GAZELLE®

GC2070

Rebar Cutter
User Manual

WARNING

This tool is dangerous to operate. Please read this manual carefully before use to avoid serious personal injury and property loss caused by improper operation. If you have any questions, please contact your nearest authorized agency.

TABLE OF CONTENTS

Read, undersatnd and follow all safety instructions and operating procedures. If you do not understand the instructions, or if conditions are not correct for proper operation, DO NOT OPERATE THE MACHINE. Consult your supervisor or other responsible person.

I. SAFETY REGULATIOONS AND PRECAUTIONS

WARNING

• Before operating this device, please read and understand this user manual.
• Failure to follow the operating instruction may result in injury or serious injury accidents.

Warning symbols related to safety

Danger of splashing debris or cutting noise, please wear and eye protection

Do not approach the operating equipment with your hads. Please turn off the power and remove the battery before maintenance

Symbols

Before operating this device, please read and understand the meanings of all the symbols.
Failure to follow the operating instructions may result in injury or serious injury accidents.

Save these Instructions

Meaning of "caution" and "warning" indications

Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. This is also used to alert against unsafe practices associated with events that could lead to personal injury.

Warning: Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

*****We shall not be responsible for any incidental damages or personal injuries resulting from negligence of Warnings and Safety Instructions contained in the Instruction Manual.**

II. GENERAL POWER TOOL SAFETY WARNINGS

• Read all safety warning, instructions, illustrations and specifications provided with this power tools.
• Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
• Save all warnings and instructiions for future reference.

1. Read this manual carefully before use.

2. Scope of application

• Rebar Cutter is mainly used for cutting off all kinds of common carbon steel, hot-rolled round steel, screw thread steel, flat steel, square steel etc.

3. Please use only the charger and battery specified in this manual.

• Any combination other than those specified in this manual may result in personal injury or damage due to explosion.

4. Charge properly.

• Use the charger only at ratedAC power. Do not use a step-up transformer, car generator, or use this charger to supply DC power. Incorrect use can lead to overheating and fire.

• Do not charge the battery at temperatures below 10ºC (50ºF0 or above 40°C (104°F) as this may cause an explosion or fire.

5. Do not short-circuit the pins of the battery. Avoid placing the battery in the same container with other metal objects such as nails, coins, etc., otherwise short circuits may cause overheating, fire and explosion.

6. Prevent electric shock.

• Do not touch the power plug with wet hands as this may cause electric shock.

7. Please pay attention to the working environment.

• Do not expose charger and battery to rain or use in humid environments as this may cause overheating or electric shock

• Keep the work area well lit. Working in low-liight environments can lead to accidents.

• Do not use or charge batteries near flammable liquids or gases, as this may cause an explosion or fire.

8. Please wear goggles and protective clothing.

• Wear goggles, dust covers, non-slip safety shoes, helmets ans other mandatory or necessary protective clothing at all times when using the device. Failure to do so will result in personal injury.

9. Prevent accidental startup.

• Before connecting to the battery pack, picking up or handling the tool, make sure the switch is in the off positioon. Placing your finger on the switch while handling a tool can cause accidents.

10. Safety barrier and operation process control

- Set up safety net to prevent the broken head from fallingand injuring others. Before working at height, please use safety rope to connect the machine with construction frame or set up safety net. Before using, check working environment and equpment again to ensure that all adjustment wrenches have been put away. During operation, hold the achine tightly and keep balance. Do not extend it excessively in case machine falling or personal injury caused by unstable center of gravity.

11. Remove the battery to disconnect power from the tool when any of the following conditions occur.

- Tools are out of service or under repair.
- Parts such as blades are being replaced.
- There is a danger of being identified.

Failure to do so may result in accidental operation, damage, or personal injury.

12. Use only specified accessories or devices.

- Use only the accessories or devices described in this manual. The use of other brand accessories or devices may result in accidents or personal injury.

13. Do not expose the battery to fire as the battery may explode or produce toxic substances.

14. When overused, liquid may spill from battery, please avoid contact.

- In case of accidental contact with battery leakage, rinse with clean water.
- If liquid comes into contact with eyes, rinse with clean water and seek medical attention immediately, as this can cause blindness.

15. If the machine running time becomes too short, stop using it immediately. There is a risk of overheating, which can lead to fire or even explosion.

WORK AREA SAFETY

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.

2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

- Power tools create sparks which may ignite the dust or fumes.

3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

4. Store idle power tools correctly.

- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Do not store and use the tool and battery in locations where the temperature may reach or exceed 50°C(122°F), such as metal boxes and cars in summer. It may shorten the service life of the battery or cause smoke and fire.

5.Do not abuse power tools.

- Use the tool at an appropriate speed and according to its designed purpose. Cutting too fast may cause machine damage or personal injury.
- Do not use the tool in such a way that the motor is not energized, otherwise it may cause smoke and f ire.

6. Use electric tools for proper use.

- According to this manual, use electric tools, devices and blades according to operating conditions and operating characteristics. Do not use tools for large-scale operations. Personal injury will be caused when used in applications other than these design purposes.

