



说明书材质要求: 105g 有光铜版纸	说明书成品尺寸: 105*143mm
第一: 专色用6级防晒油墨+CMYK油墨要求: 1. PANTONE137C专色油墨 (专色用6级防晒油墨): 如果自己配色, 油墨配比为: 酒联中黄 (防晒) 2000g 酒联金红 (防晒) 225g 2. C色油墨: 酒联天蓝墨 3. M色油墨: 酒联金红墨 4. Y色油墨: pantone123C专色油墨 5. K色油墨: 酒联黑墨	第二: 特别注意: 1. 印刷时看样请参考我司提供的实物样品颜色。不得偏色 2. 137C的专色 不得 参考C=0, M=35, Y=90, K=0对应的四色色谱颜色来看样印刷 Pantone 137C Black (两色印刷)
折叠方式: 骑马钉 特殊情况: 16P/20P: 风琴折 + 对折	备注:

特别注意: 此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

9	10	11	封面
12	13	14	封底

1	2	3	4
5	6	7	8

20P 页面顺序

11	12	13	14	封面
15	16	17	18	封底

1	2	3	4	5
6	7	8	9	10

更改记录	1. 新制作			1. 更新造型			1. 更新新模板制作		
	1224.V01	2024.12.10	CH	0125.V02	2025.1.23	QQY	1225.V03	2025.12.4	Kiko
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

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**PRODUCT
MANUAL**

CORDLESS ROTARY HAMMER



CRHLI20268 CRHLI20268xy
UCRHLI20268 UCRHLI20268xy
x(blank,1,2,3,4,5,6,7,8,9,E,S,A,M)
y(blank,-1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)



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.

1) Work area safety

- a) **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b) **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.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2) Electrical safety

- a) **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.*
- b) **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.*
- c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **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.*
- e) **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.*
- f) **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.*

3) Personal safety

- a) **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.*
- b) **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.*
- c) **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.*
- d) **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.*
- e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f) **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.*
- g) **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.*
- h) **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.*

4) Power tool use and care

- a) **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.*
- b) **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.*
- c) **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.*

- d) **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.***
- e) **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.***
- f) **Keep cutting tools sharp and clean. *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.***
- g) **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.***
- h) **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.***

5) Battery tool use and care

- a) **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.***
- b) **Use power tools only with specifically designated battery packs. *Use of any other battery packs may create a risk of injury and fire.***
- c) **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.***
- d) **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.***

- e) **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.*
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*
- g) **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.*

6) Service

- a) **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.*
- b) **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers*

BATTERY SAFETY WARNINGS

Save these instructions.

⚠ CAUTION!

Only use genuine original batteries. *Use of non-genuine 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 charged and dark areas invite accidents.*

⚠ WARNING!

- a) **Do not dismantle, open or shred secondary cells or batteries.**
- b) **Keep batteries out of the reach of children.** *Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.*
- c) **Seek medical advice immediately if a cell or a battery has been swallowed.**
- d) **Do not expose cells or batteries to heat or fire.** *Avoid storage in direct sunlight.*
- e) **Do not short-circuit a cell or a battery.** *Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.*
- f) **Do not remove a cell or battery from its original packaging until required for use.**
- g) **Do not subject cells or batteries to mechanical shock.**
- h) **In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes.** *If contact has been made, wash the affected area with copious amounts of water and seek medical advice.*
- i) **Do not use any charger other than that specifically provided for use with the equipment.**
- j) **Observe the plus (+) and minus (-) marks on the cell, battery and equipment and ensure correct use.**
- k) **Do not use any cell or battery which is not designed for use with the equipment.**
- l) **Do not mix cells of different manufacture, capacity, size or type within a device.**
- m) **Always purchase the battery recommended by the device manufacturer for the equipment.**
- n) **Keep cells and batteries clean and dry.**
- o) **Wipe the cell or battery terminals with a clean dry cloth if they become**

dirty.

