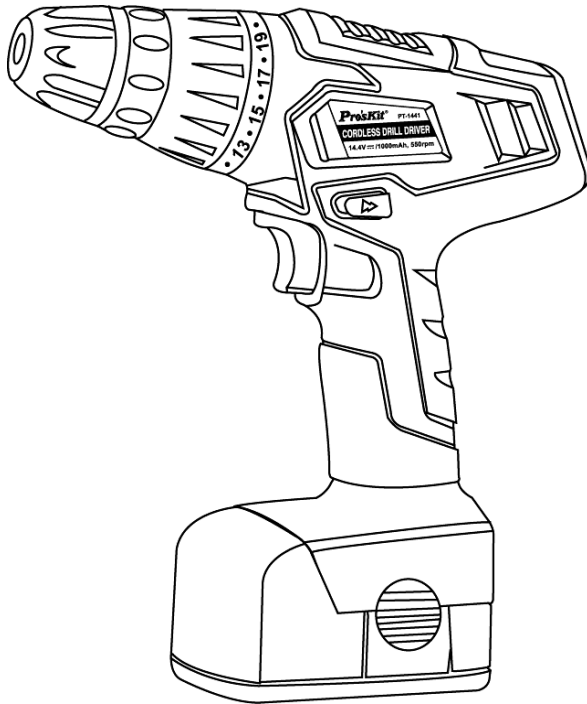


# Pro'sKit®

## PT-1441 Cordless Drill Driver 14.4V




**User's Manual**

1<sup>st</sup> Edition: 2013

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**Please read this handbook carefully before using the tool**

## **General Safety Rules**

 **WARNING** Read all safety warnings and all instructions. Failure to follow all warnings and instructions 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**

- a) Keep work area clean and well lit. Cluttered and 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 tools 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 safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off position before plugging in.

Carrying power tools with your finger on the switch or plugging in 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 jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry 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 these devices can reduce dust related hazards.

#### 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 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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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 and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could result in a hazardous situation.

#### 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 paperclips, 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 to contact the liquid. If contact accidentally, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- e) To ensure the maximum battery life and optima performance, always charge the battery before use.
- f) Please check if the tools still have power when not in use for a long time. If it still work, please use it until the battery discharge completely
- g) Battery will discharge automatically when not in use for a long time, if possible, please recharge the battery every 50 days
- h) Please keep ambience dry and proper temperature where the power tool was storage, otherwise, It will speed up the battery discharge. Hi-humidity will damage the battery and will make power tool rust

## 6) Service

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.

### **Special Safety Advice for Cordless Drill**

Only plug the Battery Charger in 230V for PT-1441F type and 120V for PT-1441A type mains. Recharge the Battery only with the provided charger. Before starting any work on walls, floors or similar, make sure that all power lines in the work area are switched off at the main switchboard. Inspect the proposed drill holes location for any utility lines (e.g. water, gas, power) before drilling. Use a suitable device such as a metal or electricity line detecting device. If in doubt contact a qualified electrician or your utility provider. Both tools and work-pieces can heat up considerably during the drilling operation. Allow a sufficient period of cooling before handling. Wear appropriate gloves.

### **Safety Advice for Rechargeable Battery and Charger**

Use only the battery provided with the drill or a replacement rechargeable battery from Pro'sKit and the provided charger. Only plug the battery charger in 230V for PT-1441F type and 120V for PT-1441A type mains. Protect battery and battery charger from humidity. Do not operate the battery charger outdoors. When it is not in use and before cleaning and servicing, disconnect the battery charger from the power supply. Take special care of the battery. Avoid dropping it onto any hard surface and do not subject it to pressure or any other form of mechanical stress. Keep the battery away from extreme heat and cold. Do not open or attempt to repair the battery or the battery charger. If any parts are defective, have them repaired by a qualified technician or send them to our service department for repair. Only charge the battery at an ambient (surrounding air) temperature between 10°C and 40°C. A charged battery can be used to power the machine under ambient temperature conditions between 0°C and 50°C. When not in use, store the battery in a dry place between 10°C and 30°C.

**Important! Danger!** Never short-circuit the battery or expose it to moisture. Do not store it together with any metal parts which could short-circuit the contacts. The battery could overheat, start burning or explode.

If any person comes into contact with acid or similar internal fluids or substances contained in the battery, wash off these substances immediately with plenty of water. If these substances make contact with the eyes, rinse with plenty of water and visit a doctor immediately.

Do not place the rechargeable battery into fire or water. It can explode. The Rechargeable Battery should not be discarded to domestic refuse, regardless of whether used or unused. You should return it to a local battery collection point in accordance with Battery Regulations or return them to us suitably marked "Used Battery".