7. Dress properly.

- Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- Wear rubber gloves and non-slip safety shoes when operating electric tools outdoors. Slippery gloves or shoes may cause personal injury.

8. Do not abuse the cord.

- Never use the cord for carrying, pulling or unplugging the power tool.
- Keep cord away from heat, oil, sharp edges or moving parts.
- When laying the power cord, make sure it is not trampled, tripped or subjected to other damage or pressure. Damaged or entangled cords increase the risk of electric shock.

9. Don't stretch your hand too long when operating.

- Please keep your feet steady and keep your balance. In this way, the tool can be better controlled under unexpected circumstances.

10. Maintain power tools and accessories.

- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control. Damaged blades may cause personal injury.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- Check the charger›s power cord regularly. The damaged power cord will increase the risk of electric shock or short circuit, leading to fire.

11. Remove any adjusting key or wrench before turning the power tool on.

- A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

12. When charging outdoors, use rubber insulated cord or rubber insulated extension cord.

- Only use the accessories or devices described in the catalogue of this manual. If you use other brand accessories or devices, it may lead to accidents or personal injury.

13. Stay alert, watch what you are doing and use common sense when operating a power tool.

- Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

14. Check whether the parts are damaged before use.

- Check whether the safety cover and other components that may affect the function of the tool are broken or damaged. If it is damaged, it should be replaced or repaired before use.
- Check whether the moving parts are adjusted in place or stuck, and check the damage of parts and other conditions that affect the operation of power tools. If it is damaged, repair the electric tools before use. Many accidents are caused by poorly maintained power tools.
- Do not use damaged extension cord. If it is damaged, it should be replaced before use. Using the damaged extension cord will increase the risk of electric shock or short circuit, leading to fire.
- Do not use the charger if the power cord or plug is damaged or the charger is dropped or damaged. The damaged charger will increase the risk of electric shock or short circuit, leading to fire.
- Do not use a tool if its switch cannot turn it on and off. Electric tools that cannot be controlled by switches are very dangerous and must be repaired.
- Lubricate and replace accessories according to the instructions.
- Disconnect the battery from the power tool before making any adjustment or replacing accessories. This protective safety measure reduces the risk of accidental starting of power tools.

15. Please hand over your electric tools to qualified professional maintenance personnel, and only use replacement parts that are the same as the original parts. This ensures the safety of the tool.

- Do not disassemble or modify the battery and charger.
- The design of the power tool meets the safety specifications. Do not modify power tools.
- If the power tool is overheated or any other unusual symptoms are found, please repair the tool.
- Do not allow unqualified personnel to repair tools, as this may damage the safety of tools and lead to accidents and personal injuries.

ELECTRICAL SAFETY

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.

- Unmodified plugs and matching outlets will reduce risk of electric shock.

2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.

- There is an increased risk of electric shock if your body is earthed or grounded.

3. Do not expose power tools to rain or wet conditions.

- Water entering a power tool will increase the risk of electric shock.

4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.

- Damaged or entangled cords increase the risk of electric shock.

5. When operating a power tool outdoors, use an extension cord suitable for outdoor use.

- Use of a cord suitable for outdoor use reduces the risk of electric shock.

6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.

- Use of an RCD reduces the risk of electric shock.

PERSONAL SAFETY

1. Use personal protective equipment. Always wear eye protection.

- Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

2. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.

- Use of dust collection can reduce dust-related hazards.

BATTERY TOOL USE AND CARE

1. Recharge only with the charger specified by the manufacturer.

- A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

2. Use power tools only with specifically designated battery packs.

- Use of any other battery packs may create a risk of injury and fire.

3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.

- Shorting the battery terminals together may cause burns or a fire.

4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, FLUSH with water. If liquid contacts eyes, additionally seek medical help.

- Liquid ejected from the battery may cause irritation or burns.

5. Do not short the battery. A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

- Do not touch the terminals with any conductive material.
- Avoid storing battery in a container with other metal objects such as nails, coins, etc.
- Do not expose battery to water or rain.
- Do not cut the cord.

6. Do not operate tools or charge batteries in an explosive environment with paint, benzene, thinner, gasoline, gas or adhesive nearby. This may lead to explosion or fire.

7. When charging the battery, do not put it on paper, cardboard, cloth, cushion, mat, carpet, plastic or dust. This may lead to a fire.

8. Do not expose the charger to water or metal objects, which will short-circuit the charging terminal.

9. Do not use the charger for other purposes than charging the battery.

10. Make sure that there are no chips or cracks on the blade before using the tool.

11. Do not use water or oil when cutting.

12. Only use the original blade of our company.

13. Do not leave tools on the floor when the trigger lock is unlocked. Otherwise, the tool will run continuously and may cause personal injury.

14. Please don›t operate tools near inflammable and fragile articles or people irrelevant to the operation. When cutting, hot chips and sparks will be splashed from the tool, which may damage the environment, lead to fire or personal injury.

15. Do not cut concrete. This can damage tools and may cause personal injury.

16. When operating at heights, check whether there is anyone on the ground. Any dropped materials or tools may cause accidents.

17. If abnormal heat is generated during charging, disconnect the battery to stop charging immediately. Continued charging may cause smoke, fire or explosion.

