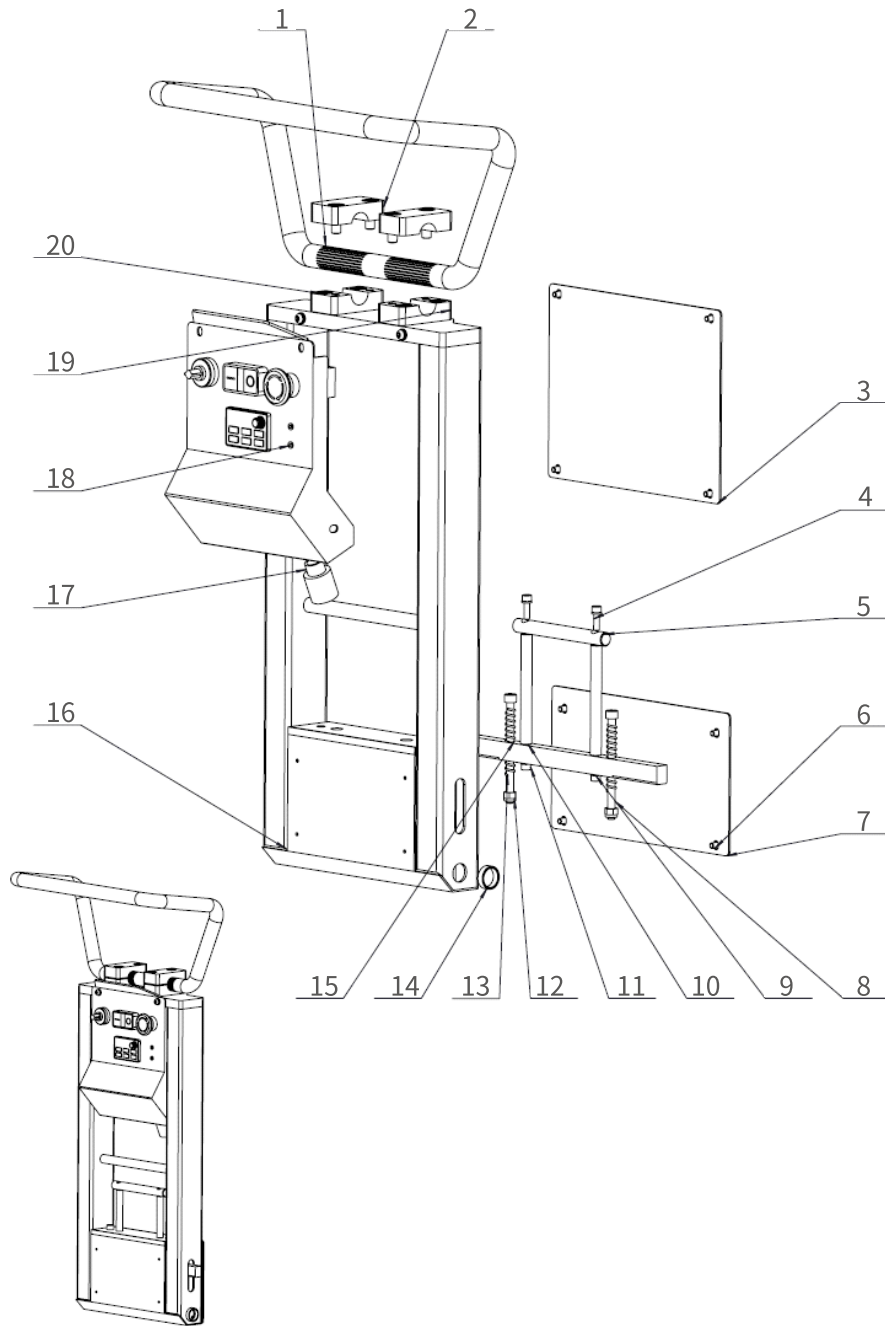
2.41.106.002 Wheel assembly			
SN	SKU	Name	QTY
1	3.22.111.013	Wheel	1
2	3.22.112.081	Bearing	2
3	5.11.109.026	Washer	1
4	5.11.109.009	Tab washer	1
5	5.11.101.021	Bolt	1
6	3.22.111.006	Cover	1

