

Cleaning and polishing machine
LAVINA C1-L27
Instruction manual

Thank you for purchasing our product, please read this manual carefully before use, and operate in strict accordance with the requirements of the product manual. After reading, please keep it in a safe place for future reference.

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1 Overview

1.1 Overview

LAVINA Cleaning & Polishing Machine is used for the cleaning and polishing of floor surfaces. This manual introduces the cleaning & polishing machine's information of the function usage, maintenance, cautions and other information. In order to use cleaning & polishing machine safely and efficiently, please read this manual carefully and be familiar with it before your operation. Please keep this manual properly for your future reference.

This manual introduces the C Series Cleaning & Polishing Machine of LAVINA. The illustrations in the book are based on the C1-L27 model, other models can refer to the illustrations and actual models. If you need contact inquiries, please contact your local service dealer or LAVINA sales and service personnel.

1.2 Accessory List

- ① Cleaning & Polishing machine 1 set
- ② Machine manual 1 copy
- ③ Frequency converter manual 1 copy
- ④ 1 toolbox with tool kit inside

1.3 Goods Acceptance

When you receive the goods, please check the packaging and equipment carefully for any shipping damage.

If you find any signs of damage to the equipment, please contact your local distributor or LAVINA sales and service personnel. If there is damage to the packaging, please provide feedback to the transporter on the damage to the packaging in a timely manner.

Please check carefully about whether the delivery is in accordance with order and whether the accessories are complete. If there are any questions, please contact your local distributors or LAVINA sales and service personnel.

1.4 Equipment Nameplate

Brand			
Name			
Model		Size	
Motor		Serial no.	
Voltage		Year of production	
Weight		Exfactory date	

1.5 Cautions

In order to keep personal safety and avoid equipment damage, it is necessary to pay attention to the important safety information contained in this manual, and please be sure to observe all the safety content.

Cautions Related to Electricity Consumption



Do not pull the power cord when inserting or removing the power plug, must always hold the plastic end tightly to connect or pull it out, and do not use it when the power supply is broken or the plug is worn out. If the power cord is worn or damaged, it must be repaired or replaced.



Please use the standard special power socket alone, this socket should not be used with other electrical appliances. Power plug should maintain firm contact with the socket, otherwise it may lead to fire or other safety hazards. Please be sure to ensure that the socket grounding electrode has a reliable ground wire.



For the reason of ensuring safety, it is forbidden to place any items and power cables on top of the motor. It is available to hung cable securely by means of an overhead pole device.



When the power is off, the power plug should be unplugged to prevent the motor life from being affected by long standby power.

Security Warnings Related to Use



Private modifications are strictly forbidden and maintenance of the grinder must be carried out by professionals. If the internal machinery is damaged, to avoid risk, it should be replaced by the manufacturer's maintenance department or by the relevant professional.



Do not flush or spray the motor with water; do not leave the grinder in a damp place where water is easily splashed for a long time, so as not to affect the insulation performance of the grinder motor.



Before using the cleaning & polishing machine, please make sure there are no obstructions around and keep the running track unblocked.



During the use of the grinder, please press the [Emergency Stop Switch to Stop] button to stop working in case of an accident.



When running on the slope(Maximum slope 15°), it needs to be more vigilant to drive the equipment slowly; when operating along the slope downward, the head of the equipment should run in the opposite direction; when operating along the slope upward, the head of the equipment should run in the positive direction.

Qualified Professional

Only qualified personnel who meet all work requirements are allowed to operate, and their operation must also comply with the relevant operating instructions, especially the safety and warning instructions in it. When working, you should not wear too loose clothing and accessories to avoid pulling clothes during the operation of the equipment; you should be equipped with professional protective equipment, such as goggles, protective gloves, safety shoes, protective masks, protective earmuffs and so on.

1.6 Warranty Coverage

The product warranty period is one year. It starts from the date of leaving factory.