- p) **Secondary cells and batteries need to be charged before use.** *Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.*
- q) **Do not leave a battery on prolonged charge when not in use.**
- r) **After extended periods of storage, it may be necessary to charge and discharge the cells or batteries times to obtain maximum performance.**
- s) **Retain the original product literature for future reference.**
- t) **Use the cell or battery only in the application for which it was intended.**
- u) **When possible, remove the battery from the equipment when not in use.**
- v) **Dispose of properly.**

Tips for maintaining maximum battery life

- a) **Charge the battery cartridge before completely discharged.** *Always stop tool operation and charge the battery cartridge when you notice less tool power.*
- b) **Never recharge a fully charged battery cartridge.** *Overcharging shortens the battery service life.*
- c) **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.*
- d) **Charge the battery cartridge if you do not use it for a long period (more than six months).**

Important safety instructions for battery cartridge

- a) **Before using battery cartridge, read all instructions and cautionary markings on battery charger, battery, and) product using battery.**
- b) **Do not disassemble battery cartridge.**
- c) **If operating time has become excessively shorter, stop operating immediately.** *It may result in a risk of overheating, possible burns and even an explosion.*
- d) **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.*
- e) **Do not short the battery cartridge:**
 - *Do not touch the terminals with any conductive material.*
 - *Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.*

- *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.*
- f) **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).**
- g) **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.***
- h) **Be careful not to drop or strike battery.**
- i) **Do not use a damaged battery.**
- j) **Follow your local regulations relating to disposal of battery.**

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

When the battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indication. 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

When the tool/battery is overheated, the tool stops automatically. In this situation, let the tool/battery cool before turning the tool on again.

Transportation

Batteries comply with all applicable shipping regulations as prescribed by industry and legal standards (for more information, check with the manufacturer).

Transporting batteries can possibly cause fire if the battery terminals inadvertently come in contact with conductive materials. When transporting batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

The information provided in this section of the manual is provided in good faith and believed to be accurate at the time the document was created. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure

that its activities comply with the applicable regulations.

Protecting the environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

Rechargeable battery pack

This long-life battery pack must be recharged when it fails to produce sufficient power on jobs which were easily done before. At the end of its technical life, discard it with due care for our environment:

- Run the battery pack down completely, then remove it from the tool.
- Lithium-ion cells are recyclable. Take them to your dealer or a local recycling station. The collected battery packs will be recycled or disposed of properly.

THE SYMBOLS IN INSTRUCTION MANUAL

	Double insulated for additional protection
	Read the instruction manual before using.
	CE conformity.
	Safety alert. Please only use the accessories supported by the manufacturer.
	Wear safety glasses, hearing protection and dust mask.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Charging the battery only below 40°C
	Always recycle batteries.
	Do not destroy battery by fire.
	Do not expose battery to water

ADDITIONAL SAFETY WARNING

Hammer safety warnings

1) Safety instructions for all operations

- a) **Wear ear protectors.** *Exposure to noise can cause hearing loss.*
- b) **Use auxiliary handle(s), if supplied with the tool.** *Loss of control can cause personal injury.*
- c) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** *Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

2) Safety instructions when using long drill bits with rotary hammers

- a) **Always start drilling at low speed and with the bit tip in contact with the workpiece.** *At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.*
- b) **Apply pressure only in direct line with the bit and do not apply excessive pressure.** *Bits can bend, causing breakage or loss of control, resulting in personal injury.*

Additional safety warning

- a) **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** *Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.*
- b) **Always wait until the power tool has come to a complete stop before placing it down.** *The application tool can jam and cause you to lose control of the power tool.*
- c) **Secure the workpiece.** *A workpiece clamped with clamping devices or in a vice is held more secure than by hand.*
- d) **Do not touch any application tools or adjacent housing components shortly after operation.** *These can become very hot during operation and cause burns.*
- e) **The application tool may jam during drilling. Make sure you have a stable footing and hold the power tool firmly with both hands.** *Otherwise, you*

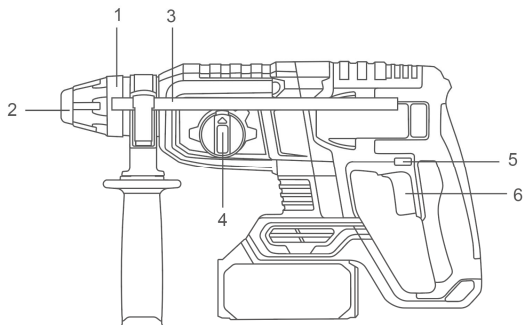
could lose control of the power tool.

- f) **Take care when carrying out demolition work using the chisel.** *Falling fragments of the demolition material could injure you or any bystanders.*
- g) **Hold the power tool firmly with both hands and make sure you have a stable footing.** *The power tool can be more securely guided with both hands.*

INTENDED USE

The machine is intended for hammer drilling and chiseling in concrete, brick. It is also suitable for drilling without impact in wood, metal, ceramic and plastic.