## Technical Data

Model	PT-1441A	PT-1441F
Rated Voltage	DC 14.4V	DC 14.4V
No-load Speed	0-550rpm	0-550rpm
Range of Drill Bit sizes	Φ0.8 ~ 10mm	Φ0.8 ~ 10mm
Max. Drilling Capacity	Steel: Ø 6 mm	Steel: Ø 6 mm
	Concrete: Ø 8 mm	Concrete: Ø 8 mm
	Wood: Ø10 mm	Wood: Ø10 mm
Torque Setting	21 +1Position	21+1 Position
Output torque	7 N.M (MAX)	7 N.M (MAX)
Drive (Collet)	3/8" (10mm) Keyless Chuck	3/8" (10mm) Keyless Chuck
Battery	Ni-Cd 14.4V 1000mAh	Ni-Cd 14.4V 1000mAh
Charging Time	3-5 hours	3-5 hours
Free running time	40 min. (unload speed)	40 min. (unload speed)
Size	240*230*80mm	240*230*80mm
Weight (include battery)	1.5kg	1.5kg
Adaptor	120V AC 60Hz 18V DC 400mA	230V AC 50Hz 18V DC 400mA
Protection Class II		
Complied with EN60335-2-29		
Indoor operation only		

## Accessory

Screwdriver bits	14 PCS
Bit size	6PCS drills: Φ1.5/ 2.5/ 3/ 4/ 5/ 6 mm 1PC extension: 60mm (L) 6PCS: PH1 ; PH2; PZ1 ; PZ2 ;SL 5 ;SL 6 mm (L : 25mm) 1PCS : SL6-PH2 (L : 45mm)

## Environmental Protection



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.

## Product Features



## Operation instructions

### Initial operation

#### Insertion and Removal of Rechargeable Battery

Ensuring the correct orientation between the battery and the battery compartment, insert the rechargeable battery into the machine. Do not apply force when inserting the battery. Insertion can be achieved easily and without resistance. The battery must be inserted completely until the battery retention clips on the sides of the battery compartment automatically lock it into place. To remove the battery press the battery retention clips and pulls the battery out of its compartment.

#### Charging the Battery

The rechargeable battery must be charged before the first use. Only recharge the battery once it is has been fully discharged, i.e. the performance clearly decreases. Otherwise the battery may not achieve its full capacity at the subsequent charge.

**Important!** Only use the provided battery charger for charging the battery. First place the rechargeable battery into the charging slot in the charger and then connect the charger to the mains. Charging starts automatically.

Remove the battery from the charge after about 5 hours. Always disconnect the charger from the mains before you remove the battery from the charger.

## Inserting Tool Bits

**Important!** Always remove the battery before you change the drill or screw bit to avoid unintentional starting of the machine.

The cordless drill has a keyless chuck so you do not need a key to lock the tool bit in place. Make sure that the drill or screw bit is not skew when it is inserted and the chuck tightened.

Before inserting drill/screw bits open the jaws of the chuck by holding the lower ring of the chuck and turn the locking ring anticlockwise. Open the chuck until you can insert the tool. Insert the drill/screw bit all the way in and then holding the lower ring, turn the locking ring in a clockwise direction to firmly tighten it.

To remove the tool hold the lower ring of the chuck and turn the locking ring anticlockwise. Open the chuck until you can remove the tool

## Operating Trigger

Use the operating trigger to start the machine and keep holding it for continuous operation.

The rotation speed can be varied by depressing the operating trigger. The more the trigger is depressed, the faster rotation speed.

To switch the machine off, release the operating trigger

## Forward and reverse switch

**Important!** The machine has to come to a complete stop before the reverse rotation lever can be used; otherwise the machine may be damaged.

Use the forward and reverse switch to switch between clockwise (normal) and anticlockwise rotation or vice-versa. With the forward and reverse switch in the central position the operating trigger is locked and cannot be depressed. Put the forward and reverse switch in the central position before you put the machine down, to avoid unintentional starting.

## Torque adjustment

You can control the maximum torque applied to the drill bit with the torque control knob.

**Attention!** The torque control knob should only be operated when the machine is not running; otherwise the machine may be damaged.

To set the drill to the lowest available torque setting, twist the torque control knob until the small arrow on the drill-housing points to the "1" stamped on the torque control knob. In this position the torque clutch will slip with light drilling resistance. The higher the number the arrow points to on the torque control knob, the larger the maximum torque that can be applied before the torque clutch will slip.

To set the machine to maximum available torque twist the torque control knob until the arrow points to the drill symbol. In this position there is no slip in the torque clutch.

Select a lower torque for insertion/removal of screws to avoid damage to the work-piece (in

particular wooden work-pieces) or to the screw. For drilling select a higher torque setting. Do a test first on an item which is not your final work-piece and adjust the desired torque accordingly before you start the actual work.