18. Please don›t make anything cover or obstruct the motor ventilation hole. This will cause the motor to overheat.

19. If an extension cord is used on the charger, it is recommended to use a wire with the following cross-sectional specifications and as short as possible. When charging outdoors, use cord suitable for outdoor use.

Usable cord size and maximum length:

Cord Size (Nominal Cross-Sectional Area of Cord)	Maximum Cord Length
0.74 mm^2	20 m
1.25 mm^2	30 m

III. WARNIING FOR USING BLADES

WORK AREA SAFETY

1. When using the machine, the operator must maintain a safe distance between their hands and other parts of their body and the blade to avoid injury.

2. During operation, non operators should maintain a safe distance from the work area to ensure their own safety, and should not interfere with the operator›s work to avoid distractions. Non operators are not allowed to use this tool without permission.

3. Sparking may occur when cutting with blade. Do not use the tool where there is the risk of fire or explosion.

4. Cutting with blade is noisy. Consider the work area environment.

DRESS PROTECTIVE EQUIPMENT

5. Wear protective equipment: goggles, safety shoes, dust cover, and helmet. Even if a safety net is installed, damaged blades or hot debris may splash and cause personal injury.

6. Dress properly. Do not wear a tie, loose clothing or knit gloves. Keep hair covered with a hair cover or a cap to be away from moving parts.

BEFORE USE

7. Ensure that blades are not deformed, chipped, cracked or worn-out. Do not use a blade if any damage or wear is found. Cutting under such conditions may cause further damage to the blades and serious personal injury.

8. Do not use the blade for any application other than that stated in the tool specification. Using the blade for other applications can cause excessive wear, detachment of blades, low cutting performance and abnormal generation of heat, resulting in damage to the blades and serious personal injury.

BLADE REPLACEMENT

9. When replacing the blade, ensure that the battery is removed from the tool to prevent accidental operation and personal injury.

10. Ensure there is no one in the surroundings before operation and no abnormal sounds or abnormal vibrations occur when operating. Operating with abnormal sounds or abnormal vibrations can damage the blades resulting in serious personal injury.

DURING OPERATION

11. Do not use the blade for any purpose other than cutting. Do not subject the blades to damage or stress. It can break the blades resulting in serious personal injury.

12. Place the material correctly before starting work. If the material is placed into the cutting mouth uncorrecity when the motor is started, it may lead to serious personal injury.

13. Please do not cut obliquely, and do not use the blade to strike the object or use it for other purposes.

14. If during cutting, there is an abnormal sound, abnormal vibration, or if the cutting parts are badly worn, stop operation. Continuing the operation under such conditions will damage the blades with the result that chips may be ejected causing serious personal injury.

15. Continuous operation makes the blade hot and reduces the cutting performances.

MAINTENANCE

16. If there is deformation, a crack or damage on the blade, stop the operation. Continuing the operation under such conditions will further damage the blade which may break up. Ejected broken parts can cause serious personal injury.

17. Only keep and use blades that are in good condition and the blades sharp and clean.

⚠ WARNING

- Always wear protective equipment: safety glasses, safety shoes, dust mask and helmet.
- Use only specific blade. Using non-specific parts may damage the tool and can result in serious accident or injury.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY

1. Before using battery, read all instructions and cautionary markings on battery charger, battery, and product using battery.

2. Do not disassemble or tamper the battery. It may result in a fire, excessive heat, or explosion.

3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.

4. If electrolyte gets into your eyes, rinse them out with clean water and seek medical attention right away. Otherwise it may result in loss of your eyesight.

5. Do not short the battery:

(1) Do not touch the terminals with any conductive material.

(2) Avoid storing battery in a container with other metal objects such as nails, coins, etc.

(3) Do not expose battery to water or rain.

6. Do not store and use the tool and battery in locations where the temperature may reach or exceed 50°C (122 °F).

7. Do not incinerate the battery even if it is severely damaged or is completely worn out. The battery can explode in a fire.

8. Do not nail, cut, crush, throw, drop the battery, or hit against a hard object to the battery. Such conduct may result in a fire, excessive heat, or explosion.

9. Do not use a damaged battery.

10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

11. When disposing the battery, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.

⚠ CAUTION

Only use specific batteries. Use of non-specific batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the warranty for the tool and charger.

TIPS FOR MAINTAINING MAXIMUM BATTERY LIFE

1.Charge the battery before completely discharged. Always stop tool operation and charge the battery when you notice less tool power.

2.Never recharge a fully charged battery. Overcharging shortens the battery service life.

3.Charge the battery with room temperature at 10°C-40°C(50°F-104°F). Let a hot battery cool down before charging it.