SPECIFICATIONS



Components

- | | |
|-------------------------------|---|
| 1. Tool holder locking sleeve | 4. Function mode selection switch |
| 2. Dust protection cap | 5. Forward and reverse rotation control |
| 3. Depth gauge | 6. On/off switch |

Technical specifications

Model No.	CRHLI20268 CRHLI20268xy	UCRHLI20268 UCRHLI20268xy
Rated voltage	20V	20V
No load speed	0-1100r/min	0-1100r/min
Impact rate	0-5000/min	0-5000/min
Impact energy	2.5 J	2.5 J
Max. drilling capacity steel	13 mm	1/2"
Max. drilling capacity wood	30 mm	1-3/16"
Max. drilling capacity concrete	26 mm	1"

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.

Accessories

1. Drill bits 3 Pcs
2. Chisel 1 Pcs

Noise/Vibration information

The noise emission, measured in accordance with EN62841-2-6:

Sound pressure level	L_{pA}	92,5 dB (A)
Sound power level	L_{wA}	100,5 dB (A)
Uncertainty	K	3 dB (A)

Wear hearing protection!

The vibration total value and its uncertainty determined according to EN62841-2-6:

Hammer drilling into concrete

Vibration emission value	a_h	7,376 m/s ²
Uncertainty	K	1,5 m/s ²

Chiseling

Vibration emission value	a_h	13,323 m/s ²
Uncertainty	K	1,5 m/s ²

That the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

That the declared vibration total value may also be used in a preliminary assessment of exposure.

WARNING!

- That the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used;
- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

⚠ WARNING!

Only use original battery pack and battery charger as below for this power tool:

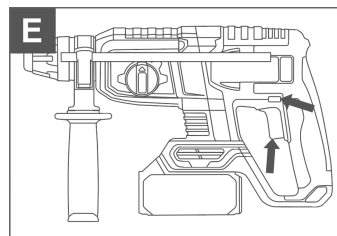
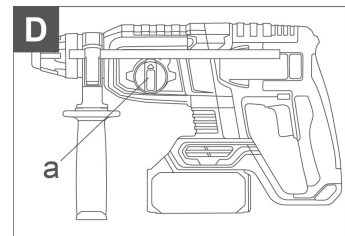
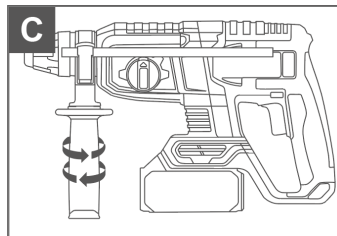
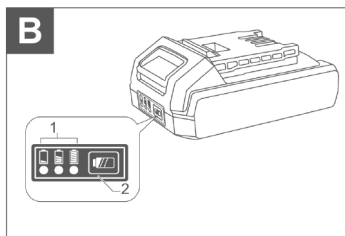
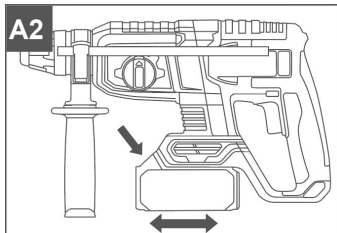
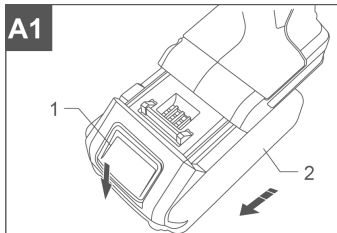
Product	Battery pack		
Model No.	Type	Rated voltage	Rated capacity
FBLI2001 FBLI2001xy	Lithium-Ion	18.5V d.c., 20V Max	2.0Ah
FBLI2002 FBLI2002xy			4.0Ah
FBLI2003 FBLI2003xy			5.0Ah

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

Product	Battery pack charger			
Model No.	Input power	Input voltage	Output rated voltage	Output rated current
FCLI2001 FCLI2001xy	50W	220-240V ~50/60Hz	20V d.c.	2A
FCLI2001-9		100-240V ~50/60Hz		
UFCLI2001 UFCLI2001xy		110-120V ~50/60Hz		
FCLI20411 FCLI20411xy FCLI2034 FCLI2034xy	105W	220-240V ~50/60Hz	21V d.c.	4A
FCLI20411-9 FCLI2034-9		100-240V ~50/60Hz		
UFCLI20411 UFCLI20411xy UFCLI2034 UFCLI2034xy		110-120V ~50/60Hz		

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

OPERATION PICTURE



OPERATION

Assembly

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 (see Figure A)

Figure A: 1. Button 2. Battery cartridge

CAUTION!

- Always switch off the tool before installing or removing of the battery cartridge.
- 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 remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

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.

