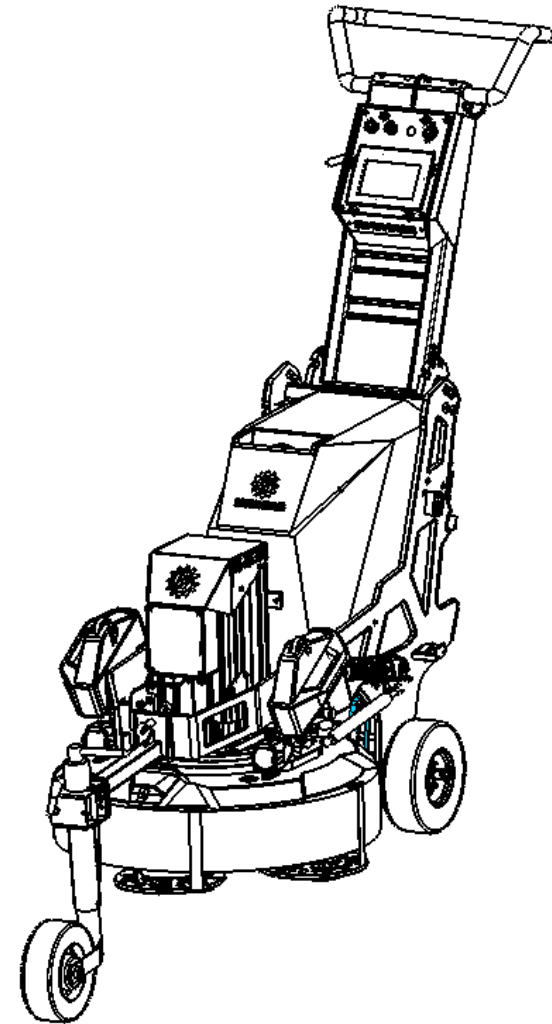


THE LEADER IN GEAR DRIVEN FLOOR GRINDERS



HIGH TECH GRINDING



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MANUAL OF HTG-820RC

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1. Introduction

1.1 Summary

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

1.2 Liability

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

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

1.3 Packing list

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

- (1) Machine*1
- (2) Manual*1
- (3) Integrated Velcro-adapter($\varnothing 278\text{mm}$)*4
- (4) Socket*1
- (5) Dust skirt*1
- (6) Remote toolbox (including remote control, charger, battery, and strap)*1
- (7) Electrical cabinet key*2
- (8) 4"Velcro-adapter*12 (another 12 are installed on the machine grinding disc)
- (9) Lead-acid battery charger*1

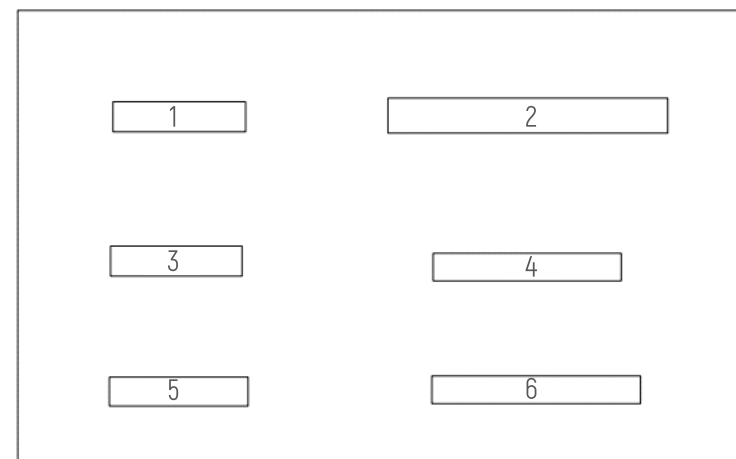
1.4 Receiving goods

Carefully inspect the packaging and the machine for shipping damage. If the machine shows any signs of damage, contact 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.

Verifique que la entrega coincida con el pedido. Si hay alguna discrepancia, contacte a su proveedor.

1.5 Machine information nameplate



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

1.6 Processing and storage

The grinder should be stored in a dry place at room temperature when not in use. Otherwise it may be damaged by condensation and cold. The dimensions and weight of the grinder are given in the technical data of (see P50).

1.7 Warranty

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

2.Safety instructions

2.1.Overview

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

Any non-standard operation or unauthorized modification or maintenance of the machine may cause the machine to malfunction or suffer other losses, and may be dangerous. All work must be completed by qualified professionals, and any replacement parts of the machine must be provided by HTG.

The HTG machine can only be used in the way recommended by HTG. The HTG machine can only be used for commercial purposes, and anyone using the machine should know its functions, the position of the emergency stop switch, the safety rules that operators should ensure, and that unauthorized personnel cannot be stationed in the work area when the machine is started.

When working, professional personal protective equipment should be equipped: safety goggles, protective gloves, safety shoes, respiratory masks, protective earmuffs, etc. Do not wear loose clothes or carry anything that can cause danger, such as scarves, bracelets, rings, etc.



Notes:

1. When driving on a slope, it is necessary to check that the battery level is greater than 40% and ensure that the clutch pin is locked.
2. This machine must be operated at a slope less than 20°. The company does not assume any responsibility for any accidents caused by operation at a slope greater than 20°.
3. This machine is only used for floor surface grinding and polishing.
4. Read and understand the safety instructions in the machine manual. Different models have different accessories and control operations.
5. This machine only requires one person to operate. When the machine is working, attention should be paid to children or unrelated personnel approaching the machine, maintaining a certain working distance, and remembering "one machine, one person".
6. Untrained individuals with poor physical condition are prohibited from operating the machine. Operators and maintenance workers must be physically robust and able to withstand the weight of the entire machine and the intensity of work driven by the motor;
7. Do not rent a machine without an operating manual.
8. Clothing required for operating and using the machine, such as dust masks, protective gloves, work clothes, safety helmets, insulated shoes, etc.
9. The body, accessories, and spacious clothing should avoid moving parts of the machine, otherwise it may cause physical injury.

10. Do not make arbitrary changes to the machine. Only parts provided by HTG Company can be used for maintenance and modification.

11. Do not use the machine during rain or thick fog.

12. There should be no explosive or flammable materials or vapors near the machine during operation. Do not operate this machine near dust, solvents, diluents, or other flammable materials.

2.2 Electricity safety instructions

1. All circuit repairs can only be performed by professionals.
2. Attention: After the machine stops, the circuit is still energized. All power supplies should be cut off before repairing the machine.
3. The machine is equipped with an overload protection equipment which will automatically trip and prohibit the machine from running when the machine is overloaded. (the overload can be readjusted under safe conditions.)
4. HTG will not provide warranty for other losses and malfunction of the machine caused by continuous use of the machine under overload conditions.
5. The purpose of adding an inverter to the machine is to adjust the speed and protect the safety of the user and the machine. It is forbidden to modify or adjust the inverter or modify the inverter parameters without HTG's consent. If the equipment fails, only the accessories provided by HTG can be used to replace the broken accessories. (HTG will not provide warranty for other losses and machine failure caused by modifying or adjusting the inverter or modifying the inverter parameters without HTG's consent.)
6. Never modify the internal parts or circuits of the inverter by 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 remove wires when the wires are live or under load.
10. Using a damaged power cord may cause electric shock. Do not use a damaged power cord.
11. Keep wires away from high temperature surfaces.
12. All electrical components of the machine should be kept dry and the machine should be stored in a dry place.
13. After cutting off the power supply, before the panel indicator light goes out, it means that there is still high voltage inside the inverter, which is very dangerous. Do not touch the uninsulated electrical machine parts.
14. Do not allow water to enter the machine motor or inverter. (HTG will not provide warranty for other losses or malfunction of the machine due to water ingress.)
15. The machine must use the wire specifications and voltage specifications specified by HTG. (The power specifications are indicated on the machine label.)

3.1 Overview

3.1 Overview

HTG-820RC is used to treat various types of floors. It is used to grind (rough grinding, grinding, polishing) concrete, natural stone and terrazzo floors or materials specified in this manual or recommended by HTG. 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.

HTG-820RC is equipped with radio control, which can realize remote control of the machine's movement at a certain distance. Settings can be changed and operation can be completed with just a few switches. The HMI on the remote control makes it easy for the operator to make adjustments and monitor system information, making operation more convenient for the user. The machine is equipped with a digital color display and the handheld remote transmitter is equipped with a 3.5-inch digital color display.

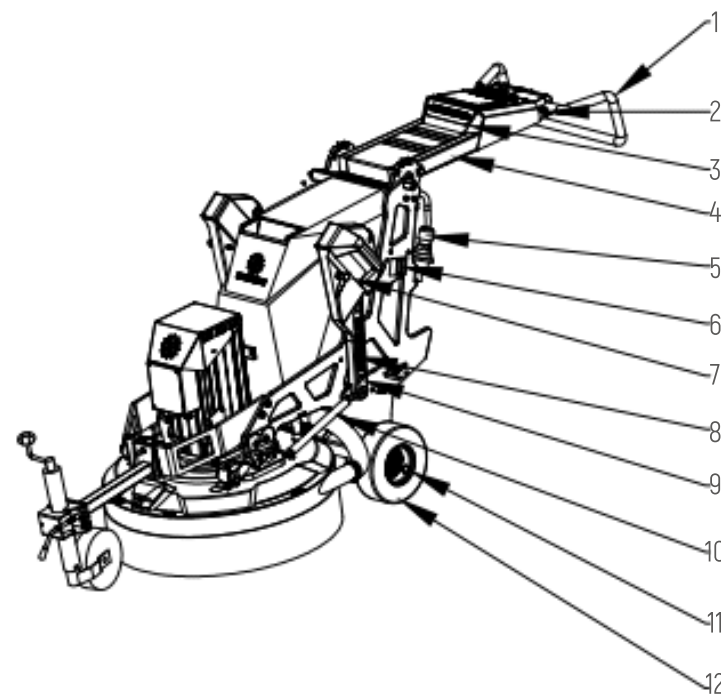
Equipped with a water tank so that the machine can not only dry grinding, but also wet grinding.

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

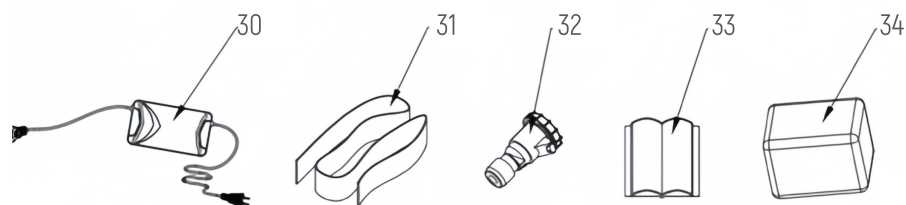
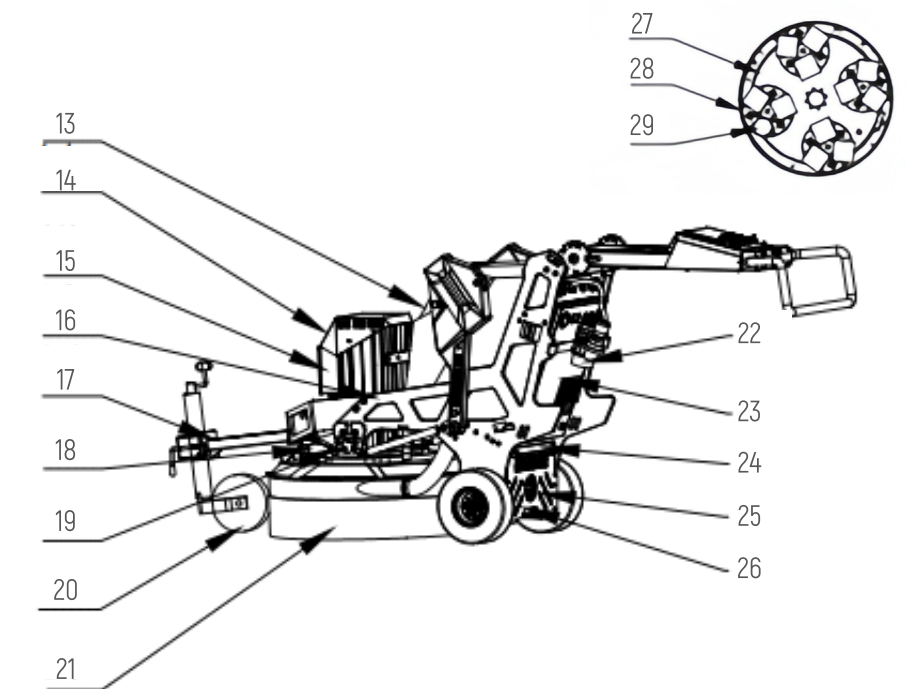
When dry grinding, be sure to connect a vacuum cleaner to the grinder (it is best to equip it with a vacuum cleaner that matches HTG for better results). This prevents dust from being exposed to the air and posing a threat to the health of the operator, operator, and nearby people. Inhaling dust is harmful,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