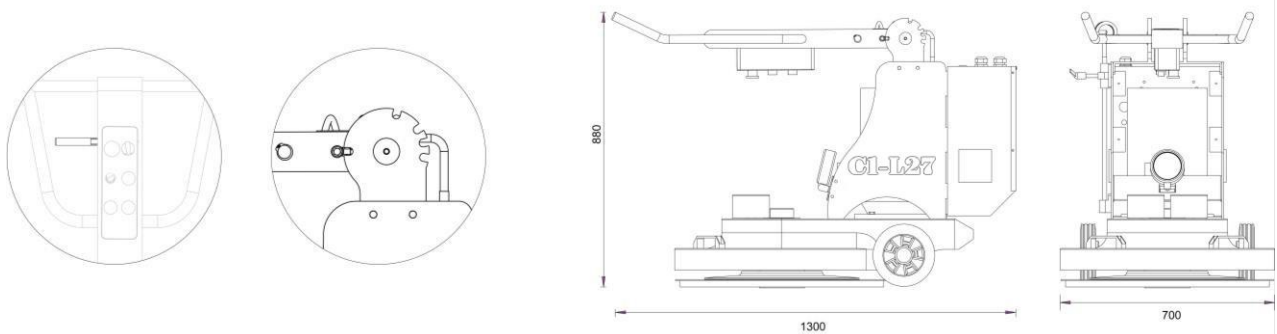
We are not responsible for any direct, indirect, intentional or unintentional damage and hidden problems caused by improper use, over-specification use, private disassembly, or modification. Under no circumstances will the company be liable for indirect damage or costs incurred in shipping, unpacking and other condition. Please contact your local distributors if they have special warranty terms.

1.7 Equipment Transportation

 When transporting, please fix the equipment on pallets or other fixtures for transportation so as to avoid damage during transportation and unnecessary losses.

1.8 Minimum Package Size

When packing or transport space is limited, the crank arm adjusting handle can be adjusted to the higher position, so that the equipment can reach the minimum floor area or packing size.



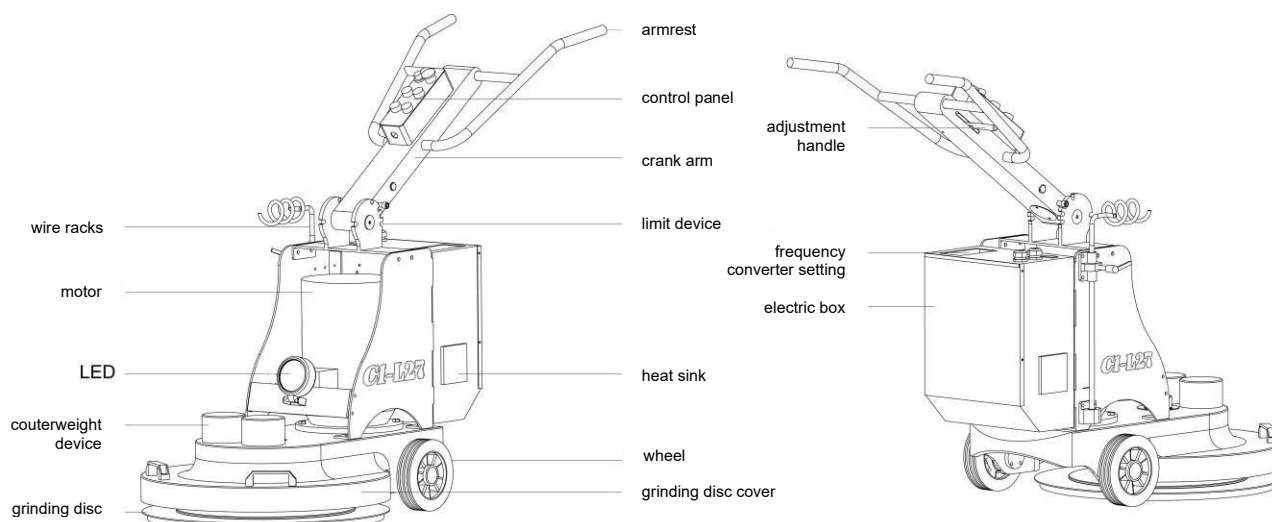
C1-L27 Minimum Package Size

1.9 Disclaimers

The company is responsible for revising this manual and reserve the right to correct or change information. No additional notice will be given in the event of subsequent changes to the product; we will endeavor to make this manual as complete and accurate as possible, but will not be held responsible for any errors or missing information. This manual is copyrighted by LAVINA, no part of this manual may be reproduced for use in any way without permission.