5. Roller assembly



2.41.106.007 Roller assembly			
SN	SKU	Name	QTY
1	5.11.101.040	Bolt	1
2	4.11.001.034	Cover	1
3	5.11.109.074	Flat washer	1
4	4.11.041.083	Roller	1
5	3.22.112.081	Bearing	2
6	4.11.106.059	Roller shaft	1

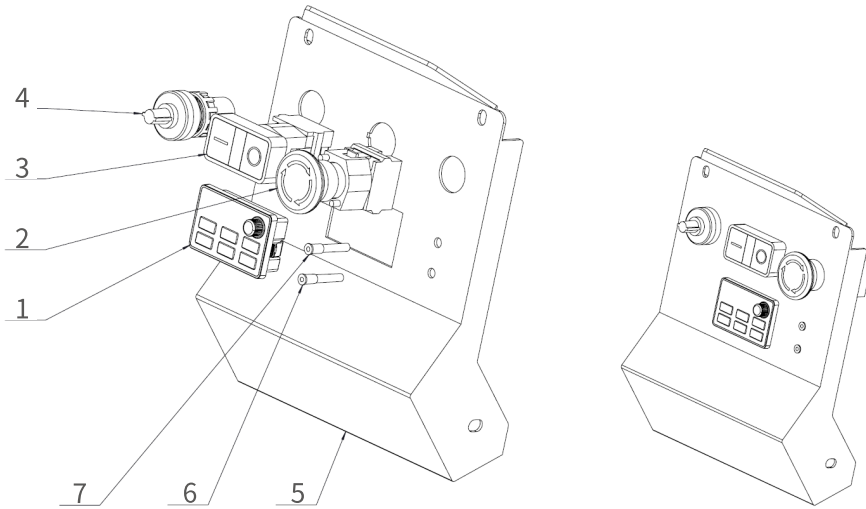
6. Operation handle assembly



2.41.106.005 Operation handle assembly

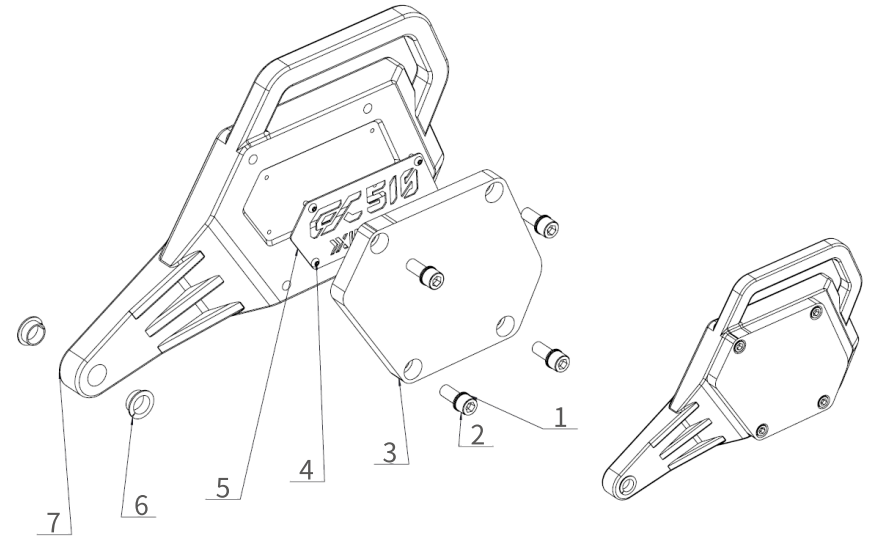
SN	SKU	Name	QTY
1	4.11.066.039	Handle	1
2	4.11.066.038	Clamping cover	2
3	4.11.106.035	Rear cover plate 2	1
4	5.11.101.080	Bolt	2
5	4.11.106.069	Pull handle	1
6	5.11.101.139	Bolt	12
7	4.11.106.036	Rear cover plate 1	1
8	5.11.101.411	Bolt	2
9	5.11.109.061	Tab washer	4
10	4.11.106.067	Pull rod	2
11	5.11.101.018	Bolt	2
12	5.11.106.002	Nut	2
13	B.004.01.4.009	Frame spring	2
14	4.11.106.054	Spacer	2
15	4.11.106.011	Operation handle locking rod	1
16	2.21.106.005	Operation handle	1
17	5.11.110.003	Cable gland	1
18	2.42.106.001	Panel assembly	1
19	4.11.066.037	Clamping seat	2
20	92.51.33.051	Bolt	8