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

3.2 Parts description



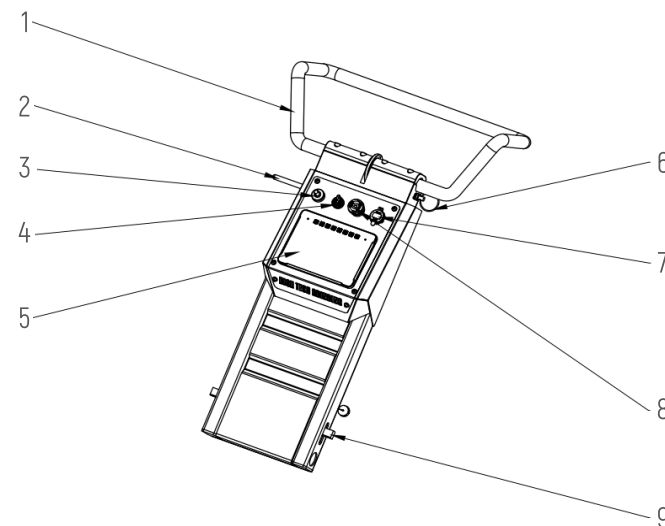
- | | |
|-----------------------------|---------------------------------|
| 1. Handle | 7. Stop pin |
| 2. Operation handle latch | 8. Counterweight |
| 3. Operation handle panel | 9. Plate |
| 4. Operation handle welding | 10. Gas rod |
| 5. 4-core male plug | 11. Self-locking indexing pin |
| 6. Middle fixing block | 12. Black rubber traction wheel |



- | | |
|--------------------------|----------------------------|
| 13. Water tank | 24. Long strip LED light |
| 14. Motor cover | 25. Reducer |
| 15. Motor | 26. Drive motor |
| 16. Machine frame | 27. Gearbox |
| 17. Front wheel assembly | 28. Grinding disc assembly |
| 18. LED light | 29. Velcro-adaptor |
| 19. Connection part | 30. Charger |
| 20. Jack wheel | 31. Dust skirt |
| 21. Gearbox cover | 32. Socket |
| 22. Camlock | 33. Manual |
| 23. Electrical cabinet | 34. Remote toolbox |

3.3 Operation handle assembly

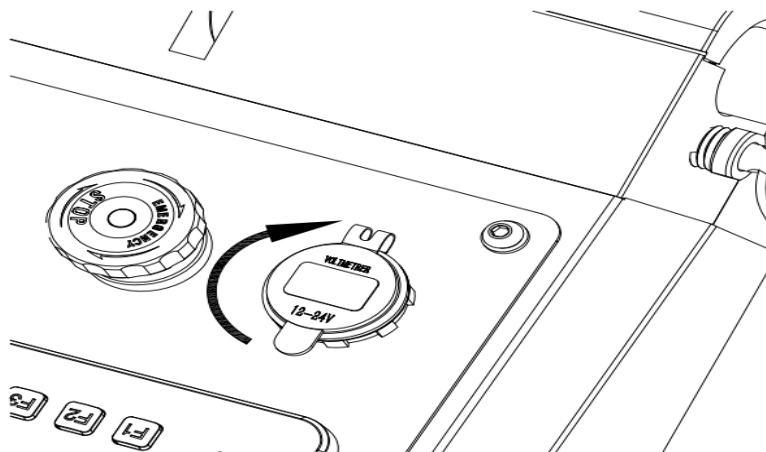
3.3.1 Overview



1. Operation handle: The position of the user's hand during operation.
2. Operation handle angle adjustment bar: Use the bar to adjust the angle of the operation handle, and there will be corresponding positions under corresponding working conditions. (For specific operations, please refer to see P13)
3. Speed regulator: Mainly used to adjust the rotational speed of the motor.
4. Three-position selector switch: The switch has three position, with the left side indicating that the motor is rotating in the forward direction; In the middle position, the motor does not rotate; Rotate to the right to reverse the motor.
5. HMI: Displays some parameters, such as voltage, current, motor speed. Touchable screen and button, can adjust some basic parameters of the machine according to user needs, and can monitor the grinding parameters and fault prompts of the machine from it. (See the introduction later for details)
6. Operation handle latch: Pull out the latch, and the handle can be freely rotated to a suitable position to operate the device.
7. USB charger: Can be used for charging, such as charging a mobile phone.
8. Emergency stop switch: When the equipment is in a dangerous state or needs to stop working, press the emergency stop switch to cut off the power and stop the equipment from running, in order to protect personal and equipment safety.
9. Operation handle locking rod: Adjust the operation handle position.

3.3.2 USB charger

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



⚠ Notice:

When operating the grinder, be sure to close the cover and do not open it to expose the USB charger to prevent dust from getting in and clogging the USB charger. When the USB charger is not in use for charging, remember to cover it to prevent dust from falling into the USB charger.

Note: The battery voltage will be displayed on the cover.

3.3.3 HMI

(1) Menu Overview

HMI button operation;

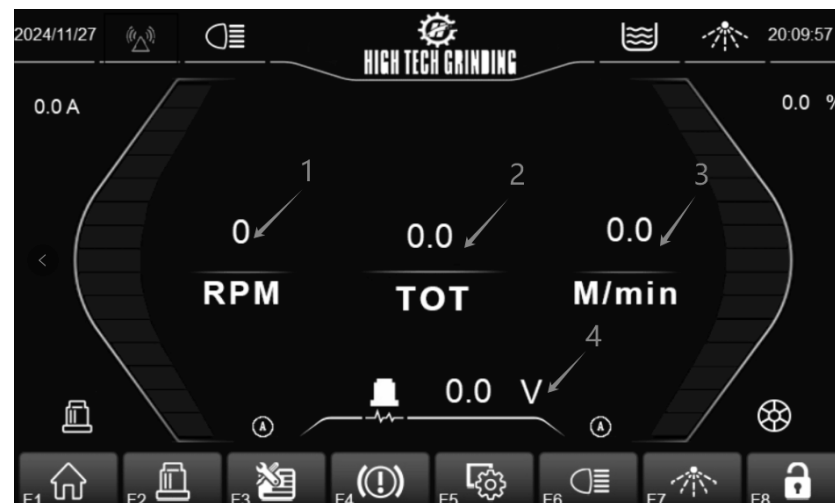
The text displayed in this manual is in Chinese , but the language can be selected in the product.

(2) HMI interface

In manual mode, all buttons can be used for operation:

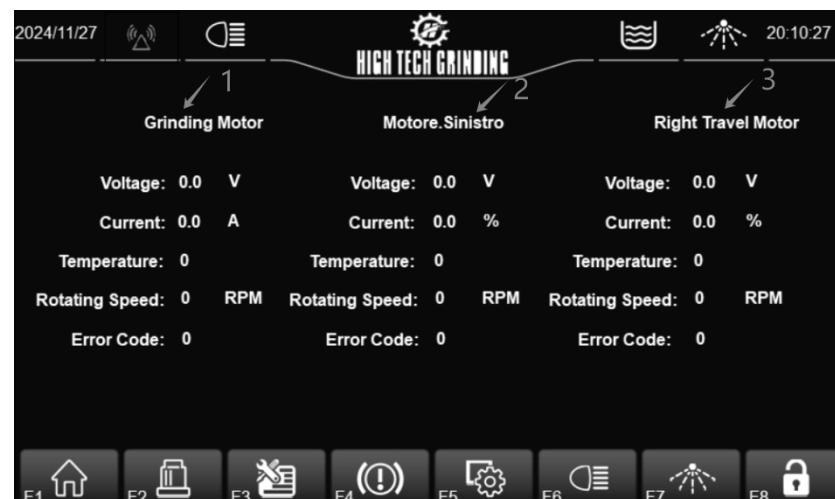
Press the F1 and the HMI will appear (as shown below)

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



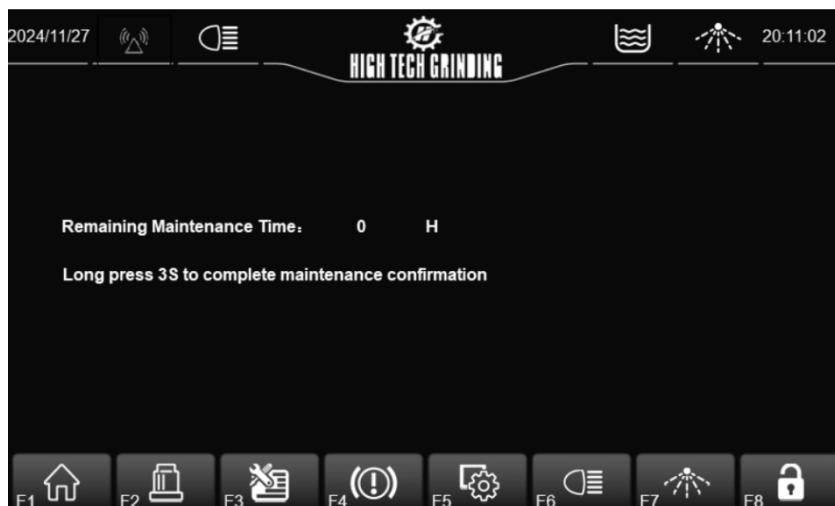
Press the F2 and the HMI will appear (as shown below)

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



Press the F3 and the HMI will appear (as shown below)

Pressing F3 displays the remaining maintenance time. After the maintenance is completed, press and hold the F3 for 3 seconds to reset the maintenance time.

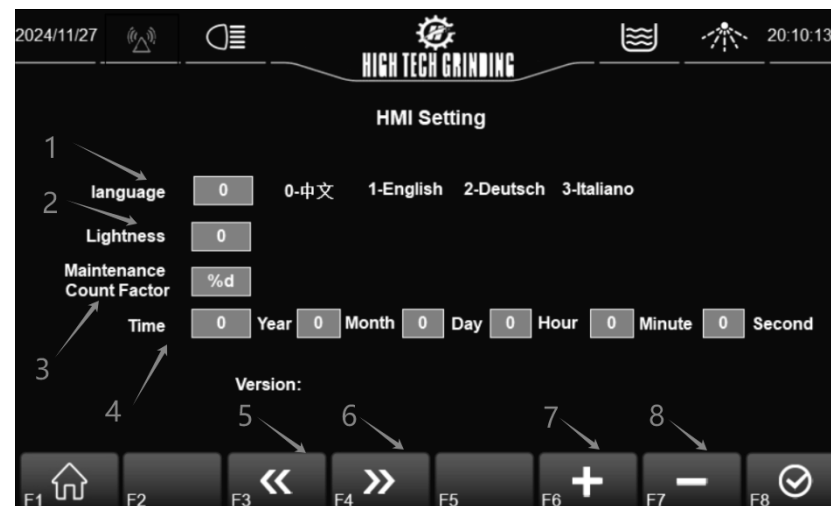


Press the F4 and the HMI will appear (as shown below). If a fault occurs during equipment operation, the fault description will be displayed.



Press the F5 and the HMI appears (as shown below)

1. Language (0 Chinese 1 English 2 Korean...).
2. Lightness (adjust with numbers).
3. Maintenance count factor (displayed as a percentage).
4. System import time.
5. Adjust the number (press once to jump to the previous digit).
6. Adjust the number (press once to jump to the next digit).
7. Adjust the number to add.
8. Adjust the number to minus.



F6 is used to control LED light.

