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Manual of 1560LE Floor Grinder

Contents

1. Introduction

1.1 Summary	01
1.2 Liability	01
1.3 Packing list	01
1.4 Receiving goods	01
1.5 Machine information metal plate	02
1.6 Processing and storage	02
1.7 Warranty	02

2. Risk List

2.1 General safety instructions	03
2.2 Operation safety instructions	04
2.2.1 Personal protective equipment	05
2.2.2 Work area safety	06
2.3 Electricity safety tips	07
2.4 Safety warning signs	08

3. Machine

3.1. Overview	10
3.2 Parts Exploded Diagram	11
3.3 Control Panel assembly	35
3.3.1 phone charger	35
3.3.2 Gearbox lifting adjustment	35
3.3.3 Water tank	36
3.4 Remote Control - Control Panel	37
3.4.1 control panel	37
3.4.2 Remote control Instructions	38
3.5 Remote control box	41
3.5.1 Overview	41
3.5.2 Remote control cabinet locking	42
3.5.3 Use of remote control	42
3.5.4 Use of remote control battery charger	43

4. Machine Operation

4.1 Overview	45
4.2 Quick disassembly of cable support rod	45
4.3 Equipment position description	46
4.3.1 Equipment working position	46
4.3.2 Equipment packaging and transportation position	46
4.4 Replace the abrasive	47
4.5 The winding method of cable	48
4.6 Optimal grinding route	49

5. Equipment operation

5.1 Overview	50
5.2 Equipment position description	50
5.3 Start and stop the grinder	51
5.4 Replacement of abrasive	53
5.5 Attention	53
5.6 Disassemble the gearbox assembly	54

6. Equipment maintenance

6.1 Overview	58
6.2 Daily inspection	58
6.2.1 Check the switch	58
6.2.2 Check the grinding disc cover	58
6.2.3 Check the grinding disc	59
6.2.4 Long-term storage of battery	59
6.2.5 Attention	59
6.3 Clean up	59
6.3.1 Clean the switch	59
6.3.2 Clean the grinding disc cover	60
6.3.3 Clean the abrasives	60
6.3.4 Attention	61
6.4 Overload protection	61
6.5 Maintenance	61

7. Common problems and solutions

7.1 Overview ————— 62

7.2 Common problems and solutions of grinding machines ————— 62

8. Technical Data

————— 63

9. Warranty

————— 65



1. Introduction

1.1 Summary

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

1.2 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 Attention.

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 spare parts , if anything is missing please contact the retailer.

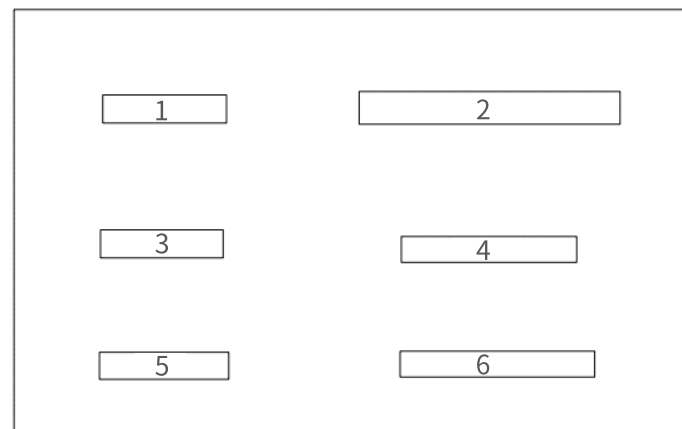
- | | |
|-----------------------|------------------|
| (1) Machine*1 | (4) Plug*1 |
| (2) Manual*1 | (5) Dust skirt*1 |
| (3) Velcro adapter*24 | (6) Camlock*1 |

1.4 Receiving goods

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

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

1.5 Machine information metal plate



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

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 of (See P62) .

Attention! If not operated carefully, the grinder may tip over, causing personal injury and equipment damage.

1.7 Warranty

This warranty covers manufacturing defects only. Xingyi is not responsible for damages that occur during transportation, unpacking or use. In no case will Xingyi be responsible for damages and defects caused by improper use, corrosion or use beyond the specified specifications. The Xingyi is not responsible for consequential damages or expenses in any case. For complete information on the Xingyi warranty period, please refer to Xingyi current warranty terms. Local dealers may have special warranty terms. If there is any uncertainty 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 machine.
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 machine 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 Company can perform repairs and modifications using accessories provided by Xingyi Company.
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

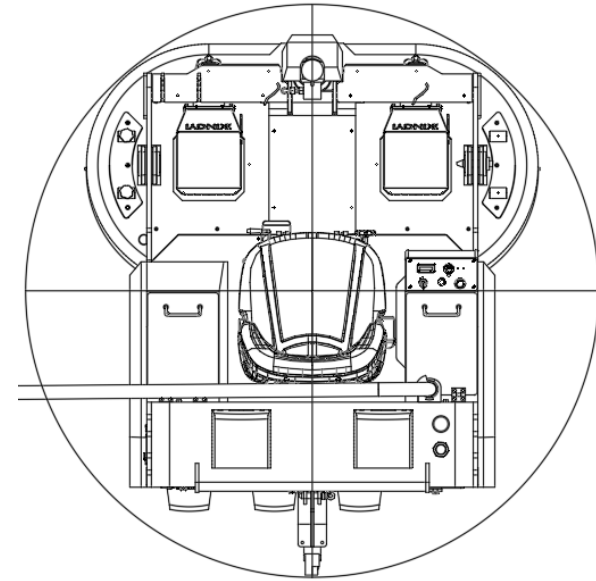
 **Warning:** Please read the following carefully before using the machine.

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, check that the battery power is greater than 40% and make sure that the clutch 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. Your body, hair, jewelry, and loose clothing away from moving parts of the machine, otherwise physical injury may occur.
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, except for the operator, no other personnel are allowed to enter this area, and the operator in this area should be extra careful during operation.
2. Do not use the machine in rain, lightning, dense fog, strong wind or other adverse conditions.
3. Do not operate the machine near explosive or flammable materials or steam. Do not operate the machine near dust, solvents, thinners or other flammable items.
4. The equipment can be remotely operated by remote control. During remote operation, ensure that the machine and dangerous objects are within the field of vision to avoid accidents.

2.3 Electricity safety tips

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

1. All circuit repairs can only be performed by professionals.
2. After the machine stops, the circuit is still energized. All power should be cut off before repairing the machine.
3. The machine is equipped with an overload protection machine 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 inverter on a machine is to regulate speed and protect the safety of users and the machine. Modification or adjustment of the inverter, or unauthorized modification of inverter parameters without Xingyi consent, is prohibited. If the machine 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 inverter, or unauthorized modification of inverter parameters)
6. Never modify the internal parts or circuits of the inverter by yourself.
7. Do not operate the machine when the distribution box is not closed.
8. If the machine current is overloaded, special attention must be paid.
9. Never connect or disconnect cables when the cables are live or under load.
10. Using a damaged power cord may cause electric shock. Do not use a damaged power cord.
11. Keep cables away from high temperature surfaces.
12. All electrical machines of the machine should be kept dry and the machine should be stored in a dry place.
13. After cutting off the power supply, before the panel indicator light goes out, it means that there is still high voltage inside the inverter, which is very dangerous. Do not touch the uninsulated electrical machine parts.
14. Do not allow water to enter the machine motor or inverter.

(Xingyi will not provide warranty for any other damage or malfunction of the machine caused by water ingress)

15. The machine must use the cable 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.



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



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



Make sure all parts of the equipment are intact and all 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 it may cause personal injury.



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



This is the hook mark.



Please do not change the electrical circuit or software of the machine without authorization.



Attention: voltage: 380V 3PH

3. Machine

3.1. Overview

1560LE is used to treat all types of floors. It is used to grind (rough grinding, grinding, polishing) concrete, natural stone and terrazzo floors or materials specified in this manual or recommended by Xingyi. It can be used for a variety of purposes from rough grinding to fine polishing. This machine is intended for commercial applications, such as hotels, schools, hospitals, factories, offices and other places.

1560LE is equipped with radio control, which can realize remote control of the machine's movement at a certain distance. Only a few switches are needed to complete the setting changes and operations; through the digital display on the remote control machine, the operator can easily make adjustments and monitor system information, making user operation more convenient. The machine is equipped with a digital color inverter panel and the handheld remote control transmitter is equipped with a 3.5-inch digital color inverter panel.

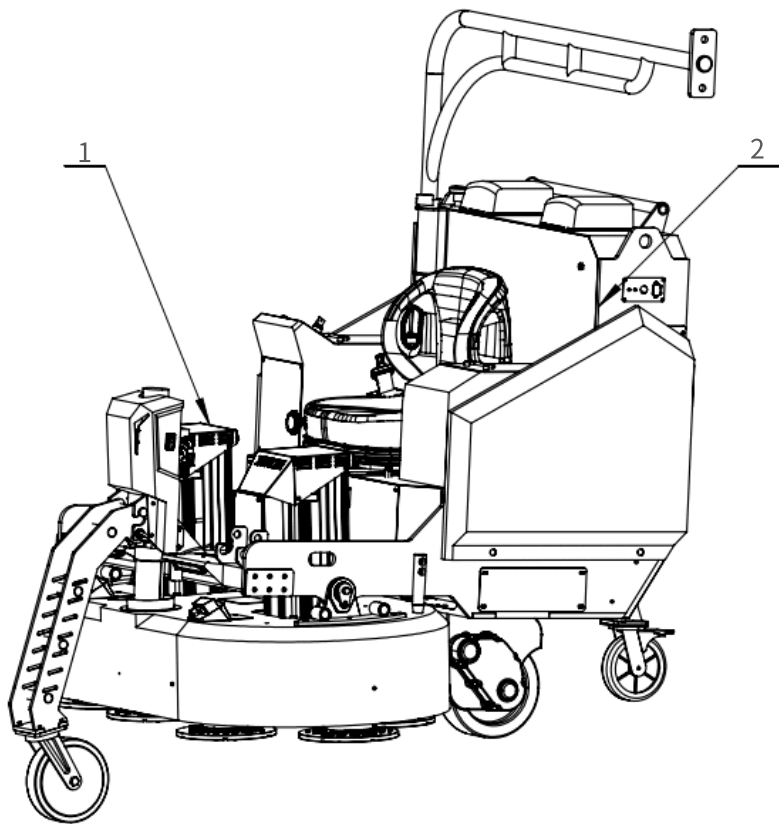
Equipped with a water tank, the machine can not only perform dry grinding, but also wet grinding. The grinding head of the machine can be matched with different grinding discs for grinding operations.

When dry grinding, it is recommended to ensure that a vacuum cleaner is connected to the grinder (it is best to equip it with a vacuum cleaner that matches Xingyi for better results). This is to prevent dust from being exposed to the air and posing a threat to the health of the operator, the business owner, and nearby people. 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 will be different depending on the different ground materials.

