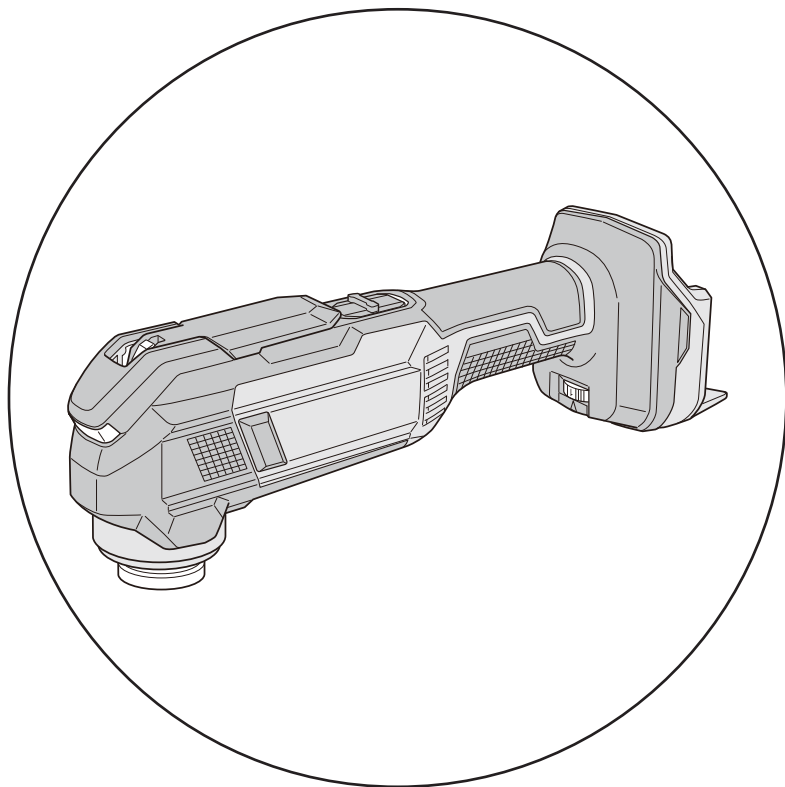


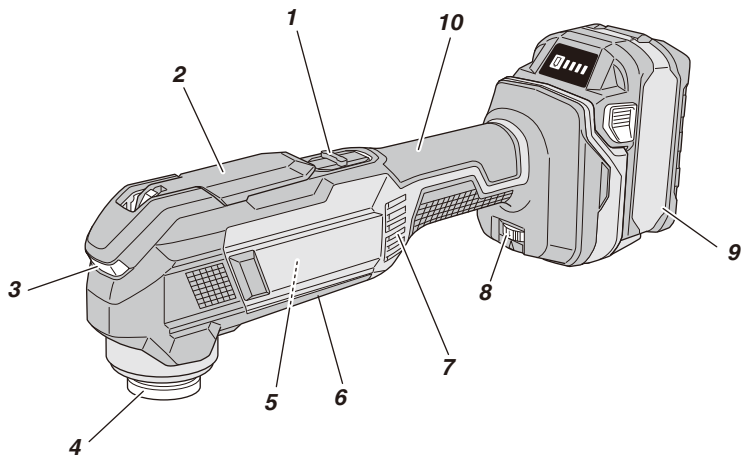
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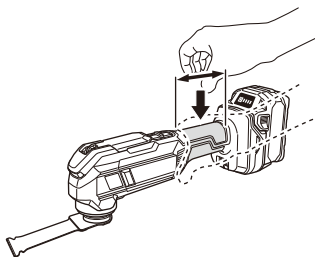
en Handling instructions

zh 使用說明書

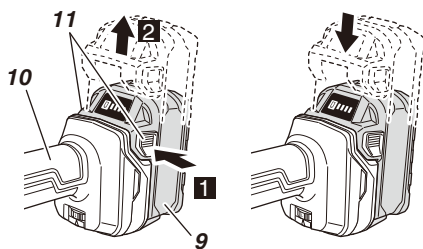
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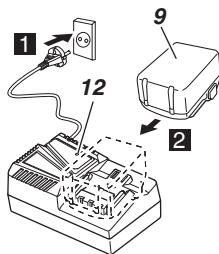
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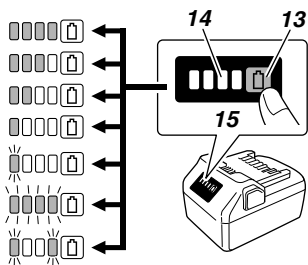
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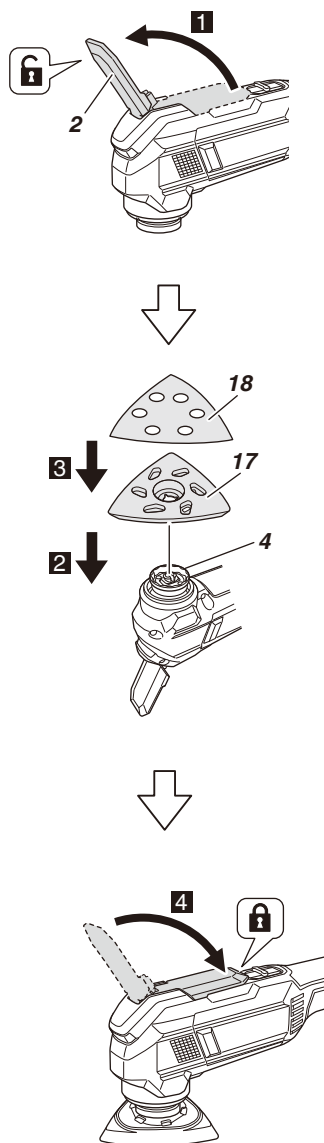
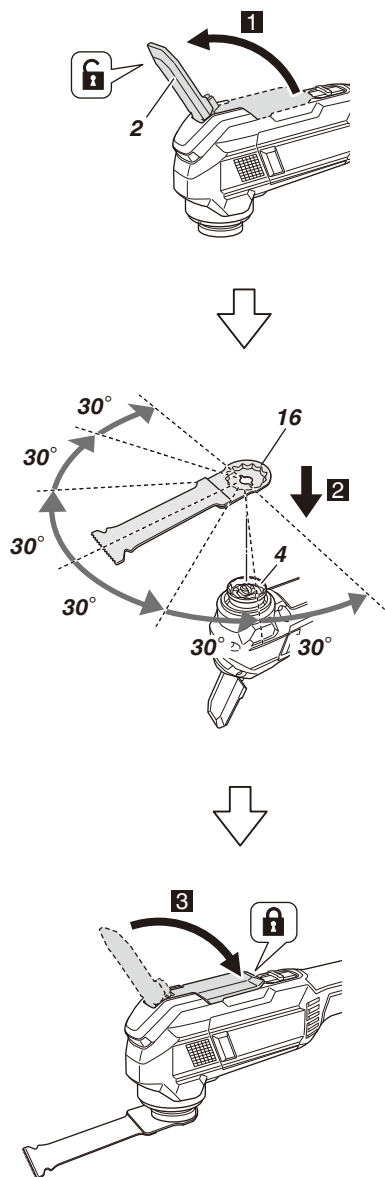