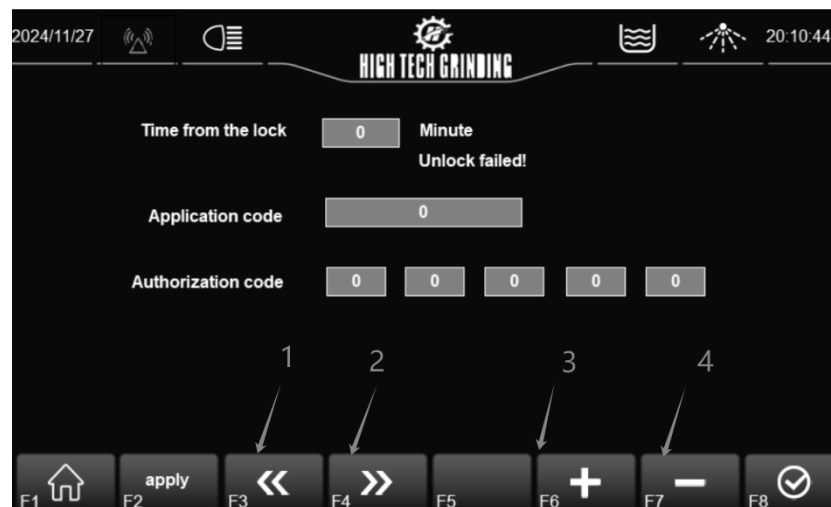
F7 is used to control the front spray.

Press the F8 and the HMI will appear (as shown below).

When the device is locked, press F8 to send the application code to HTG, and we will send the authorization code to the customer.

After the customer enters the authorization code, it will decode.

1. Adjust the number (press once to jump to the previous digit).
2. Adjust the number (press once to jump to the next digit).
3. Adjust the number to add.
4. Adjust the number to minus.

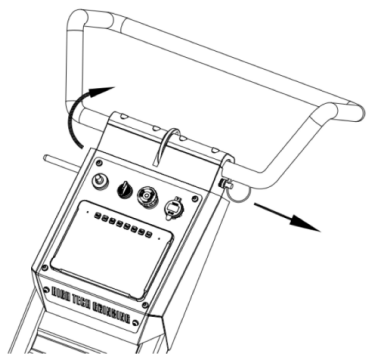


3.3.4 Handle

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

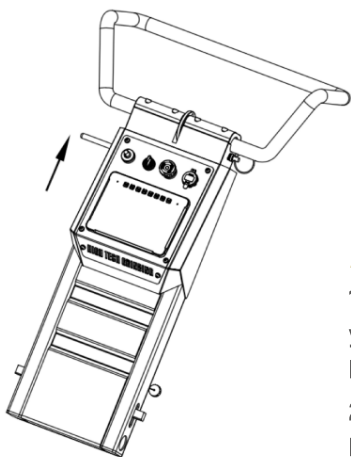
⚠ Notice:

1. When pulling out the handle adjustment pin, it may get stuck. In this case, you need to shake the handle while pulling out the pin.
2. When the handle adjustment pin automatically resets, the holes may not be aligned. Simply rotate it up and down.
3. When adjusting the handle position, be sure to check whether the handle adjustment pin has been automatically reset before operating the machine.



3.3.5 Operation handle angle adjustment

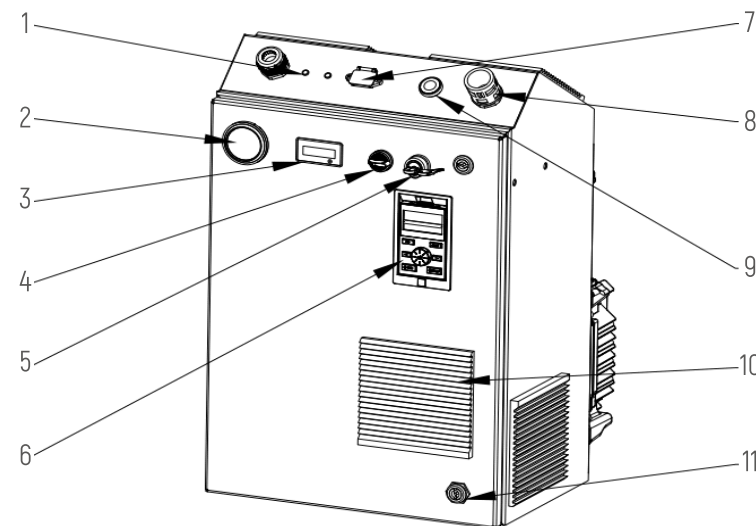
The operation handle adjustable device uses a bar to control the different positions of the operation handle to adapt to the conversion of the machine placement mode in different states. Hold the handle with one hand to support the operation handle, pull the bar upward with the other hand without moving,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



⚠ Notice:

1. After adjusting the position of the operation handle, you need to check whether the operation handle has been limited before operating the equipment.
2. The operation handle is heavy, so hold it with one hand to keep it steady!

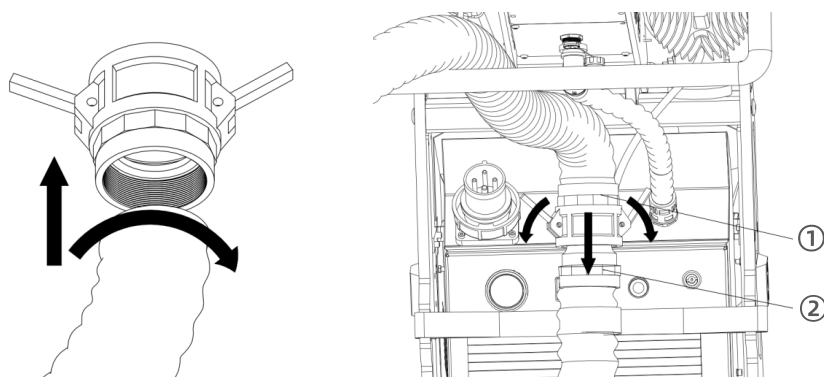
3.4 Electrical cabinet assembly



1. Indicator: Remote control status indicator.
2. Hour meter: Shows the total running time of the machine.
3. Battery screen: Display the machine's reserve battery level.
4. Two-position selector switch: Remote and manual switching.
5. Key switch: start the DC power supply.
6. Inverter external keypad: adjust parameters.
7. Battery charging port: The battery can be powered by a dedicated charger.
8. Cable connector: An interface used to connect cables.
9. Charging indicator: Displays the battery level when charging.
10. Filter: It plays a role in heat dissipation to prevent the internal temperature of the electrical cabinet from being too high, which may cause the components inside the electrical cabinet to burn out.
11. Cabinet lock: The electrical cabinet can be locked with a key.

3.5 Camlock

The camlock consists of a front part and a rear part (as shown below). The front part is assembled with the hose of the grinder (screw the front part into the hose connector through the thread and tighten it), and the rear part cooperates with the hose (screw the hose into the rear part and tighten it).

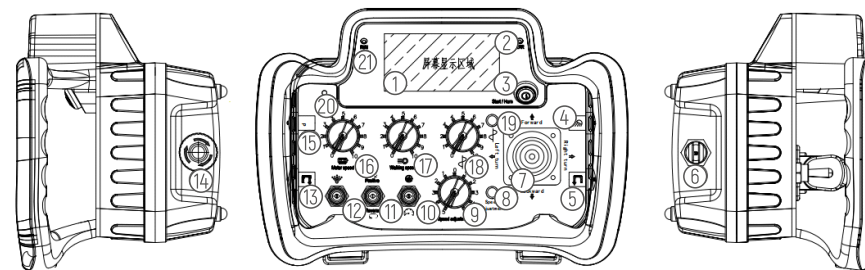
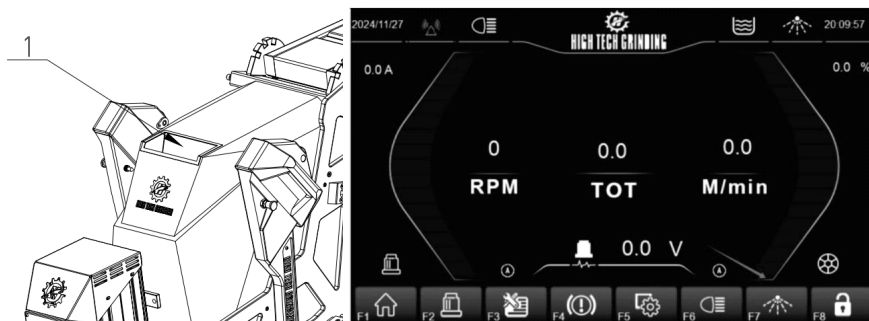


① Front part ② Rear part

3.6 Water tank

There is a water filling port in front of the water tank, which can be filled with water; Opening heat dissipation ports on both sides of the water tank allows the electrical cabinet of the machine to dissipate heat more quickly, which can extend the service life of the internal electrical appliances of the electrical cabinet.

In the manual grinding state, press the spray switch (F7) in the HMI (as shown in Figure 1) when the machine is about to carry out wet grinding, and water will be sprayed in front of the machine; rotate the tap, and the machine grinding disc will spray water, and wet grinding can be performed (as shown in Figure 2).



1. Water filling port 2. (No. 12 on the remote control) Spray switch

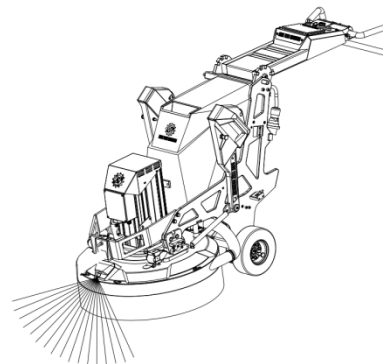


Figure 1

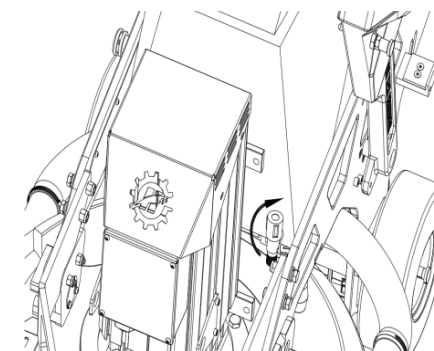
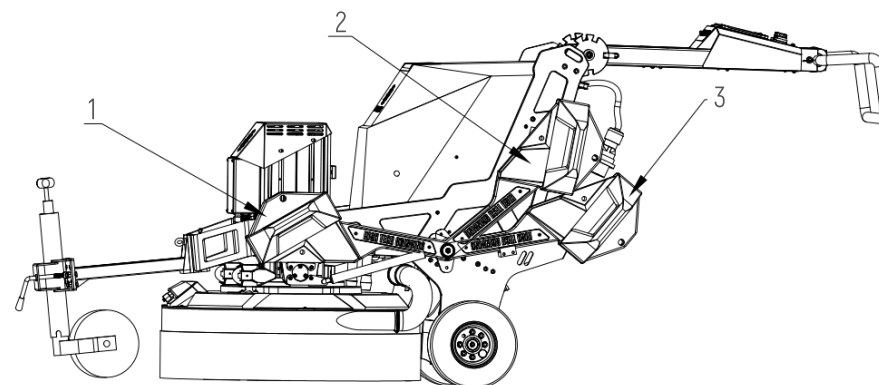


Figure 2

3.7 Counterweight

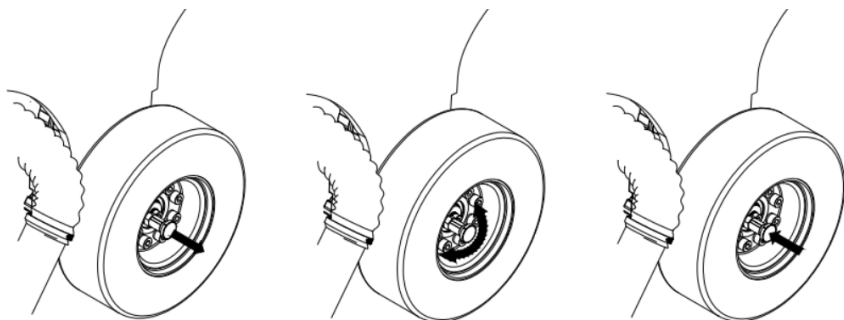
The counterweight has three different positions, corresponding to the transportation position, the tilt position, and the working position on the machine. The adjustment of the counterweight position mainly relies on the spring pin to cooperate with the limiting device on the frame to achieve the purpose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



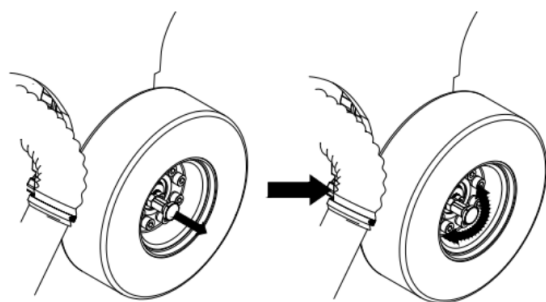
① Working position ② Transportation position ③ Tilt position

3.8 Self-locking indexing pin

Lock the self-locking indexing pin: Push the self-locking indexing pin outward, then rotate the self-locking indexing pin 90 degrees, and then push the self-locking indexing pin inward.



