中文简体：原本

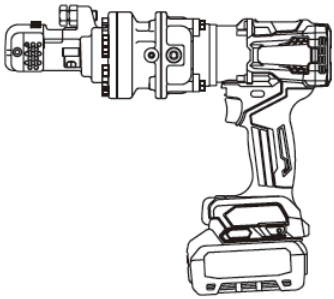
牧 田®

牧 田 牌
专业电动工具

使用说明书

充电式钢筋切断机

SC001G



使用前请阅读。保留备用。

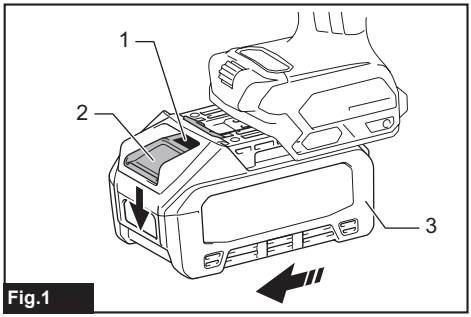
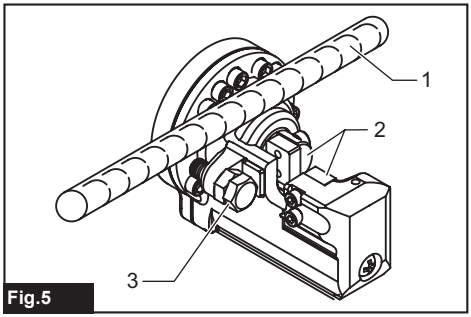


Fig.1



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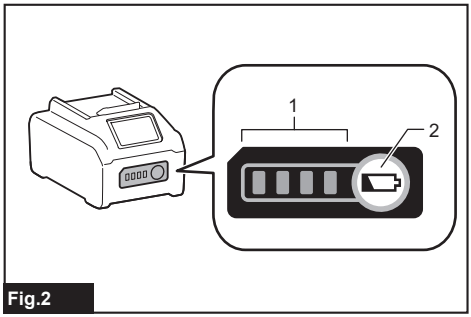

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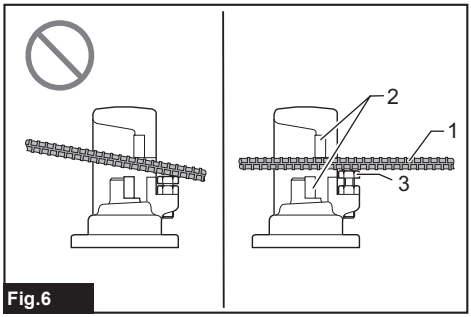

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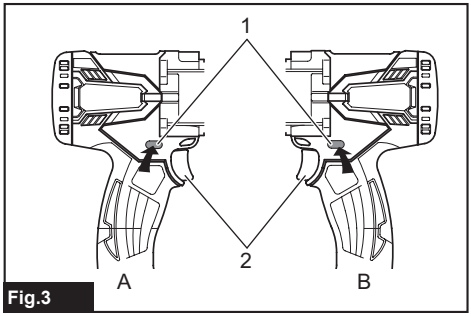

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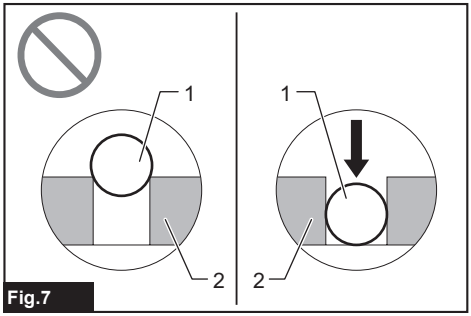

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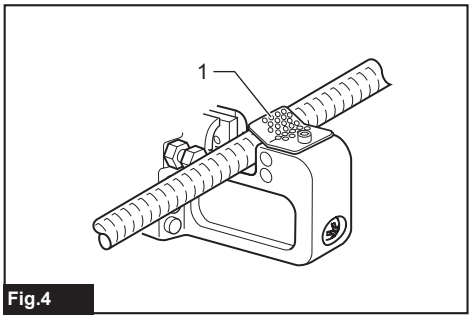

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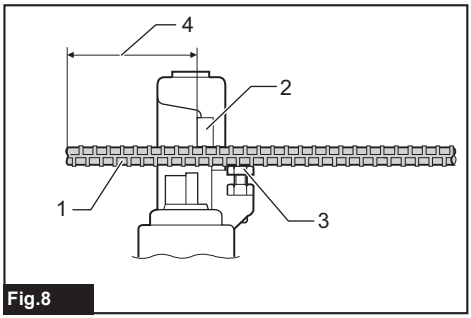

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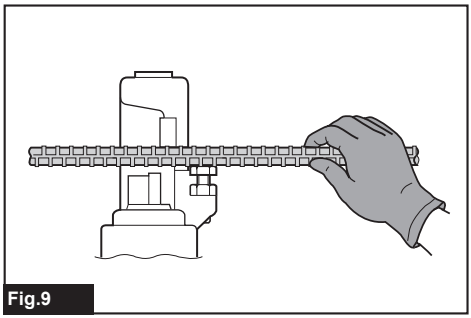
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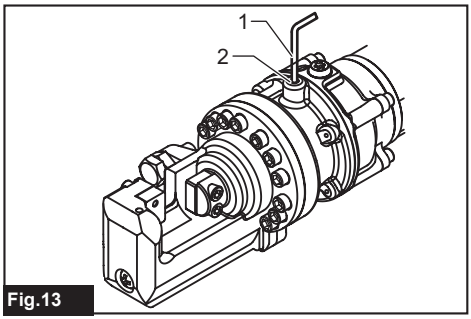

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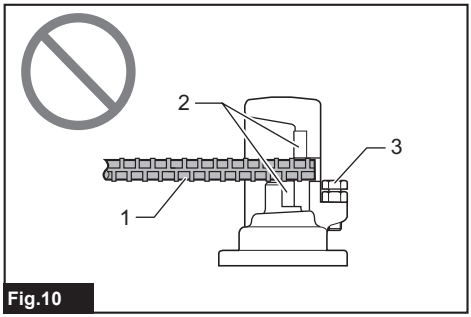

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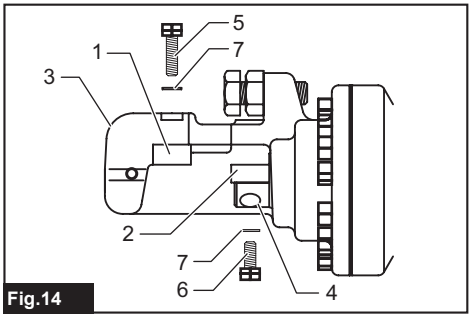