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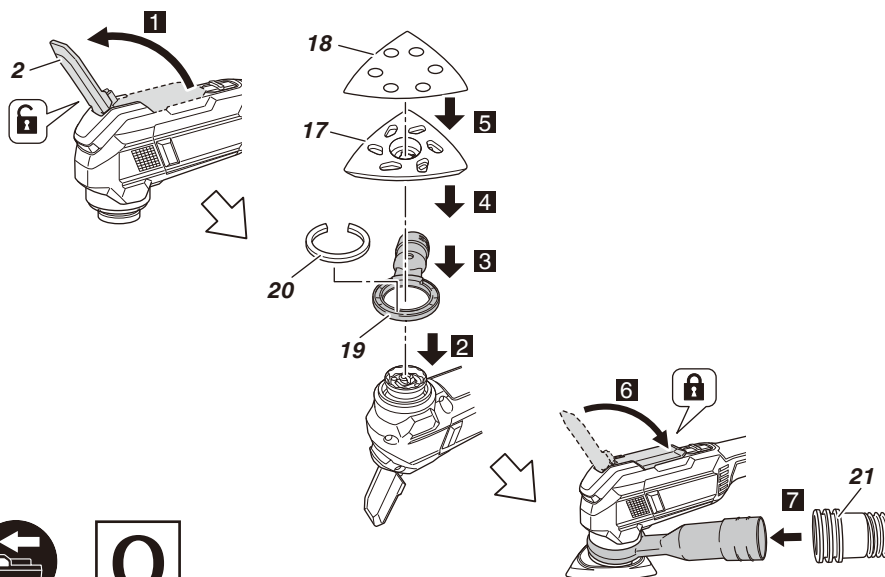


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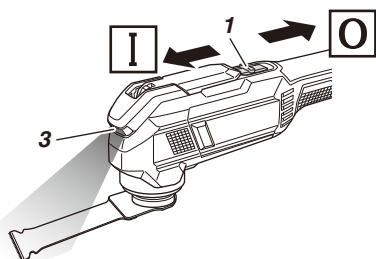




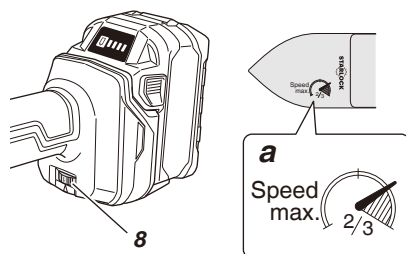
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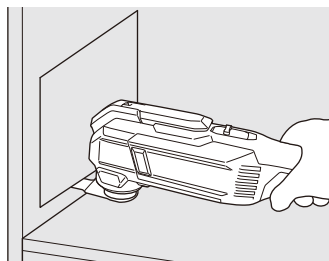
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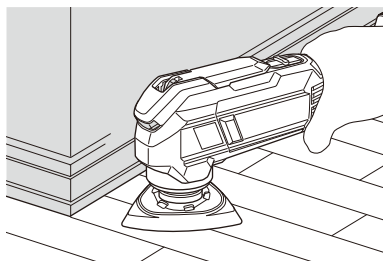
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11



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.**

English

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.

PRECAUTION

Keep children and infirm persons away.

When not in use, tools should be stored out of reach of children and infirm persons.

ADDITIONAL SAFETY WARNINGS

1. Always hold the tool firmly with one hand on housing (**Fig. 2**). Do not touch the metal part.
2. Make sure that the area to be cut is absolutely free of any hidden obstructions including electrical wiring, water, or gas pipes. Cutting into the aforementioned may result in electric shock or short circuit, gas leak or other hazards that can cause serious accidents or injuries.
3. Make sure to securely hold the tool during operation. Failure to do so can result in accidents or injuries.
4. Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
5. Setting up and checking the work environment. Check if the work environment is suitable by following the precaution.
6. Dust particles such as silica or asbestos are hazardous to your health. When working with materials containing these components, take appropriate dust-proofing measures.
7. Working with metal can cause sparks. Make sure there are no flammable and combustible materials in the vicinity and that they are stored in a safe location.
8. After use for continuous cutting or grinding works, rest the unit for 15 minutes or so when replacing the battery. The temperature of the motor, switch, etc., will rise if the work is started again immediately after battery replacement, eventually resulting in burnout.
9. The motor may stop in the event the tool is overloaded. In this should occur, release the tool's switch and eliminate the cause of the overload.
10. Do not touch the application tool, its attachment area or other metal surfaces immediately after use as they will be hot. Doing so may result in burns or injury. The metal is hot and can easily burn your skin.
11. Make sure that there is no one below when operating the tool in high locations. Dropping the tool or materials may result in accident or injury.
12. Never apply any unreasonable force to the application tool when working. Doing so will cause severe vibration making the work difficult, and also may break the application tool or damage the motor.
13. Do not leave the tool running unattended on the floor, table or other locations. Doing so may result in injury.
14. When attaching application tools, be careful not to get your fingers or other extremities caught in the lever.
15. If the application tool seems to be loose or uneven after attaching it to the unit, follow the instructions in **Fig. 6** and re-attach the tool. Operating the unit with a loose or uneven application tool may result in injury.
16. When switching on the tool, make sure the application tool is not in contact with any processing materials. Failure to do so may result in injury.
17. For cutting efficiency, switch the vibration frequency of the application tool according to task conditions and materials to be cut.
18. Do not use an application tool that has become dull. If it is used while dull, the counterforce when cutting will be strong and may cause injury.
19. After use, be sure not to place the tool near chips or sawdust before it comes to a full stop as the tool may suck in those particles.
20. Do not polish wood with sanding paper used for metal polishing.
21. Do not use worn or clogged sanding paper.
22. Do not look directly into the light. Such actions could result in eye injury.
Wipe off any dirt or grime attached to the lens of the LED light with a soft cloth, being careful not to scratch the lens.

CORDLESS MULTI TOOL SAFETY WARNINGS

1. **Hold the 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.
2. **Do not use this tool in wet applications.**
Water or moisture entering the tool could give the operator an electric shock.

Scratches on the lens of the LED light can result in decreased brightness.