Unlock the self-locking indexing pin: Push the self-locking indexing pin outwards, and then rotate the machine's self-locking indexing pin 90 degrees.



⚠ Notice:

1. The self-locking indexing pin may get stuck when you pull it out. Just shake the machine while pulling it out.
2. When performing grinding work, the self-locking indexing pin needs to be rotated to the corresponding position. If the self-locking indexing pin does not bounce back automatically, the self-locking indexing pin will automatically bounce back when the machine wheel is pushed again.

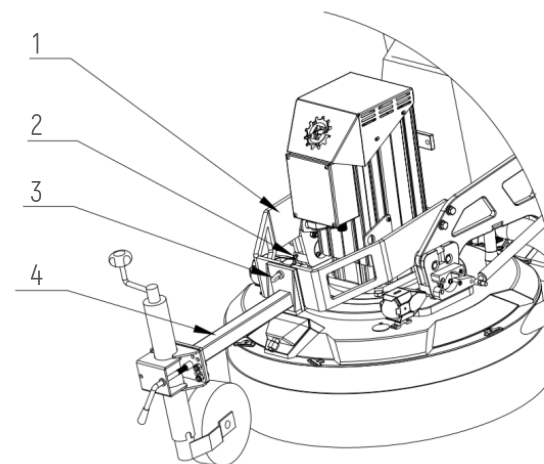
3.9 Front wheel

3.9.1 Disassembly of the front wheel

Before the machine is transported, the front wheel are installed to make the turning of the grinder smoother; when the machine is transported, sometimes the machine needs to move forward and backward, so the front wheel can make the movement of the grinder more convenient and labor-saving. It needs to be disassembled or turned over for grinding.

Disassemble the front wheel: First, press the emergency stop switch, unplug the power plug, loosen the R-type pin, take out the locating pin, and then move horizontally to take out the front wheel.

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



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

⚠ Note:

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

3.9.2 The lifting and lowering of the front wheel

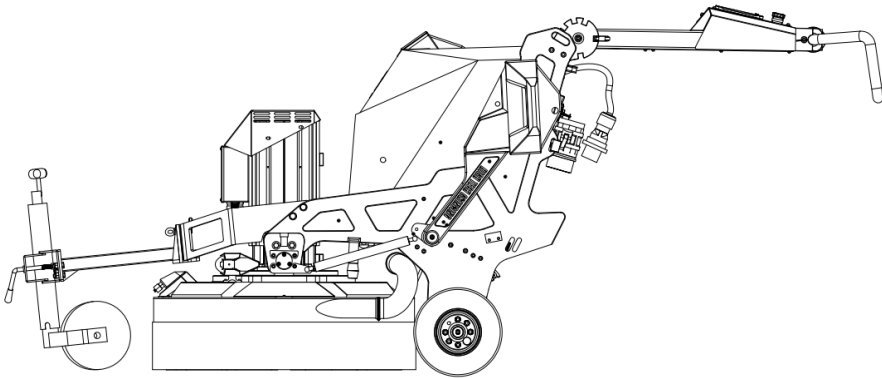
The front wheel can be lowered by rotating the handle of the front wheel and lift the grinding device from the working area.



Note:

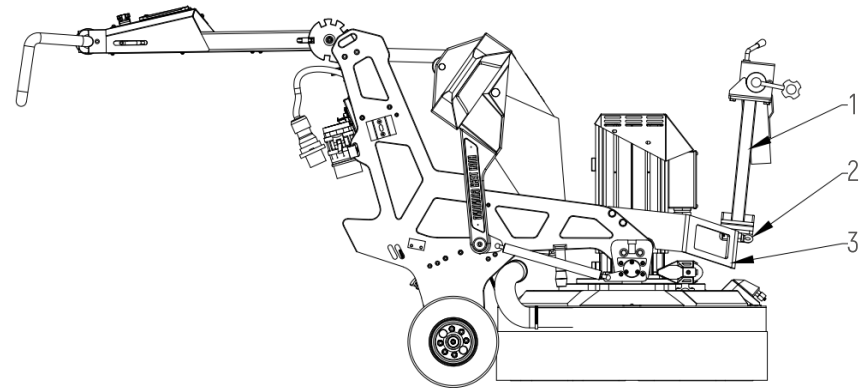
In the process of transportation, it would be better to remove abrasive in advance to prevent from falling and losing. If lose, manufacturer will not provide compensation..

During rotating and lifting, please tighten the locking handle next to front wheel onto the front wheel axle, and then adjust lifting and lowering of the front wheel. The locking handle rotation direction: left to loose, right to tight.



3.9.3 Flipping of the front wheel

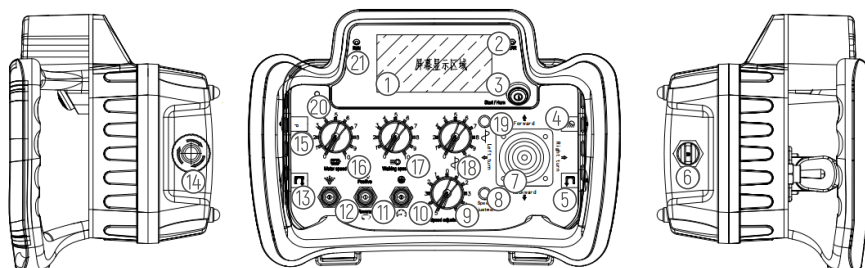
1. Unlock the R-type pin first and remove the locating pin (②) forward.
2. Then assemble the rotation direction of the front wheel (①) onto the front wheel support frame (③).
3. Insert the locating pin again and insert the R-type pin to secure the locating pin.



① Front wheel ② Locating pin ③ Front wheel support frame

4. Remote control equipment

4.1 Remote control - control panel



1. HMI: Mainly displays some parameters, such as voltage, current, motor speed, overload fault prompt, etc.

2. Transmitter battery indicator: When the battery voltage is low, the indicator  turns green. Please replace the battery within 20 minutes.

3. Start button: Used to start the remote control in conjunction with the emergency stop switch.

4. LED light switch: Controls the switch of the LED light at the bottom of the electrical cabinet.

5. U-turn left switch: Press to make the machine turn left.

6. Power switch: The switch that controls the power of the remote control.

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

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

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

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

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

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

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

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

(8) Machine travel speed: 0-30m/min.

8. Speed adjustment status indicator: When the speed regulator is started normally, the indicator lights up green.

9. Left and right wheel speed regulator: Ensures that the machine performs straight-line grinding. When the machine deviates slightly to the right (left) from the straight line, turning the switch to the left will reduce the speed of the left wheel, causing the machine to deviate to the left (right) and maintain a straight-line walking route.

10. Normal remote control/memory grinding mode switch: Push it down and the machine is in normal remote control mode, push it up and the machine switches to memory grinding mode.

11. Motor forward - reverse switch: This switch has three position: pushing forward controls the motor to rotate forward, the middle position controls the motor not to rotate, and pushing backward controls the motor to rotate in reverse.

12. Spray switch: Controls the opening and closing of the spray nozzle in front of the grinding disc cover.

13. U-turn right switch: Press to make the machine turn right.

14. Emergency stop switch (located at the bottom of the machine): Turns on or off the control of radio use to stop the machine from working.

15. Brake switch: Control the instant braking of the traction wheel.

16. Motor speed regulator: Control the speed of the grinding disc drive motor.

17. Traction wheel speed regulator: Control the travel speed of the machine.

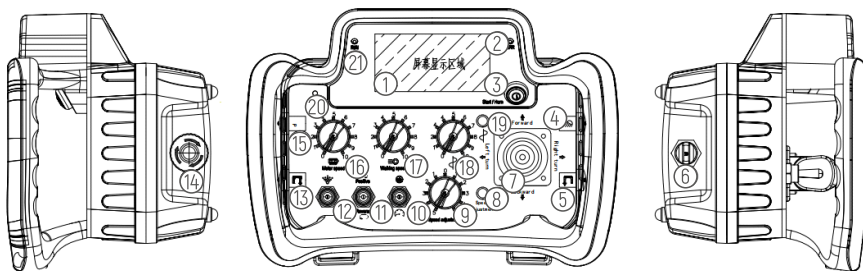
18. Oscillation switch: Adjust the contact angle between the grinding disc and the ground.

19. Oscillation indicator light: When the oscillation grinding function starts normally, the indicator light turns green.

20. External antenna: Used to receive control signals.

21. Operation indicator.

4.2 U- turn

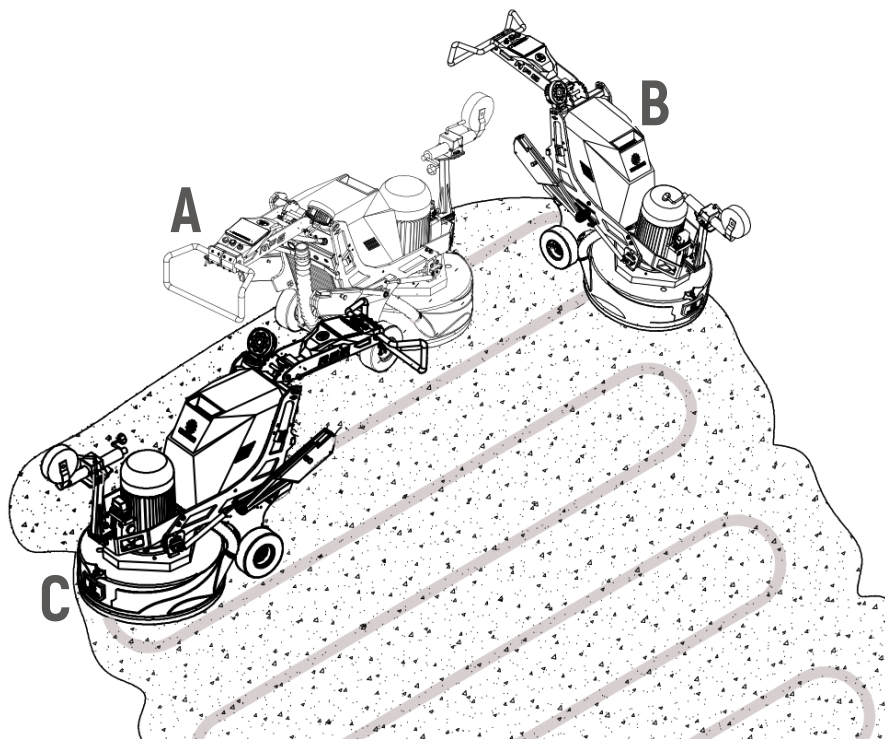


When the machine is grinding, if machine A needs to turn during straight grinding, you can press NO.13 U-turn right switch to turn right (or press NO.5 U-turn left switch to turn left according to your needs) to turn into machine B and grind while turning, and finally grind in straight line in machine C.



Note:

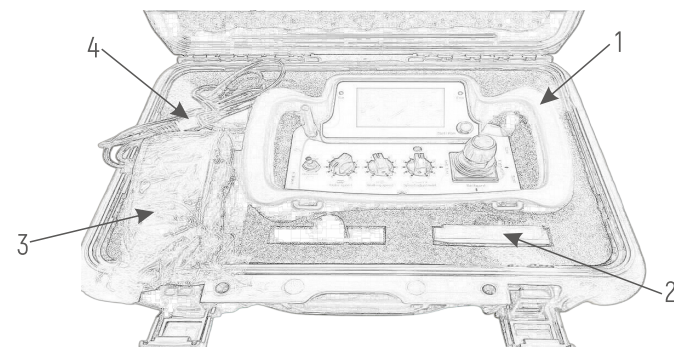
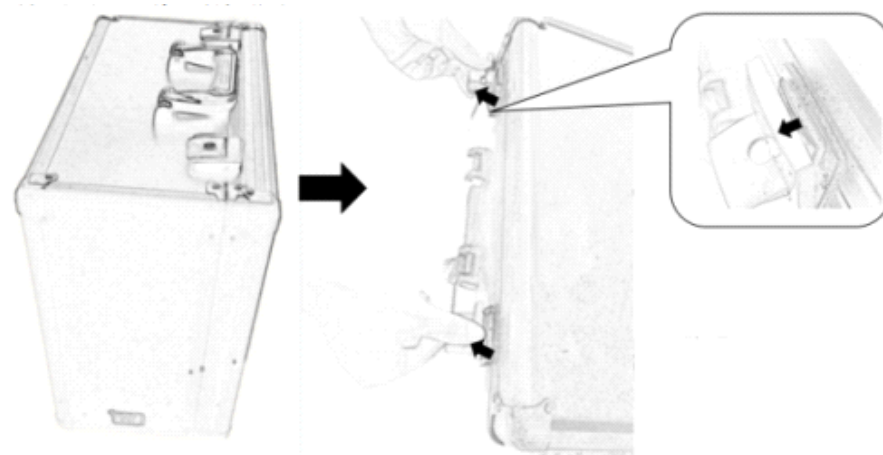
The actual turning point is between the two rear wheels, so when turning, a 40cm space must be reserved at the front. It is not recommended for novices to use one click turning when close to a wall.



