



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：洒联中黄（防晒）2000g 洒联金红（防晒）225g 2.C色油墨：洒联天蓝墨 3.M色油墨：洒联金红墨 4.Y色油墨：pantone123C专色油墨 5.K色油墨：洒联黑墨	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	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

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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.CML120221货号修改为CML120228 2.更新规格电池包印字 3.更新公司信息 4.更新电池包模板大类安规			1.更新品名			更新电池包		
	0823 V01	2023.6.9	CRY	1023 V02	2023.10.10	GWY	0224 V03	2024.5.14	CH	1124 V04	2024.11.10	CH
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

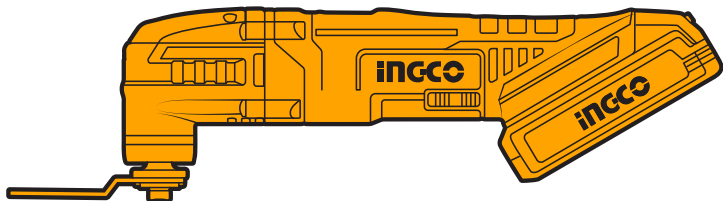
更改记录	1.增加宽电压								
	0825 V05	2025.8.26	siren						
	版本号	日期	设计师						

INGCO

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PRODUCT MANUAL

CORDLESS MULTI-TOOL



CMLI2022 UCMLI2022 CMLI2022xy UCMLI2022xy
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 TOOL 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

- 1. **Before using battery cartridge, read all instructions and cautionary markings on battery charger, battery, and) product using battery.**
- 2. **Do not disassemble battery cartridge.**
- 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:**
 - *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.*
6. **Do not store 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. **Be careful not to drop or strike battery.**
 9. **Do not use a damaged battery.**
 10. **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

	Li-Ion battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.
	Read the instruction manual before using.
	CE conformity.
	Wear protective gloves
	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.
	Direct current
	Do not destroy battery by fire.
	Do not expose battery to water

ADDITIONAL SAFETY WARNING

Safety information

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Use clamps or another practical way to secure and support the work piece to a stable platform. Holding the work piece by hand or against your body leaves it unstable and may lead to loss of control.
- Only use the power tool for dry sanding. Water entering a power tool will increase the risk of electric shock.
- Warning: Danger of fire! Avoid overheating the work piece and the sander. Always empty the dust collector before taking a break from work. Sanding dust in the dust bag, microfilter, paper bag (or in the filter bag or vacuum cleaner filter) can spontaneously combust under certain conditions, for example if flying sparks are created when sanding metals. This risk is increased if the sanding dust is mixed with paint or polyurethane residue or with other chemical substances and if the work piece is hot as a result of prolonged work.
- Keep hands away from the sawing area. Do not reach under the work piece. Contact with the saw blade can lead to injuries.
- Clean the air vents on your power tool regularly. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Use suitable detectors to determine if there are hidden supply lines or contact the local utility company for assistance. Contact with electric cables can cause fire and electric shock. Damaging gas lines can lead to explosion. Breaking water pipes causes property damage.
- 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.
- When changing the application tool, wear protective gloves. Application tools can become hot when used for prolonged periods of time.
- Do not scrape any dampened materials (e.g. wallpaper) or on damp surfaces. Water entering a power tool increases the risk of electric shock.
- Do not treat the surface you will be working on with any fluids that contain solvents. Poisonous vapors may develop due to the materials heating up when

being scraped.

- Take particular care when handling scrapers and blades. The application tools are very sharp. Danger of injury.
- In case of damage and improper use of the battery, vapors may be emitted. The battery can set alight or explode. Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The vapors may irritate the respiratory system.
- Do not open the battery. There is a risk of short-circuiting.
- The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally. An internal short circuit may occur, causing the battery to burn, smoke, explode or overheat.
- Only use the battery with products from the manufacturer. This is the only way in which you can protect the battery against dangerous overload.

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

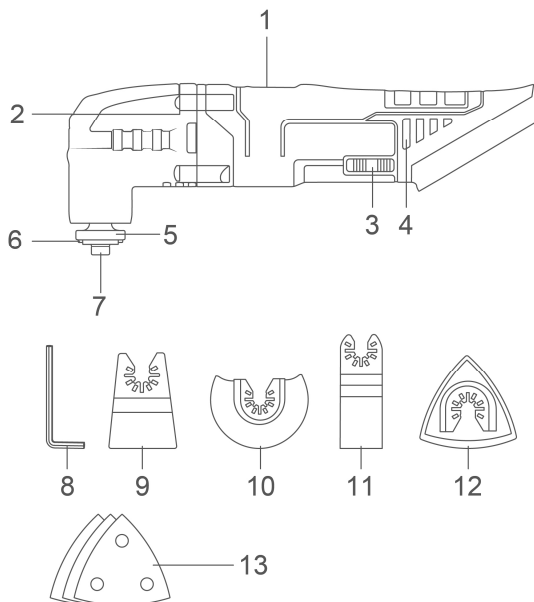
- a) Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.
- b) Injuries and damage to property to due to broken accessories that are suddenly dashed.