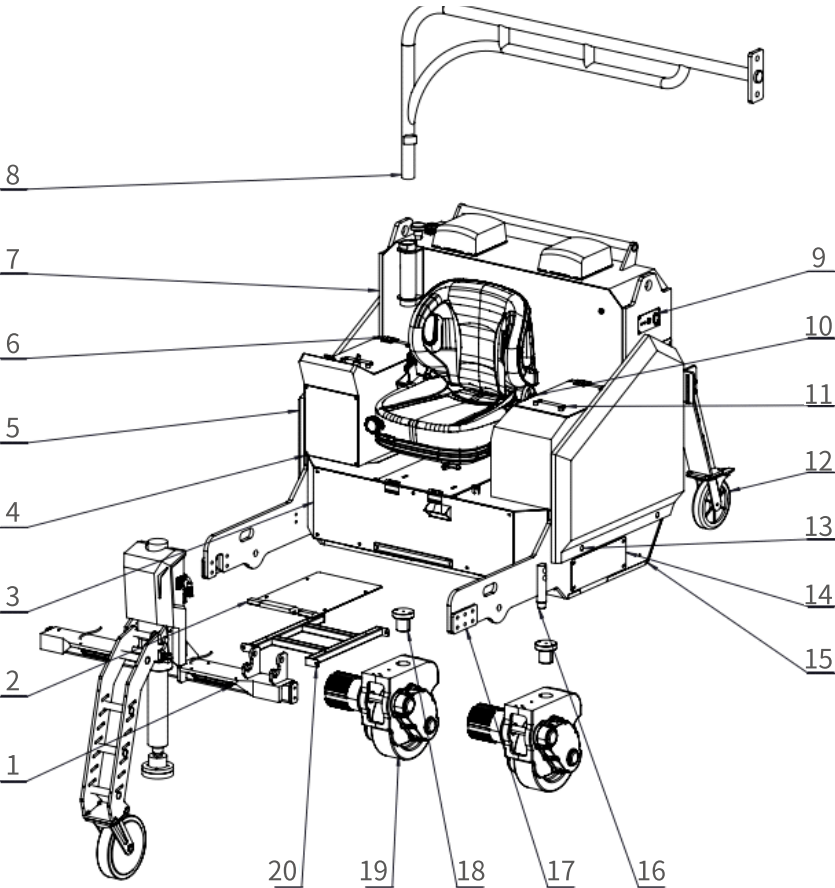
3.2 Parts Exploded Diagram

1. Grinder assembly

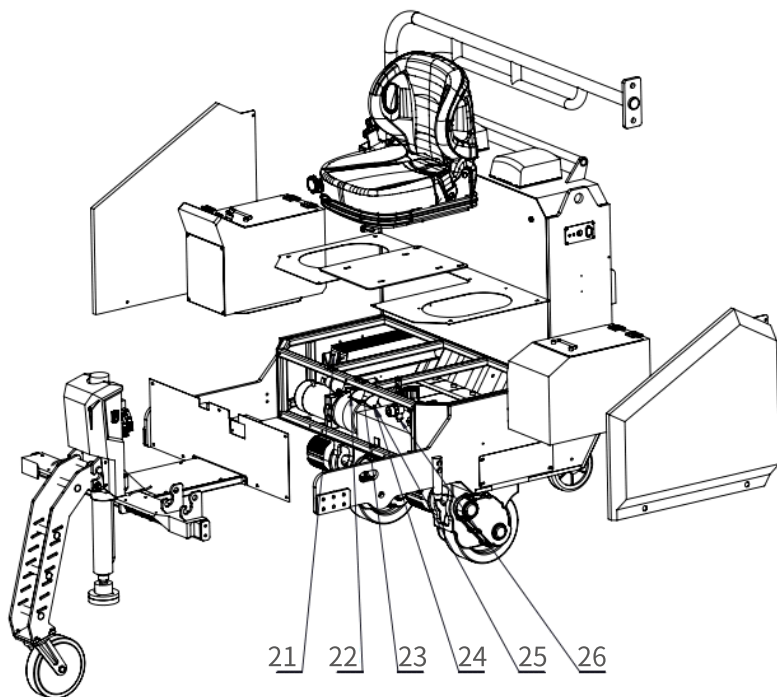


1560LE Grinder Assembly: 1.11.093.001			
SN	Code	Name	QTY
1	2.12.093.001	Gearbox Assembly	1
2	2.11.093.001	Machine Frame Assembly	1

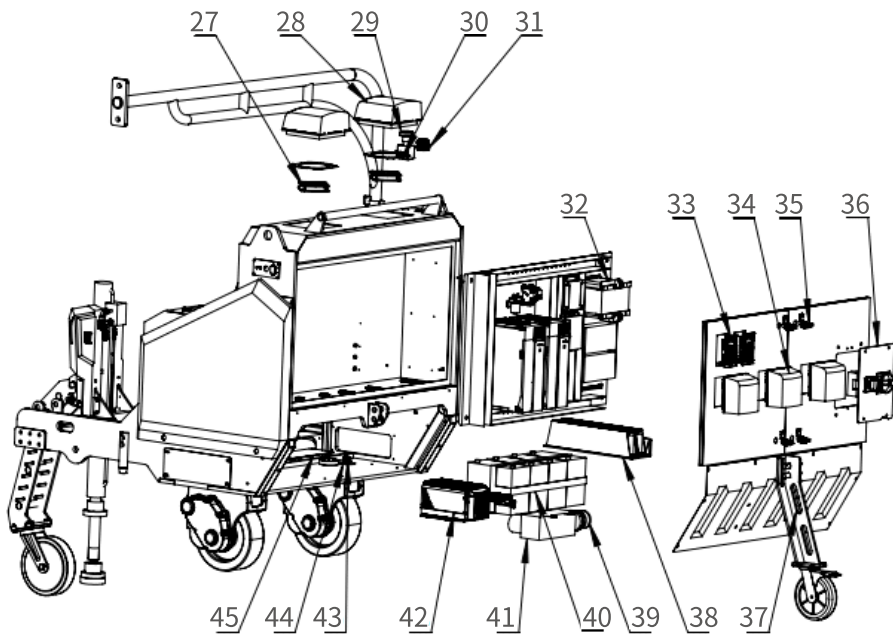
2.Machine frame assembly



Machine Frame Assembly: 2.11.093.001			
SN	Code	Name	QTY
1	2.41.093.006	Lifting Assembly	1
2	4.11.093.039	Metal Part	1
3	4.11.093.052	Sealing Plate	1
4	4.11.093.093	Support Plate	1
5	4.11.093.056	Metal Part	1
6	2.41.093.009	Toolbox Assembly	1
7	4.11.093.058	Frame Welding	1
8	4.11.093.071	Cable Supporting Handle	1
9	2.41.093.014	Left Adapter Board Assembly	1
10	3.22.201.029	Forklift Seat	1
11	2.41.093.003	Left Toolbox Assembly	1
12	2.41.093.002	Support Wheel Assembly	1
13	4.11.093.057	Metal Part	1
14	4.11.093.037	Cover Plate	2
15	4.11.093.009	Cushion	2
16	2.41.093.013	Limit Block	1
17	4.11.093.049	Fixed Plate	2
18	4.11.093.053	Fixed Pin	2
19	3.22.201.090	Electric Wheel Assembly	2
20	4.11.093.050	Pedal Plate	1



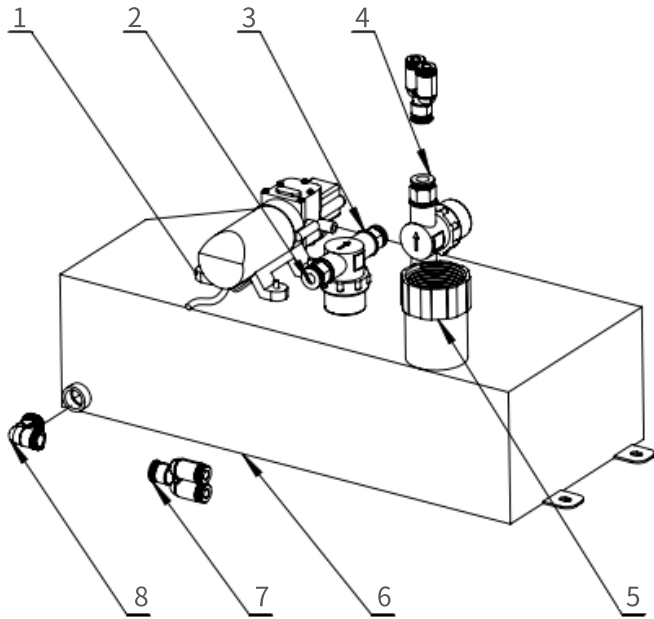
Machine Frame Assembly: 2.11.093.001			
SN	Code	Name	QTY
21	2.41.093.012	Resistor 2	1
22	2.41.093.011	Hydraulic Assembly	1
23	4.11.035.039	Spring	1
24	4.11.035.040	Water Inlet	1
25	4.11.035.038	Pin	1
26	2.41.093.010	Water Tank Assembly	1



Machine Frame Assembly: 2.11.093.001

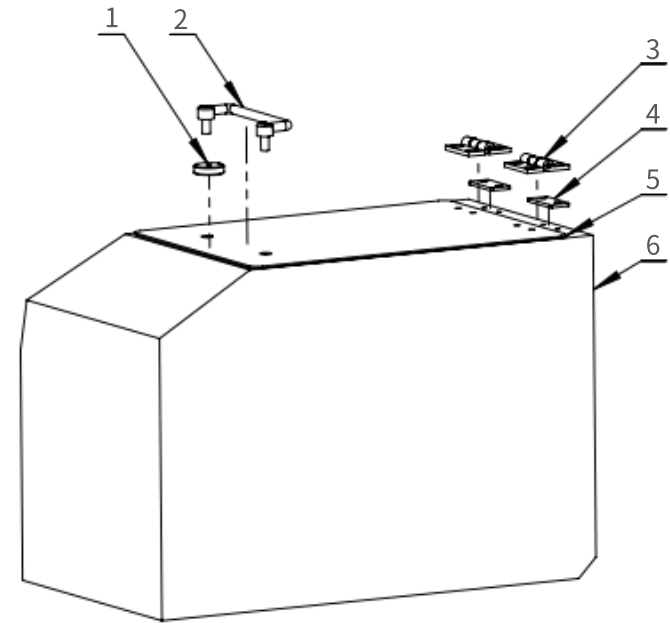
SN	Code	Name	QTY
27	3.21.115.008	Vent	2
28	3.21.115.021	Air Inlet Filter	2
29	3.21.114.048	Power Switch	1
30	4.11.031.224	Metal Part	2
31	5.11.110.014	Cable Gland	1
32	2.42.093.001	Electrical Assembly Installation	1
33	3.12.112.001	Inverter Panel	2
34	3.21.115.020	Air Inlet Filter	3
35	3.22.123.002	Cabinet Lock	4
36	2.41.093.017	Isolating Switch Plate	1
37	2.41.093.002	Supporting Wheel	1
38	2.41.093.012	Resistor	1
39	3.22.126.016	Hose Front Connector	1
40	2.41.093.007	Battery	1
41	4.11.093.010	Tee	1
42	3.21.121.017	Charger	1
43	5.11.110.027	Cable Gland	2
44	4.11.093.061	Plate	2
45	4.11.093.091	Bottom Plate	1

3. Water tank assembly



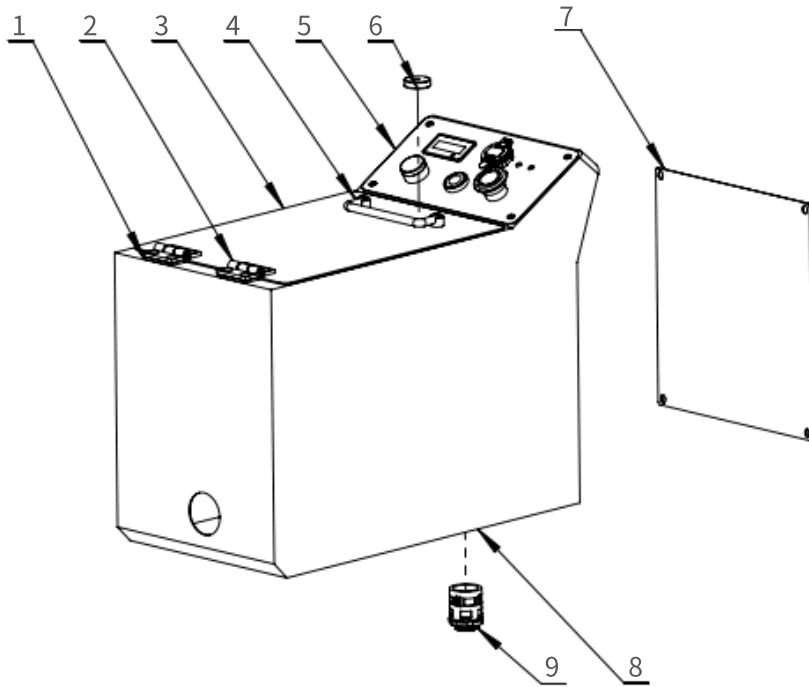
Water Tank Assembly: 2.41.093.010			
SN	Code	Name	QTY
1	3.11.151.001	Pump	1
2	3.22.125.019	Pneumatic Connector	2
3	3.22.201.005	Filter	2
4	3.22.125.031	Pneumatic Connector	1
5	3.22.126.004	Pneumatic Connector	1
6	4.11.093.029	Water Tank	1
7	3.22.125.004	Pneumatic Connector	2
8	3.22.125.010	Pneumatic Connector	1