7. Panel assembly



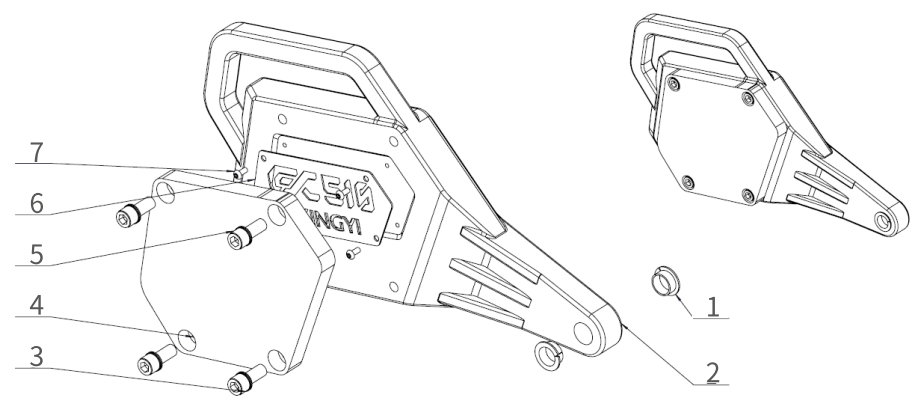
2.42.106.001 Panel assembly			
SN	SKU	Name	QTY
1	3.12.112.007	Inverter panel	1
2	3.21.114.169	Emergency stop switch	1
3	3.21.114.154	ON-OFF switch	1
4	3.21.117.005	Speed regulator	1
5	4.11.106.037	Control panel	1
6	3.21.116.021	Green indicator	1
7	3.21.116.022	Red indicator	1