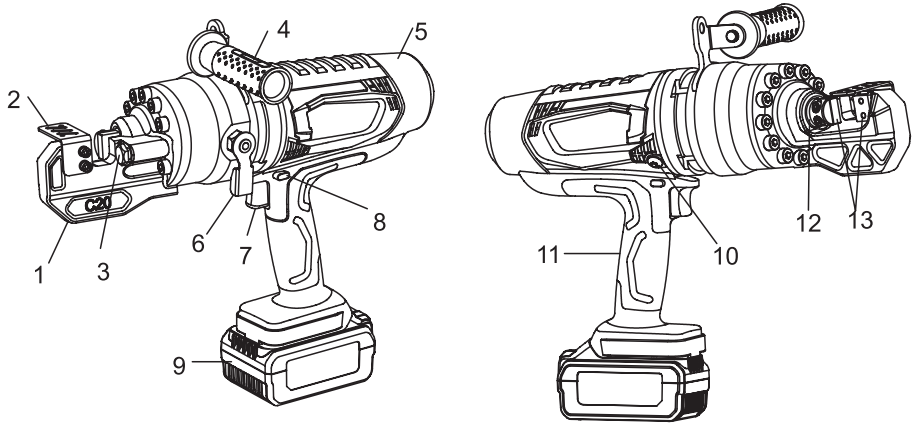
4. When not using the battery, remove it from the tool or the charger.

5.Charge the battery if you do not use it for a long period (more than six months).

IV. SPECIFICATIONS AND MODELS

Model	GC2070
Voltage	DC 18V
Weight	6.8 kg
Size: L x W x H (Including Handle)	408 x 172 x 360 mm
Cutting Range of Rebar	Φ5 - Φ20 mm
Cutting Speed	3 - 5s
Battery	Li2050
Capacity	5.0Ah
Charger	Li2045C
Charging Time	90min

V. COMPONENT NAMES

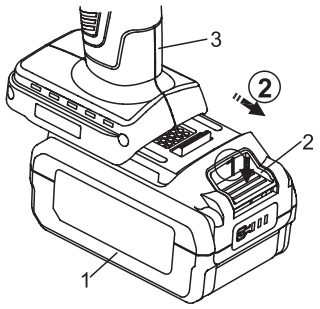


1	Cutting Base	8	Trigger Lock
2	Cover	9	Battery
3	Limit Screw	10	Oil Drain Screw
4	Side Handle	11	Handle
5	Frame	12	Piston
6	Pressure Relief Value Lever	13	Blade
7	Trigger		

INSTALLIING OR REMOVING BATTERY

CAUTION

- Always be sure that the tool is switched off and the battery is removed before adjusting or checking function on the tool.
- Always switch off the tool before installing or removing of the battery.
- Hold the tool and the battery firmly when installing or removing battery. Failure to hold the tool and the battery firmly may cause them to slip off your hands and result in damage to the tool and battery and a personal injury.



1 Battery
2 Button
3 Frame

1.To remove the battery, slide it from the tool while pressing the button on the front of the battery.

2.To install the battery, align the tongue on the battery with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If the battery can be easily pulled out without pressing the button after it is inserted, it means that the battery pack is not completely locked.

CAUTION

- Always install the battery fully until it cannot be pulled out without pressing the button. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not install the batery forcibly. If the battery does not slide in easily, it may be due to improper insertion method.

TOOL / BATTERY PROTECTION SYSTEM

The tool is equipped with a tool/battery protection system. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

OVERLOAD PROTECTION

This protection works when the tool is operated in a manner that causes it to draw an abnormally high curent. In this situation, release the trigger and stop the application that caused the tool to become overoaded. Then turn the tool on to restart. If the tool cannot be restarted, the battery is overheated. In this case, wait until the battery cools before pressing the trigger.

OVERDISCHARGE PROTECTION

This protection works when the remaining battery capacity gets low. In this situation, remove the battery from the tool and charge the battery.

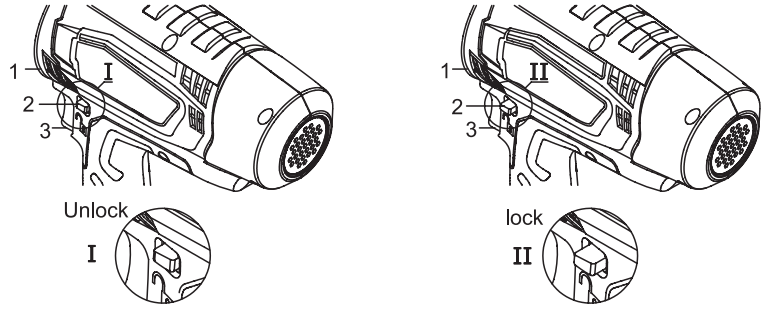
VI. OPERATING PROCEDURE

WARNING

Before the battery is inserted into the tool, ensure the trigger is not pressed and the trigger lock is locked.

CAUTION

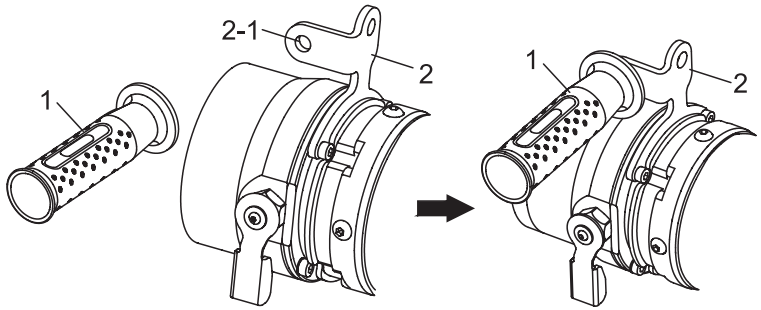
- Place the trigger lock in the locked position and ensure that the trigger cannot be pressed.
- Ensure that the blade fastening bolts and other bolts are securely fixed.