4. Left toolbox assembly



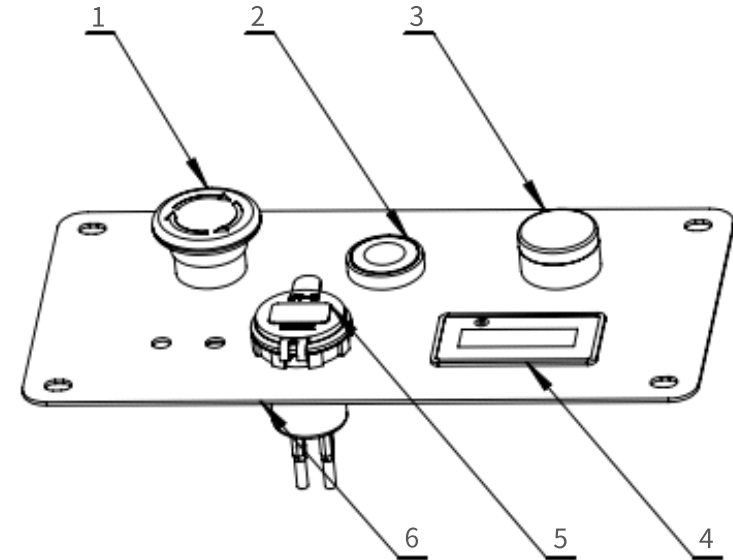
Left Toolbox Assembly: 2.41.093.003			
SN	Code	Name	QTY
1	3.22.114.001	Magnet	1
2	3.22.127.007	Handle	1
3	3.22.201.004	Hinge	2
4	4.12.008.110	Hinge Gasket	2
5	4.11.093.073	Toolbox Cover	1
6	4.11.093.040	Left Toolbox Welding	1

5. Right Toolbox assembly



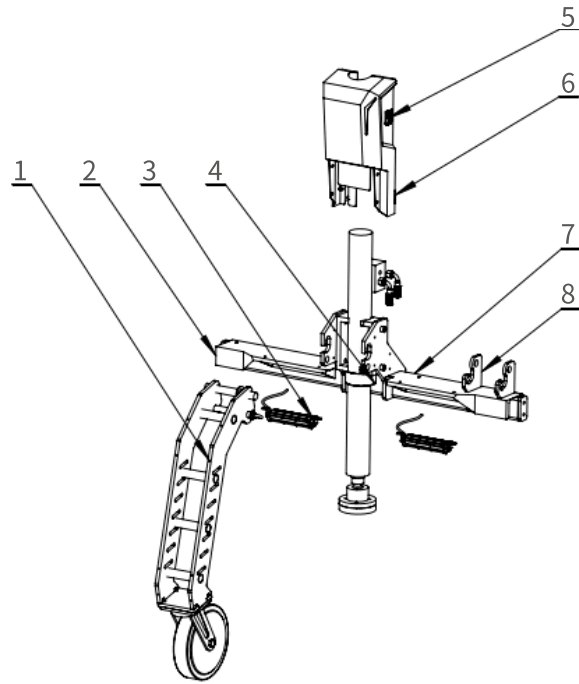
1560LE Toolbox Assembly: 2.41.093.009			
SN	Code	Name	QTY
1	4.12.008.110	Hinge Gasket	2
2	3.22.201.004	Hinge	2
3	4.11.093.073	Toolbox Cover	1
4	3.22.127.007	Handle	1
5	2.41.093.008	Panel Assembly	1
6	3.22.114.001	Magnet	1
7	4.11.093.074	Cover Plate	1
8	4.11.093.048	Right Toolbox Welding	1
9	5.11.110.008	Cable Gland	1

6. Panel assembly



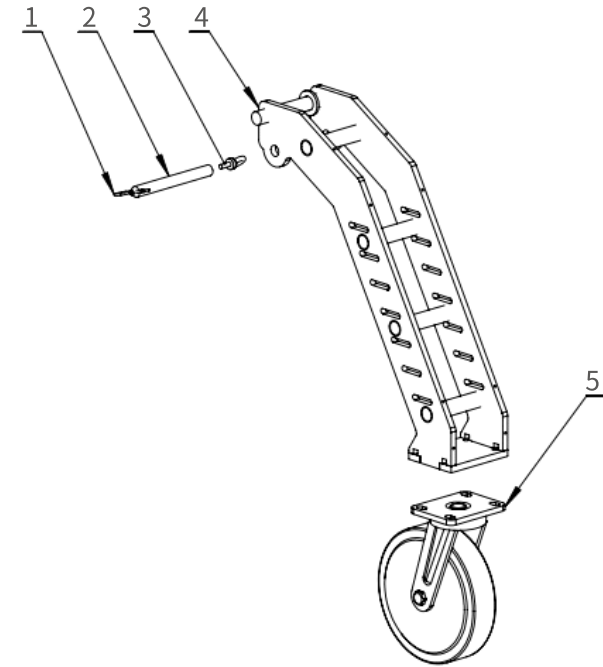
Panel Assembly: 2.41.093.008			
SN	Code	Name	QTY
1	3.21.114.046	Emergency Stop Switch	1
2	3.21.114.101	Start Switch	1
3	3.21.116.002	Green Indicator Light	1
4	3.21.124.001	Battery Monitor	1
5	3.21.118.002	Phone Charger	1
6	4.11.093.078	Panel	1

7. Lifting rod assembly



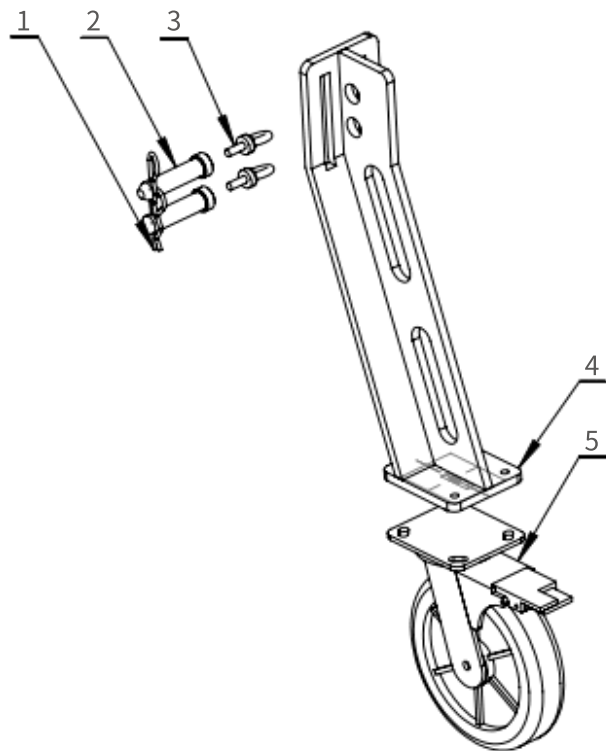
1560LE Lifting Rod Assembly: 2.41.093.006			
SN	Code	Name	QTY
1	2.41.093.004	Guide Wheel Assembly 1	1
2	4.11.093.041	Right Light Bracket	1
3	3.21.116.007	LED light	2
4	4.11.093.046	Hydraulic Cylinder Assembly	1
5	3.21.114.050	Rocker Switch	2
6	4.11.093.046	Decorative Box	1
7	4.11.093.042	Left Light Bracket	1
8	4.11.093.047	Connection Base	1

8. Guide wheel assembly 1



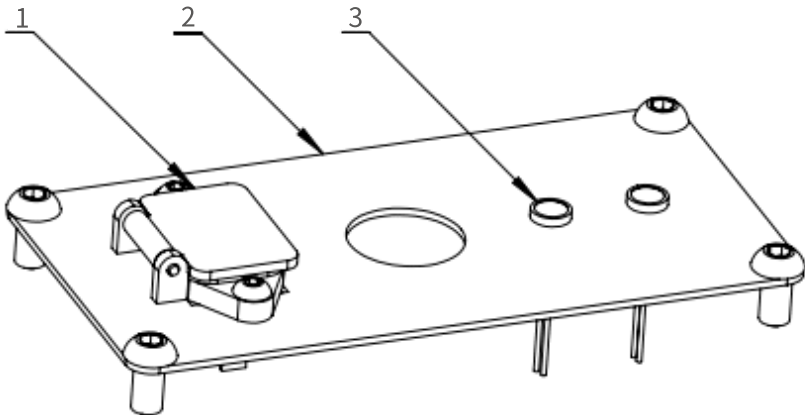
Front Guide Wheel Assembly 1: 2.41.093.004			
SN	Code	Name	QTY
1	3.22.121.004	R-pin	1
2	4.11.093.044	Dowel Pin 2	1
3	5.11.161.001	Bolt	1
4	4.11.093.045	Support Bracket	1
5	3.22.111.076	Caster	1

9. Support wheel assembly



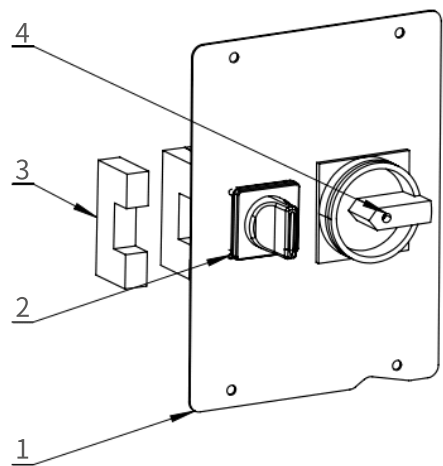
1560LE Support Wheel Assembly: 2.41.093.002			
SN	Code	Name	QTY
1	3.22.121.004	R Pin	2
2	4.11.093.079	Fixing Pin 1	2
3	5.11.161.001	Bolt	2
4	4.11.093.070	Bracket 1	1
5	3.22.111.035	Wheel	1

10. Left adapter board assembly



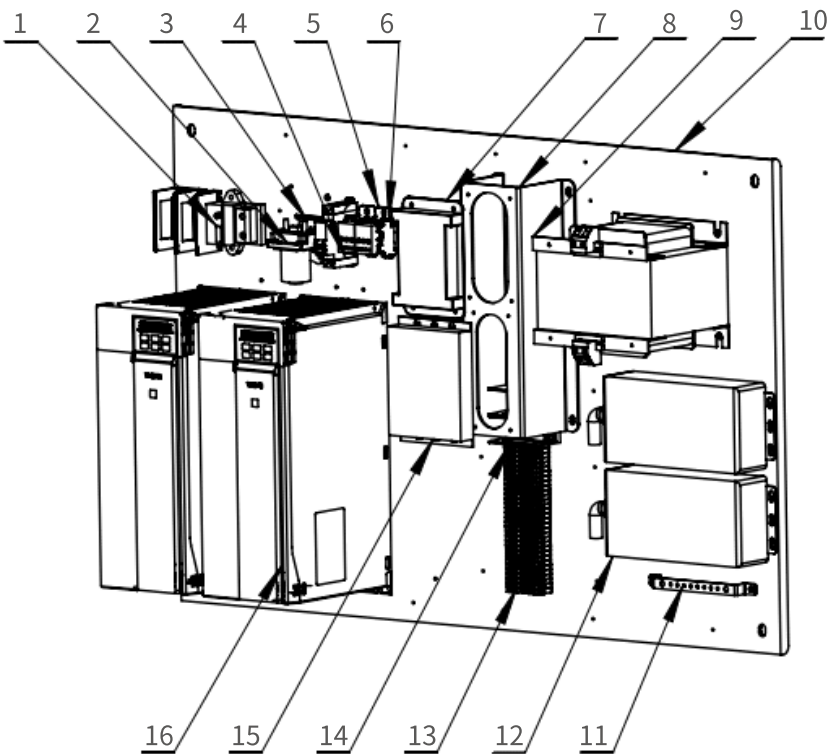
1560LE Left Adapter Board Assembly: 2.41.093.014			
SN	Code	Name	QTY
1	3.21.118.001	Charging Port	1
2	4.11.093.096	Left Adapter Board	1
3	3.21.116.003	Red Indicator Light	2