8.Right counterweight assembly



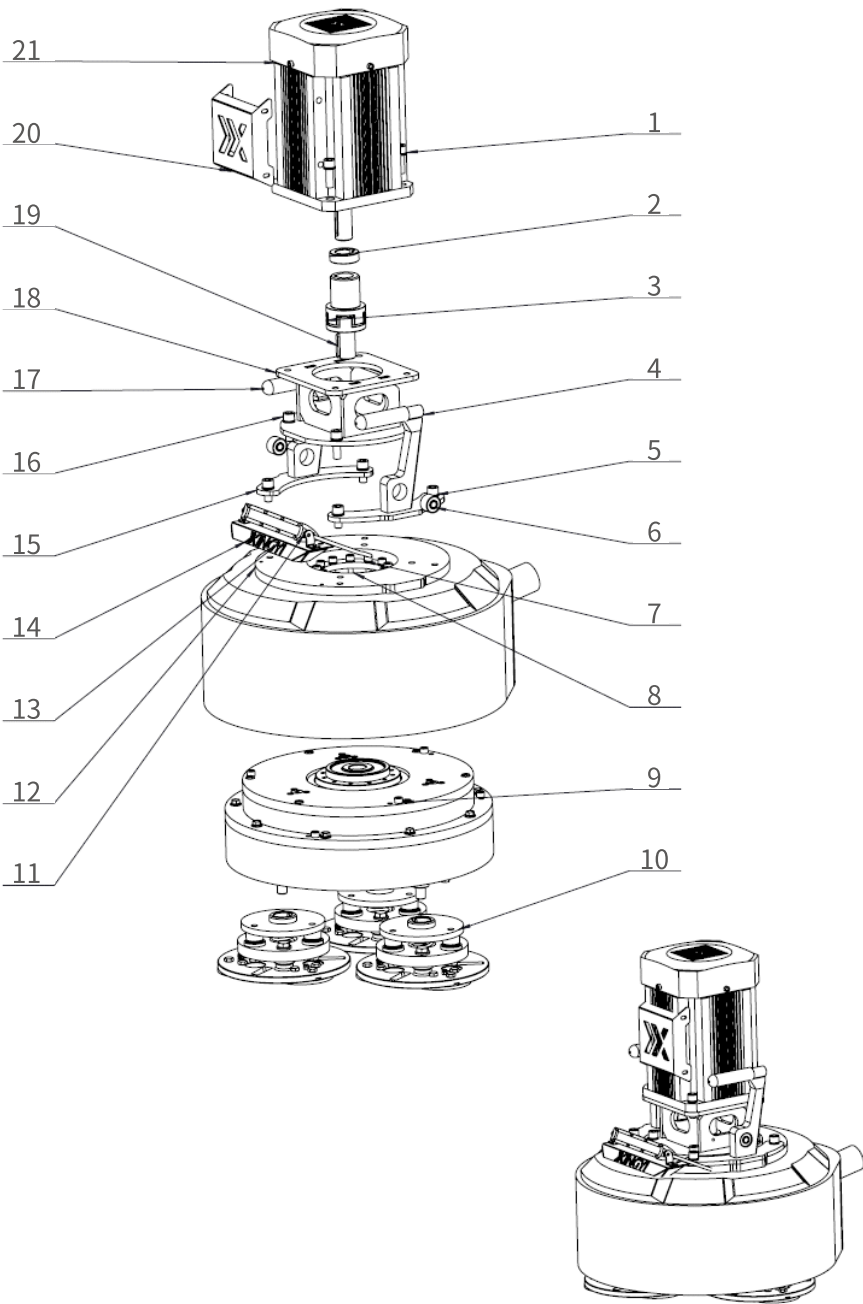
2.41.106.004 Right counterweight assembly			
SN	SKU	Name	QTY
1	5.11.109.058	Tab washer	4
2	5.11.101.244	Bolt	4
3	4.11.106.048	Right additional counterweight	1
4	5.11.101.429	Bolt	4
5	A.106.04.4.011	LOGO plate	1
6	3.22.112.070	Sleeve	2
7	4.11.106.050	Right counterweight	1