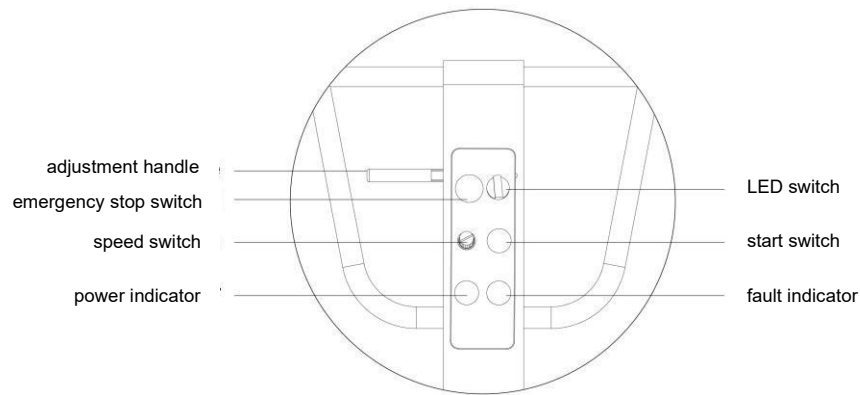
2 Product Structure

2.1 Whole Machine Structure



* Some features and accessories may not be exactly the same as this illustration when ordering, please refer to the actual arrival of the goods

2.2 Handle Control Panel Button Functions



2.2.1 Emergency Stop Switch: When starting the equipment, you need to open the emergency stop switch first; when stopping the equipment, close and reset all the switches and then close the emergency stop switch at last; when the equipment is running, if there is an emergency, you can press the emergency stop switch to cut off the power of the equipment to protect personal and equipment safety.

2.2.2 Start Switch: Press the start switch, the motor starts and the equipment starts to run.

2.2.3 Speed Switch: Slowly rotate the speed control switch to increase the motor speed to reach the corresponding working rotation speed.

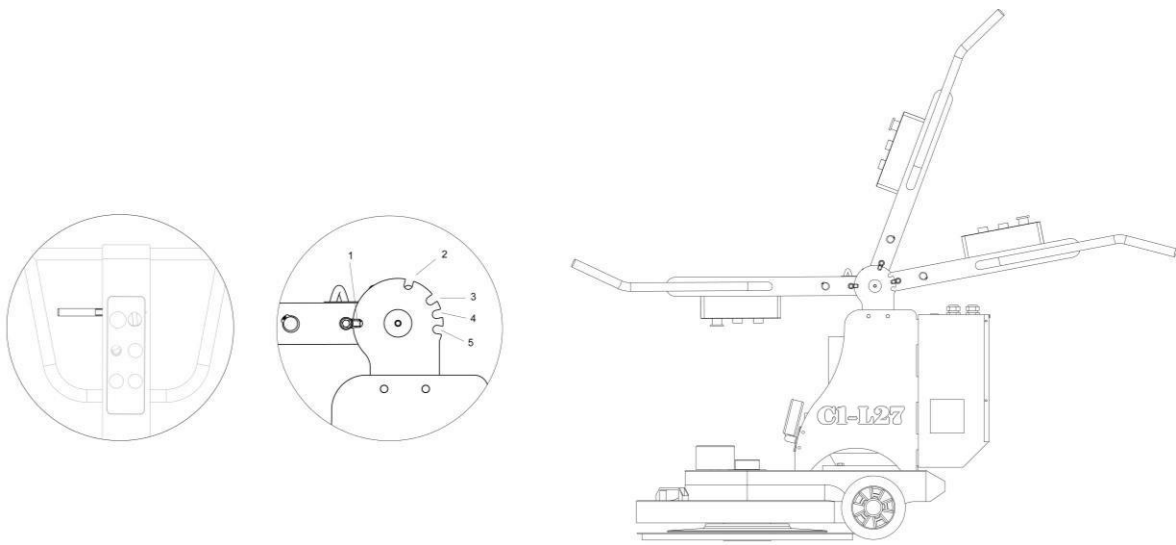
2.2.4 LED Switch: In case of insufficient light or night construction, rotate to open LED lights for illumination.