11. Isolating switch panel assembly



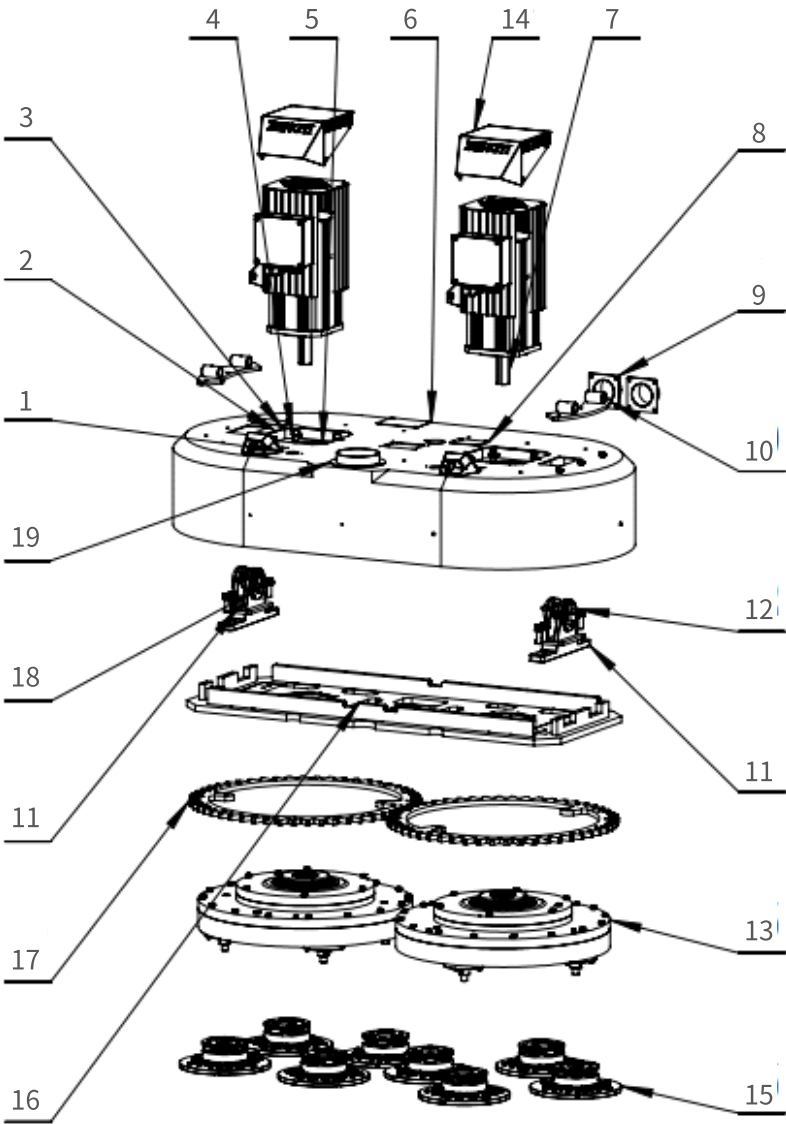
Isolating Switch Panel Assembly: 2.41.093.017			
SN	Code	Name	QTY
1	4.11.031.259	Cover Plate	1
2	3.21.114.148	Isolating Switch Handle	1
3	3.21.114.150	Isolating Switch Base	1
4	3.21.114.115	Isolating Switch	1

12. Electrical assembly



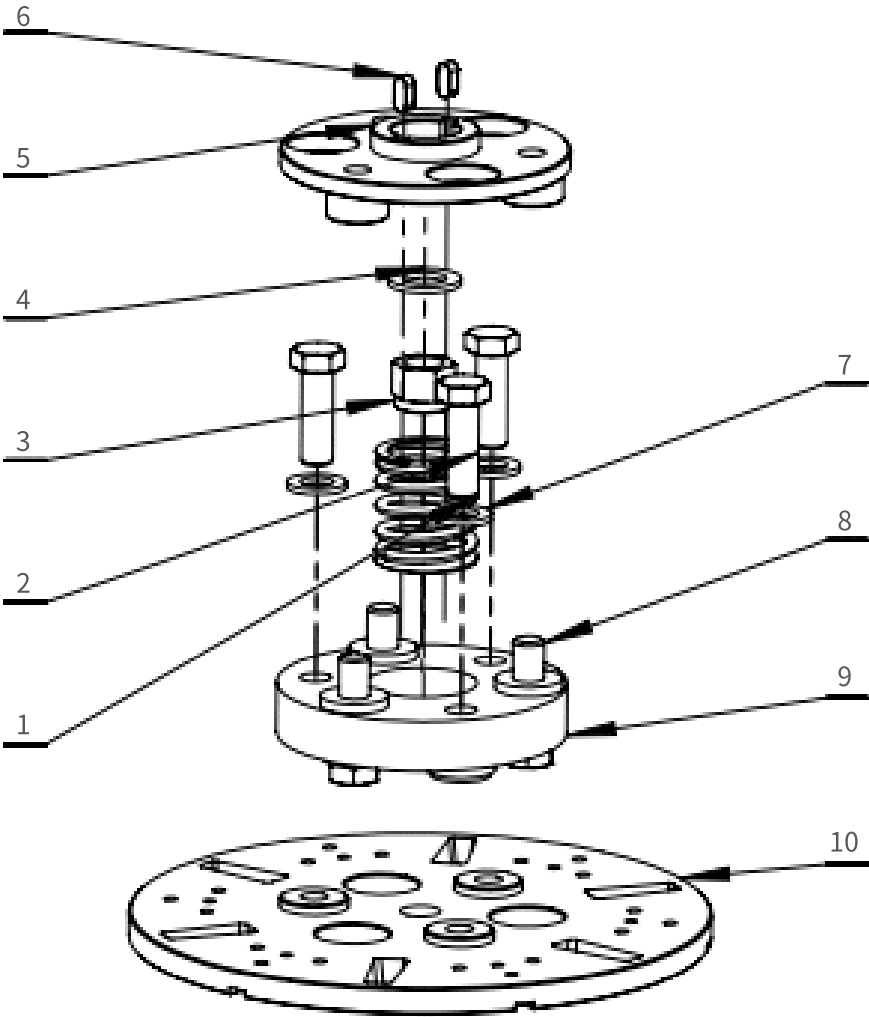
Electrical Assembly: 2.42.093.001			
SN	Code	Name	QTY
1	3.21.122.031	Circuit Breaker	1
2	3.21.122.008	DC Contact Normally Open	1
3	3.23.116.001	Din Rail	2
4	3.21.114.042	Circuit Breaker	1
5	3.22.201.015	Junction Box	2
6	3.21.123.001	Terminal Fixings	2
7	3.12.115.027	Remote Control	1
8	4.11.093.054	Fixed Bracket	1
9	3.12.162.008	Transformer	1
10	4.11.093.055	Mounting Plate	1
11	3.21.129.002	Grounding Busbar	1
12	3.12.114.025	Travel Controller	2
13	2.42.014.001	Terminal Block	1
14	3.21.123.033	Terminal	4
15	3.21.201.082	Can I/o Device	1
16	3.12.111.083	Inverter	2

13. Gearbox assembly



Gearbox Assembly: 2.12.093.001			
SN	Code	Name	QTY
1	2.12.091.003	Spray Nozzle	2
2	4.11.093.034	Gearbox Cover	1
3	3.22.163.141	Oil Cover	2
4	5.11.109.060	Tab Washer	8
5	4.11.093.076	Flange	2
6	4.11.093.062	Cover Plate 01	1
7	3.11.111.119	Motor	2
8	4.11.093.063	Cover Plate 02	3
9	4.11.071.101	Hose	2
10	4.11.093.085	Connection Base	2
11	4.11.093.033	Connection Part 2	2
12	4.11.093.015	Pin Shaft 2	2
13	3.13.112.032	Gearbox	2
14	4.11.093.030	Motor Decoration	2
15	2.41.093.001	Grinding Disc Assembly	8
16	4.11.093.035	Connection Plate	1
17	4.11.031.023	Large Gear	2
18	4.11.093.025	Steel Sleeve	4
19	4.11.093.083	Flange	1

14. Grinding disc assembly

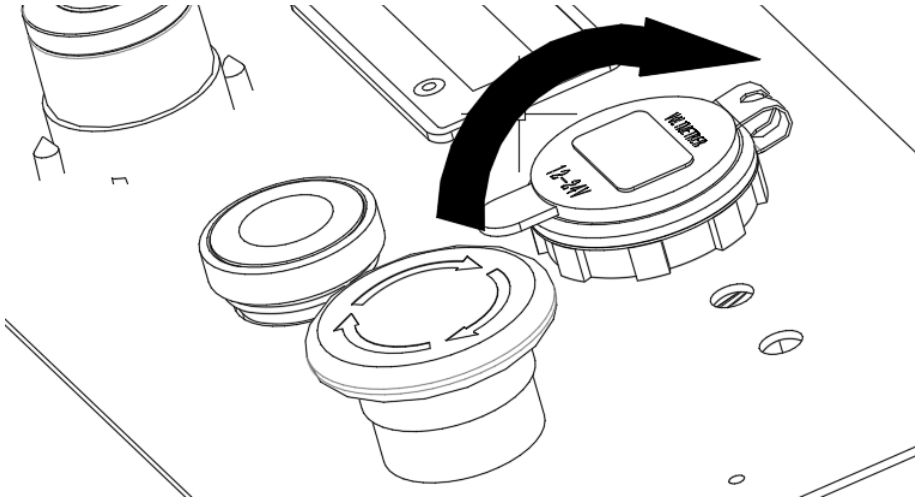


Grinding Disc Assembly: 2.41.093.032			
SN	Code	Name	QTY
1	3.22.120.002	Spring	1
2	5.11.101.053	Bolt	3
3	5.11.106.012	Nut	1
4	5.11.109.022	Flat Washer	1
5	3.22.116.001	Nut	1
6	3.22.118.001	Key Way	2
7	5.11.109.012	Flat Washer	9
8	92.51.31.021	Nut	3
9	3.22.120.002	Rubber Pad	1
10	5.11.101.053	Grinding Disc	1

3.3 Control Panel assembly

3.3.1 phone charger

Display screen on the control panel allows users to understand the current time. By flipping up the display screen, we can see the phone charger, which is convenient for users to charge mobile phones and other machines.

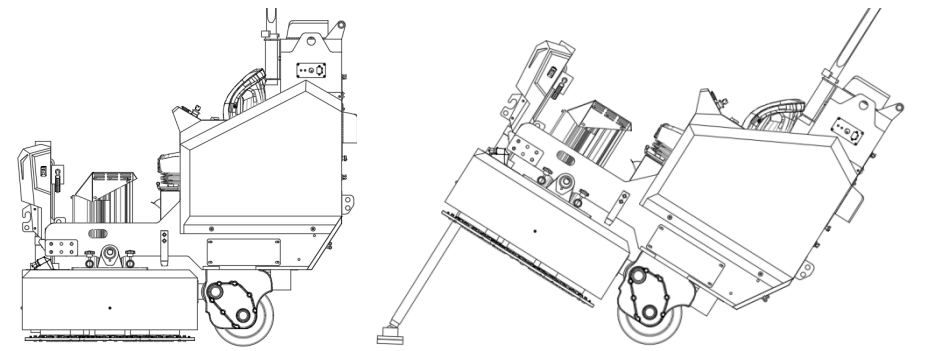


⚠ Attention:

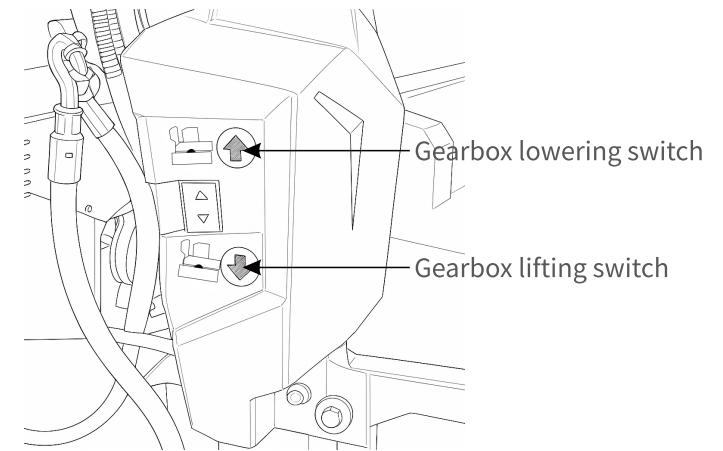
When not charging, be sure to close the cover and do not leave the USB exposed to prevent dust from getting in and clogging or damaging the phone charger.