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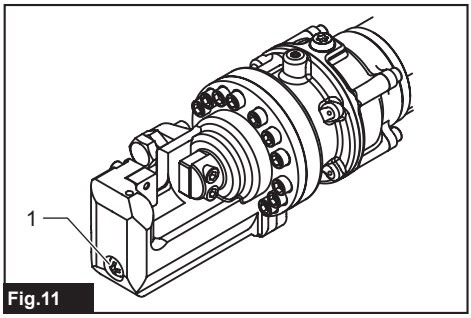
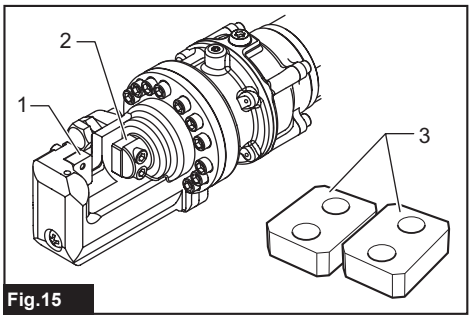


Fig.11



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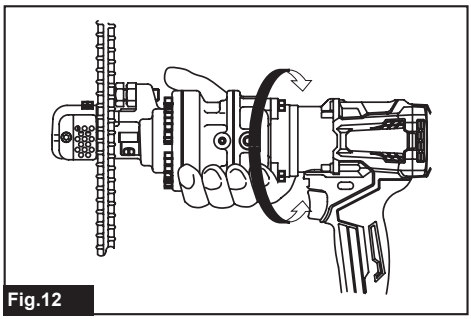


Fig.12

SPECIFICATIONS

Model:	SC001G
Max. Cutting Capacity (Dia.mm)	16 mm
Grade 40 - Grade 60	16 mm
Grade 40: Tensile Strength 490 N/mm^2 70,000 PSI	16 mm
Grade 60: Tensile Strength 620 N/mm^2 90,000 PSI	16 mm
Cutting speed	1.7 seconds
Overall length	321 mm
Rated voltage	D.C. 36 V - 40 V max
Net weight	6.0 - 6.3 kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combination are shown in the table.

Applicable battery cartridge and charger

Battery cartridge	BL4025 / BL4040
Charger	DC40RA

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠***WARNING:*** **Only use the battery cartridges and chargers listed above.** Use of any other battery cartridges and chargers may cause injury and/or fire.

Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.

	Read instruction manual.
 Ni-MH Li-ion	Only for EU countries Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health. Do not dispose of electrical and electronic appliances or batteries with household waste! In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection. This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment.

Intended use

The tool is intended for cutting rebar.

SAFETY WARNINGS

General power tool safety warnings

⚠***WARNING*** **Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

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.

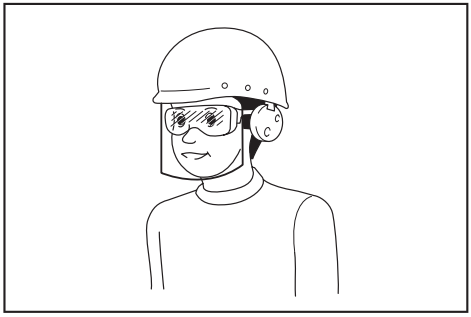
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

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.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user.** However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. **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.
2. **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.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **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.
7. **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.
8. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.
9. **Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.**



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **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.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
8. **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.
9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.

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 use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow instruction for lubricating and changing accessories.**

Cordless steel rod cutter safety warnings

1. **Hold the tool securely while it is in use.** If the tool is not held securely, you may be injured.
2. **Keep your hands and face away from the moving parts.** They may cause an injury.
3. **Release the Switch trigger immediately to stop operation when the tool is out of order or makes an abnormal sound during use. Have it inspected and repaired by an authorized service center.** Failure to do so may result in damage or injury.
4. **If you drop or strike the tool, check carefully that the body is not damaged, cracked, or deformed.** Any such damage could cause injury.
5. **This tool is an electro-hydraulic tool. The oil reservoir was filled before delivery. Do not add oil unless the tool operates abnormally.**
6. **Metal cutting blades have sharp edges.** Handle them carefully to avoid being cut.
7. **Damaged, deformed or cracked blades may cause serious accidents as well as impair operation.** Replace with new genuine blades immediately.

SAVE THESE INSTRUCTIONS.

⚠*WARNING:* DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product.

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Important safety instructions for battery cartridge

1. **Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.**
2. **Do not disassemble or tamper with the battery cartridge.** 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 clear water and seek medical attention right away. It may result in loss of your eyesight.**
5. **Do not short the battery cartridge:**
   (1) **Do not touch the terminals with any conductive material.**
   (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
   (3) **Do not expose battery cartridge to water or rain.**

   A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store and use the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).**

7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge.** 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 cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.**
12. **Use the batteries only with the products specified by Makita.** Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. **If the tool is not used for a long period of time, the battery must be removed from the tool.**
14. **During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.**
15. **Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.**
16. **Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge.** It may cause heating, catching fire, burst and malfunction of the tool or battery cartridge, resulting in burns or personal injury.
17. **Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines.** It may result in a malfunction or breakdown of the tool or battery cartridge.
18. **Keep the battery away from children.**

SAVE THESE INSTRUCTIONS.

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

Tips for maintaining maximum battery life

1. **Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.**
2. **Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.**
3. **Charge the battery cartridge with room temperature at 10 °C - 40 °C (50 °F - 104 °F). Let a hot battery cartridge cool down before charging it.**
4. **When not using the battery cartridge, remove it from the tool or the charger.**
5. **Charge the battery cartridge if you do not use it for a long period (more than six months).**

FUNCTIONAL DESCRIPTION

⚠*CAUTION:* Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

Installing or removing battery cartridge

⚠*CAUTION:* Always switch off the tool before installing or removing of the battery cartridge.

⚠*CAUTION:* Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

To install the battery cartridge, align the tongue on the battery cartridge 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 you can see the red indicator as shown in the figure, it is not locked completely.

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.
► **Fig.1: 1.** Red indicator **2.** Button **3.** Battery cartridge

⚠*CAUTION:* Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

⚠*CAUTION:* Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. 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 current. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

This protection works when the tool or battery is overheated. In this situation, let the tool and battery cool before turning the tool on again.

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.

Protections against other causes

Protection system is also designed for other causes that could damage the tool and allows the tool to stop automatically. Take all the following steps to clear the causes, when the tool has been brought to a temporary halt or stop in operation.