## **Operation for working**

Only use tool bits which can be securely fastened in the chuck and for which the drill has been designed.

### **1. Drilling**

Check whether the drill bit is correctly inserted and tightly fastened before you start the machine. Use properly sharpened drill bits. Use screwdriver bits that are not overly worn. At the start of each drilling operation select a lower speed. For large holes drill with a smaller drill bit first and then enlarge the hole using a larger drill bit.

### **2. Drilling in Wood**

For drilling in wood use a wood drill-bit. Protect or fasten the work-piece in a suitable holder. Mark the positions of the holes to be drilled with a sharp tool or a nail. Do not apply excessive pressure against the work-piece with the machine.

### **3. Drilling in Metal**

For drilling in metal use a steel drill-bit. Always provide sufficient cooling with suitable non-inflammable coolants. Protect or fasten the work-piece with a suitable holder. The work-piece should lie flat on the work bench. Mark the positions of the holes to be drilled with a centre-punch. Do not apply excessive pressure against the work-piece with the machine. Allow the drill to operate at its normal operating speed.

**Important!** At the start of drilling select a lower speed to avoid the bit slipping away from the desired holes location. If the drill-hole is deep, the drill-bit may become jammed in the hole. In this event a high torque could damage the drill bit or the drill. If the bit becomes jammed, hold the machine firmly and immediately release the On/Off trigger. Switch to anticlockwise rotation, and use a low rotation speed to remove the jammed drill bit more easily.

### **4. Drilling in Plastic**

For drilling in plastic use a steel drill and follow the same instructions as for drilling in wood.

### **5. Drilling in Stone, Brick, Masonry or similar**

For drilling in walls, stone, masonry etc. use a masonry-bit. Do not put too much pressure on the machine. Follow the same instructions as for drilling in metal.

### **6. Using the Drill as a Screw-driver**

Before using the machine check whether the screw-bit is inserted correctly. Avoid over-tightening screws, otherwise the screw head may be damaged or stripping of the threads may occur.



## **7. Screw Insertion**

Set the direction of rotation of the drill to the clockwise direction. Insert the screw-bit into the slot in the head of the screw. Hold the screw bit perpendicular to the head of the screw, otherwise the screw or the screw head may be damaged. Press the screw bit against the screw with a constant pressure while driving in the screw.

When the screw is completely screwed in, hold the machine firmly and release the forward & reverse switch, otherwise the screw or the screw head may be damaged. If the forward & reverse switch is not released immediately a high torque could also damage the drill bit or the drill.

## **8. Screw Removal**

Set the direction of rotation of the drill to the anticlockwise direction. Insert the screw-bit into the slot in the head of the screw. Hold the screw-bit perpendicular to the head of the screw, otherwise the screw or the screw head may be damaged. Press the screw bit against the screw with a constant pressure while removing the screw.

## **Maintenance and Clean**

**Attention! Always remove the battery before carrying out any work on the machine.**

To clean, always use a dry or moist, but not wet, towel. Many cleaning agents contain chemical substances which may cause damage to the plastic parts of the machine. Therefore do not use any strong or inflammable cleaners such as petrol, paint thinner, turpentine or similar cleaning agents.

Always keep air ventilation holes free of dust deposits to prevent overheating.

## **Service**

For more information on PT-1441A / PT-1441F and other products, please visit [www.prokits.com.tw](http://www.prokits.com.tw).

## PT-1441 14.4V1000mAH 充電起子

使用前請先詳讀本份操作手冊

### 基本安全規則

**⚠警告：**沒有按照以下安全注意事項及使用說明操作，將導致觸電、火災或其它嚴重傷害。

請將本份文件加以保存以供日後所須參考使用。

### 1. 工作區域

- a) 請保持工作環境整潔明亮，混亂昏暗的環境將引發事故。
- b) 請不要在易爆環境中使用電動工具，例如在易燃的液體、瓦斯或者粉塵環境中。電動工具使用時所產生的火花可能點燃粉塵或氣體。
- c) 工作環境中請勿有孩童及旁觀者，以免分心造成失誤。

### 2. 電器安全

- a) 電動工具插頭請與相配的插座使用。請不要以任何方式拆解並改裝插頭，需接地的電動工具不可使用轉接插頭。使用未拆解過的插頭和匹配的插座將減少觸電的風險。
- b) 請避免讓人體接觸接地表面，像是管道、散熱器、爐灶及冰箱等，如果你的身體接地將會有觸電的風險。
- c) 請避免讓電動工具暴露在雨中或是潮濕的環境中，雨水滲入電動工具中會增加觸電的風險。
- d) 請勿濫用電線。絕不用電線搬運、拉動電動工具或將插頭拉出；電線必須遠離高溫、油膩、尖銳或可移動的物體，受損或纏繞的電線會增加觸電風險。
- e) 當在戶外操作電動工具時，請搭配適合戶外使用的外接電線，以減少觸電風險。
- f) 如果無法避免在潮濕的環境中使用電動工具，請使用漏電斷路器（RCD），以減少觸電風險。