3.3.2 Gearbox lifting adjustment

The gearbox lifting adjustment machine controls the different heights of the gearbox by the lifting height of the hydro-cylinder to adapt to the conversion of the equipment placement mode in different states (the different equipment states are as follows). When the gearbox needs to be lifted to the tilt position, press the down key of the hydro-cylinder control on the remote control, and when it is lifted to the tilt position, release the switch. When the gearbox needs to be lowered to the working position, press the upper key of the hydro-cylinder control on the remote control, and when it is lowered to the working position, release the switch.

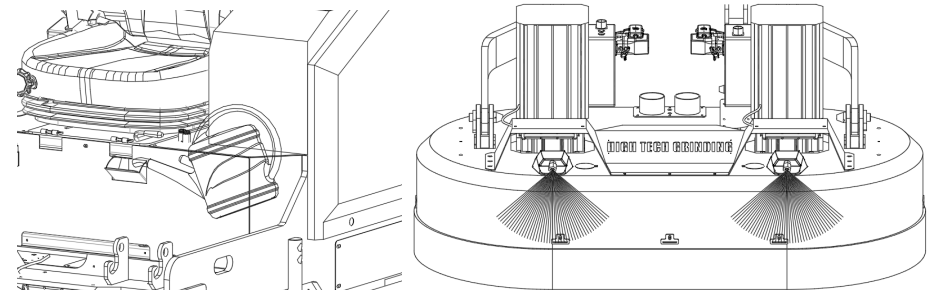


① Working position ② Tilt position



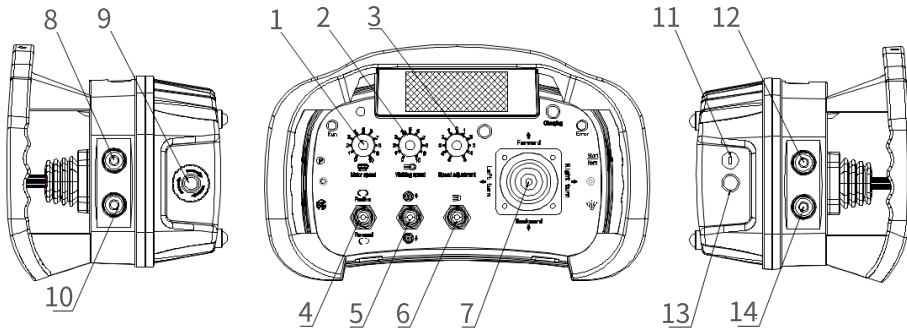
3.3.3 Water tank

There is a water inlet on the side of the water tank (open the water inlet as shown in the figure below) to fill the water tank with water. After confirming the water level in the water tank is safe, press the spray switch, and the two spray nozzles will work, spraying a large amount of water mist, and then wet grinding can be carried out.



3.4 Remote Control - Control Panel

3.4.1 control panel



1. Grinding speed regulator: controls the speed of the grinding disc drive motor.

2. Travel speed regulator: controls the speed of the equipment.

3. Route correction switch: Ensures that the equipment performs straight-line grinding. When the equipment 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 equipment to deviate to the left (right) and maintain a straight-line walking route.

4. Three-position selector switch: This switch has three gears: pushing forward controls the motor to rotate forward, the middle gear stops the motor from rotating, and pushing backward controls the motor to rotate reversely.

5. Cylinder lift/lower switch: controls the lifting and lowering of the hydraulic rod to play a tilting role.

6. LED light switch: Used to control the switch of the LED light on the grinder.

7. Joystick: Control the machine to move forward, backward, turn left, and turn right.

① tap and hold the joystick forward ,the equipment will move forward

② tap and hold the joystick backward, the equipment will move backwards .

③ tap and hold to the right, the equipment will move to the right

④ tap and hold to the left, the equipment will move to the left

⑤ After the machine completes the turn, the joystick resets and the machine moves according to command set in the previous step.

⑥The travel speed is: 0-20m/min.

8. Remote panel switch

9. Emergency stop switch: rotate up to start the grinder,push down to stop.

10. Spray switch

11. Charging port

12. Brake switch:press the it to stop the wheel

13. Remote start switch:press it to start the remote control

14. Grinding disc rotating switch:press it to rotate the grinding disc default clockwise rotation(The machine must be connected to a power supply)

3.4.2 Remote control Instructions



1.grinding Motor current

4. Total working time

2. travel motor current

5. Travel speed

3. grinding motor speed

6. Voltage

Hardware diagnostics			
front and rear 1	0	left and right 2	0
Motor speed	0	travel speed	39
Walking Calibration 3	47	Wireless ID	5707
emergency stop 4	0	Headlights/water jets 5	0
forward and backward 6	0	brake 7	0
Mill up/down 8	0	Forward/reverse material change 9	0
Horn pads up/down 10	0	Horn Pad Lift Enable	0
Horn pads up/down	0	Horn Pad Origin	0

1 and 2, normal range is from -100 to 100, 0 is the origin of the joystick for forward/backward and left/right, -100 and 100 is the limit position of the joystick.

3. travel deviation correction function: Normally it is 50.

4. The value becomes 1 after pressing emergency stop switch.

5. The headlight activation value changes to 1, and the water spray activation value changes to 2.

6. The value for forward rotation of the motor is 1, and the value for reverse rotation of the motor is 2.

7. The value becomes 1 after braking.

8. The value becomes 1 after raising discs, and becomes 2 after lowering discs.

9. The value becomes 1 if the disc rotates forward, and becomes 2 if disc rotates backward

10. The value of the horn pad when it rises is 1, and the value when it falls is 2.

Left Grinding Inverter Info	
Inverter current (A) 1	0.0
Inverter voltage (V) 2	0.0
Inverter temperature (°C) 3	0.0
Inverter speed (RPM) 4	0
Inverter Fault Codes 5	0
Inverter Failure Information	

1. Inverter Current: Displays the current.

2. Inverter voltage: Displays voltage

3. Inverter Temperature: Display inverter temperature

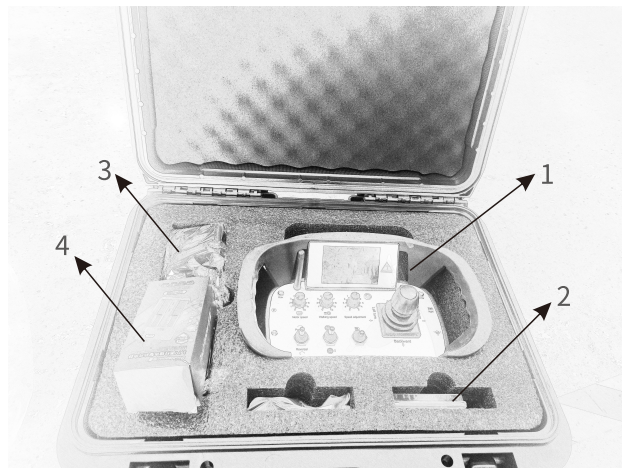
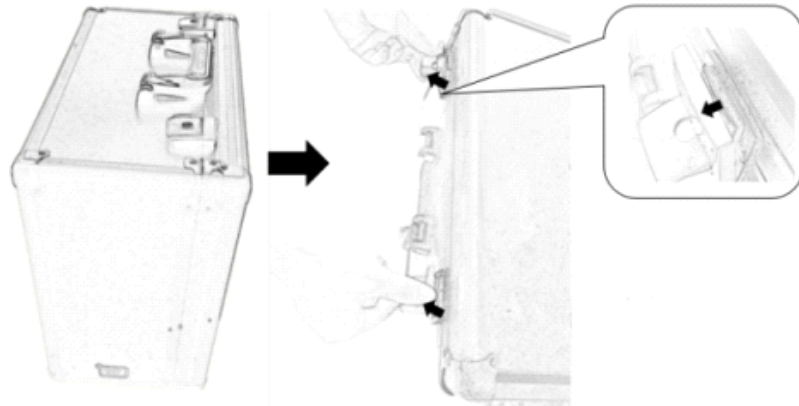
4. Inverter speed: Displays grinding speed.

5. Inverter Fault Codes: Specific codes displayed when the inverter detects an abnormal situation during operation.

3.5 Remote control box

3.5.1 Overview

Lay the remote control machine flat, open the box, and use your hands to hold the lid in place before taking anything out. The remote control box contains:



1. Remote control 2. 18650 Battery 3. belt 4. Charger

Attention:

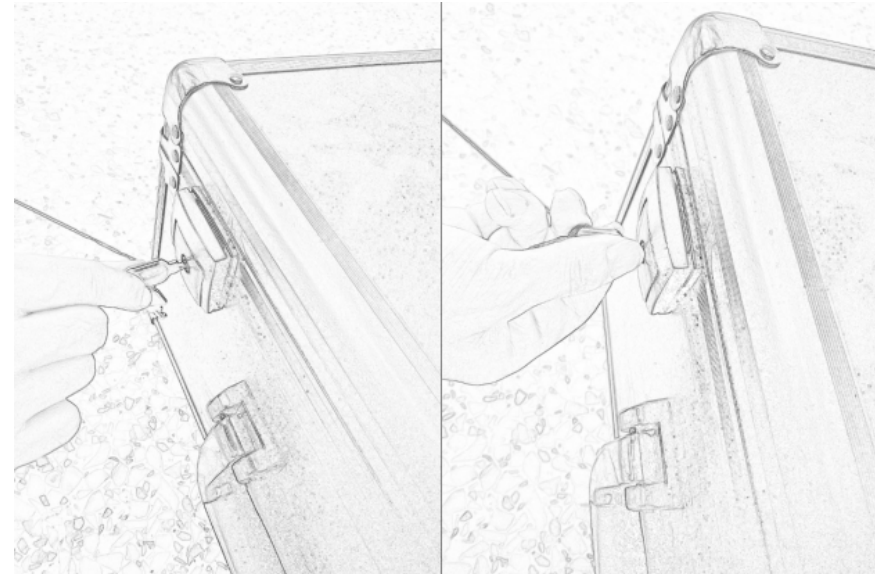
When opening the remote control machine box, be sure to put the cover of the remote control machine box firmly before taking or placing the stuff.

Remember to wear protective gloves, insulating shoes and other protective tools during the operation.

3.5.2 Remote control cabinet locking

For the safety of your property and transportation, the remote control box is equipped with a locking machine. The key is at the bottom of the box where the remote control is placed. Please be sure to check it carefully when receiving the goods.

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



3.5.3 Use of remote control

Installation of remote control batteries: 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.

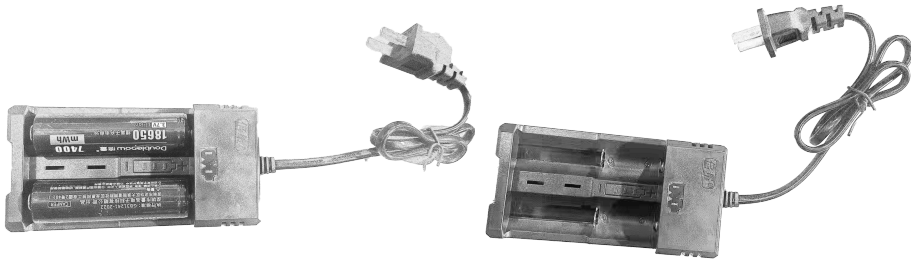
Remote control position: The remote control should be placed in a safe and conspicuous place to avoid it from falling and being damaged.

To turn on the remote control: Put a fully charged OHM battery pack into the battery box, unplug 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 light goes out and the remote control turns off.

Power indicator light: If the green light flashes once per second, the remote control is working properly. If the red light flashes once per second and a buzzer sounds, the remote control battery voltage is low. If the red and green lights flash alternately, the smart key is not recognized. If the red and green lights are always on, the high-frequency module is not recognized.

3.5.4 Use of remote control battery charger



place the 18650 battery into the charger, then connect the charger to the power source for charging. You can charge a single battery or two simultaneously.

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

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

The battery is over-discharged and the charger is in trickle charging state. After a short period of trickle charging, the indicator light turns to red constant light and enters the normal charging state.

The rechargeable battery is faulty and needs to be replaced.