1. Make sure that all switch(es) is/are in the off position, and then turn the tool on again to restart.
2. Charge the battery(ies) or replace it/them with recharged battery(ies).
3. Let the tool and battery(ies) cool down.

If no improvement can be found by restoring protection system, then contact your local Makita Service Center.

Indicating the remaining battery capacity

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

► **Fig.2:** **1.** Indicator lamps **2.** Check button

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
■ ■ ■ ■			75% to 100%
■ ■ ■ □			50% to 75%
■ ■ □ □			25% to 50%
■ □ □ □			0% to 25%
◪ □ □ □			Charge the battery.
■ ■ □ □ ↑ ↓ □ □ ■ ■			The battery may have malfunctioned.

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

NOTE: The first (far left) indicator lamp will blink when the battery protection system works.

OPERATION

Operating procedure

Read, understand 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 this tool. Consult your supervisor or other responsible person.

⚠*WARNING:* Before the Battery is inserted into the tool, pull and release the switch trigger to ensure that it returns when released.

The motor is on when the switch trigger is pulled and off when the switch trigger is released.

Switch Lock Operation

- Push in the Switch Lock on side A. The Switch is unlocked and the Trigger can be operated.
- Push in the Switch Lock on side B. The Switch is locked and the Trigger cannot be operated.

► **Fig.3:** **1.** Switch lock **2.** Switch trigger

⚠*CAUTION:* The switch trigger should be locked at all times when not in use.

⚠*WARNING:* Before operation, confirm that the position of the operator, relative to the tool, and the surrounding area is safe for operation. Put on safety glasses and wear protective clothing.

⚠*WARNING:* Refer to the tool specifications in this manual and do not cut rebar of size or hardness that exceeds the cutting capacity of the tool.

⚠*WARNING:* Do not cut material other than rebar. Please ask the manufacturer if you want to cut other materials.

⚠*WARNING:* Replace damaged (chipped, broken, cracked) or deformed blades immediately. The blade will not cut true and may fracture or break causing serious personal injury.

Cutting Procedure

⚠*WARNING:* Never use the tool without the protector in place. Failure to do so can cause serious personal injury.
► **Fig.4: 1.** Protector

⚠*WARNING:* Protector is an equipment to prevent fragments from being projected towards the operator. It does not prevent a projection to the axial direction of the rebar. Position yourself so that the protector blocks the fragments.

⚠*WARNING:* In some figures the protector is not shown, but it is for showing the inside of the protector. Always use the protector in place.

1. Position the rebar to be cut between the blades.
► **Fig.5: 1.** Rebar **2.** Blades **3.** Hold bolt

Adjust the hold bolt according to the diameter of the rebar to be cut so that the rebar is at 90 degrees to the blades. The hold bolt supports the rebar and keeps it perpendicular to the blades when cutting.
► **Fig.6: 1.** Rebar **2.** Blades **3.** Hold bolt

⚠*WARNING:* When cutting rebar, adjust the hold bolt according to the diameter of the rebar to be cut so that the rebar is at 90 degrees to the blades. Without this adjustment, the cut piece may fly off and cause serious injury to the operator or bystanders. Never fail to check the position of the operator relative to the tool and confirm the safety of the operator and surrounding area.

2. Position the rebar deep enough between the blades so that it does not touch the protector.
► **Fig.7: 1.** Rebar **2.** Blades

⚠*WARNING:* If the rebar to be cut is not positioned fully between the blades, the blades will be damaged; the rebar will be ejected violently and may cause serious personal injury.

⚠*WARNING:* Do not cut rebar when the piece to be cut off is less than 200 mm in length. Cutting shorter length may cause the rebar to fly off during cut and may result in serious personal injury.
► **Fig.8: 1.** Rebar **2.** Blade **3.** Hold bolt **4.** More than 200 mm

⚠*WARNING:* Do not cut rebar when it is not properly supported by the hold bolt. When cutting, hold the rebar on the hold bolt side. If not, the cut piece may fly off and cause serious injury to the operator or bystanders.
► **Fig.9**
► **Fig.10: 1.** Rebar **2.** Blades **3.** Hold bolt

3. Push in the Switch Lock on Side A. The switch is unlocked and the trigger can be operated.

4. Press the switch trigger to start cutting operation. The Cutter Rod will move forward to cut the rebar. Keep the Switch depressed until the Cutter Rod stops at the end of its stroke.

5. Release the switch trigger when the cut is completed and the Cutter Rod has reached the end of its stroke. The Cutter Rod will then return automatically to its starting position. The Cutter Rod will not return if the stroke is not completed. Similarly the Cutter Rod will not be able to move forward again until after it returns completely to its starting position. Press the switch to start the next cut, only after the Cutter Rod completely returns to its starting position and stops.

⚠*WARNING:* When cutting rebar of a high tensile strength the cut piece may fly off and cause serious injury to the operator. Wear safety glasses and confirm that the surrounding area is safe before starting operation.

⚠*WARNING:* Keep your hands and face away from the blades, the moving parts and the cutting area, during operation. Remove the Battery from the tool immediately after use.

NOTE: If the temperature of the tool housing exceeds 70°C (160°F), the tool capacity decreases. In such a case, stop the use and allow the tool to cool down.

NOTE: Keep the air hole in the end of the Bar Holder clear of dirt and debris. The air hole controls the internal pressure and should not be obstructed.
► **Fig.11: 1.** Air hole

Rotating Function of Motor

The Motor Body can be rotated through 360 degrees, in either direction, during operation. This feature is particularly useful when working in awkward or narrow areas as it allows the operator to position the tool in the best position for easy operation.
► **Fig.12**

Return Valve Operation

The function of the Return Valve is to allow the Cutter Rod to return to the starting position if it is unable complete a cut or becomes jammed. Using supplied hex wrench, loosen the return valve about a turn in anticlockwise direction. This will release the oil pressure and allow the Cutter Rod to return. Retighten the Return Valve once the Cutter Rod is fully returned and before starting the next operation.
► **Fig.13: 1.** Hex wrench **2.** Return Valve

Blades replacement procedure

If the cutting edges of the blades are chipped, cracked, deformed, or damaged in any way, their cutting ability will be reduced. Cutting under such conditions may cause further damage and result in personal injury. The blades should be replaced as a set immediately if any damage is found.

⚠*WARNING:* When replacing the blades, ensure that the Battery is removed from the tool to prevent accidental operation.

Ensure that Blade A, on the Bar Holder and Blade B, on the Cutter Rod are fitted in their correct respective positions.