1 Battery
2 Button
3 Frame

1.Start-up.

a. Screw the side handle into the threaded hole of the handle bracket for easy operation.



1 Side Handle
2 Handle Mounting Bracket
2-1 Handle Mounting Bracket for Easy Operation

b.Ensure that the trigger is in the off position.

Note: As a safety function of the tool, if the trigger is in the on state when the battery is inserted, the motor cannot be powered on, and the tool emits a long alarm sound. For further safety, make sure the trigger is off when inserting the battery.

c.Insert the battery into the tool.

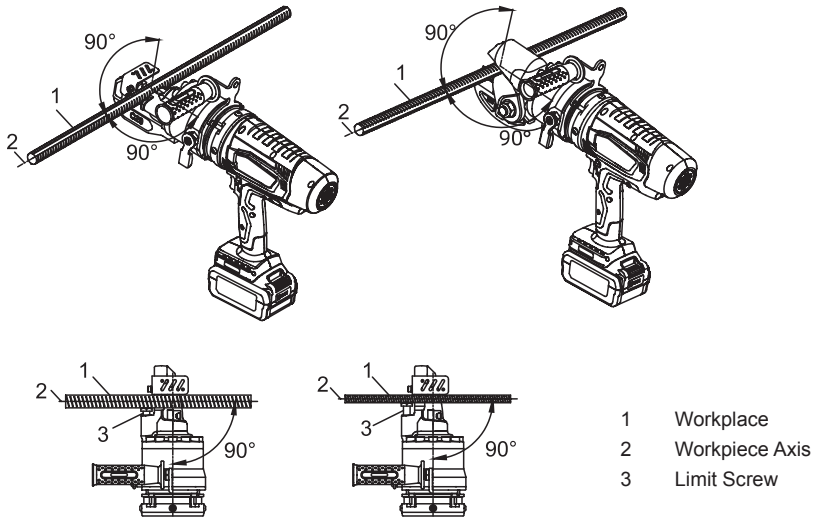
d.Place the material between the two blades so that the blades are perpendicular to the workpiece axis. The GC2070 tool cuts different sizes of workpieces, and the distance of the limit screw must be correctly adjusted for different size of rebars before cutting. Please refer to Figure 6 for details.

⚠ WARNING

Do not touch the moving parts as they can cause serious injury.

⚠ WARNING

- Grasp the tool tightly so that it does not shake during cutting. When cutting, shaking the tool will shorten the service life of the blade and damage it.
- Place the tool at a 90 degree angle to the workpiece axis. The non-vertical blade position relative to the workpiece will increase the cutting thickness, which will cause tool overload.
- If the cutting thickness is greater than the limit set for the tool, the blade may break.
- Do not remove the battery when the motor is turned on. Doing so will damage the electronic components of the motor.
- This tool is used to cut rebar. If you want to cut off other materials, please contact the manufacturer or local distributor. Cutting off other materials will damage the blade.



1 Workplace
2 Workpiece Axis
3 Limit Screw

e.Press and hold the trigger, and the motor starts. Then do continuous work.

f.After the cut is complete, release the trigger, the tool stops running.

2. Be careful when cutting off

a. Make sure the blade is 90 degrees from the workpiece axis before starting.

b. Replace the blade when it has a roll blade, gap, crack or wear. Continued use in this case will make the tool damaged or accident may happen.

c. If the cut material moves or tilts, stop operation and place the material correctly.

d. Do not hold the shorter material with your hand. Doing so may result in personal injury.

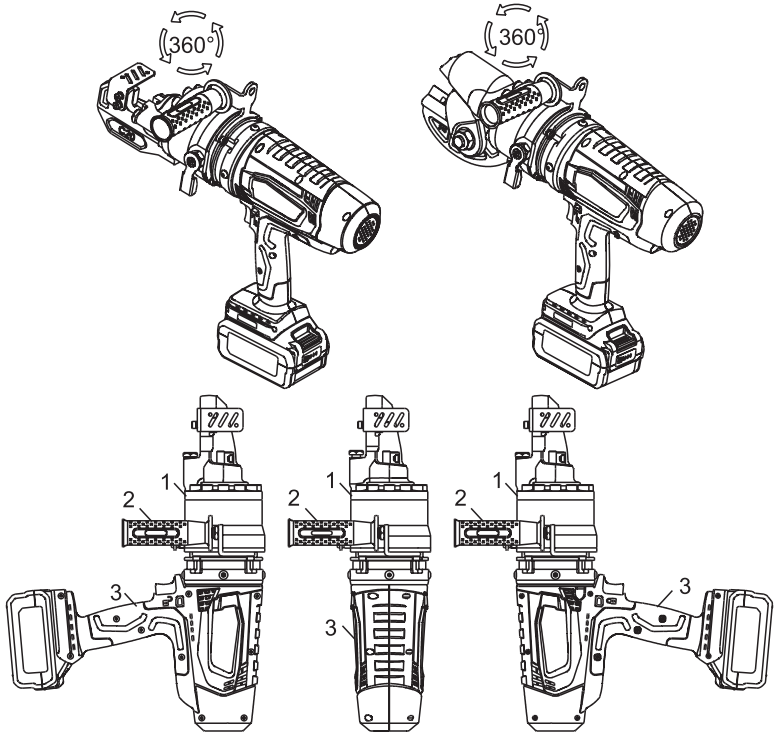
e.Do not cut materials that exceed the tool cut capability in terms of size and hardness.