23. Always charge the battery at a temperature of 0°C–40°C. A temperature of less than 0°C will result in over charging which is dangerous. The battery cannot be charged at a temperature higher than 40°C. The most suitable temperature for charging is that of 20°C–25°C.
24. Do not use the charger continuously.
When one charging is completed, leave the charger for about 15 minutes before the next charging of battery.
25. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
26. Never disassemble the rechargeable battery and charger.
27. Never short-circuit the rechargeable battery. Short-circuiting the battery will cause a great electric current and overheat. It results in burn or damage to the battery.
28. Do not dispose of the battery in fire. If the battery is burnt, it may explode.
29. Bring the battery to the shop from which it was purchased as soon as the post-charging battery life becomes too short for practical use. Do not dispose of the exhausted battery.
30. Do not insert objects into the air ventilation slots of the charger.
Inserting metal objects or inflammables into the charger air ventilation slots will result in electrical shock hazard or a damaged charger.
31. When using this unit continuously, the unit may overheat, leading to damage in the motor and switch. Therefore, whenever the housing becomes hot, give the tool a break for a while.
32. Make sure that the battery is installed firmly. If it is at all loose it could come off and cause an accident.
33. Do not use the product if the tool or the battery terminals (battery mount) are deformed.
Installing the battery could cause a short circuit that could result in smoke emission or ignition.
34. Keep the tool's terminals (battery mount) free of swarf and dust.
 - Prior to use, make sure that swarf and dust have not collected in the area of the terminals.
 - During use, try to avoid swarf or dust on the tool from falling on the battery.
 - When suspending operation or after use, do not leave the tool in an area where it may be exposed to falling swarf or dust.
Doing so could cause a short circuit that could result in smoke emission or ignition.
35. Always use the tool and battery at temperatures between -5°C and 40°C.

CAUTION ON LITHIUM-ION BATTERY

To extend the lifetime, the lithium-ion battery equips with the protection function to stop the output.

In the cases of 1 to 3 described below, when using this product, even if you are pulling the switch, the motor may stop. This is not the trouble but the result of protection function.

1. When the battery power remaining runs out, the motor stops.
In such a case, charge it up immediately.
2. If the tool is overloaded, the motor may stop. In this case, release the switch of tool and eliminate causes of overloading. After that, you can use it again.
3. If the battery is overheated under overload work, the battery power may stop.
In this case, stop using the battery and let the battery cool. After that, you can use it again.

Furthermore, please heed the following warning and caution.

WARNING

In order to prevent any battery leakage, heat generation, smoke emission, explosion and ignition beforehand, please be sure to heed the following precautions.

1. Make sure that swarf and dust do not collect on the battery.
 - During work make sure that swarf and dust do not fall on the battery.
 - Make sure that any swarf and dust falling on the power tool during work do not collect on the battery.
 - Do not store an unused battery in a location exposed to swarf and dust.
 - Before storing a battery, remove any swarf and dust that may adhere to it and do not store it together with metal parts (screws, nails, etc.).
2. Do not pierce battery with a sharp object such as a nail, strike with a hammer, step on, throw or subject the battery to severe physical shock.
3. Do not use an apparently damaged or deformed battery.
4. Do not use the battery for a purpose other than those specified.
5. If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
6. Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high pressure container.
7. Keep away from fire immediately when leakage or foul odor are detected.
8. Do not use in a location where strong static electricity generates.
9. If there is battery leakage, foul odor, heat generated, discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery charger, and stop use.
10. Do not immerse the battery or allow any fluids to flow inside. Conductive liquid ingress, such as water, can cause damage resulting in fire or explosion. Store your battery in a cool, dry place, away from combustible and flammable items. Corrosive gas atmospheres must be avoided.
11. Do not give a strong shock to the display panel or break it. It may lead to a trouble.
12. If alkaline lubricant or cutting fluid adheres to the battery, quickly wipe it off with a dry cloth.
Failure to do so may result in damage or degradation of the case.

CAUTION

1. If liquid leaking from the battery gets into your eyes, do not rub your eyes and wash them well with fresh clean water such as tap water and contact a doctor immediately.
If left untreated, the liquid may cause eye-problems.
2. If liquid leaks onto your skin or clothes, wash well with clean water such as tap water immediately.
There is a possibility that this can cause skin irritation.
3. If you find rust, foul odor, overheating, discolor, deformation, and/or other irregularities when using the battery for the first time, do not use and return it to your supplier or vendor.

WARNING

If a conductive foreign matter enters in the terminal of lithium ion battery, the battery may be shorted, causing fire. When storing the lithium ion battery, obey surely the rules of following contents.

- Do not place conductive debris, nail and wires such as iron wire and copper wire in the storage case.

English

- To prevent shorting from occurring, load the battery in the tool or insert securely the battery cover for storing until the ventilator is not seen.

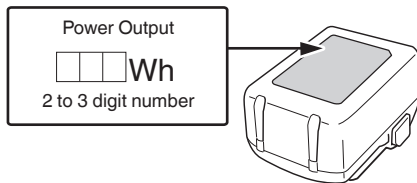
REGARDING LITHIUM-ION BATTERY TRANSPORTATION

When transporting a lithium-ion battery, please observe the following precautions.

WARNING

Notify the transportation company that a package contains a lithium-ion battery, inform the company of its power output and follow the instructions of the transportation company when arranging transport.

- Lithium-ion batteries that exceed a power output of 100 Wh are considered to be in the freight classification of Dangerous Goods and will require special application procedures.
- For transportation abroad, you must comply with international law and the rules and regulations of the destination country.



NAMES OF PARTS

The numbers in the list below correspond to **Fig. 1–Fig. 11**.

1	Switch
2	Lever
3	LED light
4	Attachment ring
5	Motor
6	Nameplate
7	Ventilation holes
8	Dial
9	Battery
10	Handle
11	Latch
12	Pilot lamp
13	Remaining battery indicator switch
14	Remaining battery indicator lamp
15	Display panel
16	Blade
17	Pad
18	Sanding paper
19	Dust collection adapter

20	Felt packing
21	Hose

SYMBOLS








WARNING

The following show symbols used for the machine. Be sure that you understand their meaning before use.

	CV36DMA: Cordless Multi Tool
	To reduce the risk of injury, user must read instruction manual.
	Direct current
	Rated voltage
	No-load speed
	Oscillation per minute
	Oscillation angle
	Attachable application tool
	Weight (When BSL36A18X is attached)
	Switching ON
	Switching OFF
	Disconnect the battery
	Lock
	Unlock
	Pad
	Sanding paper
	Blade
	Dust collection adapter set
	Accessory case
	Prohibited action

	Warning
---	---------

Battery

	Lights ; The battery remaining power is over 75%.
	Lights ; The battery remaining power is 50%–75%.
	Lights ; The battery remaining power is 25%–50%.
	Lights ; The battery remaining power is less than 25%.
	Blinks ; The battery remaining power is nearly empty. Recharge the battery soonest possible.
	Blinks ; Output suspended due to high temperature. Remove the battery from the tool and allow it to fully cool down.
	Blinks ; Output suspended due to failure or malfunction. The problem may be the battery so please contact your dealer.

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 20.

Standard accessories are subject to change without notice.

APPLICATIONS

- Flush cutting and pocket cutting of various materials
- Peeling of tiles, caulking, etc.
- Polishing wood materials, etc.