► **Fig.14:** **1.** Blade A (Thicker blade) **2.** Balde B (Thinner blade) **3.** Bar holder **4.** Cutter rod **5.** Bolt (Longer) **6.** Bolt (Shorter) **7.** Washer

1. Undo the bolts and the washers that hold Blade A and Blade B.

2. Remove dirt and clean the surfaces where the new blades are to be fitted.

3. Fit Blade A to the Bar Holder and Blade B to the Cutter Rod. Replace bolts and washers and tighten firmly.

> ⚠***WARNING:*** **The bolts that hold Blade A and Blade B should be tightened regularly. If the bolts become loose the Blades may be damaged and may cause personal injury.**

Type of spare blade and detachment

Securing bolts should be firmly tightened. Confirm periodically that the blade is tightened properly.

► **Fig.15:** **1.** Blade A on bar holder **2.** Blade B on cutter rod **3.** Spare blade

Spare blade size

Model	A (Cutter head)	B (Cutter rod)
SC001G (Φ3 - Φ16)	22 × 17 × 9 mm (Bolt size 5 mm, two holes)	22 × 17 × 8 mm (Bolt size 5 mm, two holes)

* Use this table to identify the correct blades for your model.

NOTE: Use only genuine Makita blades.

Adding oil

This Cordless Steel Rod Cutter is electro-hydraulic. When shipped from the factory, it was filled with oil. Do not attempt to add oil as long as the tool performs well. Over a period of time the oil level will gradually go down. Eventually this will cause a noticeable dropping off in performance. When this happens add oil as follows.

1. Place some rebar between the blades and pull the switch trigger.

2. Release the switch trigger just before the cut is completed to stop the tool.

3. Remove the Battery from the tool, so that the Blades cannot be moved accidentally.

4. Remove the Bolt (SB10x15) which caps the oil filler hole. Add the oil, being careful not to allow any oil to spill into the motor.

5. Replace the Bolt (SB10x15) and tighten securely.

6. Reinsert the Battery into the tool and complete the cutting operation.

7. Repeat the above procedure several times until the oil level remains correct.

> ⚠***CAUTION:*** **Only pure hydraulic oil as recommended by Makita should be used in this tool. Recommended oils include the Makita supplied hydraulic oil, Super Hyrando #46 (JX Nippon Oil & Energy Corp.); Shell Tellus Plus #46 (U.S. Shell); or equivalent spec anti-wear hydraulic oil, ISO Viscosity Grade 46. Do not use other oils as these may cause damage to the seals and other internal machine parts.**

TROUBLESHOOTING

> ⚠***WARNING:*** **Remove battery before working on machine.**

State of abnormality	Probable cause (malfunction)	Remedy
Cutter Rod will not extend.	Insufficient oil.	Top up oil. (Refer to “Adding Oil”)
	Cutter Rod has not returned completely due to build up of debris between Cutter Rod and Bar Holder.	Manually push back Cutter Rod. Remove debris and clean.
	Cutter Rod has not returned completely due to damage to the Cutter Rod.	Replace Cutter Rod.
	Cutter Rod has not returned completely due to loose or damaged Blades.	Tighten Blade bolts. Replace Blades.
	Cutter Rod has not returned completely due to weak Return spring.	Replace Return spring.

State of abnormality	Probable cause (malfunction)	Remedy
Insufficient power to cut rebar.	Insufficient oil.	Top up oil. (Refer to “Adding Oil”)
	Return Valve not properly seated or seating damaged.	Clean tip of Return Valve and Seating. Remove any scratched from seating.
	Return Valve, damaged.	Replace.
	Incorrect clearance between Cylinder and Piston.	Replace Piston. (Note: different size pistons available)
	Check Valve, not properly seated or seating damaged.	Clean Check Valve and seating. Replace.
	Urethane packing, damaged or broken.	Replace.
Oil leaks.	Oil leveller Bladder, damaged or broken.	Replace.
	Cutter Rod/ Bar Holder, O-Ring damaged; Rod/Bar Holder, surface scratched or grooved.	Replace Back-Up Ring and O-ring. Replace Cutter Rod/Bar Holder.
	Cylinder/Bar Holder, O-Ring damaged.	Replace O-ring.
	Cylinder/Pump Case, Gasket damaged.	Replace liner B.
	Bar Holder/Cylinder/Pump Case, flange bolts loose.	Tighten bolts.
Motor not moving. Motor slow or erratic.	Voltage incorrect.	Charge Battery.
	Battery at end of working life.	Replace Battery.
	DC Motor damaged by over-heating.	Replace DC Motor.
	DC Motor bearings or gear damaged or broken.	Replace bearings or gear.

NOTE: The internal components of the pump and piston area have very close tolerances and are sensitive to damage from dust, dirt, contamination of the hydraulic fluid or improper handling. The disassembly of the pump housing requires special tools and training, and should only be attempted by qualified repair personnel that have been properly trained and have the right tools. The improper servicing of electrical components can lead to conditions that could cause serious injury. The pump, piston components and all electrical parts should be serviced only by authorized repair shop, dealer or distributor.

MAINTENANCE

CAUTION: **Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.**

NOTICE: **Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.**

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

OPTIONAL ACCESSORIES

CAUTION: **These accessories or attachments are recommended for use with your Makita tool specified in this manual.** The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Makita genuine battery and charger

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

规格

型号:	SC001G
最大切断能力（直径mm）	16 mm
40级 - 60级	16 mm
40级：抗拉强度490 N/mm^2 70,000 PSI	16 mm
60级：抗拉强度620 N/mm^2 90,000 PSI	16 mm
切割速度	1.7秒
总长度	321 mm
额定电压	D.C. 36 V - 40 V（最大）
净重	6.0 - 6.3 kg

- 生产者保留变更规格不另行通知之权利。
- 规格可能因销往国家之不同而异。
- 重量因装置（包括电池组）而异。最轻与最重的组合见表格。

适用电池组和充电器

电池组	BL4025 / BL4040
充电器	DC40RA

- 部分以上所列电池组和充电器是否适用视用户所在地区而异。

⚠警告： 请仅使用以上所列电池组和充电器。使用其他类型的电池组或充电器可能会导致人身伤害和/或失火。

符号

以下显示本设备可能会使用的符号。在使用工具之前，请务必理解其含义。

阅读使用说明书。

仅限于欧盟国家

由于本设备中包含有害成分，因此废弃的电气和电子设备、蓄电池和普通电池可能会对环境和人体健康产生负面影响。请勿将电气和电子工具或电池与家庭普通废弃物放在一起处置！

根据欧洲关于废弃电气电子设备、蓄电池和普通电池、废弃的蓄电池和普通电池的指令及其国家层面的修订法案，废弃的电气设备、普通电池和蓄电池应当单独存放并递送至城市垃圾收集点，根据环保法规进行处置。