4.3 Remote toolbox

4.3.1 Overview

The remote toolbox contains:



1. Remote control 2. Battery 3. Strap 4. Charger

4.3.2 Use of remote control

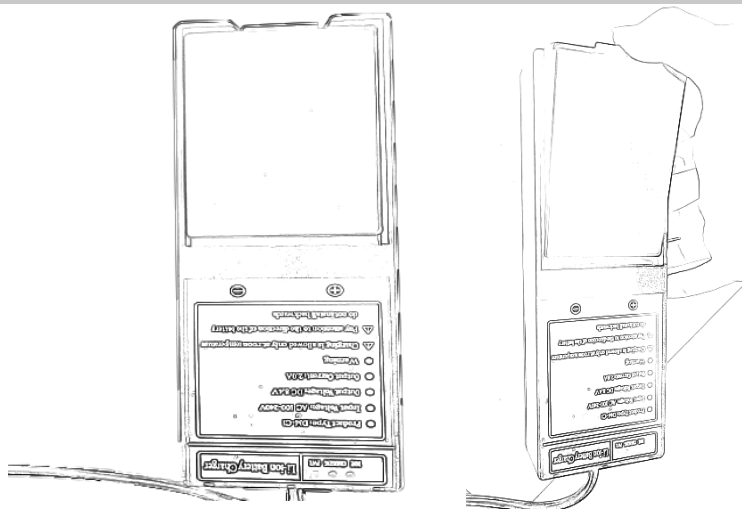
Inserting of remote control battery: Please check the battery power before inserting to avoid malfunction due to insufficient battery voltage; pay attention to the direction of the battery during installation and ensure that the battery is installed securely; remove the battery when the remote control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

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

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

Turn off the remote control: Press the emergency stop switch on the remote control, the battery indicator goes out and the remote control turns off.

4.3.3 Use of charger



1. Input the correct voltage according to the mark on the charger.

2. Put the rechargeable battery into the charger:

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

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

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

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

⚠ Notice:

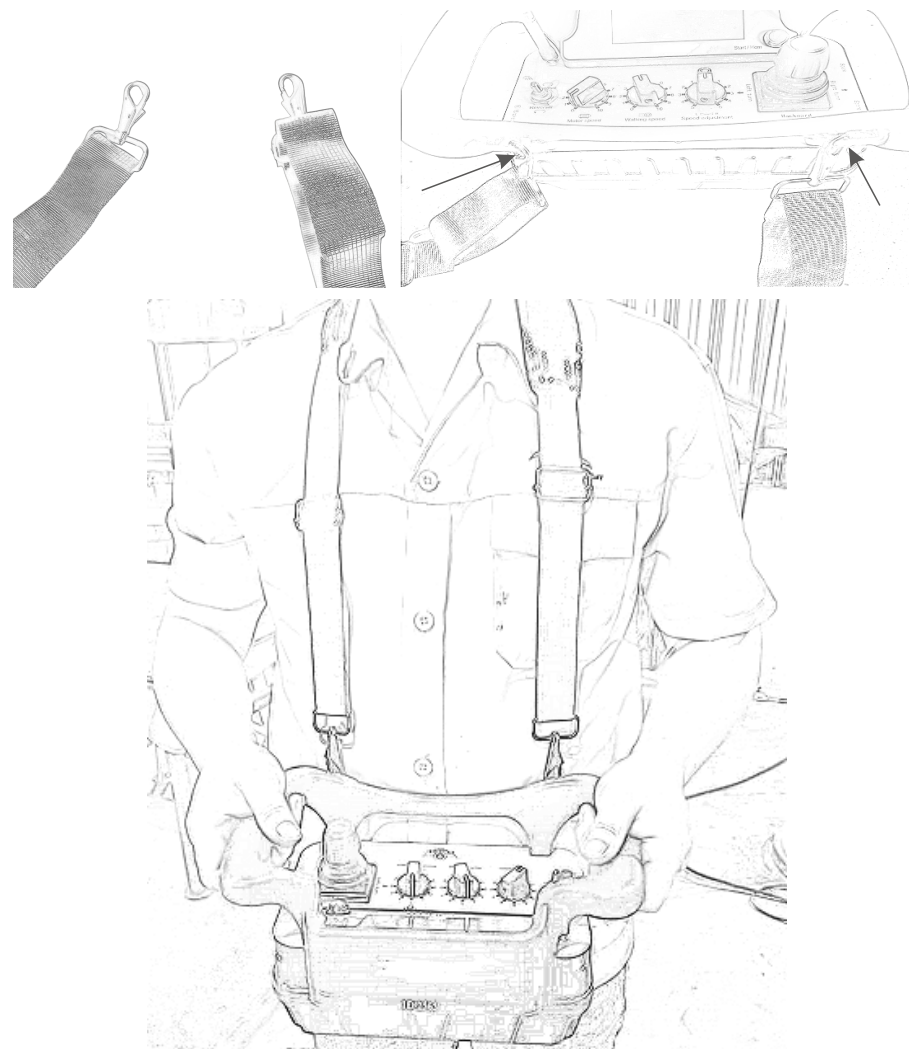
Be sure to confirm the charger voltage.

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

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

4.3.4 Hang the remote control

Take out the strap of the remote control, connect it to the bottom of the remote control (as shown in the picture), hang the strap around your neck, and adjust the length of the strap.

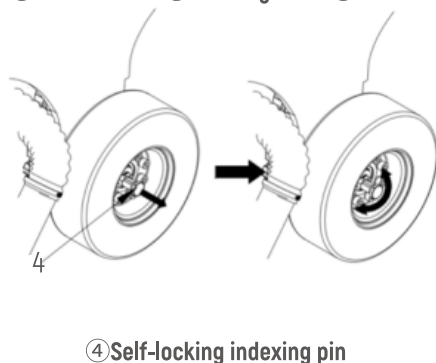
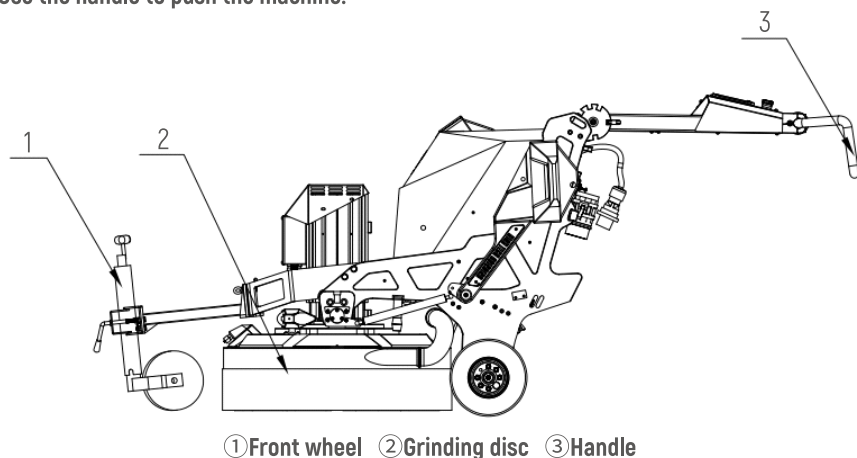


5. Transportation

There are two ways to transport this machine: manual and automatic. During transportation, it can be operated without plugging in, relying on the machine's own battery.

5.1 Manual

1. Rotating the front wheel handle can lower the front wheel and lift the grinding machine from the working area. It is recommended that the lowest position of the grinding disc be 25mm above the ground.
2. Unlock the self-locking indexing pin: Push the self-locking indexing pin outward, and then rotate the self-locking indexing pin 90 degrees;
3. Use the handle to push the machine.



⚠ Notice:

The self-locking indexing pin may get stuck when you pull it out. Just shake the machine while pulling it out.

Pay attention to your own safety when tilting the machine and always do it within your ability. Before transportation, be sure to take out the abrasive to prevent it from falling and being lost, causing unnecessary losses.

When using the hand-push method, the self-locking indexing pin must be in the unlocked state.

When the self-locking indexing pin is in locked state, pushing it by hand will cause damage to the drive motor!

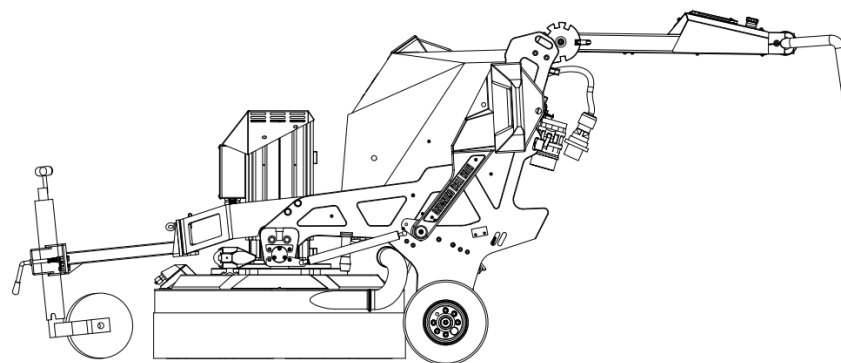
When rotating the front wheel, remember not to rotate it to the highest position to prevent the front wheel from falling off and causing poor alignment of the hole position.

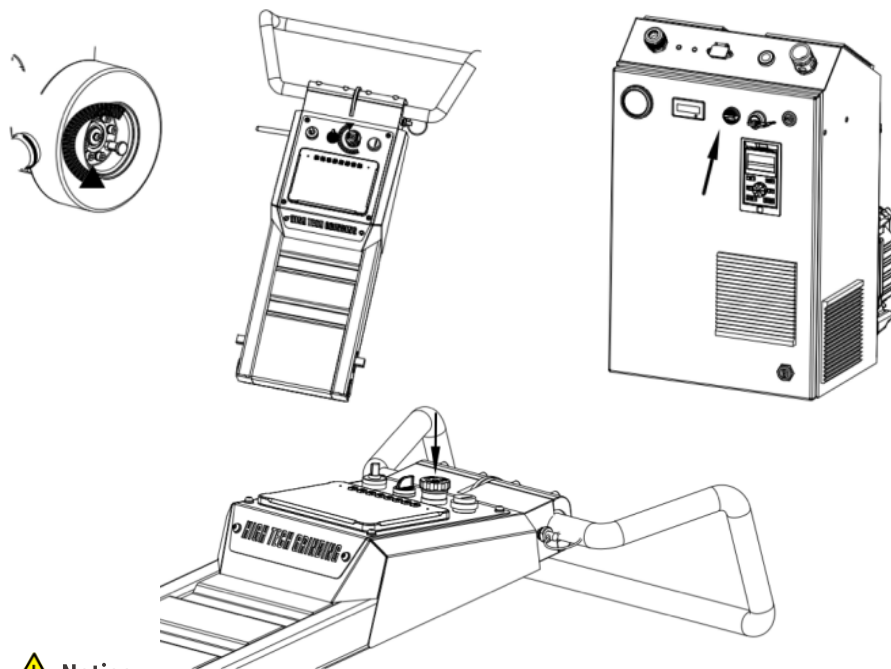
When rotating the front wheel, always pay attention to the height of the grinding disc from the ground, which should not be too low, to prevent the grinding disc from shaking and colliding with the ground when it is too low, which may damage the grinding disc; Suggest that the lowest position of the grinding disc be 25mm above the ground.