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.
- Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Indicating the remaining battery capacity (see Figure B)

Figure B: 1. Indicator lamps 2. Check button

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

Indicator lamps		Remaining capacity
 Lighted	 Off	
		>80%
		30% to 80%
		<30%

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

Inserting / removing the tools

CAUTION!

Inserting and removing drill bit in SDS take care that the dust protection cap is not damaged when changing tools.

Inserting

Clean and lightly oil the bit before inserting. Insert the dust-free bit into the bit holder with a twisting motion until it latches.

The bit locks itself. Check the locking by pulling on the tool.

Removing

Retract back the bit holder locking sleeve and pull out the bit.

WARNING!

Your new rotary hammer generates powerful forces to get your job done quickly and effectively. These forces may cause inferior quality SDS bits to break and jam in the chuck, we therefore recommend that only high quality SDS bits be used with this tool.

Auxiliary handle (see Figure C)

Slide the handle onto the hammer and rotate to the desired working position. To clamp the auxiliary handle rotates the handle clockwise. To loosen the auxiliary handle, rotate the handle counter-clockwise.

 **WARNING! Always use the auxiliary handle.**

Adjustable depth gauge

Loosen the depth gauge by rotating the handle counter-clockwise. Slide the depth gauge until the distance between the depth gauge end and the drill bit end is equal to the depth of hole/screw you wish to make. Then clamp the depth gauge by rotating the handle clockwise.

Switch lock (see Figure D)

The switch trigger can be locked in the OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation control in the center position.

Forward and reverse rotation control

Forward rotation: Push the forward and reverse rotation control to the left "◀", for drilling.

Reverse rotation: Push the forward and reverse rotation control to the right "▶", for removing the drill bits.

WARNING!

Never change the direction of rotation while the tool is rotating, wait until it has stopped.

Overload protection

When overloaded, the motor comes to a stop. Relieve the load on the machine immediately and allow cooling for approx. 30 seconds at the highest no-load speed.

Temperature dependent overload protection

When using as intended for, the power tool cannot be subject to overload. When the load is too high or the allowable battery temperature of 75°C is exceeded, the electronic control switches off the power tool until the temperature is in the optimum temperature range again.

Protection against deep discharging

The Li-ion battery is protected against deep discharging by the "Discharging Protection System". When the battery is empty, the machine is switched off by means of a protective circuit: The inserted tool no longer rotates.

Function mode selection

WARNING!

The selector switches may only be used when the motor has come to a complete standstill. Otherwise, the inserted tool can turn unintentionally or cause damage to the machine.

The operation of the gearbox for each application is set with the function selector. To change between functions, depress the unlocking button (a) and rotate the selector to the desired operating mode.

	Mode for simultaneous drilling and impacting of concrete, masonry
	Mode for or drilling into steel, wood and plastics
	Mode for or chiseling
	Mode for adjust the chuck angle of chiseling

NOTE: Select this function mode first, adjust the chuck angle to desired direction. Then select the function mode to "  ", operate the chiseling work.

 WARNING: The operating mode selector switch may be actuated only at a standstill.

Operation

Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate.

On/Off switch (see Figure E)

Depress the On/Off switch to start and release it to stop your tool.

On/Off switch with variable speed control.

Depress the On/Off switch to start and release it to stop your tool. This tool has a variable speed switch that delivers higher speeds with increased trigger pressure or delivers lower speeds with reduced trigger pressure - speed is controlled by varying the pressure applied to the switch.

Drilling and chiseling** WARNING**

- **Do not apply excessive force on the hammer drill. Excessive pressure may damage the drill, chisel or the hammer drill and increases the risk of accident.**
- **For this reason, is it important to always grip the drill firmly with two hands and maintain a stable posture. The greater the diameter of the drill bit, the greater is the force on your arm.**
- **Always secure your workpiece in a vice or in any other clamping device. Secure particularly large workpieces against sliding or support them properly.**

Drilling

- a) Choose a drill bit appropriate for the application and insert it into the tool as described in chapter 'Inserting the tools'.
- b) Insert the drill bit properly at the desired location.
- c) Press the On / Off switch to start drilling.

Drilling with a keyed chuck (not included)** WARNING!**

Only work with the gear rim drill chuck (not included in the scope of delivery) when the percussion function is switched off.

NOTE: With the toothed rim drill chuck (not included in the scope of delivery), the hammer drill can also be used for drilling in iron, non-ferrous metals, wood or plastic.

- a) Insert the toothed rim drill chuck (not included in the scope of delivery) into the tool holder (see chapter "Inserting the tool").
- b) Choose a drill bit suitable for the machining and insert it into the keyed chuck.
- c) Place the drill chuck key (not included in the scope of delivery) in one of the holes on the spider.