3. Replace the blade with roll, notch, crack or wear.

Note: The blade could not be polished again. Worn blade will overheat the motor.

4.Head adjustment

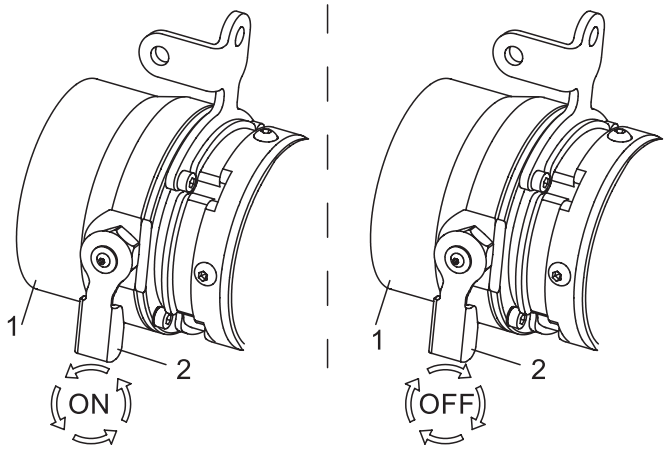
The head (1) of the tool can be freely adjusted (rotating 360°), to assist the operator to locate and cut. To adjust the head (1), just fix the head, one hand holds the machine side handle (2), and the other hand turns the frame handle (3).



1 Tool Head
2 Side Handle
3 Frame Handle

5.Pressure relief valve lever

The pressure relief valve lever has two positions.



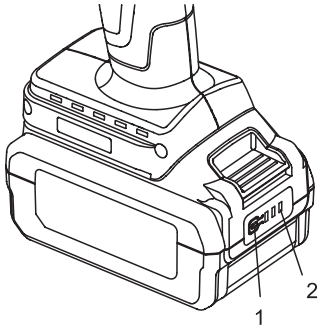
1 Oil Cylinder
2 Pressure Relief Vale Value

1. Valve closure: The piston operates and returns automatically.
2. Valve opening: Interrupt the working stroke of the piston or return the piston to its original position in an emergency.

CAUTION

If the tool is not working, check the pressure relief valve and make sure the pressure relief valve is closed.

6.Battery Indicator function



1 Button
2 Battery Indicator

When you turn the tool on, the battery indicator shows the remaining battery capacity. (see table 1)

Table 1

Battery Indicator Status ■:ON □:OFF	Remaining Battey Capacity
■■■	60% - 100%
■■□	20% - 60%
■□□	0% - 20%
■□□ ■■□ ■■■	Battery is Charging

Tool / battery protection function

The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

- The tool is overloaded.
  When the tool is overloaded, if the tool is overloaded during cutting, it will automatically stop running and give an alarm, In this case, please turn off the tool and remove the cause of overload.
- When the tool overheats. If the tool is repeatedly operated under these conditions, the protection system will lock the tool.

Overload protection

If the tool is overloaded during cutting, it will automatically stop. In this situation, turn the tool off and remove the cause of the overload, then restart the tool.

Battery protection

- When the battery voltage is too low, the tool will be locked and the alarm prompts.
- When the battery voltage is too high, the tool will be locked and the alarm prompts.
- When the ambient temperature of the battery is too low, the tool will be locked and the alarm prompts.

Tools overheating protection

- When the tool is overheated, the tool stops automatically and the alarm prompts. In this case, wait until the tool cools down before turning on.

Tools phase loss protection

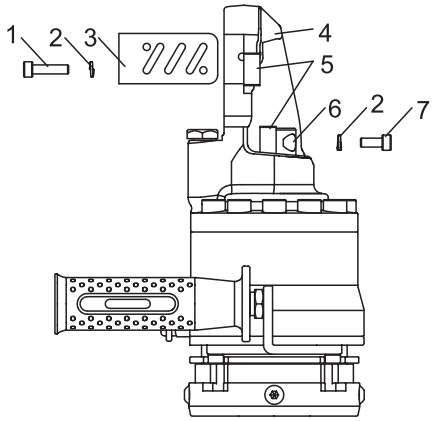
- When the tool connector drops or the connector is loose, the tool will automatically stop running and give an alarm. In this case, please reinstall the connecting wire or fasten the connector.

VII. BLADE

WARNING

Turn off the tool and remove the battery before replacing the blade to prevent serious personal injury caused by accidental operation.