5.2 Remote control

Rotating the front wheel handle can lower the front wheel and lift the grinding machine from the working area. It is recommended that the lowest position of the grinding disc be 25mm above the ground:

1. Locking of self-locking indexing pin: Rotate the self-locking indexing pin 90 degrees and then push it inward.
2. Turn on the emergency stop switch on the operation handle control panel.
3. Press the battery system drive button on the electrical cabinet (green button).
4. Turn the remote control/manual mode switch on the machine HMI to remote control mode.
5. Use the remote control to control the travel speed and direction of the machine.



**Notice:**

1. The emergency stop switch is rotated and pressed, and cannot be pulled out. Otherwise, HTG will not compensate for any losses caused.
2. Before transportation, be sure to take out the abrasive to prevent it from falling and being lost, causing unnecessary losses.
3. During operation, you must pay attention to the power of the remote control and the battery. When using your own battery, the travel speed must not exceed 4.
4. During the operation, just flick the directional control joystick on the remote control.
5. Be extremely careful when operating floor polishing or transporting upwards or downwards on a slope (maximum slope 17°).
6. If it is a steep slope, be sure to use a winch. Do not stand behind the machine.
7. When the remote control device indicates that the battery power is low (when the red light on the electrical cabinet is on), avoid moving the machine up a slope.
8. When moving down a slope, drive the machine slowly in the reverse direction.
9. When moving up a slope, drive the machine slowly in the forward direction.
10. When rotating the front wheel, remember not to rotate it to the highest position to prevent the front wheel from falling off and causing poor alignment of the hole position.
11. When rotating the front wheel, always pay attention to the height of the grinding disc from the ground, which should not be too low, to prevent the grinding disc from shaking and colliding with the ground when it is too low, which may damage the grinding disc.

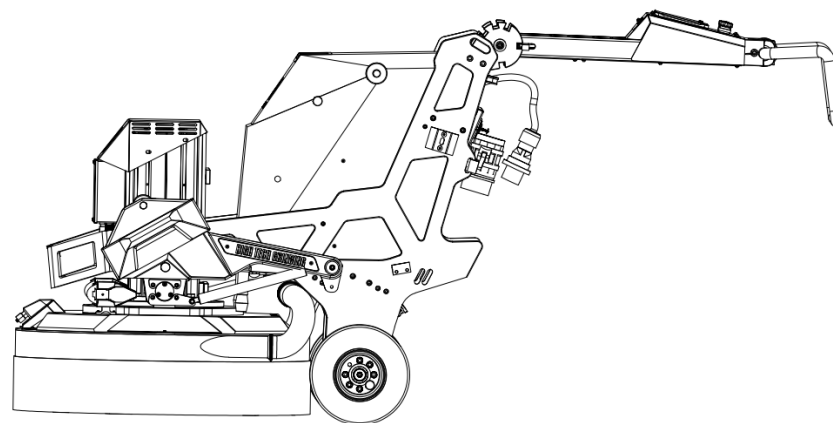
5.3 Transportation and storage

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

5.4 Machine position description

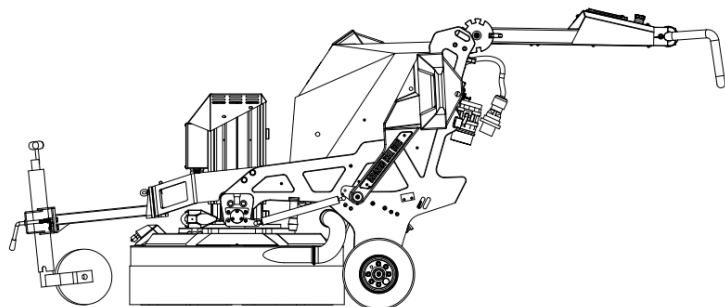
5.4.1 Machine working position

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



5.4.2 Machine transportation position

During the transportation of the machine, adjust the weight iron to the transport position, and adjust the swing rod and handle to keep it in the transport position as well. Pull out the self-locking indexing pin. Lower the support wheel for locking, rotate the support wheel, adjust the height of the support wheel so that its grinding disc is off the ground for easy transportation.



⚠ Notice:

Do not rotate the front wheel too high to prevent it from falling off and making installation inconvenient, as it may also cause personal danger;

When rotating the front wheel, always pay attention to the height of the grinding disc from the ground, which should not be too low, to prevent the grinding disc from shaking and colliding with the ground when it is too low, which may damage the grinding disc.

It is recommended to rotate the front wheel handle to ensure that the lowest position of the grinding disc is 25mm above the ground during the transportation of the machine.

5.4.3 Machine packaging position

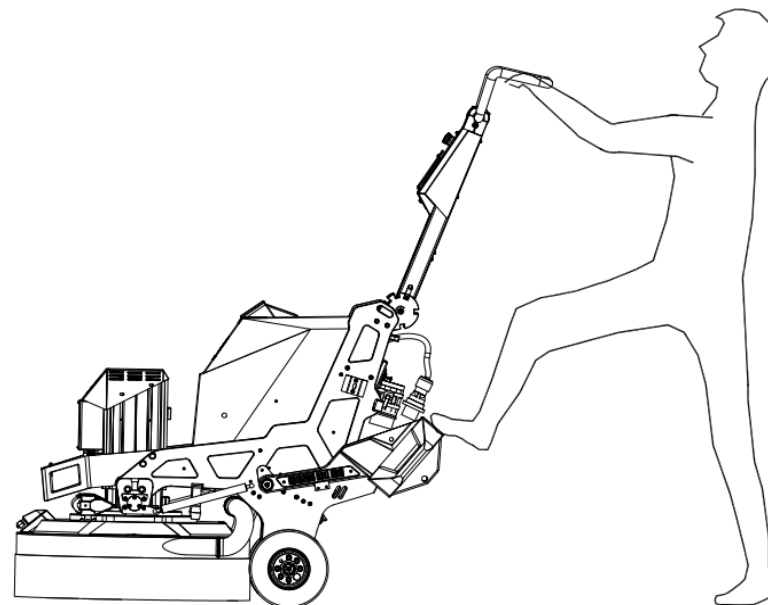
When packaging, the position of the operation handle, front wheel, and handle can be adjusted to reach the packaging position.

The minimum packaging size is as follows, and packaging can be done according to its dimensions. (See technical data for details on P59)

5.4.4 Machine tilt position

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

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



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

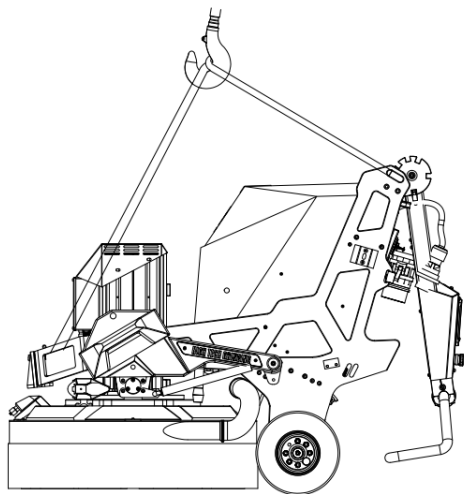
⚠ Attention:

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

The front wheel can be flipped over or disassembled.

5.4.5 Lifting the machine

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



⚠ Notice:

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

5.4.6 Notes

1. If the operation is not careful, the grinder may overturn, causing machine damage and personal injury.
2. When you pull out the handle adjustment pin, it may get stuck. In this case, you need to shake the handle while pulling out the pin.
3. During the adjustment process, it is necessary to ensure that the locking device is reset before operating the machine.
4. After adjusting the position of the operation handle, you need to check whether the operation handle has been limited before operating the machine.
5. During the grinding process, inhaling dust is harmful. Please wear a professional mask during operation to ensure personal safety.
6. During the process of lifting and lowering the machine, special attention must be paid to one's own safety to avoid damage to the machine.

6. Operation of the machine

6.1 Overview

The following sections mainly describe the grinder in different positions when switching the mode to manual operation, the main operations of the grinder and how to install the abrasive.

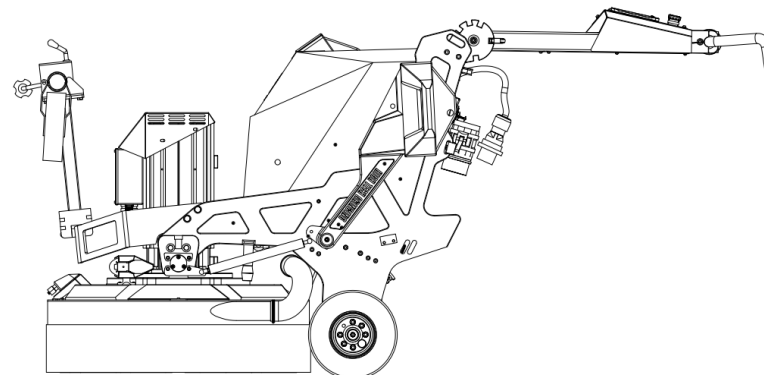
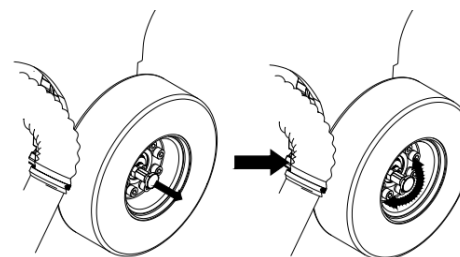
⚠ Notes:

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.

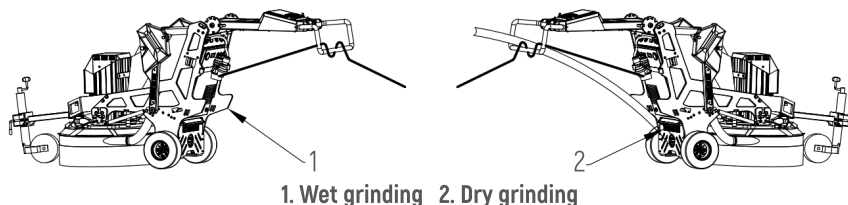
6.2 Start and stop the grinder

6.2.1 Manual mode operation

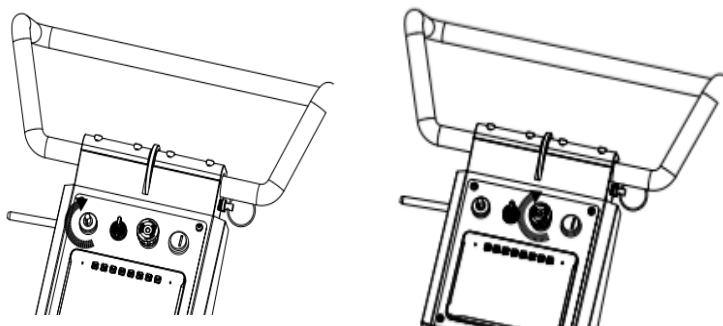
Unlock the self-locking indexing pin (for detailed introduction, please refer to see P17), adjust the counterweight (for detailed introduction, please refer to see P16), operation handle (for detailed introduction, please refer to see P13), handle (for detailed introduction, please refer to see P13) to the corresponding working position. Flip the front wheel up and fix it with pins and R-pins, or remove it (as shown in the adjusted figure below).



Plug in the power cord (before doing this, make sure the emergency stop switch is pressed and all switches have been reset); if it is dry grinding, connect the vacuum cleaner (if the vacuum cleaner shipped by HTG is equipped with a camlock, it can be quickly connected to the vacuum cleaner, for detailed operations, please refer to see P15); if it is wet grinding, fill the water tank with water, for detailed operations, please refer to see P15.



Turn on the emergency stop switch, wait for the HMI on the operation handle to display the interface, rotate the key switch on the electrical cabinet to switch from remote control/manual mode to manual mode, rotate the emergency stop switch, and rotate the motor forward - reverse switch, by rotating the speed regulator to adjust the motor's rotational speed, the machine can be started for grinding work.



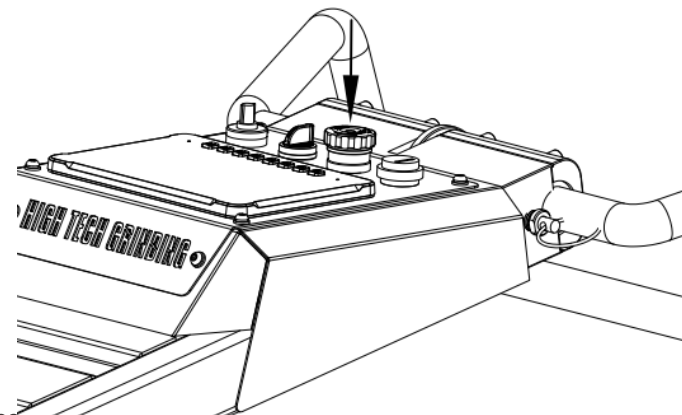
If performing wet grinding work, press the corresponding spray switch on the HMI according to your own needs.