2.2.5 Power Indicator: When the emergency stop switch is turned on, the power indicator lights up.

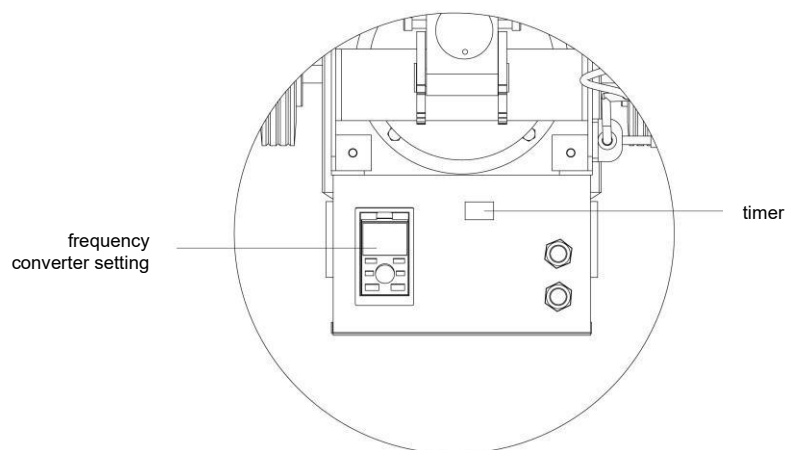
2.2.6 Fault Indicator: When there is a fault in the equipment, the fault light comes on, then the equipment should be stopped immediately and the fault should be investigated before continuing to run the equipment.

2.2.7 Crank Arm Angle Adjustment Handler: It is a limiting device for adjusting the angle of the crank arm. Pull up the handle and adjust the crank arm to the desired gear of the current working state.

2.3 Crank Arm Angle Adjustment (Five gears)

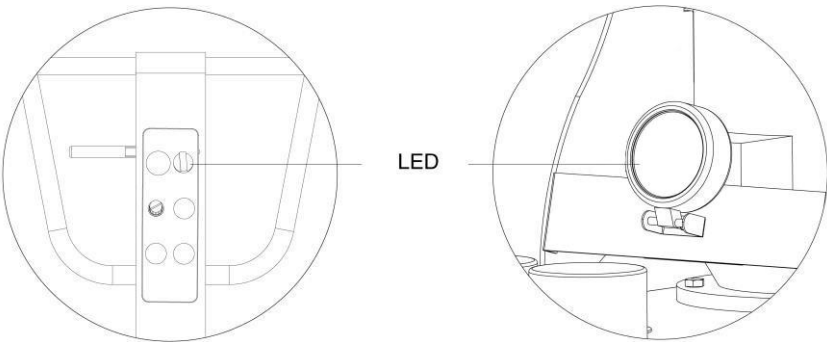


2.4 Frequency Converter



The frequency converter has been set to match the professional settings of the equipment at the factory, so non-professionals should not change the relevant settings; for reference, please refer to the supplied frequency converter manual; you can check the running time of the equipment through the timer outside the inverter box.