When charging is complete, the indicator light changes from red constant light to green constant light.

Attention:

Be sure to confirm the charger voltage.

Make sure the 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 sections mainly describe the different positions of the grinder when switching the mode to manual operation, the main operations of the grinder and how to install the abrasives.

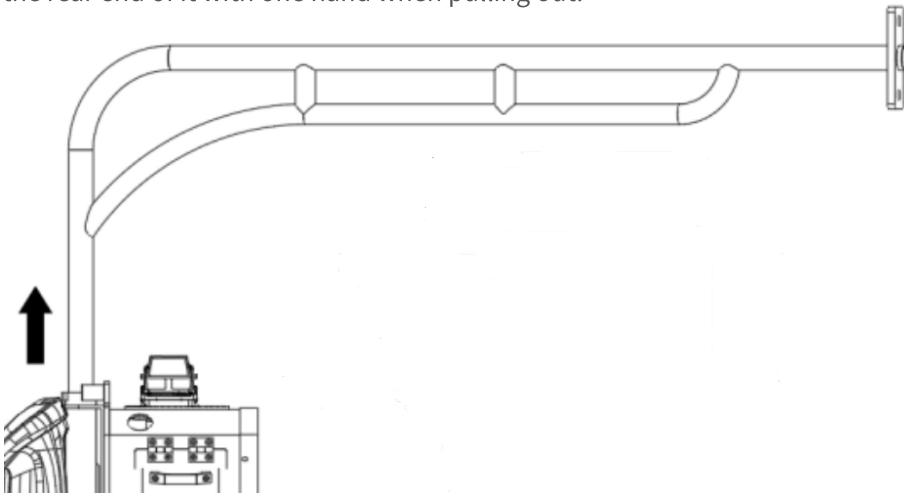
⚠ Attention:

1. The grinder may only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.
2. Protective equipment must be used when operating the grinder, such as protective gloves, protective masks, work clothes, safety helmets, insulating shoes, etc.

4.2 Quick disassembly of cable support rod

When the cable support rod is quickly disassembled, the cable support rod only needs to be directly pulled upwards out of the support handle fixing rod on the frame.

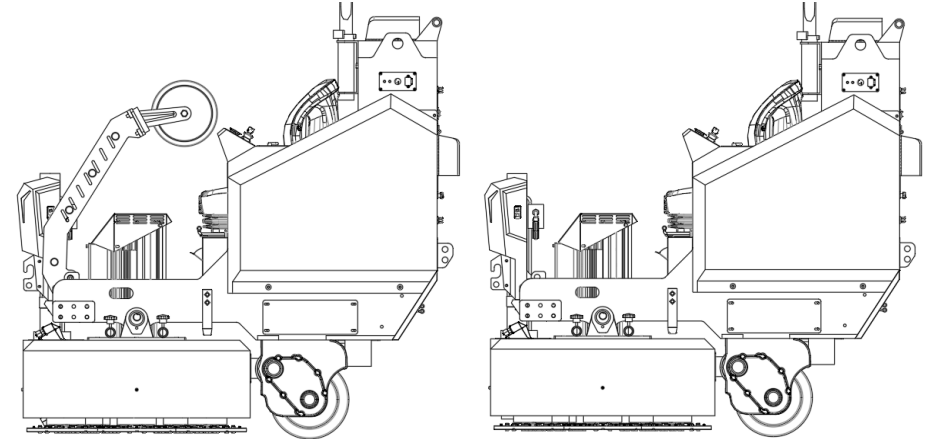
⚠ Attention: Because the cable support rod is long, it is necessary to hold the rear end of it with one hand when pulling out.



4.3 Equipment position description

4.3.1 Equipment working position

When the grinder is working, the hydro-cylinder needs to be retracted to lower the gearbox to the working position. The support wheel is turned over and hung on the frame or removed.

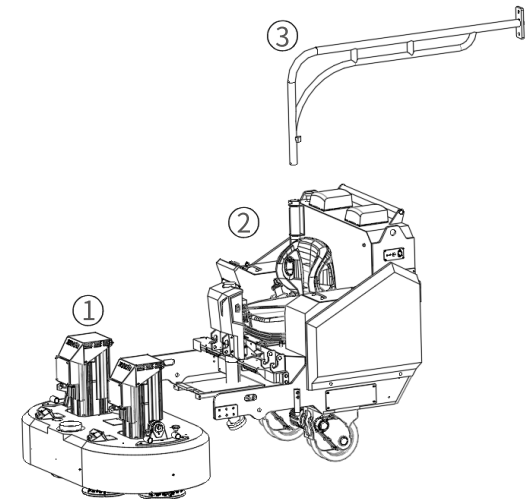


4.3.2 Equipment packaging and transportation position

During the transportation of the equipment, if the entire machine is inconvenient to transport, the entire machine can be quickly disassembled.

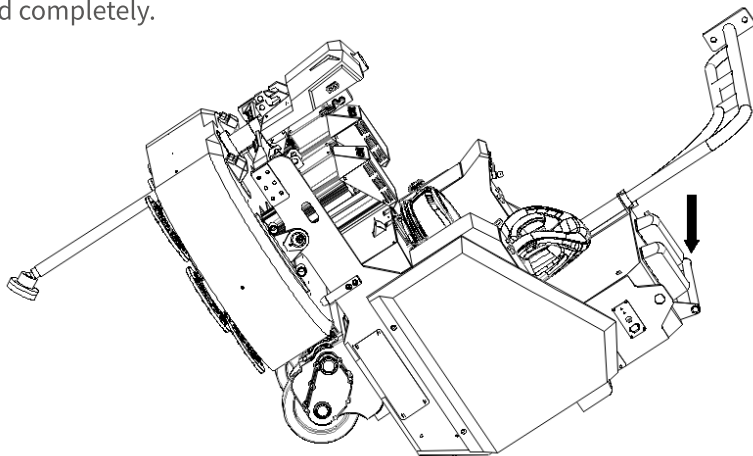
The whole machine can be disassembled into three parts: the gearbox assembly (See P31), the machine frame assembly (See P13), and the cable support rod.

- ① Gearbox assembly
- ② Machine frame assembly
- ③ Cable support rod

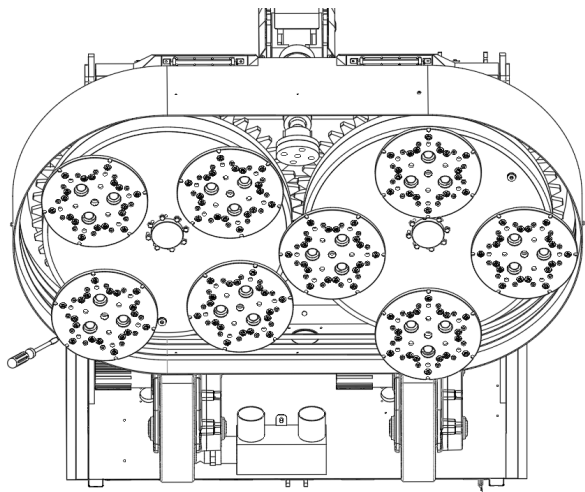


4.4 Replace the abrasive

Before the machine falls to the ground, make sure the cable support rod is in the position shown in the figure. When lifting the gearbox to the tilt position, press the rocker switch on the hydro-cylinder or the cylinder lift/lower switch on the remote control. When it is lifted to the tilt position, press down the handrail at the rear of the machine to ensure that the machine falls to the ground completely.



When replacing the abrasive, make sure the equipment is completely stopped, press the emergency stop switch, and adjust the gearbox angle to the tilt position. Stand next to the equipment, check whether the equipment is stable, use a screwdriver to replace the abrasive, and replace it with a new one.



⚠ Attention:

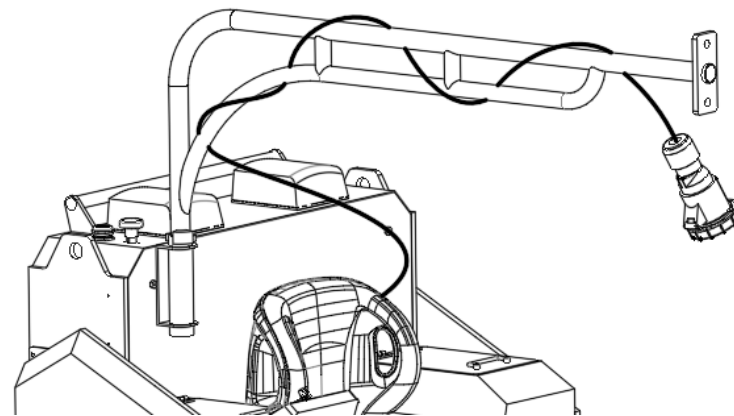
After running for a period of time, the abrasive, grinding disc and gearbox will generate high temperature. Please be careful when changing the abrasive to avoid burns.

Make sure to unplug the power supply and press the emergency stop switch before replacing the abrasive.

4.5 The winding method of cable

The winding method of cable is particularly important during the operation of the equipment, which can greatly improve your work efficiency and safety. The specific operation methods are as follows:

1. Pass the cable through the cable support rod.
2. Wrap the cable around the cable support rod at least twice.
3. Pull the cable slightly to ensure that there is enough friction to firmly fix the cable on the handle.
4. Plug in the external power supply.

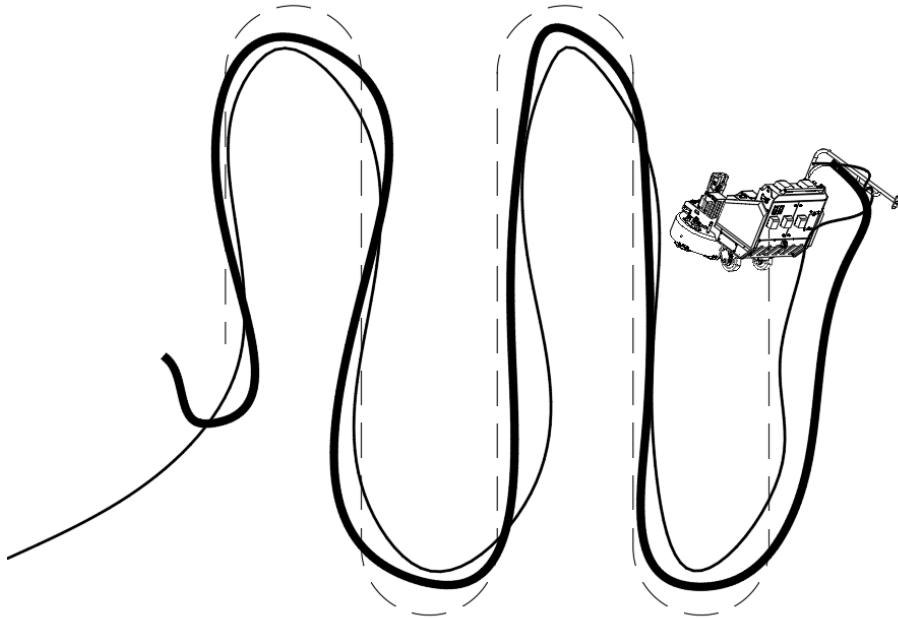


⚠ Attention:

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 cable according to the minimum specifications of (See P61).
4. Please use the correct power supply.

4.6 Optimal grinding route

When grinding the floor, you should grind it in the shape of a # to achieve a better grinding effect. When grinding the floor in the shape of a #, the grinding direction of the grinder should be such that the cable is pulled farther and farther away, so as to further prevent the cable from interfering with the normal operation of the grinder.



5. Equipment operation

5.1 Overview

The following sections describe the different positions of the grinder when controlled with the remote control, the main operations of the grinder and how to install the abrasive.

⚠ Attention:

1. The grinder may only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.
2. Protective equipment must be used when operating the grinder, such as protective gloves, protective masks, work clothes, safety helmets, insulating shoes, etc.

5.2 Equipment position description

The machine position description is the same as the vehicle operation, which can be seen in detail. The only difference is that when the machine is grinding, the position of the machine can be adjusted by pressing the emergency stop switch and the power switch on the remote control panel.

⚠ Attention:

1. When the equipment is moving, the vision may be obstructed, so make sure "one person, one machine"
2. During the grinding process, inhaling dust is harmful. Please wear a professional mask during operation to ensure personal safety.
3. When tilting and lowering the gearbox, you must pay special attention to your own safety and avoid damaging the equipment.