此规定由标有叉形标志的带轮垃圾桶符号表示。

用途

本工具用于切断钢筋。

安全警告

电动工具通用安全警告

⚠*警告* **阅读随电动工具提供的所有安全警告、说明、图示和规定。**不遵照以下所列说明会导致电击、着火和 / 或严重伤害。

保存所有警告和说明书以备查阅。

警告中的术语“电动工具”是指市电驱动（有线）电动工具或电池驱动（无线）电动工具。

工作场地的安全

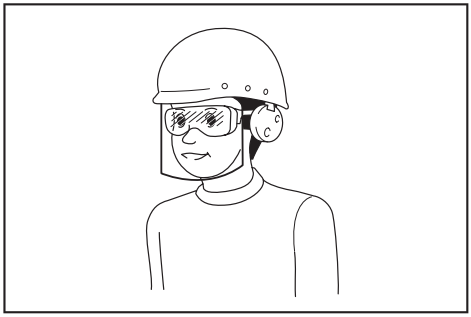
1. **保持工作场地清洁和明亮。**杂乱和黑暗的场地会引发事故。
2. **不要在易爆环境，如有易燃液体、气体或粉尘的环境下操作电动工具。**电动工具产生的火花会点燃粉尘或气体。
3. **操作电动工具时，远离儿童和旁观者。**注意力不集中会使你失去对工具的控制。

电气安全

1. **电动工具插头必须与插座相配。绝不能以任何方式改装插头。需接地的电动工具不能使用任何转换插头。**未经改装的插头和相配的插座将降低电击风险。
2. **避免人体接触接地表面，如管道、散热片和冰箱。**如果你身体接触接地表面会增加电击风险。
3. **不得将电动工具暴露在雨中或潮湿环境中。**水进入电动工具将增加电击风险。
4. **不得滥用软线。绝不能用软线搬运、拉动电动工具或拔出其插头。使软线远离热源、油、锐边或运动部件。**受损或缠绕的软线会增加电击风险。
5. **当在户外使用电动工具时，使用适合户外使用的延长线。**适合户外使用的电线将降低电击风险。
6. **如果无法避免在潮湿环境中操作电动工具，应使用带有剩余电流装置（RCD）保护的电源。**RCD的使用可降低电击风险。
7. **电动工具会产生对用户无害的电磁场（EMF）。**但是，起搏器和其他类似医疗设备的用户应在操作本电动工具前咨询其设备的制造商和 / 或医生寻求建议。

人身安全

1. **保持警觉，当操作电动工具时关注所从事的操作并保持清醒。当你感到疲倦，或在有药物、酒精或治疗反应时，不要操作电动工具。**在操作电动工具时瞬间的疏忽会导致严重人身伤害。
2. **使用个人防护装置。始终佩戴护目镜。**防护装置，诸如适当条件下使用防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
3. **防止意外起动。在连接电源和/或电池包、拿起或搬运工具前确保开关处于关断位置。**手指放在开关上搬运工具或开关处于接通时通电会导致危险。
4. **在电动工具接通之前，拿掉所有调节钥匙或扳手。**遗留在电动工具旋转零件上的扳手或钥匙会导致人身伤害。
5. **手不要过分伸展。时刻注意立足点和身体平衡。**这样能在意外情况下能更好地控制住电动工具。
6. **着装适当。不要穿宽松衣服或佩戴饰品。让你的头发和衣服远离运动部件。**宽松衣服、佩饰或长发可能会卷入运动部件。
7. **如果提供了与排屑、集尘设备连接用的装置，要确保其连接完好且使用得当。**使用集尘装置可降低尘屑引起的危险。
8. **不要因为频繁使用工具而产生的熟悉感而掉以轻心，忽视工具的安全准则。**某个粗心的动作可能在瞬间导致严重的伤害。
9. **使用电动工具时请始终佩带护目镜以免伤害眼睛。护目镜须符合美国ANSIZ87.1、欧洲EN 166或者澳大利亚 / 新西兰的AS/NZS 1336的规定。在澳大利亚 / 新西兰，法律要求佩带面罩保护脸部。**



雇主有责任监督工具操作者和其他近工作区域人员佩带合适的安全防护设备。

电动工具使用和注意事项

1. **不要勉强使用电动工具，根据用途使用合适的电动工具。**选用合适的按照额定值设计的电动工具会使你工作更有效、更安全。
2. **如果开关不能接通或关断电源，则不能使用该电动工具。**不能通过开关来控制的电动工具是危险的且必须进行修理。
3. **在进行任何调节、更换附件或贮存电动工具之前，必须从电源上拔掉插头和/或卸下电池包（如可拆卸）。**这种防护性的安全措施降低了电动工具意外起动的风险。
4. **将闲置不用的电动工具贮存在儿童所及范围之外，并且不允许不熟悉电动工具和不了解这些说明的人操作电动工具。**电动工具在未经培训的使用者手中是危险的。
5. **维护电动工具及其附件。检查运动部件是否调整到位或卡住，检查零件破损情况和影响电动工具运行的其他状况。如有损坏，应在使用前修理好电动工具。**许多事故是由维护不良的电动工具引发的。
6. **保持切削刀具锋利和清洁。**维护良好地有锋利切削刃的刀具不易卡住而且容易控制。
7. **按照使用说明书，并考虑作业条件和要进行的作业来选择电动工具、附件和工具的刀头等。**将电动工具用于那些与其用途不符的操作可能会导致危险情况。
8. **保持手柄和握持表面干燥、清洁，不得沾有油脂。**在意外的情况下，湿滑的手柄不能保证握持的安全和对工具的控制。
9. **使用本工具时，请勿佩戴可能会缠结的布质工作手套。**布质工作手套卷入移动部件可能会造成人身伤害。