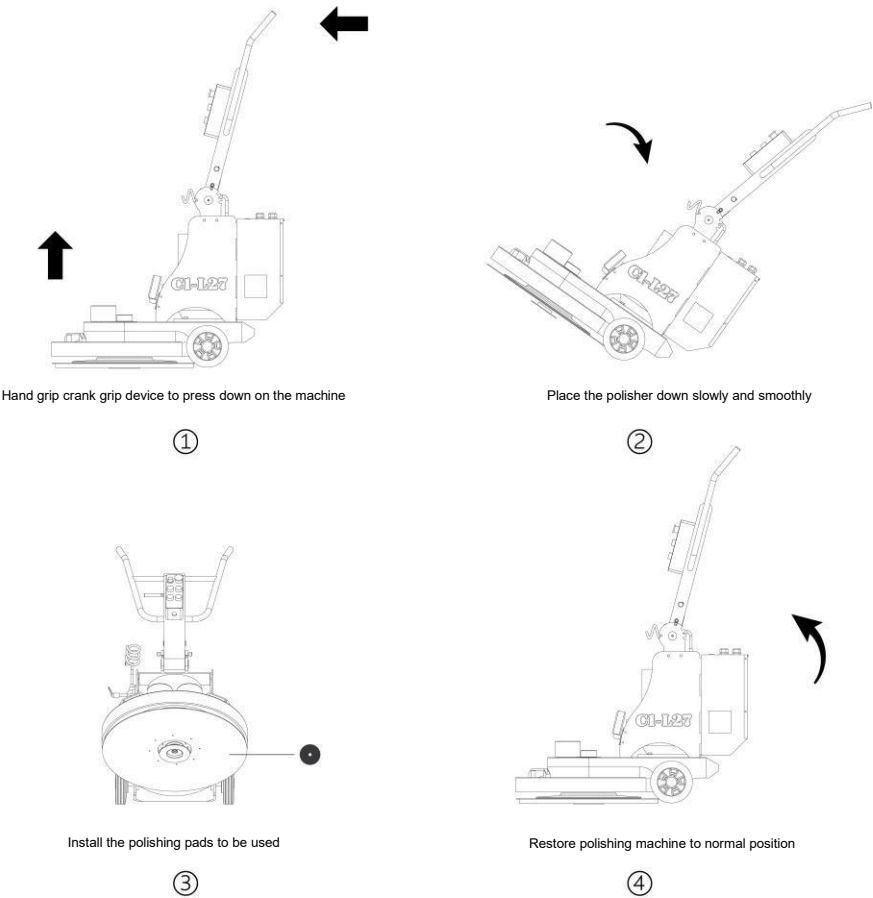
2.5 LED Lighting



In case of insufficient light or night construction, the LED light switch on the control panel of the handle can be turned on by rotation.

3 Operation and Use

3.1 Installation/replacement of cleaning and polishing pads



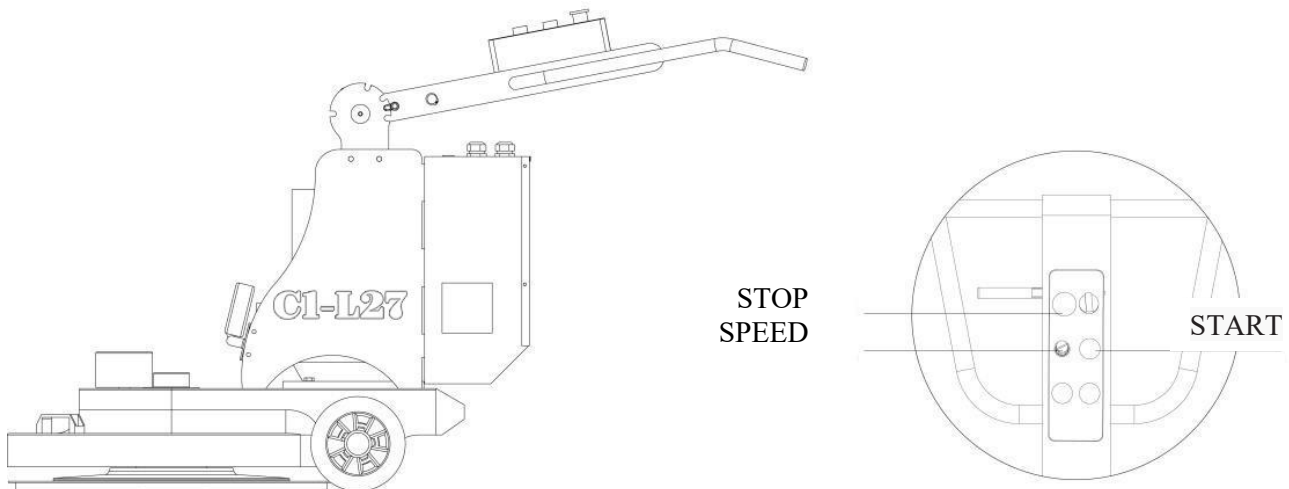
3.1.1 When installing or replacing polishing pads, place the equipment down smoothly and never on sloped floors.

3.1.2 When the equipment is working, the grinding disc and polishing pads will generate high temperature, so pay attention to avoid burns when replacing the polishing pads.

3.1.3 Make sure the polishing pads are installed or replaced with the power unplugged and the emergency stop switch off.

3.1.4 Open and remove the plastic round fixing device of the middle spacer of the grinding disc, align the grinding disc around for installation or replace the polishing spacer, and press the middle spacer fixing device of the grinding disc back into position after installation.