9.Left counterweight assembly



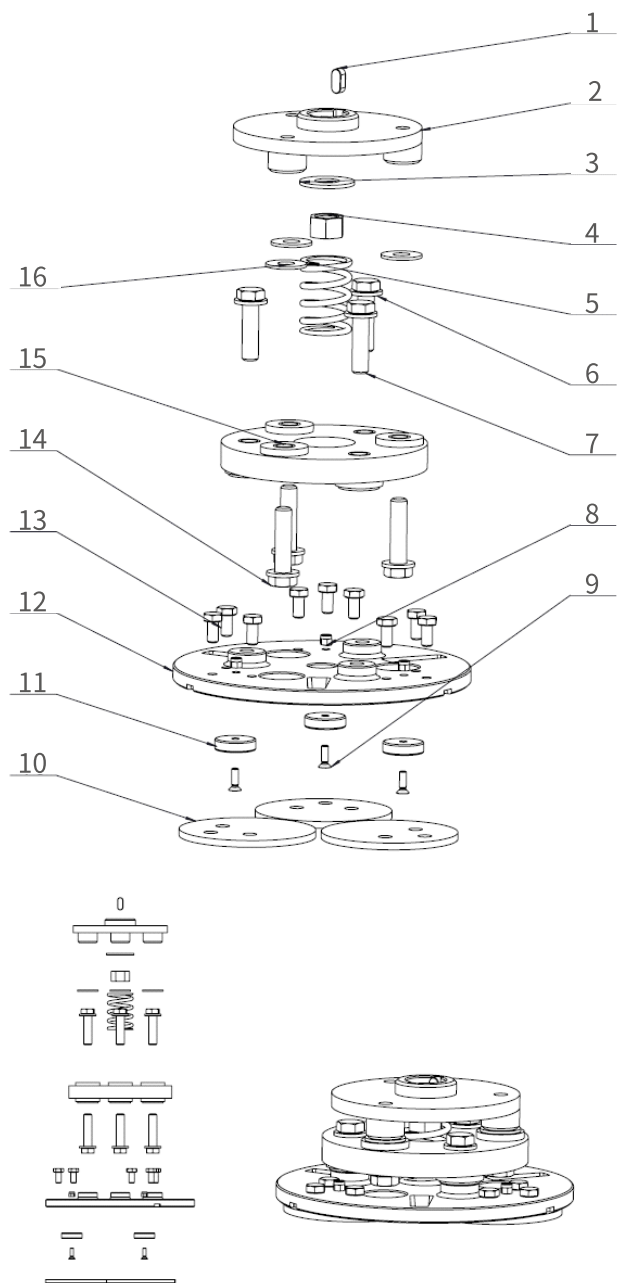
2.41.106.006 Left counterweight assembly			
SN	SKU	Name	QTY
1	3.22.112.070	Sleeve	2
2	4.11.106.045	Left counterweight	1
3	5.11.109.058	Tab washer	4
4	4.11.106.043	Left additional counterweight	1
5	5.11.101.244	Bolt	4
6	A.106.04.4.010	LOGO plate	1
7	5.11.101.429	Bolt	4

10. Gearbox assembly



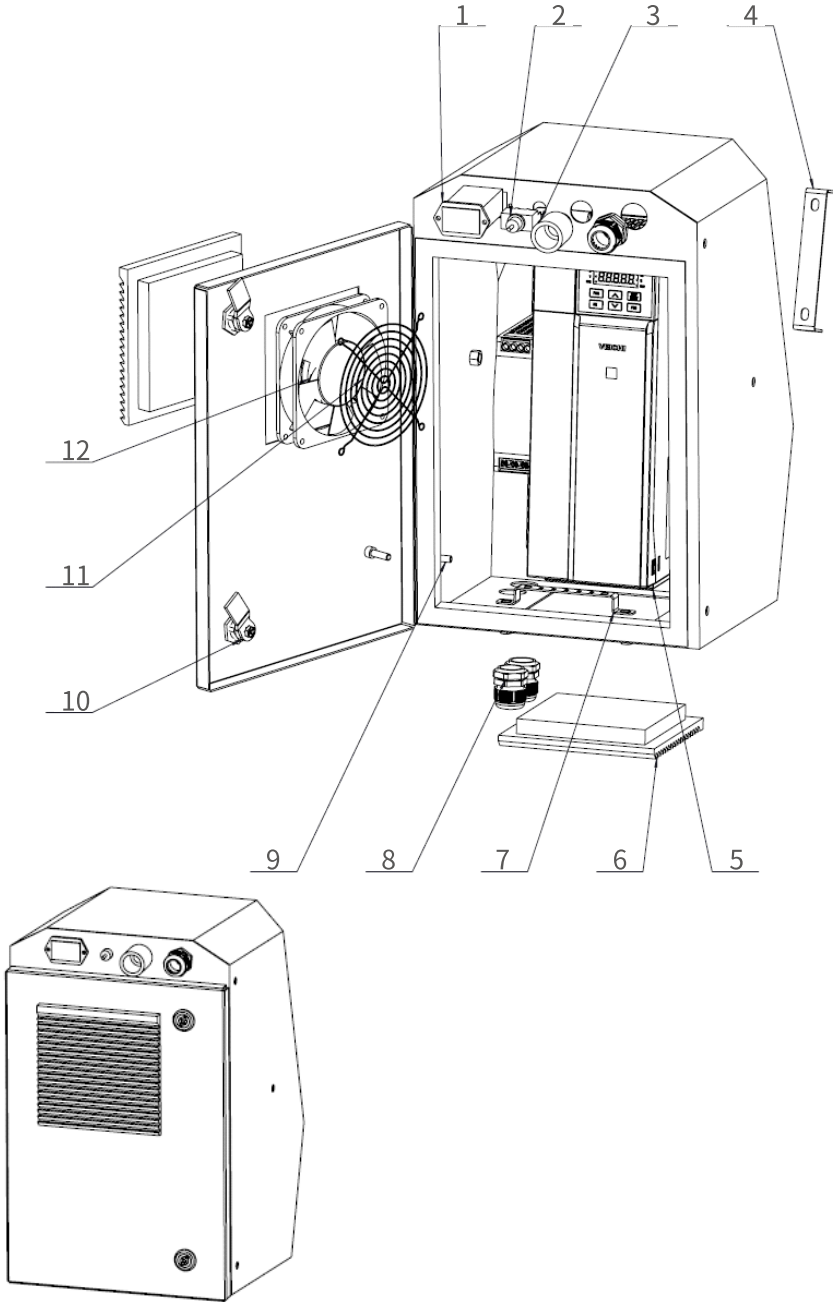
2.12.106.001 Gearbox assembly			
SN	SKU	Name	QTY
1	5.11.109.058	Tab washer	12
2	4.11.017.212	Motor bushing	1
3	3.22.128.027	Coupling	1
4	4.11.106.041	Connection plate	1
5	92.51.33.303	Bolt	4
6	3.22.113.004	Cushion sleeve	2
7	5.11.109.009	Tab washer	12
8	5.11.101.008	Bolt	12
9	3.13.112.008	Gearbox	1
10	2.41.026.004	Grinding disc assembly	3
11	3.21.116.007	LED light	1
12	2.21.106.007	Gearbox cover	1
13	3.22.163.021	Oil seal cover	1
14	4.11.005.059	Plate	1
15	4.11.106.040	Connection plate	1
16	5.11.101.245	Bolt	8
17	3.22.122.019	Rubber sleeve	2
18	4.11.106.039	Motor connection seat	1
19	3.22.118.005	Key way	1
20	4.11.106.071	Motor cover	1
21	3.11.111.152	PM motor	1