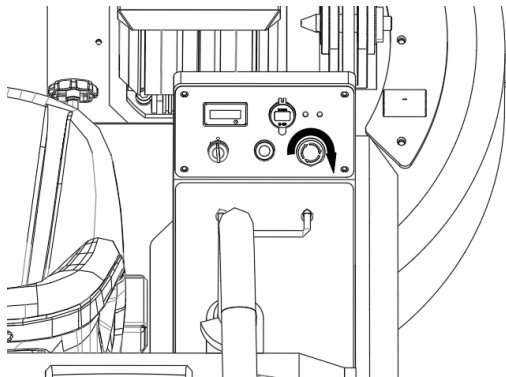
5.3 Start and stop the grinder

(1) Plug in the cable (before doing this, make sure the emergency stop switch is pressed and all switches have been reset); if it is dry grinding, turn on the vacuum cleaner; if it is wet grinding, fill the water tank with water (See P35).

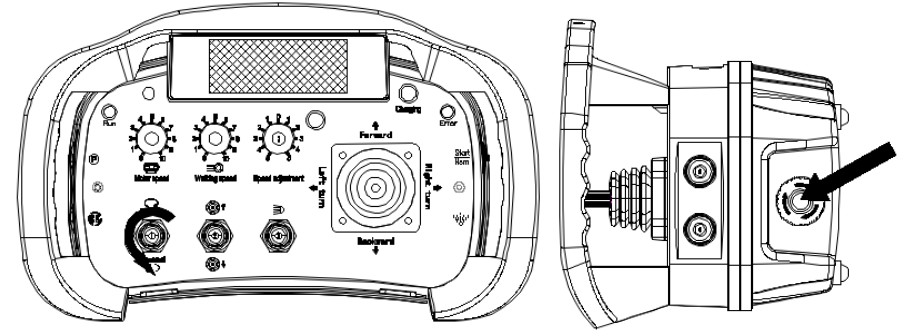
(2) Take out the remote control box and tie the remote control around your waist.



(3) When starting, the emergency stop switch on the panel is turned on in the direction of rotation, and the manual/remote control mode on the panel switches to the remote control state. To operate the remote control: rotate up the emergency stop switch, turn the power switch knob to 1# power, and then turn on the equipment (if wet grinding is performed, press the spray switch on the remote control). Use the direction control handle to control the direction of the equipment. (For detailed instructions on the switches on the remote control, See P37)



Stop the grinder: Stop the motor, reset all switches (if wet grinding is performed, you also need to press the spray switch to turn off the spray function), press the emergency stop switch, turn off the power, and stop the equipment. (Remember to reset the three-position selector switch of the motor)



⚠ Attention:

1. When stopping the equipment, it is recommended to unplug the power supply for safety reasons.
2. The emergency stop switch can only be rotated and pressed down according to the rotation direction on it, and cannot be pulled up.
3. When turning on the machine, be sure to reset all switches on the remote controller to ensure normal use of the machine. Otherwise, the machine will not operate even if the power switch is turned on.
4. When using a remote control machine, the remote control cannot leave the normal operating range of the equipment. 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. Turn on the transmitter and check if the power light flashes slowly. If not, adjust the transmitter.
6. The grinding disc drive motor must be started before the direction joystick can be moved.
7. When the equipment needs to stop working or in an emergency, press the emergency stop switch on the transmitter.

5.4 Replacement of abrasive

The steps for replacing the abrasive of the equipment are roughly the same as manual operation, please see P58.

⚠ Attention:

1. Before replacing the abrasive, be sure to press the emergency stop switch on the remote control and turn off the power switch.
2. During the grinding process, inhaling dust is harmful. Please wear a professional mask during operation to ensure personal safety.
3. When tilting and lowering the gearbox, you must pay special attention to your own safety and ensure that the equipment does not tilt forward before replacing the abrasive.
4. Before operating the equipment, remember to wear a protective mask, work clothes, insulating shoes, protective gloves, etc.
5. When the equipment runs for a period of time, the abrasive, grinding disc and gearbox will generate high temperature. Please be careful when changing the abrasive to avoid burns.

5.5 Attention

During the grinding process, you must pay attention to the battery indicator light 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.

During the grinding process, be sure to always pay attention to the signal status reflected by the signal indicator light on the remote control.

When grinding, just flick the direction control switch of the remote control.

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

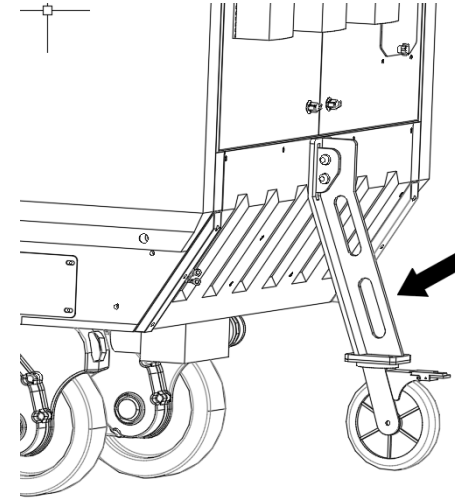
During the grinding process, be sure to pay attention to nearby obstacles to avoid equipment damage and personal injury.

Before grinding, reset the clutch pin. If it is not reset properly, the equipment will not move.

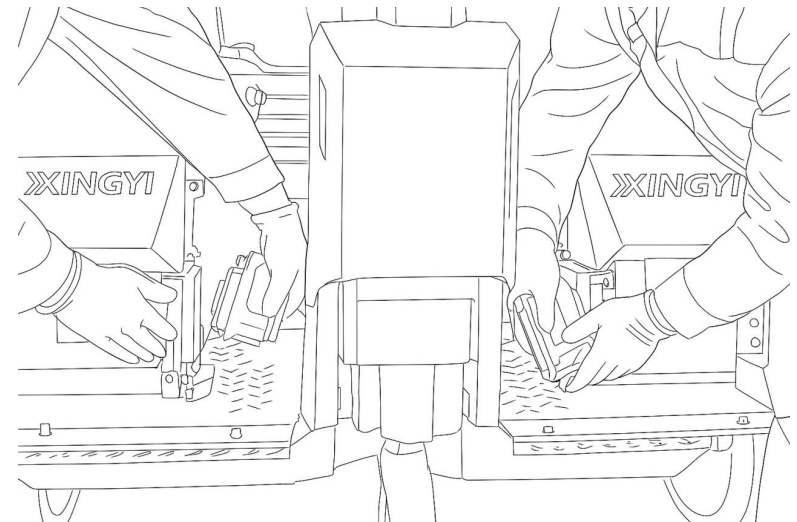
When going downhill, it is forbidden to press the emergency stop switch on the machine and the battery power must be greater than 50%.

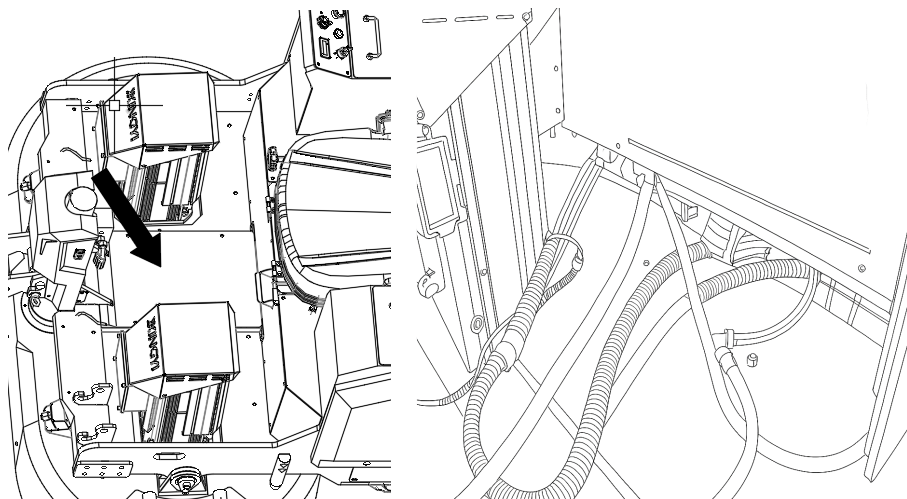
5.6 Disassemble the gearbox assembly

- (1) Install the support wheel assembly as shown in the figure to prevent the machine frame from falling backwards and causing danger.

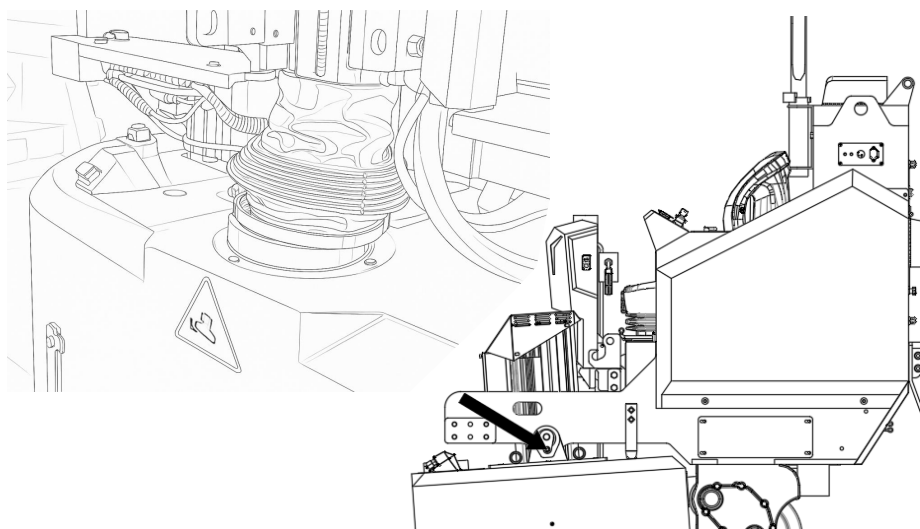


- (2) First, remove the electrode wiring, use a 5MM Allen key to remove the entire foot pedal assembly, and remove the water connector.

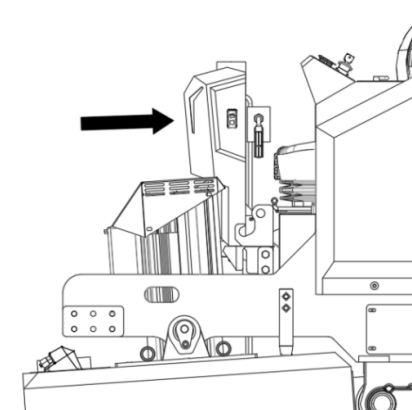
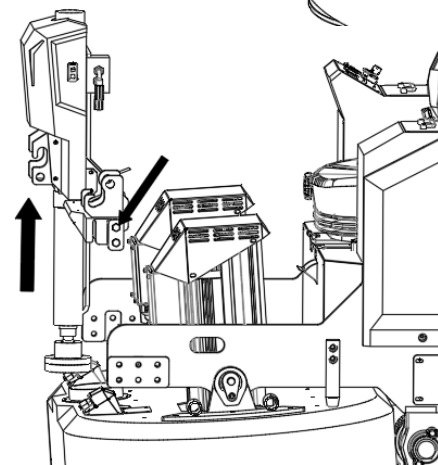
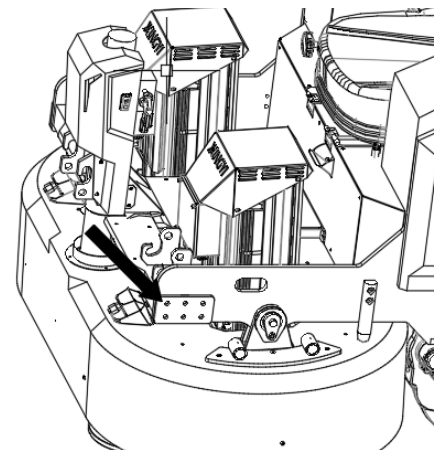




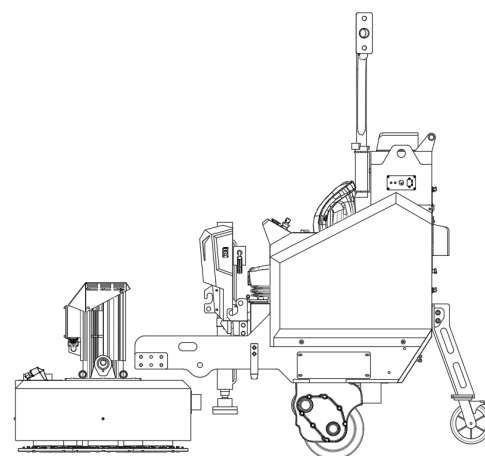
(3) Remove the hydraulic cylinder protective sleeve, use an 8MM Allen key to unscrew the bolts on both sides of the diagram, and pull out the pin that fix the machine frame and the gearbox on both sides.