SPECIFICATIONS

1. Power tool

The specifications of this machine are listed in the Table on page 20.

NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.

2. Battery (sold separately)

Model	Voltage	Battery capacity
BSL36A18X	36 / 18 V*1	2.5 / 5.0 Ah*1

*1 The tool itself will automatically switch over.

CHARGING

Before using the power tool, charge the battery as follows.

<UC18YSL3 (sold separately)>

1. Connect the charger's power cord to the receptacle.

When connecting the plug of the charger to a receptacle, the charge indicator lamp will blink in red. (See **Table 1**)

2. Insert the battery into the charger.

Firmly insert the battery into the charger as shown in **Fig. 4** (on page 2).

3. Charging



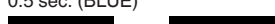




When inserting a battery in the charger, charging will commence and the charge indicator lamp will blink in blue.

When the battery becomes fully recharged, the charge indicator lamp will light up in green. (See **Table 1**)

(1) Charge indicator lamp indication

The indications of the charge indicator lamp will be as shown in **Table 1**, according to the condition of the charger or the rechargeable battery.

Table 1: Indications of the charge indicator lamp

ON/OFF at 0.5 sec. intervals (RED) 	Before charging *1
Lights for 0.5 sec. at intervals of 1 sec. (BLUE) 	Charged at less than 50%
Lights for 1 sec. at intervals of 0.5 sec. (BLUE) 	Charged at less than 80%
Lights continuously (BLUE) 	Charged at more than 80%
Lights continuously (Continuous buzzer sound: about 6 sec.) (GREEN) 	Charging complete
ON/OFF at 0.3 sec. intervals (RED) 	Overheat standby *2
ON/OFF at 0.1 sec. intervals (Intermittent buzzer sound: about 2 sec.) (PURPLE) 	Charging impossible *3

NOTE

*1 If the red lamp continues to blink even after the charger has been attached, check to confirm that the battery has been fully inserted.

*2 Battery overheated. Unable to charge. Although charging will start once the battery has cooled down even when left in situ, the best practice is to remove the battery and allow it to cool down in a shaded, well-ventilated location before charging.

*3 Malfunction in the battery or the charger

- Fully insert the battery.
- Check to confirm that no foreign matter is stuck to the battery mount or terminals. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

English

- When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of the failures. Once the charging has been completed, give 5 minutes rest until the next charging.
- (2) Regarding the temperatures and charging time of the battery (See **Table 2**)

Table 2

Model	UC18YSL3	
Type of battery	Li-ion	
Charging voltage	14.4–18 V	
Temperatures at which the battery can be recharged	0°C–50°C	
Charging time for battery capacity, approx. (At 20°C)	1.5 Ah	15 min
	2.0 Ah	20 min
	2.5 Ah	25 min
	3.0 Ah	20 min (BSL1430C, BSL1830C: 30 min)
	4.0 Ah	26 min (BSL1840M: 40 min)
	5.0 Ah	32 min
	6.0 Ah	38 min
Charging time for multi volt battery capacity, approx. (At 20°C)	1.5 Ah (x 2 unit)	20 min
	2.5 Ah (x 2 unit)	32 min
	4.0 Ah (x 2 unit)	52 min
Number of battery cells	4–10	
Weight	0.6 kg	

NOTE

- The recharging time may vary according to the ambient temperature and power source voltage.
- If charging takes a long time
 - Charging will take longer at extremely low ambient temperatures. Charge the battery in a warm location (such as indoors).
 - Do not block the air vent. Otherwise the interior will overheat, reducing the charger's performance.
 - If the cooling fan is not operating, contact a HiKOKI Authorized Service Center for repairs.

4. Disconnect the charger's power cord from the receptacle.

5. Hold the charger firmly and pull out the battery.

NOTE

Be sure to pull out the battery from the charger after use, and then keep it.

Regarding electric discharge in case of new batteries, etc.

As the internal chemical substance of new batteries and batteries that have not been used for an extended period is not activated, the electric discharge might be low when using them the first and second time. This is a temporary phenomenon, and normal time required for recharging will be restored by recharging the batteries 2–3 times.

How to make the batteries perform longer.

- (1) Recharge the batteries before they become completely exhausted. When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.
- (2) Avoid recharging at high temperatures. A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

MOUNTING AND OPERATION

Action	Figure	Page
Removing and inserting the battery	3	2
Remaining battery indicator	5	2
Mounting the application tool*1	6	3
Mounting dust collection adapter*2	7	4
Switch operation *3	8	4
Adjusting operating speed*4	9	4
Sawing	10	4
Sanding	11	4
Selecting accessories*5	—	21

*1 Mounting the application tool

CAUTION

The lever is attached to a strong spring. Be very careful not to get your fingers caught when pushing the lever down.

*2 Mounting dust collection adapter

For use with MSU93D only

*3 Switch operation

When the switch is turned on, the LED light blinks at the same time.

*4 Adjusting operating speed

You can change the vibration frequency between 6000 to 20000 /min by adjusting the dial from "1" to "6". Adjust the dial for the speed that best suits your task conditions and materials.

Some vibration frequencies may cause the application tool to vibrate vertically. If that happens, adjust the dial and avoid using that vibration frequency.

CAUTION

Application tools that have the mark shown in **Fig. 9-a**, and the application tools in the table below, should be used at about 2/3 of the maximum rotating speed (about "4" on the dial). If the rotating speed is raised too high, the vibration of the application tool may become severe.

Product No.	MMI32PH
	MMD32PBC
	MMD52PBC
	MMD100SB
	MMW32PC

- *5 Select accessories that are suited to a specific task. For details contact HiKOKI Authorized Service Center.

MAINTENANCE AND INSPECTION

WARNING

Be sure to turn off the switch and remove the battery before maintenance and inspection.

1. **Inspecting the application tool**
Continued use of a dull or damaged application tool will result in reduced cutting efficiency and may cause overloading of the motor. Replace the application tool with a new one as soon as excessive abrasion is noted.
2. **Inspecting the mounting screws**
Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.
3. **Maintenance of the motor**
The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
4. **Inspection of terminals (tool and battery)**
Check to make sure that swarf and dust have not collected on the terminals.
On occasion check prior, during and after operation.
5. **Cleaning on the outside**
When the power tool is stained, wipe with a soft dry cloth or a cloth moistened with soapy water. Do not use chloric solvents, gasoline or paint thinner, for they melt plastics.
6. **Storage**
Store the power tool and battery in a place in which the temperature is less than 40°C and out of reach of children.

NOTE

Storing lithium-ion batteries.

Make sure the lithium-ion batteries have been fully charged before storing them.

Prolonged storage (3 months or more) of batteries with a low charge may result in performance deterioration, significantly reducing battery usage time or rendering the batteries incapable of holding a charge.

However, significantly reduced battery usage time may be recovered by repeatedly charging and using the batteries two to five times.