电池式工具使用和注意事项

1. **仅使用生产者规定的充电器充电。**将适用于某种电池包的充电器用到其他电池包时可能会发生着火危险。
2. **仅使用配有专用电池包的电动工具。**使用其他电池包可能会产生伤害和着火危险。
3. **当电池包不用时，将它远离其他金属物体，例如回形针、硬币、钥匙、钉子、螺钉或其他小金属物体，以防电池包一端与另一端连接。**电池组端部短路可能会引起燃烧或着火。
4. **在滥用条件下，液体可能会从电池组中溅出；应避免接触。如果意外碰到液体，用水冲洗。如果液体碰到了眼睛，还应寻求医疗帮助。**从电池中溅出的液体可能会发生腐蚀或燃烧。
5. **不要使用损坏或改装过的电池包或工具。**损坏或改装过的电池组可能呈现无法预测的结果，导致着火、爆炸或伤害。
6. **不要将电池包暴露于火或高温中。**电池包暴露于火或高于130 ℃的高温中可能导致爆炸。
7. **遵循所有充电说明。不要在说明书中指定的温度范围之外给电池包或电动工具充电。**不正确或在指定的温度范围外充电可能会损坏电池和增加着火的风险。

维修

1. **让专业维修人员使用相同的备件维修电动工具。**这将保证所维修的电动工具的安全。
2. **决不能维修损坏的电池包。**电池包仅能由生产者或其授权的维修服务商进行维修。
3. **上润滑油及更换附件时请遵循本说明书指示。**

充电式钢筋切断机安全警告

1. **使用时握紧工具。**如果不握紧工具，可能会造成人身伤害。
2. **使手部和脸部远离运动部件。**否则可能会造成人身伤害。
3. **当工具在使用时失灵或发出异常声音时，请立即松开开关扳机以停止操作。将工具交由授权维修中心进行检查和维修。**否则可能会造成损坏或人身伤害。
4. **如果工具跌落或发生撞击，请仔细检查机身是否有损坏、破裂或变形。**任何此类损坏都可能会造成人身伤害。
5. **本工具是电动液压工具。储油罐已在交付前充满。除非工具操作异常，否则不要填充油液。**
6. **金属切割刀片有锋利的刀刃。**处理时请小心谨慎，避免割伤。
7. **损坏、变形或破裂的刀片可能会导致严重事故并影响操作。**请立即更换新的原装刀片。

请保留此说明书。

⚠警告： 请勿为图方便或因对产品足够熟悉（由于重复使用而获得的经验）而不严格遵循相关产品安全规则。

使用不当或不遵循使用说明书中的安全规则会导致严重的人身伤害。

电池组的重要安全注意事项

1. 在使用电池组之前，请仔细通读所有的说明以及（1）电池充电器，（2）电池，以及（3）使用电池的产品上的警告标记。
2. 切勿拆卸或改装电池组。否则可能引起火灾、过热或爆炸。
3. 如果机器运行时间变得过短，请立即停止使用。否则可能会导致过热、起火甚至爆炸。
4. 如果电解液进入您的眼睛，请用清水将其冲洗干净并立即就医。否则可能会导致视力受损。
5. 请勿使电池组短路：
   (1) 请勿使任何导电材料碰触到端子。
   (2) 避免将电池组与其他金属物品如钉子、硬币等放置在同一容器内。
   (3) 请勿将电池组置于水中或使其淋雨。电池短路将产生大的电流，导致过热，并可能导致起火甚至击穿。
6. 请勿在温度可能达到或超过**50°C (122°F)**的场所存放以及使用工具和电池组。
7. 即使电池组已经严重损坏或完全磨损，也请勿焚烧电池组。电池组会在火中爆炸。
8. 请勿对电池组射钉，或者切削、挤压、抛掷、掉落电池组，又或者用硬物撞击电池组。否则可能引起火灾、过热或爆炸。
9. 请勿使用损坏的电池。
10. 本工具附带的锂离子电池需符合危险品法规要求。
    第三方或转运代理等进行商业运输时，应遵循包装和标识方面的特殊要求。
    有关运输项目的准备作业，咨询危险品方面的专业人士。同时，请遵守可能更为详尽的国家法规。
    请使用胶带保护且勿遮掩表面的联络信息，并牢固封装电池，使电池在包装内不可动。
11. 丢弃电池组时，需将其从工具上卸下并在安全地带进行处理。关于如何处理废弃的电池，请遵循当地法规。
12. 仅将电池用于**Makita**（牧田）指定的产品。将电池安装至不兼容的产品会导致起火、过热、爆炸或电解液泄漏。
13. 如长时间未使用工具，必须将电池从工具内取出。
14. 使用工具期间以及使用工具之后，电池组温度可能较高易引起灼伤或低温烫伤。处理高温电池组时请小心操作。
15. 在使用工具后请勿立即触碰工具的端子，否则可能引起灼伤。
16. 避免锯屑、灰尘或泥土卡入电池组的端子、孔口和凹槽内。否则可能会导致过热、着火、爆炸和工具/电池组故障，导致烫伤或人身伤害。
17. 除非工具支持在高压电源线路附近使用，否则请勿在高压电源线路附近使用电池组。否则可能导致工具或电池组故障或失常。
18. 确保电池远离儿童。

请保留此说明书。

⚠小心： 请仅使用**Makita**（牧田）原装电池。使用非Makita（牧田）原装电池或经过改装的电池可能会导致电池爆炸，从而造成火灾、人身伤害或物品受损。同时也会导致牧田工具和充电器的牧田保修服务失效。

保持电池最大使用寿命的提示

1. 在电池组电量完全耗尽前及时充电。发现工具电量低时，请停止工具操作，并给电池组充电。
2. 请勿对已充满电的电池组重新充电。过度充电将缩短电池的使用寿命。
3. 请在**10 °C - 40 °C（50 °F - 104 °F）**的室温条件下给电池组充电。请在灼热的电池组冷却后再充电。
4. 不使用电池组时，请将其从工具或充电器上拆除。
5. 如果电池组长时间（超过六个月）未使用，请给其充电。

功能描述

⚠小心： 调节或检查工具功能之前，请务必关闭工具的电源并取出电池组。

安装或拆卸电池组

⚠小心： 安装或拆卸电池组之前，请务必关闭工具电源。

⚠小心： 安装或拆卸电池组时请握紧工具和电池组。否则它们可能从您的手中滑落，导致工具和电池组受损，甚至造成人身伤害。

安装电池组时，要将电池组上的舌簧与外罩上的凹槽对齐，然后推滑到位。将其完全插入到位，直到锁定并发出咔哒声为止。若能看到图示中的红色指示器，则说明未完全锁紧。

拆卸电池组时，按下电池组前侧的按钮，同时将电池组从工具中抽出。

► **图片1： 1.** 红色指示器 **2.** 按钮 **3.** 电池组

⚠小心： 务必完全装入电池组，直至看不见红色指示器为止。否则，它可能会从工具中意外脱落，从而造成自身或他人受伤。

⚠小心： 请勿强行安装电池组。如果电池组难以插入，可能是插入方法不当。

工具 / 电池保护系统

本工具配备有工具 / 电池保护系统。该系统可自动切断电机电源以延长工具和电池寿命。作业时，如果工具或电池处于以下情况，工具将会自动停止运转。部分情况下，指示灯会亮起。