1. How to remove a blade



1 Hex Screw
2 Washer
3 Cover
4 Cutting Base
5 Blade
6 Piston
7 Hex Screw

1. Loosen the two hex screws (1) on the cutting base (4).
2. Remove two hex screws (1), washer (2), and cover (3).
3. Remove the blade (5).
4. Loosen the two hex screws (7) on the piston (6).
5. Remove two hex screws (7) and washers (2).
6. Remove the blade (5).

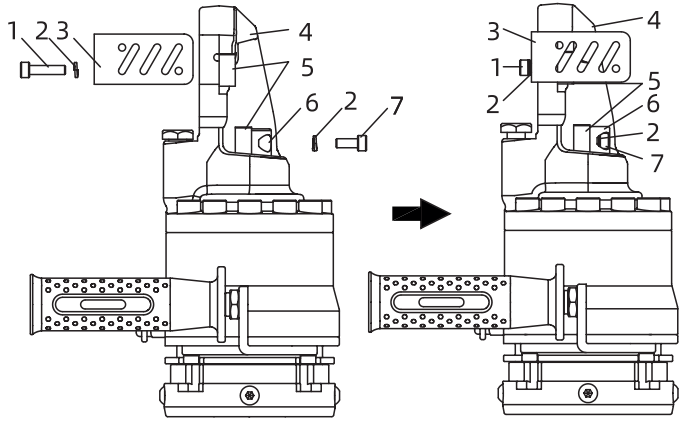
CAUTION

Using blades with rolled edges, cracks and loose blades can lead to accidents.

1. How to replace a blade

CAUTION

- Only use specific blades. If the blade is repeatedly used, ensure that it is not worn, cracked, or damaged.
- Remove all debris and dirt from the blades and components. Debris and dirt can cause unexpected accidents during cutting.



1	Hex Screw	5	Blade
2	Washer	6	Piston
3	Cover	7	Hex Screw
4	Cutting Base		

1.Install the blade (5) onto the cutting base (4) and press it against the blade support surface.

2. The hex screw (1) is threaded into the washer (2), cover (3), and cutting base (4) in sequence.

3.Screw into the threaded hole of the blade (5) and tighten it.

CAUTION

Ensure that the blade is firmly against the support surface of the cutting base, and tighten the screws. Otherwise, it can cause personal injury during cutting.

4.Install the blade (5) onto the piston (6) and press it against the blade support surface.

5. The hex screws (7) are threaded into the washer (2) and the piston (6) in sequence.

6. Screw into the threaded hole of the blade (5) and tighten it

CAUTION

Ensure that the blade is firmly against the support surface of the piston, and tighten the screws. Otherwise, it can cause personal injury during cutting.

3.Hydraulic oil

Due to the hydraulic operation of the machine, failure to maintain an appropriate amount of oil can lead to a decrease in pressure and a loss of cut-off power.

At this point, it is necessary to change or top up the oil to prevent impurities from contaminating the oil or entering the tank. Impurities in the oil can irreversibly damage hydraulic components.

⚠ CAUTION

- Make sure that the oil is free of impurities.
- Do not use dirty wrenches.
- Do not replace hydraulic oil in dusty areas.
- Hydraulic oil is highly flammable and must be kept away from sparks and fire. Smoking is prohibited.
- Hydraulic oil can cause eye and skin inflammation. If ingested it will cause diarrhea and vomiting. In case of eye contact, rinse in clean water for a few minutes and consult a doctor.

4.Replace hydraulic oil

1. Flip the tool with the drain hole up (cool the tool if overheating). Place a basin under the tool to catch the oil leak.
2. Loosen the oil drain screw and remove the O-ring (before loosen the oil drain screw, ensure that the piston is in its original position to facilitate the removal of all residues).
3. Turn the tool with the drain hole down (natural discharge) or use a suitable oil pumping system (e.g. Pumpjack). Drain the oil from the tank to prevent it from leaking into the tool.
4. Use suitable equipment (such as a funnel) to slowly pour in the correct amount of anti-bubble, anti-wear #46 hydraulic oil (Approx.230ml). Only use new or clean hydraulic oil.
5. Check if the oil level is at the bottom of the oil drain screw hole. If the oil level is still low, please add anti-bubble, anti-wear hydraulic # 46 hydraulic oil.
6. Tighten the oil drain screw and sealing ring lightly.
7. Insert the battery, start the tool to extend the piston, quickly start and stop the motor several times to exhaust air or excess bubbles.

⚠ CAUTION

If there are bubbles in the oil, the machine will not function properly.

8. Flip the tool again to set the drain hole up.
9. Fill the hydraulic oil again, cover the oil drain screw and tighten it.
10. Check if there is any oil leakage.

⚠ CAUTION

Handle hydraulic oil in accordance with local regulations.
Do not pour oil into the sea, rivers, lakes, or sewers, nor pour oil directly onto the ground.

5.Top up hydraulic oil

CAUTION

Before loosening the oil drain screw to check the hydraulic oil level, please ensure that the piston is fully extended. If necessary, please remove it. If it is not done, hydraulic oil may leak. Air bubbles may form and/or the oil levelmay be incorrectly measured, thus causing the machine to operate incorrectly.