- d) To tighten the chuck, turn the keyed chuck clockwise.
- e) To loosen the chuck, turn the keyed chuck anti-clockwise.
- f) Insert the drill bit properly at the desired location.

Press the On / Off switch to start drilling.

Selecting the appropriate drill bit

For drilling concrete and stone	Carbide tipped masonry drill bit
For metal	HSS drill bit (not included)
For wood	Twist drill bits for wood (not included)

Chiseling

- a) Choose a chisel appropriate for the material and insert it into the tool as described in chapter "Fitting and changing tools".
- b) Position the chisel using the rotation stop position, if necessary, as described in "Function selection".
- c) Insert the chisel properly at the desired location.
- d) Press the On / Off switch to start chiseling.

Working hints for your tool

If your power tool becomes over heated, set the speed to maximum and run no load for 2-3 minutes to cool the motor. SDS-plus tungsten carbide drill bits should always be used for concrete and masonry.

When drilling in metal, only use HSS drill bits in good condition. Where possible use a pilot hole before drilling a large diameter hole.

MAINTENANCE&MALFUNCTIONS

Cleaning

CAUTION!

- Always be sure that the tool is switched off and the battery cartridge is removed before cleaning or performing any maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Ventilation openings and switch levers must be kept clean and free of foreign matter. Regularly clean the tool's air vents or whenever the vents start to become obstructed. The tool may be cleaned most effectively with compressed dry air.

WARNING!

- Always wear safety goggles when cleaning tools with compressed air.
- Do not attempt to clean by inserting pointed objects through openings.

Maintenance

CAUTION!

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard.

Only use original spare parts / accessories from the manufacturer or authorized and qualified workshops.

Repairs should only be carried out by qualified technicians or by an authorized service center. Qualified technicians must have relevant training and experience, be familiar with the design and construction requirements of the product and understand and follow the safety regulations.

Protecting the Environment



Separate collection. Products marked with this symbol must not be disposed of with normal household waste. Products contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products according to local provisions.

Optional accessories

CAUTION!

Accessories or attachments are recommended for use with your 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 Authorized Service Center.

NOTE: Some Accessories or attachments may be included in the tool package as standard accessories. They may differ from country to country

Transportation of the power tools

WARNING!

Categorically not to drop any mechanical impact on the packaging during transport. When unloading / loading is not allowed to use any kind of technology that works on the principle of clamping packaging.

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

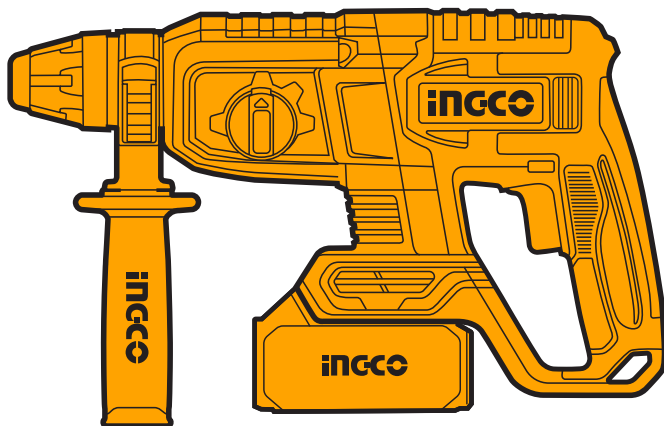
Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	● Switch failure ● The power cord or wiring is broken, power cord plug malfunction; ● No brush contact with the collector; ● Wear/damage of brushes	Disconnect the machine from the mains and contact a qualified specialist.
Formation of a circular fire on the collector	● Brush wear/damage of the brush holder; ● Malfunction in the armature coil	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
When working, smoke or the smell of burning insulation appears from the ventilation openings.	● Malfunction in the electric motor coil; ● Malfunction of the electrical part of the tool.	
Increased noise in the gearbox	● Wear/breakage of gears or bearings	
When the machine is turned on, the spindle does not rotate	● Gearbox failure.	

Critical state criteria

Critical state criteria	Probable causes	Actions
Cracks on the surfaces of bearing and housing parts	Fatigue deformation of metal	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
The power cord or plug is damaged	Overload or breakage	
Excessive wear or damage to the motor or reductor mechanism, or a combination of signs	Fatigue deformation of metal	

Critical state criteria

List of critical failures	Actions
Electric motor sparking	It is necessary to contact a qualified specialist
The appearance of extraneous noise	It is necessary to contact a qualified specialist
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	



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