If the battery usage time is extremely short despite repeated charging and use, consider the batteries dead and purchase new batteries.

CAUTION

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.

Important notice on the batteries for the HiKOKI cordless power tools

Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power tool when used with batteries other than these designated by us, or when the battery is disassembled and modified (such as disassembly and replacement of cells or other internal parts).

一般安全規則

⚠ 警告

閱讀所有安全警告說明

未遵守警告與說明可能導致電擊、火災或其他嚴重傷害。

請妥善保存本使用說明書，以供未來參考之用。

「電動工具」一詞在警告中，係指電源操作（有線）之電動工具或電池操作（無線）之電動工具。

1) 工作場所安全

- a) 保持工作場所清潔及明亮。
雜亂或昏暗的區域容易發生意外。
- b) 勿在易產生爆炸之環境中操作，譬如有易燃液體、瓦斯或粉塵存在之處。
電動工具產生火花會引燃粉塵或煙氣。
- c) 當操作電動工具時，確保兒童及過往人員遠離。
分神會讓您失去控制。

2) 電氣安全

- a) 電動工具插頭必須與插座配合，絕不可以任何方法修改插頭，且不得使用任何轉接插頭於有接地之電動工具。
不修改插頭及所結合之插座，可減少電擊。
- b) 避免身體接觸到地面，諸如管子、散熱器、爐灶及冰箱。
如果您的身體接地或觸地，會增加電擊的危險。
- c) 勿讓電動工具淋雨或曝露在潮濕的環境下。
電動工具進水會增加電擊的危險。
- d) 勿濫用電源線。請勿使用電源線去纏繞、拖拉電動工具或拔插頭，保持電源線遠離熱氣、油氣、尖角或可動零件。
損壞或纏繞的電源線會增加電擊之危險。
- e) 電動工具在室外操作時，請務必使用適合室外用的延長線。
使用合適之室外用延長線會減少電擊的危險。
- f) 若無法避免在潮濕地區操作電動工具，請使用以漏電斷路器 (RCD) 來保護電源。
使用 RCD，可降低觸電危險。

3) 人員安全

- a) 保持機警，注意您正在做什麼，並運用正確常識操作電動工具。當您感到疲勞或受藥品、酒精或醫療影響時，請勿操作電動工具。
操作中瞬間的不注意，可能造成人員嚴重的傷害。
- b) 使用個人防護裝備，經常配戴安全眼鏡。

配戴防塵口罩、防滑安全鞋、硬帽等防護裝備，或在適當情況下使用聽覺防護，可減少人員傷害。

- c) 防止意外發生。在連接電源或電池組、拿起或攜帶工具前，請確認開關是在「off」（關閉）的位置。
以手指放在開關握持電動工具，或在電動工具的開關於「on」的狀況下插上插頭，都會導致意外發生。
- d) 在電動工具啟動前，先卸下任何調整用鑰匙或扳手。
扳手或鑰匙遺留在電動工具的轉動部位時，可能導致人員傷害。
- e) 身體勿過度伸張，任何時間要保持站穩及平衡。
以便在不預期的狀態下，能對電動工具有較好的控制。
- f) 衣著要合宜，別穿太鬆的衣服或戴首飾。保持你的頭髮、衣服及手套遠離轉動部位。
寬鬆的衣服、手飾及長髮會被捲入轉動部位。
- g) 如果裝置要用於粉塵抽取及集塵設施，要確保其連接及正當使用。
使用集塵裝置可減少與灰塵相關的危險。
- h) 請勿因頻繁使用本工具，熟悉操作而忽略本工具的安全原則。
粗心的行動有可能瞬間即造成嚴重傷害。

4) 電動工具之使用及注意事項

- a) 勿強力使用電動工具，使用正確之電動工具為您所需。
正確使用電動工具，會依其設計條件，使工作做得更好更安全。
- b) 如果開關不能轉至開或關的位置，勿使用電動工具。
任何電動工具不能被開關所控制是危險的，必須要修理。
- c) 進行任何調整、更換配件或收存電動工具時，必須將插頭與電源分開，且需將電池組從電動工具中取出。
此種預防安全措施，可減少意外開啟電動工具之危險。
- d) 收存停用之電動工具，需遠離兒童，且不容許不熟悉電動工具或未瞭解操作電動工具說明的人操作電動工具。
在未受過訓練的人手裡，電動工具極為危險。
- e) 保養電動工具，檢查是否可動零件有錯誤的結合或卡住、零件破裂及可能影響電動工具操作的任何其他情形。電動工具如果損壞，在使用前要修好。
許多意外皆肇因於不良的保養。
- f) 保持切割工具銳利清潔。