3.2 Start/Stop Operation Procedure Schematic



3.2.1 Before starting the equipment, adjust the crank arm to the corresponding working condition.

3.2.2 Rotate on the emergency stop switch, press the start switch, slowly rotate the speed switch, increase the motor speed to reach the corresponding working speed, and push the equipment forward or backward with the armrest in hand.

3.2.3 When stopping the polishing machine, you need to slowly rotate the speed switch to the off state, then close the start switch, and finally press the emergency stop switch to stop the machine.

3.2.4 When stopping the device, please disconnect the power for safety reason.

3.3 Common Problems and Solutions

The summary describes some possible failures and how to deal with them. If you fail to get a solution or there are other situations, please contact your local distributors or LAVINA sales and service personnel.

Questions	Possible Reasons	Solutions
Machine does not start or there is a strange noise	Emergency stop switch not turned on	Open the emergency stop switch, check if all switches are in reset state before opening
	Motor overload Frequency converter display o.L.1	Turn off all switches, disconnect the power supply and then re- connect later

Machine does not start or there is a strange noise	Motor overload Frequency converter display o.L.2	Turn off all switches, disconnect the power supply and re-connect later
	The power connector is not connected tightly or the power cord is damaged	Check if the power connector is stuck tight or replace the power cord
	Out of phase input Frequency converter display Err2	Connect to the correct Three-phase input power
	Motor damage	Contact the manufacturer for repair or replacement
Machine shaking or skipping	Polishing pads are not properly installed	Check or reinstall
	Whether the chassis of the grinding disc is flat	Adjustment of chassis flatness

If there are other problems or questions encountered during the use and operation, please check and read this manual and the manual of the inverter in detail, which may be helpful for the problems or questions encountered.

4 Maintenance and Care

4.1 Method and Steps

4.1.1 When the daily work is finished, the equipment should be routinely cleaned.

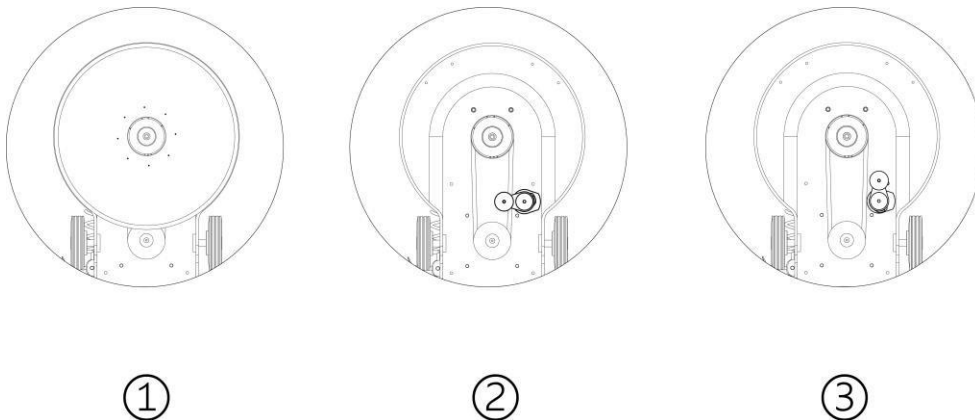
Mainly clean the sticky dust on the waterproof cover grinding disc to avoid affecting the effect of using the next process and to improve the efficiency of the next day.

4.1.2 Every site needs a routine check of the cleaning and polishing machine, to tighten the screws connected in the machine and check the screws of the bottom grinding disc for looseness.

4.1.3 Regularly check the motor and grinding disc bearing running coupling belt, and replace it immediately in case of wear.