INTENDED USE

WARNING!

The device is intended for sawing, cutting and sanding. The preferred materials on which the device can be used are: Wood, plastic, drywall elements, light- and non-ferrous metals, fasteners (e. g. nails, screws), and wall tiles. It is particularly suitable for working close to edges and precise work. Any other use or modification to the device shall be considered as improper use and could give rise to considerable dangers. Not for commercial applications.

SPECIFICATIONS



Components

- | | |
|---|--------------------------|
| 1. ON / OFF switch | 7. Clamping bolt |
| 2. LED light | 8. Allen key |
| 3. Adjusting wheel oscillation speed preset | 9. Scraper |
| 4. Louvres | 10. Segment saw blade |
| 5. Tool mount | 11. HCS plunge saw blade |
| 6. Clamping plate | 12. Grinding plate |
| | 13. Sanding sheets |

Technical specifications

Model No.	CMLI2022 UCMLI2022 CMLI2022xy UCMLI2022xy
Rated voltage	20V
No-load speed	5000–20000/min

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.

⚠ WARNING!

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

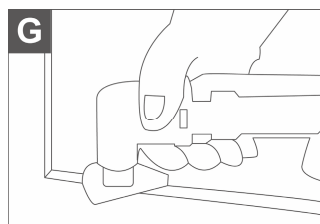
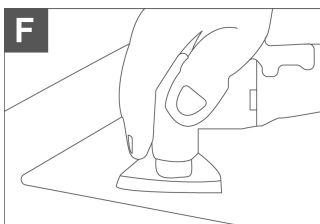
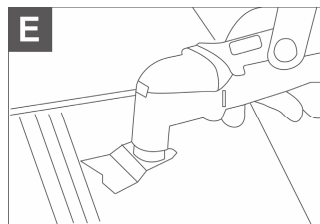
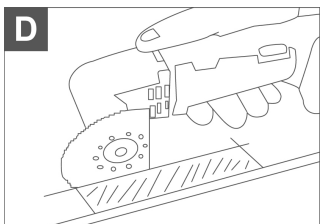
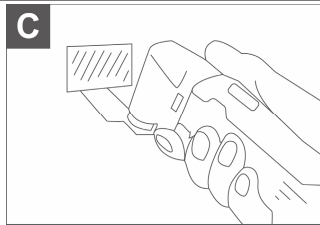
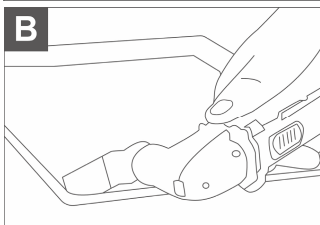
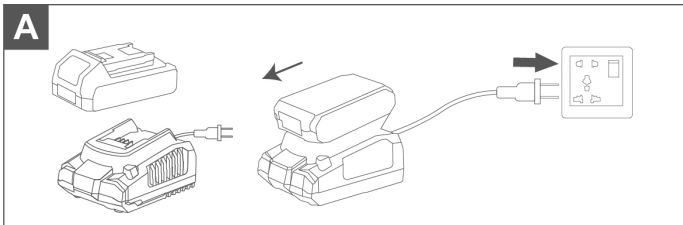
Product	Battery pack		
Model No.	Type	Rated voltage	Rated capacity
FBLI2001 FBLI2001xy	Lithium-Ion	18.5V d.c., 20V Max	2.0Ah
FBLI2002 FBLI2002xy			4.0Ah
FBLI2003 FBLI2003xy			5.0Ah

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)

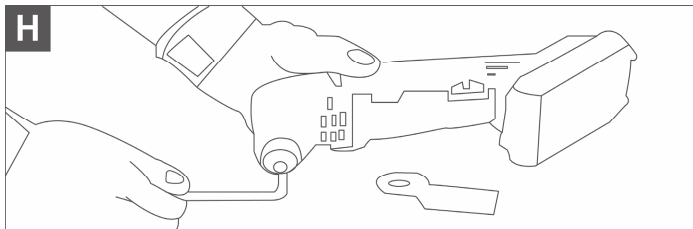
Product	Battery pack charger			
Model No.	Input power	Input voltage	Output rated voltage	Output rated current
FCLI2001 FCLI2001xy	50W	220-240V ~50/60Hz	20V d.c.	2A
FCLI2001-9		100-240V ~50/60Hz		
UFCLI2001 UFCLI2001xy		110-120V ~50/60Hz		
FCLI20411 FCLI20411xy FCLI2034 FCLI2034xy	105W	220-240V ~50/60Hz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



FUNCTION DESCRIPTION

Advice on use

Principle of operation:

The oscillating motor allows the application tool to oscillate back and forth 5000 to 20000 times per minute. This allows for accurate working in the tightest of spaces.

Sawing / cutting:

- Use only undamaged, defect-free saw blades.
- Distorted, blunt or otherwise damaged saw blades could break.
- When sawing lightweight building materials, observe the statutory requirements and the manufacturer's recommendations.
- Use the device in plunge sawing mode on soft materials such as wood, gypsum plaster board etc. only!