过载保护

以导致异常高电流的方式操作工具时，此保护功能将启动。在这种情况下，请关闭工具并停止导致工具过载的应用。然后开启工具以重新启动。

过热保护

当工具或电池过热时，将启动此保护功能。在这种情况下，请待工具和电池冷却后再重新开启工具。

过放电保护

当剩余电池电量变低时，将启动此保护功能。在这种情况下，请取出工具中的电池并给电池充电。

其他原因防护

保护系统还适用于其他可能导致工具受损的情况，从而使工具自动停止运转。工具暂时或中途停止工作时，执行以下所有步骤以排除异常原因。

1. 确保所有开关位于关闭位置，然后再开启工具以重新启动。
2. 给电池充电或更换为充电电池。
3. 请等待工具和电池冷却。

如果保护系统恢复后仍无改善，请联络当地的Makita（牧田）维修服务中心。

显示电池的剩余电量

按电池组上的CHECK（查看）按钮可显示电池剩余电量。指示灯将亮起数秒。

► **图片2： 1.** 指示灯 **2.** CHECK（查看）按钮

指示灯			剩余电量
■ 点亮	□ 熄灭	◪ 闪烁	
■ ■ ■ ■			75%至100%
■ ■ ■ □			50%至75%
■ ■ □ □			25%至50%
■ □ □ □			0%至25%
◪ □ □ □			给电池充电。
■ ■ □ □ ↑↓ □ □ ■ ■			电池可能出现故障。

注： 在不同的使用条件及环境温度下，指示灯所示电量可能与实际情况略有不同。

注： 当电池保护系统启动时，第一个（最左侧）指示灯将闪烁。

操作

操作步骤

阅读、理解并遵循所有安全注意事项和操作步骤。如您不理解说明，或不具备正确操作的条件，请勿操作本工具。请咨询监督人员或其他负责人员。

⚠警告： 将电池插入工具之前，请扣动并松开开关扳机，确保松开时可以恢复原位。

扣动开关扳机时电机开启，松开开关扳机时电机关闭。

开关锁操作

- 按下A侧的开关锁。开关即被解锁，可以操作扳机。
- 按下B侧的开关锁。开关即被锁定，不可操作扳机。

► **图片3: 1.** 开关锁 **2.** 开关扳机

⚠小心: 不使用时，应始终锁定开关扳机。

⚠警告: 操作前，确认操作人员相对于工具的位置，以及周围区域适合安全操作。佩戴安全眼镜并穿戴防护服。

⚠警告: 参阅本说明书中的工具规格，不要切割尺寸或硬度超出本工具切割能力的钢筋。

⚠警告: 不要切割钢筋以外的材料。如果您想切割其他材料，请咨询生产商。

⚠警告: 立即更换受损（有缺口、破损、破裂）或变形的刀片。这样的刀片无法正常切断，并可能会断裂或折断，造成严重的人身伤害。

切割步骤

⚠警告: 当保护装置未安装到位时，切勿使用工具。否则会导致严重的人身伤害。

► **图片4: 1.** 保护装置

⚠警告: 保护装置是用于防止碎片飞向操作人员的装置。它不能防止沿钢筋轴向的碎片飞溅。请调整站位，使保护装置可以挡住飞溅的碎片。

⚠警告: 部分图示中没有标示保护装置，是为了显示保护装置的内部。务必在保护装置安装到位的状态下使用。

1. 将待切割的钢筋置于刀片之间。

► **图片5: 1.** 钢筋 **2.** 刀片 **3.** 固定螺栓

根据待切割钢筋的直径调节固定螺栓，使钢筋与刀片呈90度。固定螺栓可在切割时支撑钢筋，并使其与刀片垂直。

► **图片6: 1.** 钢筋 **2.** 刀片 **3.** 固定螺栓

⚠警告: 切割钢筋时，根据待切割钢筋的直径调节固定螺栓，使钢筋与刀片呈90度。未进行此调节会导致切片飞出并给操作人员或旁观者造成严重的人身伤害。务必检查操作人员相对于工具的位置，并确认操作人员和周围区域的安全。

2. 将钢筋放置在刀片之间足够深的位置，避免其接触保护装置。

► **图片7: 1.** 钢筋 **2.** 刀片

⚠警告: 如果待切割的钢筋未完全置于刀片之间，将会导致刀片受损；钢筋将会猛烈弹出并可能会造成严重的人身伤害。

⚠警告: 当要切断的钢筋长度小于200mm时，请勿切割。切割较短的钢筋可能会导致钢筋在切割过程中飞出，并造成严重的人身伤害。

► **图片8: 1.**钢筋**2.**刀片**3.**固定螺栓**4.**大于200 mm

⚠警告: 钢筋未被固定螺栓正确支撑时，请勿切割。切割时，在固定螺栓侧固定钢筋。否则会导致切片飞出并给操作人员或旁观者造成严重的人身伤害。

► **图片9**

► **图片10: 1.** 钢筋 **2.** 刀片 **3.** 固定螺栓

3. 按下A侧的开关锁。开关即被解锁，可以操作扳机。

4. 按下开关扳机开始切割操作。切断机推杆将向前移动以切割钢筋。按住开关直至切断机推杆停止在其行程末端。

5. 完成切割并且切断机推杆到达其行程末端时，松开开关扳机。然后切断机推杆将自动返回到其起始位置。如果行程未完成，切断机推杆将不会返回。类似地，切断机推杆将无法再次向前移动，直至其完全返回到起始位置。仅在切断机推杆完全返回到其起始位置并停止后，按下开关开始下一次切割。

⚠警告: 切割高抗拉强度的钢筋时，切片可能会飞出并对操作人员造成严重的人身伤害。开始操作前，请佩戴安全眼镜并确认周围区域的安全。

⚠警告: 操作期间，保持手部和脸部远离刀片、运动部件和切割区域。使用后，立即从工具取出电池。

注: 如果工具外壳的温度超过70°C (160°F)，工具能力会下降。在此情况下，请停止使用并冷却工具。

注: 保持杆夹端部的气孔无污垢和碎片。气孔起到控制内部压力的作用，不得堵塞。

► **图片11: 1.** 气孔

电机的旋转功能

操作期间，电机机身可在任一方向360度旋转。在不方便或狭窄区域工作时，该功能十分有用，它可使操作人员将工具置于最佳位置以便于操作。

► **图片12**

回路阀操作

回路阀的作用是当无法完成切割或发生卡滞时可使切断机推杆返回到起始位置。使用附带的六角扳手，将回路阀沿逆时针方向拧松约一圈。这将会释放油压并使切断机推杆返回。当切断机推杆完全返回后并开始下一操作前，重新紧固回路阀。