4.1.4 When using a new machine, do not overuse it, otherwise it will cause some damage to the motor.

4.2 Running joint belt replacement



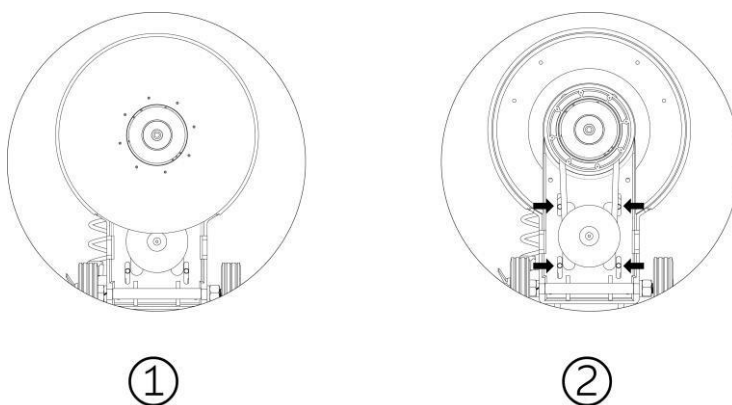
C1-L27 Running joint belt replacement

4.2.1 Put the equipment down smoothly, unscrew the middle screw of the grinding disc and remove the grinding disc.

4.2.2 Rotate the tensioner roller sideways to loosen and remove the belt.

4.2.3 Put the replacement belt back on as it was and rotate the tensioner pulley to tighten the belt.

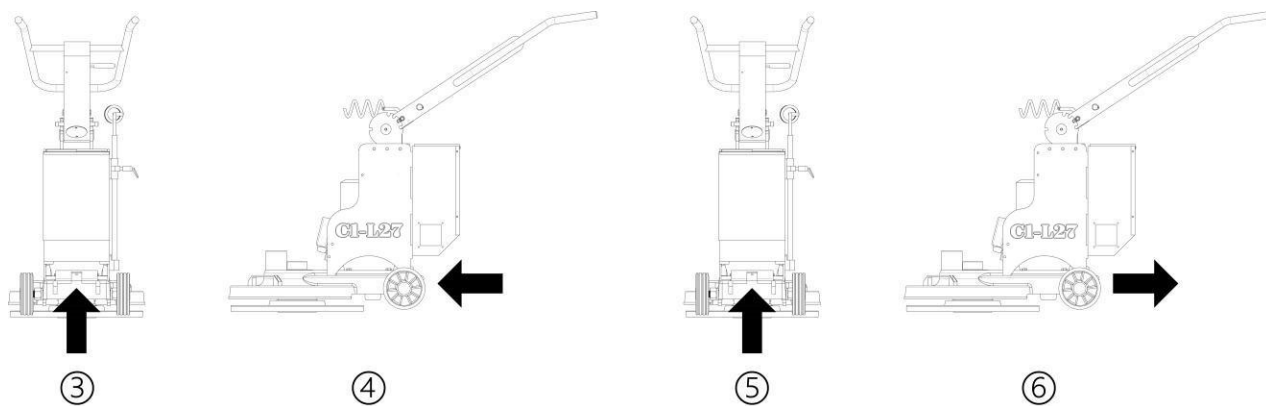
4.2.4 Put back the grinding disc, fix the middle screw of the grinding disc, the belt replacement is completed.



CC Running joint belt replacement

4.2.5 Put the equipment down smoothly, unscrew the middle screw of the grinding disc and remove the grinding disc. (Illustration ①).

4.2.6 Loosen the motor slider to tighten the screws (Illustration ②).



4.2.7 Unscrew the fastening screw of the motor sliding device at the rear of the equipment (Illustration ③), and the sliding device will slide inward (Illustration ④), at which time the belt will be loosened; put the equipment down smoothly to remove the belt.

4.2.8 Put the replacement belt back as it is, restore the normal state of the equipment, screw back the fastening screw of the motor sliding device at the rear of the equipment (Illustration ⑤), and the sliding device will slide outward (Illustration ⑥), at which time the belt is pulled tight.

4.2.9 Put the equipment down smoothly, tighten the motor sliding device fastening screw, put back the grinding plate, fix the middle screw of the grinding plate, the belt replacement is completed.

5 Technical Parameters

Project / Model		CC	C1-L27
		Parameters	
Whole machine	Motor (HP)	5.5	10
	Voltage (V)	380/220	380/220
	Electricity (A)	30/51	30/51
	Grinding disc speed (RPM)	0 ~ 1800	0 ~ 1800
	Frequency converter (HP)	5.5	10
Accessories	Amount of grinding discs	1	1
	Amount of grind segment	1	1
	Grinding width (IN)	20	27