11.Grinding disc assembly



2.41.026.012 Grinding disc assembly			
SN	SKU	Name	QTY
1	3.22.118.001	Key way	1
2	3.22.116.006	Upper flange	1
3	4.11.017.0 24	Washer	1
4	5.11.106.0 16	Nut	1
5	3.22.120.006	Grinding disc spring	1
6	5.11.109.014	Flat washer	6
7	5.11.101.144	Bolt	3
8	5.11.106.013	Nut	3
9	5.11.101.0 03	Bolt	3
10	3.22.115.003	100 Velcro-adapter	3
11	3.22.114.001	Magnet	3
12	3.14.112.012	Grinding disc	1
13	5.11.101.001	Bolt	9
14	5.11.101.0 48	Bolt	3
15	3.22.117.033	Rubber pad	1
16	5.11.109.025	Flat washer	6

12. Electrical cabinet assembly



2.13.106.001 Electrical cabinet assembly			
SN	SKU	Name	QTY
1	3.21.119.006	Hour meter	1
2	3.21.114.004	Toggle switch	1
3	5.11.110.003	Cable gland	1
4	4.11.100.043	Fixing plate	1
5	2.42.106.002	Electrical installation assembly	1
6	3.21.115.002	Filter	2
7	3.21.201.023	Grounding bar	1
8	5.11.110.009	Cable gland	3
9	2.21.106.008	Electrical cabinet	1
10	3.22.123.001	Cabinet lock	2
11	3.21.115.004	Mesh plate	1
12	3.21.115.008	Fan	1