適當的保養切割工具，保持銳利之切削鋒口，可減少卡住並容易控制。

- g) 按照說明書使用電動工具、配件及刀具時，必須考量工作條件及所執行之工作。

若未依照這些使用說明操作電動工具時，可能造成相關之危害情況。

- h) 保持把手和握持面乾燥、清潔，且未沾到油脂和潤滑油。
滑溜的把手和握持面在操作時會有安全上的問題，且可能造成本工具意外失去控制。

5) 電池式電動工具的使用及注意事項

- a) 需再充電時，僅能使用製造商指定的充電器。因充電器僅適合同一型式的電池組，若使用任何其它電池組時，將導致起火的危險。

- b) 使用電動工具時，僅能使用按照其特性設計的電池組。

因使用其它任何電池組時，將導致人員傷害及起火的危險。

- c) 當電池組不再使用時，需保存好並遠離其它的金屬物件，例如：迴紋針、錢幣、鑰匙、圖釘、螺釘，或類似可能造成端子與端子間連接的其它較小金屬物件。

因電池組端子間短路時，將導致燃燒或起火的危險。

- d) 在誤用情況下，電解液可能自電池中噴出；請避免接觸。當發生意外接觸時，請用清水沖洗。若電解液觸及眼睛時，請儘速尋求醫療協助。

因自電池中噴出的電解液，將導致灼傷或刺激皮膚。

- e) 請勿使用損壞或改造的電池組或電動工具。損壞或改造的電池可能會發生不可預知的行為，進而導致火災、爆炸或受傷的風險。

- f) 請勿使電池組或電動工具接觸到火源或處於溫度過高的地方。

接觸火源或溫度超過130°C可能會引起爆炸。

- g) 請遵循所有充電指示，並且不要在說明書指定的溫度範圍之外為電池組或電動工具充電。充電不當或溫度超出指定範圍可能會損壞電池並增加火災的風險。

6) 維修

- a) 讓您的電動工具由合格修理人員僅使用相同的維修零件更換。

如此可確保電動工具的安全得以維持。

- b) 切勿對損壞的電池組進行維修。

電池組的維修只能由製造商或授權服務維修店進行。

注意事項

不可讓孩童和體弱人士靠近工作場所。

應將不使用的電動工具存放在孩童和體弱人士伸手不及的地方。

充電式磨切機安全警告

1. 進行切割配件可能接觸到暗線的操作時，請握著電動工具的絕緣手柄表面。

接觸到“通電”電線的切割配件可能使電動工具的金屬零件“通電”，而造成操作人員觸電。

2. 請勿將此工具用於濕式用途。

進入工具的水或濕氣可能會使操作人員觸電。

額外的安全警告

1. 務必將一隻手放在機殼上牢牢握住工具（圖 2）。請勿觸摸金屬零件。

2. 請確保要切割的部位絕無任何隱藏的障礙物，如電線、水管或瓦斯管線。切入上述的障礙物可能會導致觸電或短路、瓦斯洩漏或其他危險，並可能造成嚴重的事故或傷害。

3. 操作時請務必牢牢地握住本工具。否則可能會導致事故或受傷。

4. 將工件固定住。用夾緊裝置或虎鉗夾住工件會比用手握持更安全穩固。

5. 準備並檢查工作環境。按照下列的預防措施，確認工作環境是否適當。

6. 二氧化矽或石棉等塵粒對您的健康有害。使用含有這些成分的材料時，請採取適當的防塵措施。

7. 處理金屬會產生火花。確保附近沒有易燃和可燃材料，並將其存放在安全的地方。

8. 用於連續切割或研磨作業後，更換電池時請讓本機靜置 15 分鐘左右。如果更換電池後立即重新開始作業，馬達、開關等的溫度會升高，最終導致燒毀。

9. 本工具過載的情況下，馬達可能會停止。這種狀況發生時，請釋放工具的開關並消除造成過載的原因。

10. 使用後請勿立即觸摸應用工具、其連接區域或其他金屬表面，因為它們會很燙。否則可能會導致燙傷或受傷。金屬很燙，很容易燙傷您的皮膚。

11. 在高處操作本工具時，請確保沒有人下面。掉落本工具或材料可能會導致事故或受傷。

12. 作業時切勿對應用工具施加任何不合理的力量。否則會引起劇烈振動，使作業變得困難，也可能損壞應用工具或損壞馬達。

13. 請勿讓本工具在無人看管的狀態下在地板、桌子或其他地方運行。否則可能會導致受傷。

14. 安裝應用工具時，注意不要讓您的手指或其他肢體被操作桿夾住。

15. 如果應用工具在連接到裝置後看起來鬆動或不平坦，請按照 圖 6 中的說明重新連接工具。使用鬆動或不平坦的應用工具操作裝置可能會導致受傷。
16. 將工具開機時，確保應用工具未接觸任何加工材料。否則可能會導致受傷。
17. 為了提高切割效率，請根據工作條件和要切割的材料切換應用工具的振動頻率。
18. 請勿使用已經變鈍的應用工具。如果在變鈍的狀態下使用，切割時的反作用力會很強，而且可能會造成傷害。
19. 使用後，確保在工具完全停止之前不要將工具放在切屑或鋸屑附近，因為工具可能會吸入這些顆粒。
20. 請勿使用金屬拋光用的砂紙來拋光木材。
21. 請勿使用磨損或堵塞的砂紙。
22. 請勿直視燈泡。若直視，可能會導致眼睛受傷。用軟布擦去附著在LED鏡頭上的灰塵或污垢，注意不要刮傷鏡頭。LED鏡頭上的刮痕可能會導致亮度下降。
23. 務請在 0–40°C 的溫度下進行充電。溫度低於 0°C 將會導致充電過度，極其危險。電池不能在高於 40°C 的溫度下充電。最適合於充電的溫度是 20–25°C。
24. 請勿連續使用充電器。
完成一次充電後，請將充電器擱置大約15分鐘，然後再進行下一次充電。
25. 請勿讓異物進入充電電池連接口內。
26. 切勿拆卸充電電池與充電器。
27. 切勿使充電電池短路。電池短路會造成極大電流和過熱。從而燒壞電池。
28. 請勿將電池丟入火中。燃燒電池會引起爆炸。
29. 充電後電池壽命若太短不夠使用，請盡快將電池送往經銷店。不可將用過的電池丟棄。
30. 請勿將異物插入充電器的通風口。
若將金屬異物或易燃物插入通風口的話，將會引起觸電事故或使充電器受損。
31. 連續使用本機時，本機可能出現過熱而導致馬達和開關損壞。因此，每當機殼變熱時，讓工具休息一會兒。
32. 確保電池安裝牢固。如果電池鬆動，可能會脫落而造成事故。
33. 如果工具或電池端子（電池座）變形，請勿使用本產品。
安裝電池可能會造成短路，從而導致冒煙或起火。
34. 保持工具的端子（電池座）沒有削屑和灰塵。
 - 使用前請確認端子區域沒有堆積削屑和灰塵。
 - 使用過程中盡量避免工具上的削屑或灰塵掉落在電池上。

- 暫停操作或使用後，請勿將工具留在可能暴露於有掉落削屑或灰塵的區域。
否則可能會造成短路，從而導致冒煙或起火。
35. 務必在-5°C至40°C的溫度下使用本工具和電池。

鋰離子電池使用注意事項

為延長使用期限，鋰離子電池配備停止輸出的保護功能。

若是在使用本產品時發生下列 1 至 3 的情況，即使按下開關，馬達也可能停止。這並非故障，而是啟動保護功能的結果。

1. 在殘留的電池電力即將耗盡時，馬達會停止。
在這種情況下，請立即予以充電。
2. 若工具超過負荷，馬達亦可能停止。在這種情況下，請鬆開工具的開關，試著消除超過負載的原因。之後您就可以再度使用。
3. 若電池在過載工作情況下過熱，電池電力可能會中止。
在這種情況下，請停止使用電池，讓電池冷卻。之後您就可以再度使用。

此外，請留心下列的警告及注意事項。

警告

為事先防止電池發生滲漏、發熱、冒煙、爆炸及起火等事故，請確保留意下列事項。

1. 確保電池上沒有堆積削屑及灰塵。
 - 在工作時確定削屑及灰塵沒有掉落在電池上。
 - 確定所有工作時掉落在電動工具上的削屑和灰塵沒有堆積在電池上。
 - 請勿將未使用的電池存放在曝露於削屑和灰塵的位置。
 - 在存放電池之前，請清除任何可能附著在上面的削屑和灰塵，並請切勿將它與金屬零件（螺絲、釘子等）存放在一起。
2. 請勿以釘子等利器刺穿電池、以鐵錘敲打、踩踏、丟擲電池，或將其劇烈撞擊。
3. 切勿使用明顯損壞或變形的電池。
4. 請依規定方式使用電池，切勿移作他用。
5. 如果已過了再充電時間，電池仍無法完成充電，請立即停止繼續充電。
6. 請勿將電池放置於高溫或高壓處，例如微波爐、烘乾機或高壓容器內。
7. 發現有滲漏或異味時，請立即將電池遠離火源處。
8. 請勿在會產生強烈靜電的地方使用。
9. 如電池出現滲漏、異味、發熱、褪色或變形，或在使用、充電或存放時出現任何異常，請立即將它從裝備或電池充電器拆下，並停止使用。