Only after completing the above operations can they be performed as shown below:

1. Place the machine horizontally in a stable position on the workbench, with the oil drain hole facing upwards. Place a basin under the machine to prevent oil leakage;
2. Unscrew the oil drain screw;
3. Check the amount of missing oil;
4. Use suitable equipment (such as a funnel), and slowly fill the upper edge of the oil filling hole with new or clean hydraulic oil;
5. Put back the oil drain screw and tighten it.

VIII. MAINTENANCE

CAUTION

Before inspecting or maintaining the tool, make sure to power off the tool and lock the trigger lock before removing the battery.

Check screws
Ensure that all screws are fully tightened on a regular basis or every day in the event of frequent or prolonged work.

CAUTION

The screws shall be tightened when they are loose. If the tool continues to run even when the screws are loose, it can cause serious damage to the tool.

Check that there are no missing or excess parts.

CAUTION

No missing or excess parts. If the tool continues to run even if the parts are missing or redundant, it can cause serious damage to the tool.

Check the blade
Using worn blades reduces the potential of the machine and cause unnecessary overheating of the motor. Replace it immediately once you notice it is worn.

CAUTION

Loose screws can damage tools or cause personal injury.

Check the motor
Keep the motor surface clean, ventilation and cooling smooth, and ensure that the motor runs without any abnormal noise.

CAUTION

Poor ventilation can cause the motor to overheat, and the tool will not work normally or be damaged.

Cleaning tools
Keep the piston and tool head clean to ensure that the piston returns completely at the end of its stroke, otherwise a new stroke will not be possible.

If the operation fails due to the accumulation of dirt on the piston end, please follow the following steps:
1.Place the machine horizontally on a stable working surface.
2.Directly clean the piston end.

CAUTION

The accumulation of dirt on the piston end can cause tool operation failure.

3.Keep the surface of the motor clean, ensure smooth ventilation, and ensure that the motor runs without any abnormal noise.

CAUTION

Poor ventilation can cause the motor to overheat, and the tool will not work normally or be damaged.

4. Metal debris during work may harm workers, so please wear gloves and do not use an air gun when using the machine, as strong airflow can blow up metal debris, which may cause eye injuries.

Comprehensive maintenance
The machine shall be delivered to the authorized agent for maintenance at least once every two years, please do frequent maintenance when heavily used.

Troubleshooting

Remedial measures with the letter R require the assistance of authorized dealers.
The remedial measures marked with the letter M require intervention from maintenance personnel.
Remedial measures marked with the letter O can be carried out by the operator. Motor troubleshooting

Motor troubleshooting

Fault	Possible Causes	Possible Measures	Executor
Motor not start	Battery damage	Replace	O
	Motor	Replace	R
	Switch	Replace	R

Fault	Possible Causes	Possible Measures	Executor
Motor not start	Internal fault	Replace	R
	Motor overheat	Wait for it to cool down	O
	Dirty winding	Clean	M
	Blicked vebtilation holes	Clean	O
	The fan is broken	Replace	R
	Motor bracket worn	Replace	R
	Machanical failure on the head	Overhaul	R

Troubleshooting hydraulic components

Fault	Possible Causes	Possible Measures	Executor
The piston does not work	Return not completed	Push piston backwards	O
	Return spring broken	Replace	O
	Foreign objects in the relief valve	Clean	O
	Relief valve malfuction	Repair	M
	Fuel tank empty	Fill up with oil	O
	Due to fouling, the valve remains open	Clean	O
Incomplete piston stroke	Oil starvation	Fill up with oil	O
Intermittent piston stroke	Bubbles in the hydraulic circuit	Vaentilate	O
	Pump malfunction or dirt	Replace	M
	Pump O-ring	Replace	M
Piston return not completed	Dirt between piston rod and tool	Move piston to end of stroke position and clean	O
	Return spring broken	Replace	O
Cut off without strngth	Hydraulic oil pump falure	Replace	M
	Dirt on the hydraulic oil pump valve	Replace	M
	Wear of piston gasket	Replace	M
	Pump O-ring broken	Replace	M
The piston cannot automatically reset	Unloading valve malfunction	Replace	M
	Piston stuck	Replace	M
Oil leakage	Damaged O-ring	Replace	M
	Foreign objects at the sealing area	Clean	O
	Airbag damage	Replace	M
	Oil seal damage	Replace	M

Storage

ATTENTION

Do not use gasoline, benzene, diluents, alcohol, or similar items to clean tools. Otherwise, it may cause discoloration, deformation, or cracking of the tool.

Store the equipment in a clean and dry place, and access is restricted to authorized personnel only.

CAUTION

• All operations must be performed by qualified personnel who meet the safety regulations.

• Machine repair operatioon during the warranty period must be perfoemed at the manufacturer's factory or designated agent.

• Eliminate all faults before starting work.

Disposal

When handling tools, various materials must be seperated.

This tool includes the following material groups:

• Ferrous material

• Copper

• Plastic

Observe the local regulations when classifying, storing, recycling, or disposing of these materials.

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