Sanding:

Ensure that you use even contact pressure. This will increase sanding sheet life.

Start-up

Checking the battery charge

When the device is on, the battery status indicator indicates the status or the remaining power as follows:

3 green lights = maximum charge / power

2 green lights = medium charge / power

1 green lights = low charge – recharge battery

Charging a Battery (See Figure A)

1. Plug the charger into an appropriate outlet before insert battery pack, then the green light is bright and remaining ON continuously.
2. Insert the battery pack into the charger, making sure the battery pack is fully seated in the charger, the green light will blink repeatedly indicating that the charging progress has started.
3. The completion of charge will be indicated by the green light remaining ON continuously, the battery pack is fully charged and may be used at this time or left in the charger. Only pull the battery then you can remove it from the charger.

NOTE: To ensure maximum performance and life of lithium-ion battery packs, charge the battery pack fully before first use.

Changing the tool

Wear protective gloves when changing tools. There is a risk of injury when touching the application tools.

Selecting the application tool

Please observe the application tools intended for your power tool.

NOTE: The universal system with easy tool change fits common accessories.



HCS plunge saw blade

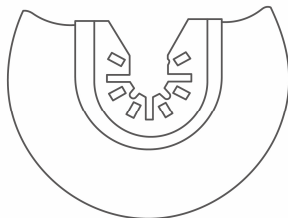
Materials:

Wood, plastic, plaster and other soft materials

Use:

- Cut-off and plunge saw cuts
- Sawing close to the edge, even in hard-to-reach areas

Example: cutting notches in light construction walls. (see Figure B and C)



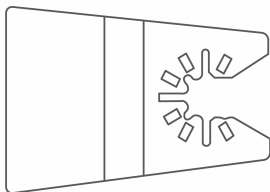
Segment saw blade

Material: Wood

Use:

- Cutting and plunge sawing
- Close to the edge sawing, even in difficult to access areas

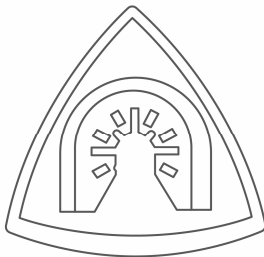
Example: Laying parquet and other floor coverings, including plunge sawing. (see Figure D)



Scraper

Materials: Motor / cement residue, tile / carpet adhesive, paint / silicone residue

NOTE: Removing material residue, for example carpet adhesive residue on floors (see Figure E)



Grinding plate

Materials:

Wood and metal (sanding sheets included), paint*, stone*

* Depending on sanding sheet

Use:

Sanding edges and hard to reach areas (see Figure F and G)

Changing the application tool (see Figure. H)

Danger of injury! Always remove the battery from the unit before working on the power tool.

- Remove any tool already inserted. To do this, release the clamping bolt (7) using the Allen Key (8) and take off the application tool
- Place the application tool (e.g. plunge saw blade) on the tool mount (5).

NOTE: You can place the application tool in any of the possible positions on the tool mount.

- Fasten the application tool in place with the clamping bolt (7) and clamping plate (6).
- Tighten the clamping bolt using the Allen key.
- Check that the application tool is firmly seated.
- Incorrectly or insecurely attached tools could become loose during use and injure you.

OPERATION

Switching On / Off

Slide the ON / OFF switch (1) forwards to switch on the device.

Slide the ON / OFF switch (1) backwards to switch off the device.

Selecting the oscillation speed

Preselect the required oscillation speed using the oscillation speed setting wheel (3)

NOTE: The required oscillation speed depends on the material and the working conditions and can be determined by means of a practical test.

MAINTENANCE&MALFUNCTIONS

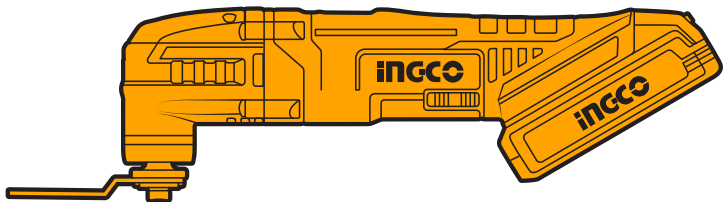
Maintenance and cleaning

Danger of injury!

Always remove the battery from the unit before working on the power tool.

- Do not use sharp objects for cleaning the device. Do not allow any liquids to enter the device.
- Otherwise, the device could be damaged.
- Clean the device frequently; for best results, do this immediately after you have finished using it.
- Use a dry cloth to clean the housing – under no circumstances use petrol, solvents or cleaning agents that attack plastic.
- A vacuum cleaner is required to thoroughly clean the device.
- Ventilation openings must always be kept free.
- Remove any adhering dust with a narrow paint brush.
- When storing a lithium-ion battery for extended periods, regularly check the charge. The optimal charge is between 50 % and 80 %. The optimal storage climate is cooling and dry

NOTE: Spare parts not listed (e. g. carbon brushes, switches) can be ordered through our call center.



MADE IN CHINA 0825.V05



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