10. 請勿將電池浸入任何液體，或讓任何液體流入電池內。若水等具有傳導性的液體滲入，可能會造成損壞，進而導致火災或爆炸。將電池存放在陰涼、乾燥的地方，遠離可燃及易燃物品。必須避免腐蝕性氣體環境。
11. 請勿對顯示面板施加強烈的衝擊或將其折斷。這可能會引發問題。
12. 如果鹼性潤滑劑或切削液黏附在電池上，請迅速用乾布拭除。
否則可能會導致外殼損壞或劣化。

注意

1. 若電池滲漏出的液體進入您的眼睛，請勿搓揉眼睛，並以自來水等乾淨清水充分沖洗，立刻送醫。
若不加以處理，液體可能會導致眼睛不適。
2. 若液體滲漏至您的皮膚或衣物，請立即以自來水等清水沖洗。
上述情況可能會使皮膚受到刺激。
3. 若初次使用電池時發現生鏽、異味、過熱、褪色、變形或其他異常情況時，請勿使用並將該電池退還給供應商或廠商。

警告

若具有導電性的異物進入鋰離子電池的端子，可能會造成短路，進而引發火災。請在存放電池時遵循以下事項。

- 請勿將導電物品，如鐵釘、鐵絲等金屬絲，銅線和電線放入儲存箱內。
- 為了防止發生短路，將電池裝入工具內或確實壓下電池蓋儲存電池，直至遮住通風孔為止。

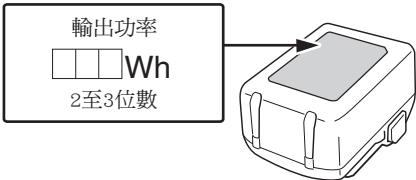
關於鋰離子電池的運輸

運輸鋰離子電池時，請遵守以下注意事項。

警告

安排運輸時，請通知運輸公司包裹中含有鋰離子電池，告知該電池之輸出功率，並按照運輸公司的指示。

- 輸出功率超過100 Wh 的鋰離子電池被視為貨物分類中的危險物品，將需要特殊的申請程序。
- 對於國外的運輸，必須遵守國際法規則和目的國法規。



各部位名稱

以下列表中的數字與圖 1－圖 11 相對應。

1	開關
2	控制桿
3	LED燈
4	連接環
5	馬達
6	銘牌
7	通氣孔
8	轉盤
9	電池
10	握把
11	卡桿
12	信號燈
13	電池剩餘量指示燈開關
14	電池剩餘量指示燈
15	顯示屏
16	鋸片
17	墊板
18	砂紙
19	集塵適配器
20	毛氈墊圈
21	軟管

符號




警告





以下為使用於本機器的符號。請確保您在使用前明白其意義。

	CV36DMA: 磨切機
	使用前請詳讀使用說明書
	直流電流
	額定電壓

	無負荷速度
	每分鐘振動
	回擺角
	可裝配的應用工具
	重量 (裝配了BSL36A18X時)
	開關ON
	開關OFF
	取出電池
	鎖定
	解鎖
	墊板
	砂紙
	鋸片
	集塵適配器組
	配件箱
	禁止操作
	警告

電池

	亮起： 電池剩餘電量超過75%。
	亮起： 電池剩餘電量為50%－75%。
	亮起： 電池剩餘電量為25%－50%。

	亮起： 電池剩餘電量少於25%。
	閃爍： 電池剩餘電量幾近零。請盡快進行充電。
	閃爍： 由於高溫導致輸出被暫停。從工具中取出電池，並使其完全冷卻。
	閃爍： 由於故障或機能失常導致輸出被暫停。問題可能是電池，請聯繫您的經銷商。

標準附件

除了主機身(1台)以外，包裝盒內包含第20頁所列之附件。

標準附件可能不預先通告而徑予更改。

用途

- 各種材料的平切和槽切
- 瓷磚剝落、嵌縫等
- 拋光木質材料等

規格

1. 電動工具
本機器的規格列於第20頁的表中。

註
HiKOKI不斷研究和開發新產品，若規格發生變更，恕不另行通知。

2. 電池 (另售)

機型	電壓	電池容量
BSL36A18X	36 / 18 V *1	2.5 / 5.0 Ah *1

*1 工具本身將自動切換。

充電

使用電動工具之前，按下述方法將電池進行充電。

- <UC18YSL3 (另售)>
1. 將充電器的電源線連接到插座。
當充電器的插頭連接到插座時，充電信號燈會閃爍紅燈。(見表 1)

2. 將電池裝入充電器。

將電池牢固地裝入充電器，如圖 4 所示（第 2 頁）。

3. 充電


將電池插入充電器後，就會開始充電，且充電指示燈會閃爍藍燈。

當電池已完全充電時，充電信號燈會亮起綠燈。
(見表 1)

(1) 充電信號燈指示

依據充電器或充電電池的狀態，充電信號燈會有不同的指示，如表 1 所示。

表 1: 充電信號燈的指示

每隔 0.5 秒 ON/OFF (紅) 	充電前 *1
每隔 1 秒亮燈 0.5 秒 (藍) 	充電低於 50%
每隔 0.5 秒亮燈 1 秒 (藍) 	充電低於 80%
持續亮燈 (藍) 	充電高於 80%
持續亮燈 (連續的蜂鳴聲： 約 6 秒) (綠) 	充電完成
每隔 0.3 秒 ON/OFF (紅) 	過熱待機 *2
每隔 0.1 秒 ON/OFF (間歇的蜂鳴聲：約 2 秒) (紫) 	無法充電 *3

註

*1 如果在連接充電器後紅色指示燈仍持續閃爍，請檢查以確認電池已完全插入。

*2 電池過熱。無法充電。

儘管電池在原位冷卻後會開始充電，但最佳做法是在充電前將電池取出並在陰涼、通風良好的地方冷卻。

*3 電池或充電器故障

- 完全插入電池。
- 檢查以確認沒有異物粘附在電池座或端子上。若沒有異物，則表示電池或充電器可能發生故障請將其送往當地授權服務中心。

- 連續使用電池充電器時，充電器溫度會升高，而造成充電失敗。一旦充電已經完成，請讓充電器休息5分鐘後，再進行下一次的充電。

(2) 關於電池的溫度和充電時間 (見表 2)