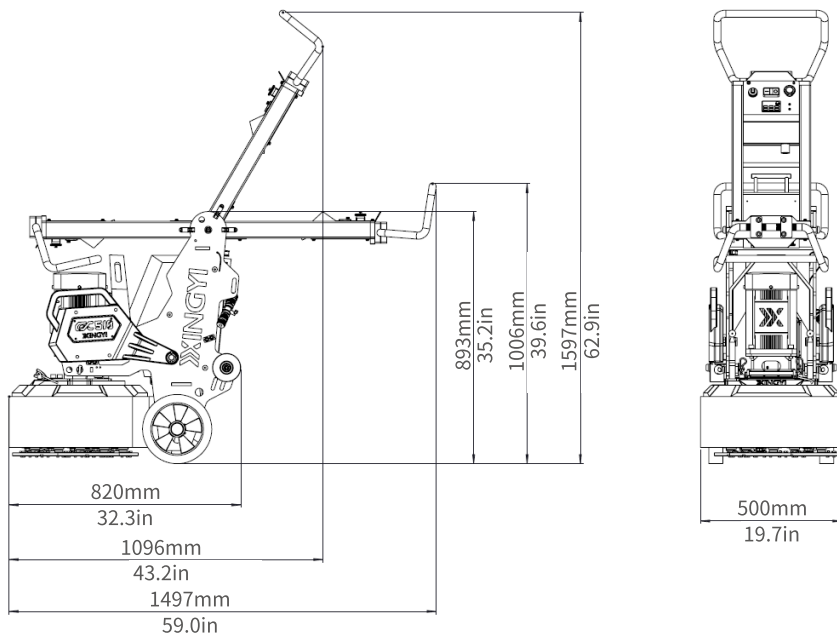
7. Common Problems And Solutions

This chapter describes some possible malfunctions and how to handle them. If the problem persists or errors occur, please contact your nearest retailer.

Problem	Possible cause	Solution
Machine does not start	The emergency stop switch was pressed.	Turn on emergency stop switch
	Overload	Press the emergency stop switch, press the reset switch several times, and then restart the machine.
	Damaged power supply and power cable	Contact a licensed electrician
	The rear contact switch is faulty.	Ensure the wires are correctly connected to the switch on the back, and check the contacts and ignition switch.
Machine starts and then stops	Overload	Press the emergency stop switch, press the reset switch several times, and then restart the machine.
The machine is difficult to control or the motor consumes a lot of current.	Too few diamonds or the wrong tool type is used under the machine	Use the diamond count recommended by Xingyi to reduce stress on the grinder and operator.
Machine vibration	The diamond may not be installed correctly or at the wrong height.	Correctly install diamonds of the same height
	Is the chassis flat	Adjust and install the chassis

8. Technical Data

Model	GX510
Motor Power	4KW/5.5HP
Rated Voltage	1P 220V
Rated Current	14.5A
Input Hertz	50Hz/60Hz
Inverter Power	5.5KW/7.5HP
Grinding Width	490mm/19.29in
Grinding Disc Size	220mm/8.66in
Grinding Speed	350-1500r/min
Grinding Pressure (counterweight in front)	147KG
Grinding Pressure (with counterweight at the back)	90.5KG
Dimensions (working position): Length F*Width L*Height A	1497*500*1006mm/59.0*19.7*39.6in
Dimensions (tilt position): Length E*Width L*Height C	1096*500*1597mm/43.2*19.7*62.9in
Packaging Dimensions: Length D*Width L*Height A	820*500*893mm/32.3*19.7*35.2in
Longest F*Widest L*Highest C	1497*500*1597mm/59.0*19.7*62.9in
Machine Weight	256KG (Optional: Additional 2*5.5KG weights)
Wire Type	2*4mm ² +1*2.5mm ²
Storage Temperature	-20~+60°C/-4~+140°F
Operating Temperature	-10~+40°C/+14~+104°F
Humidity	Below 95% (no condensation)



9. Warranty

Warranty Policy

Xingyi is not liable for costs incurred due to damage caused by transportation, unpacking, or improper use. Local dealers may have specific warranty terms; please contact your local dealer for details.