(4) To disassemble the hydraulic seat, use 17 and 19 open-end wrenches to disassemble the fixing plates on both sides respectively, and lock the removed M12 bolt on the lifting assembly, lift the entire lifting assembly, then hang the lifting assembly on the machine frame as shown in Figure 2, and the machine frame can be separated from the gearbox.

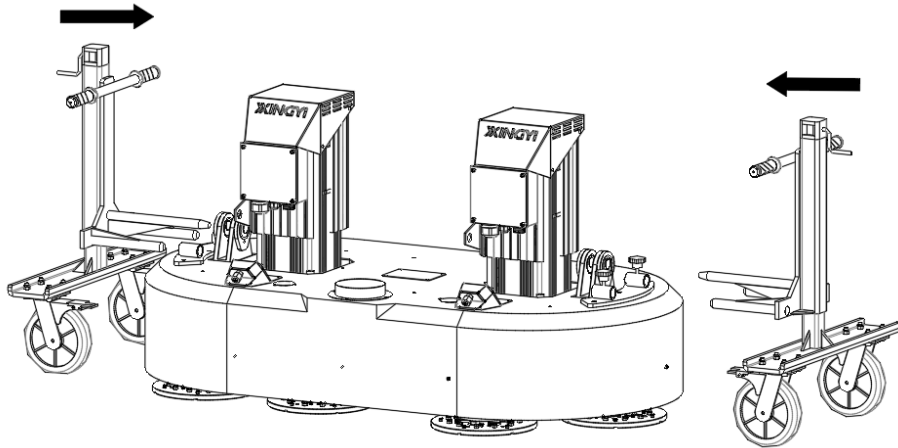


① Lift the lifting assembly ② Move the lifting assembly



Separate the gearbox assembly from the machine frame assembly.

(5) Insert both sides of the gearbox into the transfer shelf and tighten them with the bolts. Then rotate the transfer shelf handles clockwise to lift the grinding disc off the ground to transfer the gearbox assembly.



6. Equipment maintenance

6.1 Overview

We recommend regular inspections of your grinder to extend its life.

⚠ Attention:

During maintenance and repairs, 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 the emergency stop switch in the direction of rotation on the switch, turn the motor forward and reverse switch to start the machine, and see if the machine starts. (When the machine starts safely and normally, the operation indicator light will light up. If it does not start normally, a fault prompt will appear on the inverter panel.)

Turn on the grinder, press the emergency stop switch and see if the equipment stops.

Release the emergency stop switch, turn on the LED switch, and check whether the LED light is on.

⚠ Attention:

For safety reasons, it is strongly recommended that you remember to press the emergency stop switch when stopping the equipment, 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 clogged with dust. Use a flashlight to illuminate the hose to see if there is any dust blocking it. Clean it if necessary. (See P58)

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-adapter 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-adapter to not fit well, affecting the grinding efficiency. In more serious cases, it will cause the abrasive to fly out and cause an accident. Remember to clean it when necessary. (See P58)

6.2.4 Long-term storage of battery

During long-term storage, the battery should be maintained and charged every 6 months.

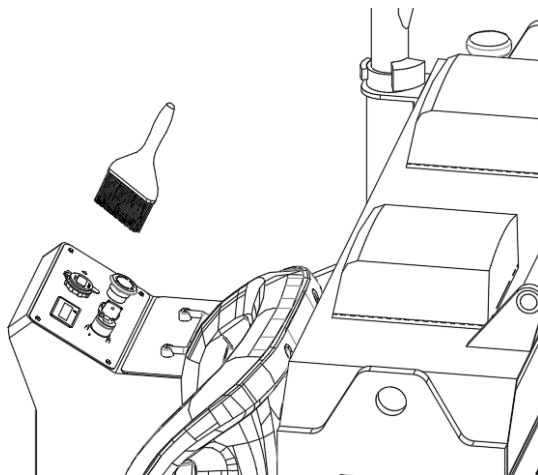
6.2.5 Attention

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.

6.3 Cleanup

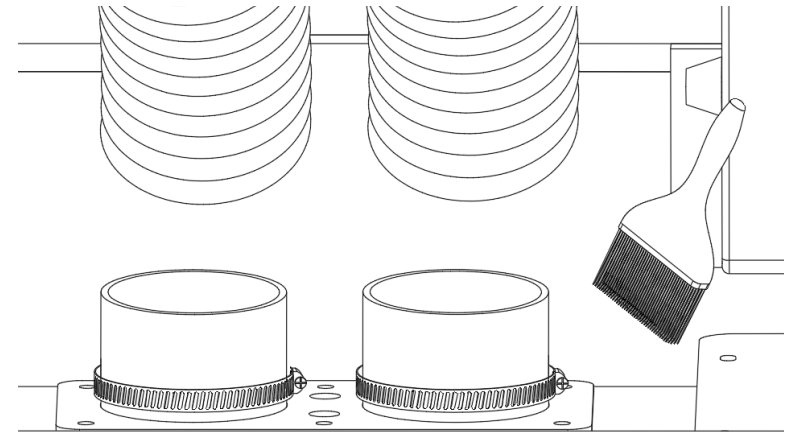
6.3.1 Clean the switch

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, it is necessary to check whether there is dust blockage in the switch part, which may cause malfunction.



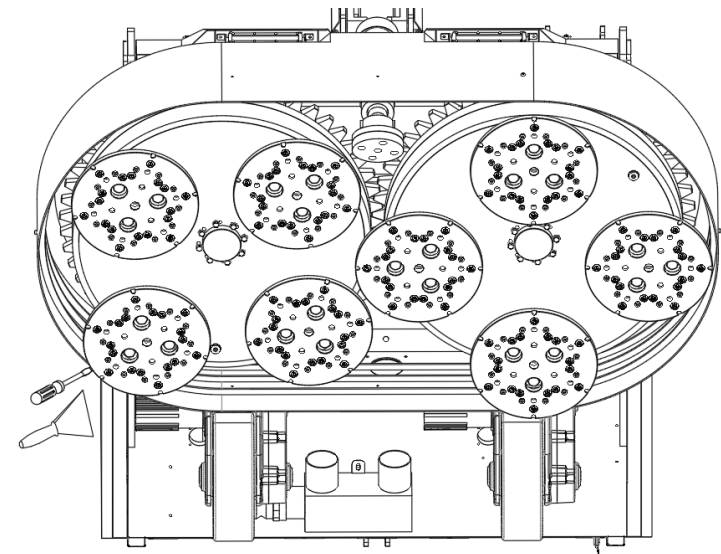
6.3.2 Clean the grinding disc cover

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



6.3.3 Clean the abrasives

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



6.3.4 Attention

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

6.4 Overload protection

The inverter of this machine is equipped with overload protection. When the machine is overloaded, the inverter panel on the control panel will show that the machine is overloaded. At this time, simply unplug and plug in the power plug.

6.5 Maintenance

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

7. Common problems and solutions

7.1 Overview

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.

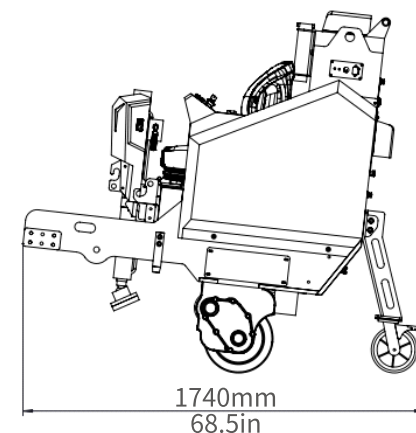
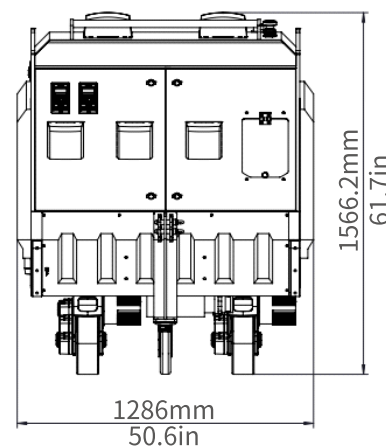
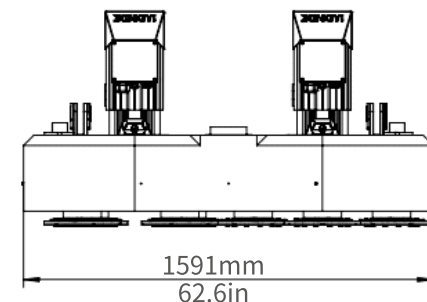
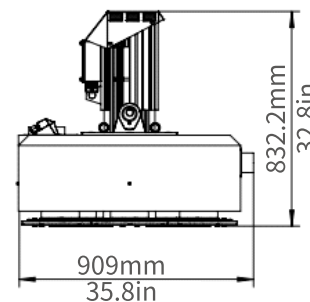
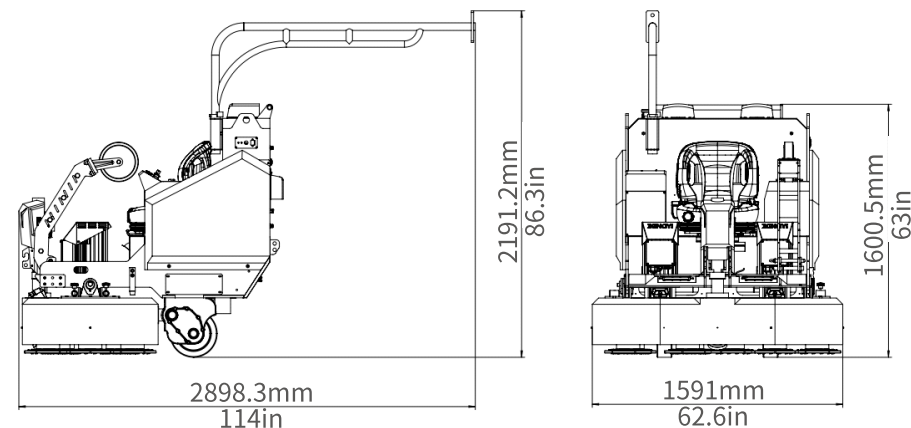
7.2 Common problems and solutions of grinding machines

Problem	Possible cause	Solution
The machine does not start	The emergency stop switch is pressed	Release the emergency stop switch
	Overload	Press the emergency stop switch and press the reset switch several times to restart the machine
	The power supply and cables are damaged	Contact a Licensed Electrician
	There is a problem with the rear contact switch	Make sure the cables are properly connected at the back of the switch, check the contacts and ignition switch
	Switch damaged	Replace the switch
The machine is difficult to control or the motor current consumption is high	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
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

8. Technical Data

The technical data and dimensions of the equipment are as follows:

Model	1560LE
Motor power	18.5KW/25HP*2
Rated voltage	3P380V
Rated current	75.4A
Input frequency	50HZ/60HZ
Inverter	18.5KW/25HP*2
Grinding width	1563mm/61.53in
Grinding disc size	Φ297mm/Φ11.69in*8
Grinding speed	350~1950r/min
Size (cylinder lifting position) Length×Width×Height	2460×1592×2480mm/96.85×62.68×97.64in
Size (working position) Length×Width×Height	1680×1592×2192mm/66.14×62.68×96.3in
Packing size: Length×Width×Height	1680×1592×1603mm/66.14x62.68×63.11in
Longest×Widest×Highest	2460×1592×2480nm/96.85×62.68×97.64in
Machine weight	1513.5KG
Cable type	25mm ²
Storage temperature	-20~+60°C/-4~+140°F
Operating temperature	-10~+40°C/+14~+104°F
Humidity	Below 95% (no condensation)



9. Warranty

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