表 2

充電器機型		UC18YSL3
電池類型		鋰離子
充電電壓		14.4－18 V
電池可充電的溫度		0℃－50℃
依電池容量的 大約充電時間 （於20℃ 時）	1.5 Ah	15 分鐘
	2.0 Ah	20 分鐘
	2.5 Ah	25 分鐘
	3.0 Ah	20 分鐘 (BSL1430C, BSL1830C: 30 分鐘)
	4.0 Ah	26 分鐘 (BSL1840M: 40 分鐘)
	5.0 Ah	32 分鐘
	6.0 Ah	38 分鐘
MV電池容量的 大約充電時間 （於 20℃ 時）	1.5 Ah (× 2個)	20 分鐘
	2.5 Ah (× 2個)	32 分鐘
	4.0 Ah (× 2個)	52 分鐘
電池芯數		4－10
重量		0.6 kg

許

- 充電時間可能依環境溫度而有所不同。
- 如果充電時間很長
 - 在極低的環境溫度下充電將需要更長時間。請在溫暖的地方（例如室內）為電池充電。
 - 請勿堵塞通風口。否則內部會過熱，降低充電器的性能。
 - 如果冷卻風扇不運作，請聯繫 HiKOKI 授權服務中心進行維修。

中國語

4. 將充電器的電源線從插座拔下。
5. 抓穩充電器並取出電池。
- 註
- 充電後，先將電池從充電器中取出，然後妥善保存。

使用新電池或其他電池，產生電量較弱的問題時

由於新電池及長時間未使用之電池的內部化學物質未活化，因此初次及第二次使用時的電量會較弱。此為暫時現象；在充電 2 至 3 次後，電量就會恢復正常。

怎樣讓電池使用時間更長

- (1) 在電池電量完全耗盡之前給電池充電。在感覺工具的動力變弱時，停止使用工具並為電池充電。如果繼續使用工具消耗電流，可能會造成對電池的損壞，電池使用壽命會縮短。
- (2) 避免在高溫下充電。充電電池在剛使用後會發熱。如果在電池剛使用後為電池充電，電池的內部化學物質的性能會下降，電池使用壽命會縮短。請先將電池放置一會兒，待電池冷卻後再進行充電。

安裝和操作

動作	圖表	頁數
拆卸和安裝電池	3	2
電池剩餘量指示燈	5	2
安裝應用工具*1	6	3
安裝集塵適配器*2	7	4
開關操作 *3	8	4
調整運作速度*4	9	4
切鋸	10	4
打磨	11	4
選擇附件*5	—	21

*1 安裝應用工具

注意

操作槓連接到一個強力的彈簧。向下推操作桿時請特別小心不要夾到手指。

*2 安裝集塵適配器

僅適用於 MSU93D

*3 開關操作

當開關開啟時，LED 燈也同時閃爍。

*4 調整運作速度

透過調整轉盤「1」到「6」，振動頻率可在 6000 至 20000 /分鐘間進行更改。
調整轉盤以獲得最適合您的工作條件和材料的速度。
某些振動頻率可能會導致應用工具垂直振動。如果發生這種情況，請調整轉盤並避免使用該振動頻率。

注意
具有如圖 9-a所示標記的應用工具，以及下表中的應用工具，應以最大轉速的約2/3（約轉盤上的「4」）使用。如果轉速提升得太高，應用工具的振動可能會變得劇烈。

產品編號	MMI32PH
	MMD32PBC
	MMD52PBC
	MMD100SB
	MMW32PC

*5 選擇適合特定用途的附件。詳情請聯繫HiKOKI授權的維修中心。

維護和檢查

- 警告
- 進行維修和檢查之前，務必要關閉開關，並取出電池。
1. 檢查應用工具

持續使用變鈍或損壞的應用工具將導致切割效率降低並且可能造成馬達過載。一旦發現過度磨損，請立即將應用工具換新。
2. 檢查安裝螺釘

要經常檢查安裝螺釘是否緊固妥善。若發現螺釘鬆了，應立即重新扭緊，否則會導致嚴重的事故。
3. 馬達的維護

馬達繞線是電動工具的心臟部。應仔細檢查有無損傷，是否被油液或水沾濕。
4. 端子的檢查（工具和電池）

檢查以確保端子上沒有堆積削屑和灰塵。
有時於操作前、操作期間和操作後檢查。
5. 清理外部

電動工具髒汙時，請使用乾淨軟布或沾肥皂水的布擦拭。切勿使用氯溶液、汽油或稀釋劑，以免塑膠部分溶化。
6. 收藏

電動工具和電池應收藏於溫度低於 40℃ 且為小孩拿不到的地方。
- 註
- 存放鋰離子電池

存放鋰離子電池前，確保其已完全充電。

電池在低電力的狀態下長期存放（3個月以上），可能會導致性能劣化，電池的使用時間顯著降低或無法再進行充電。

然而，反覆將電池充電和暫停充電二至五次，可能會改善電池使用時間的顯著降低情況。

反覆充電後，若電池的使用時間仍呈現極短現象，表示電池壽命已盡，請購買新的電池。

注意







在操作和維修電動工具中，必須遵守各國的安全規則和標準規定。


HiKOKI 充電式工具電池重要注意事項

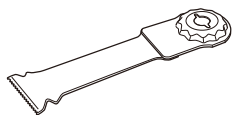
請務必使用本公司所指定的原廠電池。若未使用本公司所指定的電池，或使用經拆解及改裝的電池（例如，拆解後更換電池芯或其他內部零件），則本公司無法保證充電式工具的性能及操作安全。

註

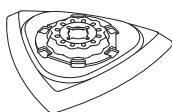
為求改進，本手冊所載規格可能不預先通告而徑予更改。

	CV36DMA		
V	36 V		
n_0	6000–20000 /min		
	4.0		
	 STARLOCK	 STARLOCK PLUS	 STARLOCK MAX
	2.0 kg		

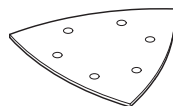
	CV36DMA
	NN
 MMD32PBC	1



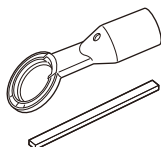
MMD32PBC : 782728



MSU93D : 782791



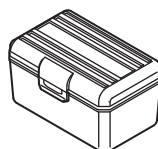
#60, 80, 100, 120, 180, 240



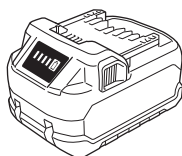
382792



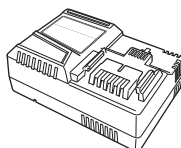
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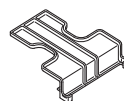
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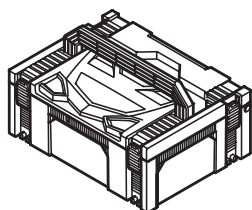
Multi volt (Li-ion)



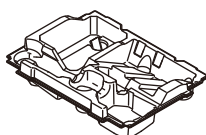
UC18YSL3 (14.4 V-18 V)



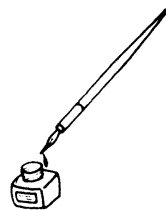
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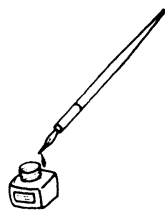


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