If the machine is operated in a low-light environment, you can press the LED light switch on the HMI according to your own needs.



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

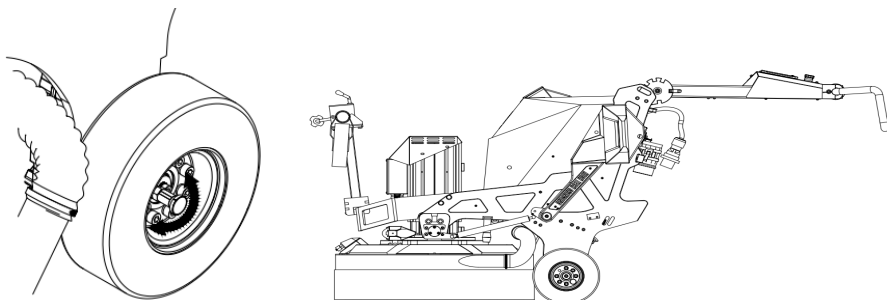


⚠ Notes:

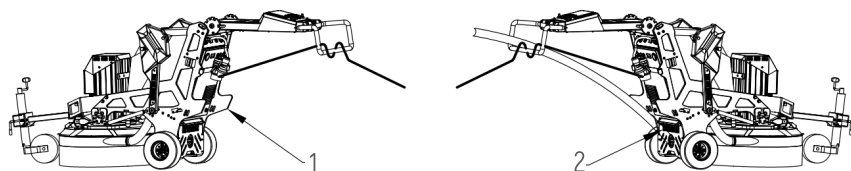
1. The grinder may only be used or repaired by personnel who have received the necessary theoretical and practical training and have carefully read the user manual.
2. Protective equipment must be used when operating the grinder, such as protective gloves, protective masks, work clothes, safety helmets,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

6.2.2 Remote control mode operation

Lock the self-locking indexing pin (for detailed introduction, please refer to see P17), adjust the counterweight (for detailed introduction, please refer to see P16), operation handle (for detailed introduction, please refer to see P13), handle (for detailed introduction, please refer to see P13) to the corresponding working position. Rotate the front wheel to the lowest position and flip it over, or remove it (as shown in the adjusted figure below).



Plug in the power cord (before doing this, make sure the emergency stop switch is pressed and all switches have been reset); if it is dry grinding, connect the vacuum cleaner (if the vacuum cleaner shipped by HTG is equipped with a camlock, it can be quickly connected to the vacuum cleaner, for detailed operations, please refer to see P15); if it is wet grinding, fill the water tank with water, for detailed operations, please refer to see P15.



1. Wet grinding 2. Dry grinding

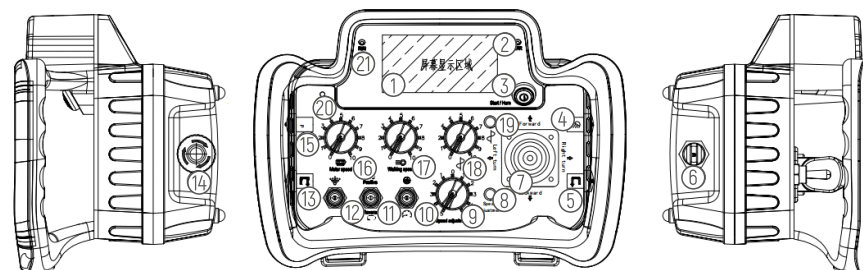
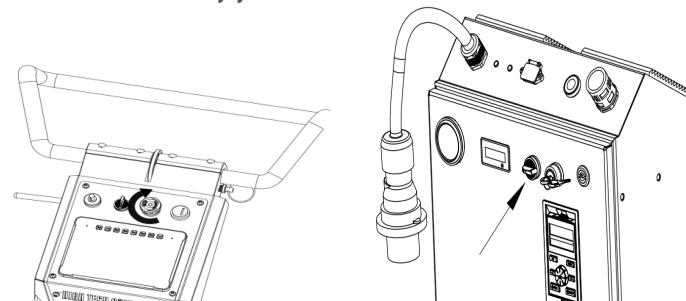
Take out the remote toolbox and hang the strap around your neck.



Turn on the emergency stop switch, wait for the HMI on the operation handle to display the interface, and press the remote control/manual mode switch on the HMI to switch it to remote control mode (a bright icon indicates that it has switched to remote control mode).

Operation in normal remote control mode:

Switch the two-position selector switch on the electrical cabinet to remote control mode, turn on the No. 14 emergency stop switch, press the No. 3 start button, and push the No. 11 motor forward - reverse switch to make the motor rotate forward (or backward). Rotate the No. 16 motor speed regulator and the No. 17 traction wheel speed regulator to adjust the motor speed and traction wheel speed respectively, and then start the machine for grinding work. Use the No. 7 directional control joystick to control the direction of the machine.

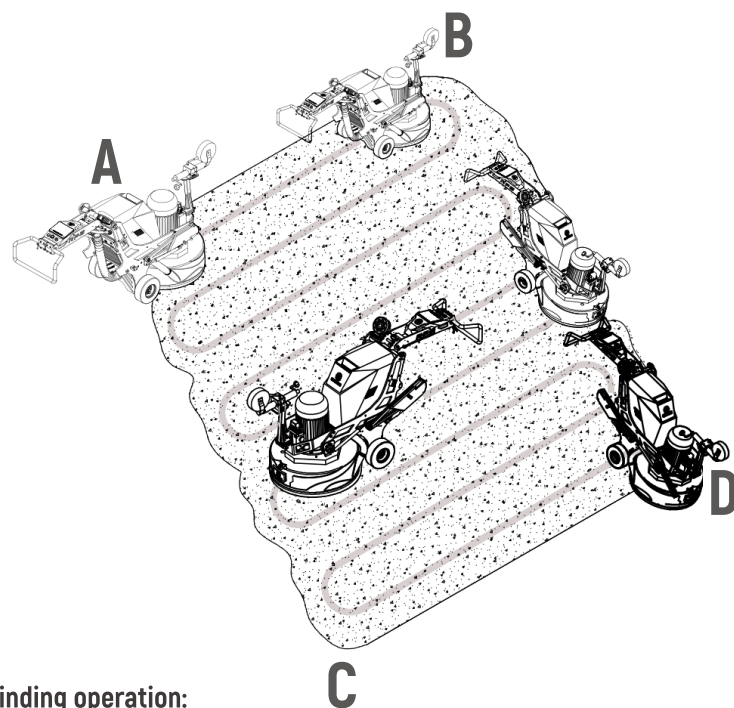
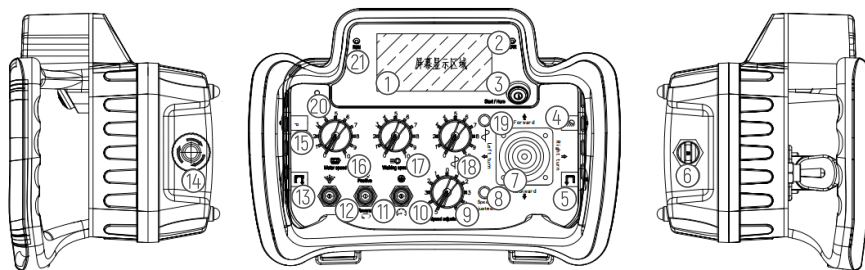


Memory grinding operation:

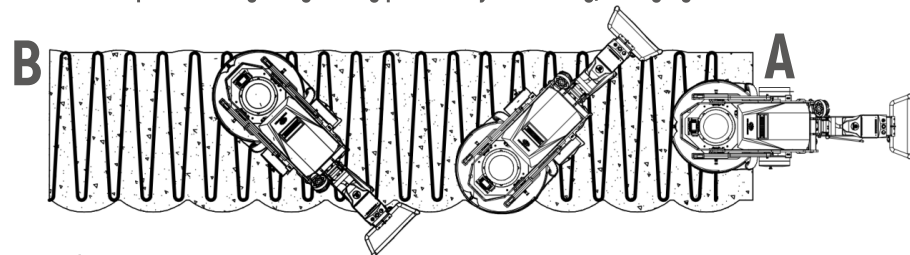
For example, there is an area ABCD, and the machine starts grinding at point A and ends grinding at point D. At point A, the machine must first rotate to turn on the No.14 emergency stop switch, press the No.3 start button, turn up the No.10 normal remote control/memory grinding mode switch to switch to the memory grinding mode, push the NO.11 motor forward - reverse switch forward to rotate the motor forward (backward to rotate the motor in reverse), and turn the NO.16 motor speed regulator and the NO.17 traction wheel speed regulator to adjust the motor speed and traction wheel speed respectively, turning the NO.7 directional control joystick forward controls the grinding direction of the machine, and start the machine to grind; when the grinder is approaching point B, press the No.13 U-turn right switch, and the machine will turn right to grind. After that, the machine will continue to automatically grind between points AB until the user stops at point D, and press the emergency stop switch of the operation handle to end the grinding work.

**Note:**

Due to different ground quality and conditions, there will be slight deviations when using the memory function, which requires manual adjustment. At the same time, at least 40cm of space should be reserved on both sides.

**Oscillation grinding operation:**

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

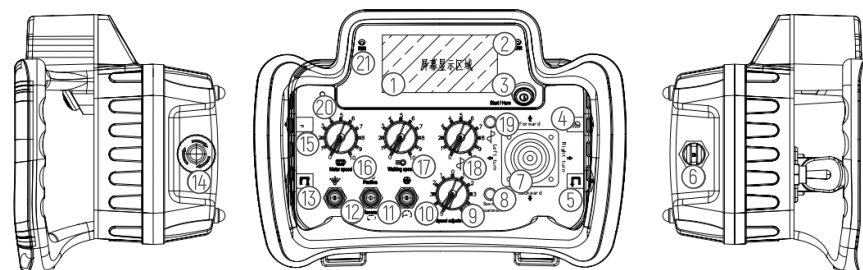
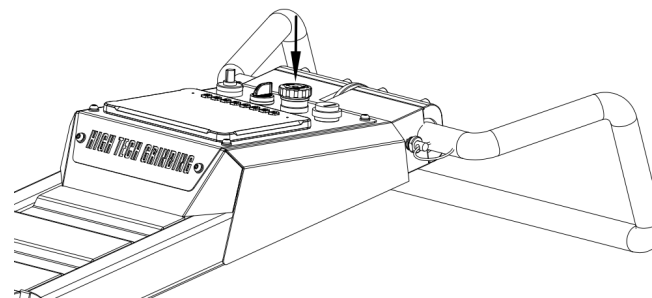


In case of wet grinding, press the No.12 spray switch on the remote controller according to your own needs.

If the machine is operated in a low light environment, you can press the NO.4 LED light switch on the remote controller according to your own needs.

Turn off the grinder:

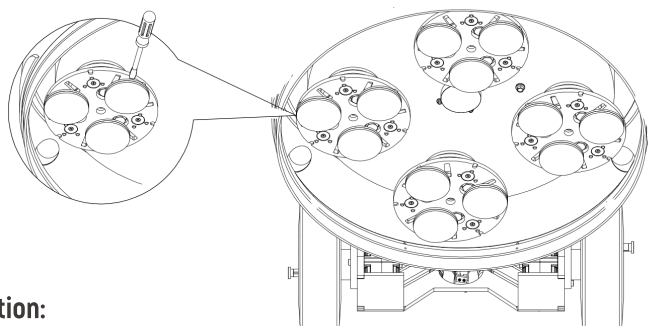
Press the emergency stop switch of the operation handle to stop the machine. Remember to reset all switches on the operation handle and remote control.

**Notice:**

1. When stopping the machine, it is recommended to unplug the power cord 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 control to ensure normal operation of the machine. Otherwise, the machine will not operate even if the power switch is turned on.
4. When using a remote control device, the remote control cannot leave the normal operating range of the machine. You can pay attention to the signal light on the remote control. Otherwise, if it is too far away, you will not be able to control the machine.
5. The grinding disc drive motor must be started before the direction joystick can be moved.
6. When the machine needs to stop working or in an emergency, press the emergency stop switch on the remote control transmitter.