► **图片13: 1.** 六角扳手 **2.** 回路阀

刀片更换步骤

如果刀刃有缺口、破裂、变形或受损，其切割能力将会下降。在这种情况下切割可能会导致刀片进一步受损并造成人身伤害。如发现有任何受损情况，请立即更换整套刀片。

⚠警告: 更换刀片时，确保从工具中取出电池，以防止意外操作。

确保按其各自的正确位置安装杆夹上的刀片A和切断机推杆上的刀片B。

► **图片14: 1.** 刀片A（厚刀片） **2.** 刀片B（薄刀片） **3.** 杆夹 **4.** 切断机推杆 **5.** 螺栓（长） **6.** 螺栓（短） **7.** 垫圈

1. 拧松固定刀片A和刀片B的螺栓和垫圈。

2. 清除污垢，并清洁要安装新刀片的表面。

3. 将刀片A安装到杆夹上，将刀片B安装到切断机推杆上。更换螺栓和垫圈，并牢固拧紧。

⚠警告: 应定期紧固固定刀片A和刀片B的螺栓。如果螺栓变松，刀片可能会受损并可能造成人身伤害。

备用刀片的类型和拆卸方法

应牢固拧紧固定螺栓。定期确认刀片是否被正确拧紧。

► **图片15: 1.** 杆夹上的刀片A **2.** 切断机推杆上的刀片B **3.** 备用刀片

备用刀片尺寸

型号	A（切断机机头）	B（切断机推杆）
SC001G (Φ3 - Φ16)	22 × 17 × 9 mm （螺栓尺寸5 mm，双孔）	22 × 17 × 8 mm （螺栓尺寸5 mm，双孔）

***** 参照此表了解您的型号适用的刀片。

注: 仅使用原装Makita（牧田）刀片。

加注油液

本充电式钢筋切断机是电动液压的。出厂前已加注好油液。只要工具工作良好，请勿尝试加注油液。经过一段时间后，油液液面将会逐渐降低。最终将会导致明显的性能下降。在此情况下，请按如下方式加注油液。

1. 在刀片之间放入钢筋并扣动开关扳机。

2. 即将完成切割前松开开关扳机以停止工具。

3. 从工具中取出电池，以免刀片意外移动。

4. 拆下封住注油孔的螺栓（SB10x15）。加注油液，注意不要让油液溅入电机。

5. 更换螺栓（SB10x15）并牢固拧紧。

6. 重新将电池插入工具并完成切割操作。

7. 重复上述步骤数次直至油液液面保持正确。

⚠小心: 本工具仅可使用Makita（牧田）推荐的纯正液压油。推荐油品包括Makita（牧田）提供的液压油Super Hyrando #46（吉坤日矿日石能源株式会社）；Shell Tellus Plus #46（美国壳牌）；或同等规格的抗磨液压油，ISO粘度等级46。请勿使用其他油，否则可能会导致密封件或其他内部机器部件受损。

故障排除

⚠警告： 在机器上操作之前请取出电池。

异常状态	可能原因（故障）	纠正措施
切断机推杆无法伸出。	油液不足。	加注油液。（参阅“加注油液”）
	由于切断机推杆和杆夹之间积有碎片，切断机推杆没有完全返回。	手动推回切断机推杆。 清除碎片并清洁。
	由于切断机推杆受损，切断机推杆没有完全返回。	更换切断机推杆。
	由于刀片松动或受损，切断机推杆没有完全返回。	紧固刀片螺栓。 更换刀片。
	由于回位弹簧弹力较弱，切断机推杆没有完全返回。	更换回位弹簧。
功率不足，无法切断钢筋。	油液不足。	加注油液。（参阅“加注油液”）
	回路阀未正确落座或阀座受损。	清洁回路阀的端部和阀座。 清除阀座上的所有划痕。
	回路阀损坏。	更换。
	气缸和活塞之间的间隙不正确。	更换活塞。 （注：可用不同尺寸的活塞）
	止回阀未正确落座或阀座受损。	清洁止回阀和阀座。 更换。
	聚氨酯封装受损或损坏。	更换。
漏油。	均油器囊袋受损或破裂。	更换。
	切断机推杆/杆夹、O型环受损；推杆/杆夹表面有划痕或开裂。	更换支撑环和O型环。 更换切断机推杆/杆夹。
	气缸/杆夹、O型环受损。	更换O型环。
	气缸/泵壳、密封圈受损。	更换衬垫B。
	杆夹/气缸/泵壳、法兰螺栓松动。	紧固螺栓。
电机不运转。电机运转缓慢或不稳定。	电压不正确。	给电池充电。
	电池达到使用寿命。	更换电池。
	直流电机因过热受损。	更换直流电机。
	直流电机轴承或齿轮受损或破裂。	更换轴承或齿轮。

注： 泵和活塞区的内部元件公差非常小，容易因灰尘、污垢或液压油污染或不正确操作而受损。拆解泵壳需要专业工具和培训，应仅由经过适当培训且有正确工具的有资格维修人员进行。不正确维修电气元件可能会导致严重的人身伤害。泵、活塞元件以及所有电气部件仅可由授权维修店、经销商或分销商维修。

保养

⚠小心： 检查或保养工具之前，请务必关闭工具电源并取出电池组。

注意： 切勿使用汽油、苯、稀释剂、酒精或类似物品清洁工具。否则可能会导致工具变色、变形或出现裂缝。

为了保证产品的安全与可靠性，维修、任何其他的维修保养或调节需由Makita（牧田）授权的或工厂维修服务中心完成。务必使用Makita（牧田）的替换部件。

选购附件

⚠小心： 这些附件或装置专用于本说明书所列的Makita（牧田）工具。如使用其他厂牌附件或装置，可能导致人身伤害。仅可将附件或装置用于规定目的。

如您需要了解更多关于这些选购附件的信息，请咨询当地的Makita（牧田）维修服务中心。

- Makita（牧田）原装电池和充电器

注：本列表中的一些部件可能作为标准配件包含于工具包装内。它们可能因销往国家之不同而异。

总制造商：　株式会社牧田
日本国爱知县安城市住吉町 3-11-8

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