6.2.3 Replace the abrasive

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



⚠ Attention:

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

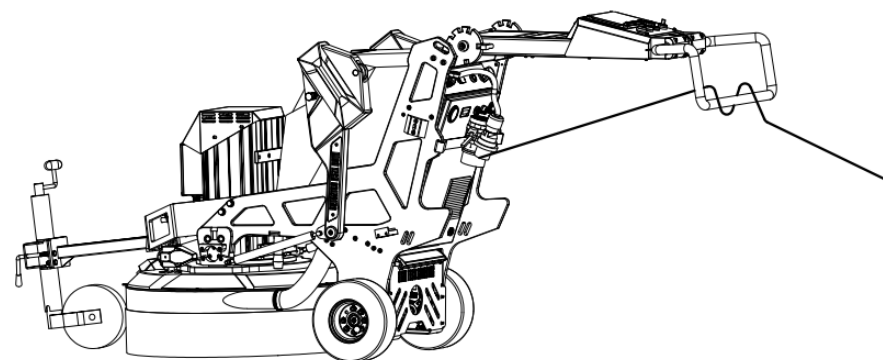
6.2.4 The winding method of machine working wire

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

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

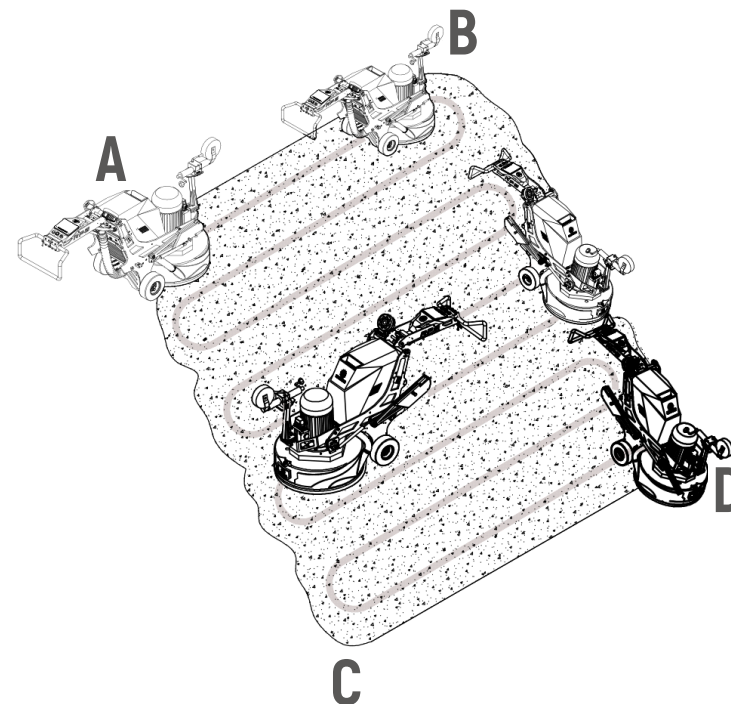
⚠ Notice:

1. Make sure the power plug and socket are firmly connected;
2. Before plugging in the power plug, make sure the emergency stop switch has been pressed and other switches have been reset;
3. Please use the power cord according to the minimum specifications of P50.
4. Please use the correct power supply.



6.2.5 Optimal grinding route

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



6.2.6 Notes

During the grinding process, you must pay attention to the battery indicator on the remote control. When the battery is low, you should replace the battery in time or stop grinding to charge the battery. Otherwise, HTG 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 on the remote control.

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

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

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

Before grinding, pay attention to resetting the clutch pin. If it is not reset properly, the machine will not move.

7. Machine maintenance

7.1 Overview

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

Notice:

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

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

7.2 Daily inspection

7.2.1 Check the switch

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

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

Notice:

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

7.2.2 Check the gearbox cover

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

7.2.3 Check the grinding disc

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

7.2.4 Long-term storage of battery

- During long-term storage, the battery should be maintained and charged once a month.
- If storing for more than 1 month, remove the battery from the remote control.

7.2.5 Notes

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

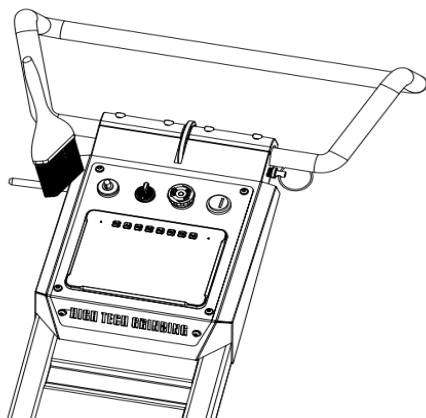
Inspection and maintenance can only be carried out after pressing the emergency stop switch and unplugging the power supply.

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

7.3 Cleanup

7.3.1 Clean the switch

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



7.3.2 Maintenance of remote control equipment

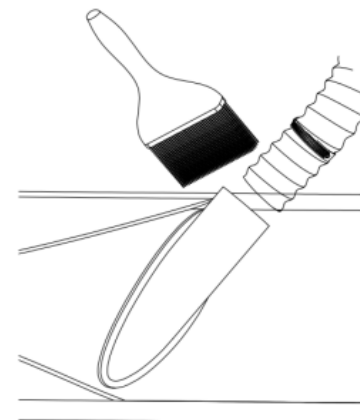
You can wipe the switch with a fine brush or soft, dry cotton cloth, but never rinse with water; Keep the battery compartment clean;

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

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

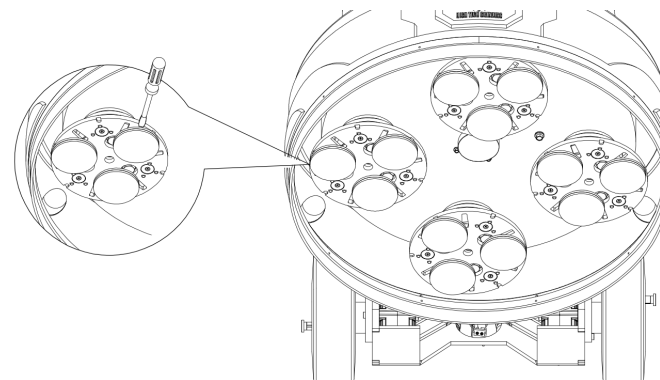
7.3.3 Clean the gearbox cover

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



7.3.4 Clean the Velcro-adapter

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



7.3.5 Notes

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

7.3.6 Abrasive wearing

Start the HMI and press the F5 to set the estimated grinding time of the grinding tool on the interface (for different abrasives, set the time based on your own experience).

This function is a countdown. When it approaches 0, the screen will show a warning "The abrasive has been consumed, please replace the abrasive". At this time, please check and replace the abrasive.

If the abrasive has not been consumed, please continue to set the usable time and press F1 to cancel the alarm and resume work!



7.4 Battery disposal

7.4.1 Overview

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

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

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

7.4.2 Battery

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

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

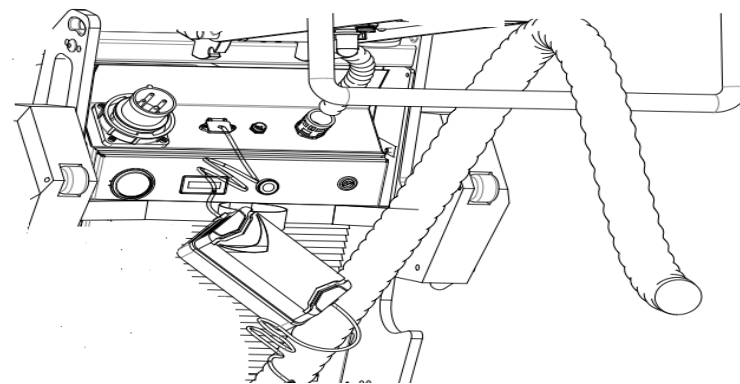
The machine battery needs to be charged using the charger provided by HTG. The model is a lead-acid battery which can support for 45 minutes. The charging time is about 4 hours.

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

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

⚠ Notice:

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



7.5 Overload protection

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

7.6 Repair

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

8. Common problems and solutions

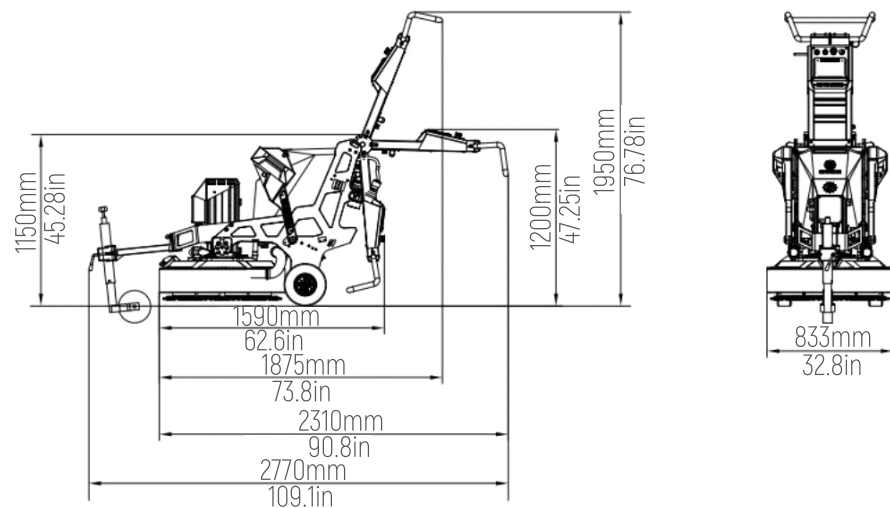
This chapter describes some possible faults and how to deal with them. If they cannot be solved or an error occurs, please contact your nearest retailer.

Problem	Possible cause	Solution
Cannot start the machine	The emergency stop switch is pressed	Release the emergency stop switch
	Motor is stuck	Troubleshooting motor jam
	Power system and cables are damaged	Contact a licensed electrician
	Not operating according to specifications	Refer to the operation instruction video
When turned on, the machine emits a low humming sound	Motor burnt out	Replace the motor
	Three-phase power failure	Contact a licensed electrician or check whether the input power is three-phase input
The machine is difficult to control or the motor consumes a lot of current	Too few diamonds under the machine or wrong type of tool applied	Use the number of diamonds recommended by HTG to reduce stress on the grinder and operator
Lead-acid battery built into the machine 1. Cannot charge when using three-phase power 2. Cannot charge when using dedicated charger	Three-phase power supply voltage is lower than 320V	Make sure the voltage is not less than 320V
	Lead-acid battery power is used up to 0	Charge for 2 hours using a dedicated charger
	The battery is damaged, or has been charged and discharged more times than its lifespan	Consider replacing the battery
	Dedicated charger is damaged	Replace the charger
Machine vibration	The diamond may not be installed correctly or at a different height	Correctly install diamonds with the same height
	Is the grinding disc flat?	Adjust and install the grinding disc
The machine moves forward or backward out of control	The clutch pin of the wheel is broken or there is no clutch pin	Replace or install a new clutch pin
	Servo motor, servo controller failure/remote control receiver failure	Contact HTG for repair
	Is the key way connecting the shaft and the drive damaged?	Check and contact HTG for repair or replacement of damaged key way

9. Technical data

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

Model	HTG-820RC	
Motor Power	18.5KW/25HP	
Rated Voltage	3P220V	3P380V
Rated Current	70.3A	39.3A
Input Hertz	50HZ/60HZ	
Inverter power	18.5KW/25HP	
Grinding Width	820mm/32.28in	
Grinding Disc Size	Φ278mm/Φ10.94in	
Grinding Speed	350-1950r/min	
Grinding Pressure (Counterweight in front)	361.5KG	
Grinding Pressure (Counterweight in the middle)	263KG	
Grinding Pressure (Counterweight at the back)	250KG	
Dimensions (Tilt position) Length × Width × Height	1875×833×1950mm/73.80×32.80×76.78in	
Dimensions (Working position) Length × Width × Height	2310×833 ×1200mm/90.95×32.80×47.25in	
Dimensions (Packaging position) Length × Width × Height	1590×833×1150mm/62.60×32.80×45.28in	
Longest × Widest × Highest	2310×833 ×1950mm/90.95×32.80×76.78in	
Machine Weight	620KG	
Wire Type	10mm ²	
Storage Temperature	-20~+60°C/-4~+104°F	
Operating Temperature	-10~+40°C/+14~+104°F	
Humidity	Below 95% (no condensation)	



10. Warranty

Warranty Policy

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