### 3. 個人安全

- a) 請保持高度警覺，操作電動工具須有基本常識並保持專心，請勿在身體疲勞、服用藥物、飲酒及醫事治療後使用電動工具，否則會導致嚴重的人身傷害。
- b) 請使用安全裝備。永遠配戴護目鏡。在適當的狀況下使用安全設備，如防塵面罩、防滑安全鞋，安全帽，聽力保護裝置等，以避免造成人體傷害。
- c) 為避免電動工具突然啟動，插電前請先確認開關處於“OFF”位置，移動電動工具或插電前手指請勿放在開關處，以免誤觸開關導致事故發生。
- d) 啟動前務必先移除調整電動工具的鑰匙或扳手，遺留在電動工具上的鑰匙或扳手在啟動時可能導致人身傷害。
- e) 操作電動工具時請保持適當距離，以便在突如其來的狀況發生時能有足夠時間反應及處理。
- f) 穿著適宜，請不要穿寬鬆衣服或佩戴首飾。請讓您的頭髮，衣服和手套遠離電動工具。寬鬆衣服、珠寶或長髮可能會捲入或卡住電動工具。
- g) 如果有提供排屑和集塵的設備，請確保他們連接完好且使用得當。使用這些裝置可減少粉塵導致的危險。

### 4. 電動工具的使用及維護

- a 請選擇適當的電動工具。請依據您的工作狀況使用正確的電動工具，可使工作更有效率、更安全，並使電動工具發揮最大效益。
- b 當電動工具的啟動開關不能開啓或關閉電源時請停止使用，請送回原廠修理以免發生危險。
- c 當電動工具要進行調整、更換配件或儲存不用時，請先將插頭拔下或將電池盒拆除，此舉可降低電動工具意外啓動的風險。
- d 電動工具請貯存在兒童無法接觸的地方。請不要讓不熟悉或對操作說明不瞭解的人員使用。未經訓練的人員操作電動工具會造成危險。
- e 電動工具維護：請檢查電動工具可調的部位是否到位，零件是否有破損或是有其它任何可能影響電動工具操作的情形。如有損壞，請先進行修理後才能使用。許多事故都是因為電動工具未作好維護而造成的。
- f 保持鑽頭（或批頭）鋒利和清潔，適當的維持在鋒利狀態可減少卡住的狀況且易於使用
- g 依據本操作說明及操作方法，考量工作環境及需完成的工作，選用適當的電動工具、配件及批頭進行作業。選擇不適合的電動工具會產生危險狀況。

### 電池的使用及維護

- a) 請使用製造商原裝的充電器充電，不適合的充電器可能會造成火災。
- b) 請使用製造商原裝的電池包，使用非製造商原裝的電池包可能造成人身傷害和火災。
- c) 當電池包不使用時，儲存請遠離其他金屬物體，如迴紋針，硬幣，鑰匙，釘子，螺絲等或其他小型金屬物，以免誤將電池兩極連接形成短路，導致電池包發燙或引起火災。
- d) 當電池包遭到濫用時，電池裏的液體可能會滲出，請勿觸摸。如果意外接觸電池液，請用大量清水沖洗。如果眼睛接觸液體，請立即就醫。皮膚接觸噴出的電池液會造成疼痛或燙傷。
- e) 為確保電動工具電池壽命及效能充分發揮，請務必充飽電後再使用。
- f) 非經常性及長時間使用電動工具，使用時請先確認電池是否有電，電動工具能正常使用情況下，建議先使用直至電動工具無法運轉再進行充電。
- g) 長時間存放電動工具不使用須注意電池自放電情況，建議每50天取出進行一次完全充電。
- h) 存放電動工具請注意環境濕度，過高/過低的溫度將使電池自放電情況加速，濕度過高容易使電動工具及電池生鏽短路而造成損壞。

### 6. 服務

本電動工具的維修或更換零件需由原廠專業維修人員服務，以確保電動工具的使用安全性。

### 關於充電電批的特別安全公告

PT-1441F型搭配230V充電器，PT-1441A型搭配120V充電器，充電時請使用原廠充電器。當開始對牆體、地板或其它地方進行工作前，請先確認內部的電線已切斷電源，預計鑽孔的工作區域請先用金屬探測器檢查，以免鑽孔時碰到電源線、天然氣管道及水管。如有疑問請聯繫專業水電工程人員或您的供電事業供應商。當鑽孔時遇到電動工具和工件開始發燙，請先冷卻一段時間後再處理，並請佩戴適當的手套。

### 關於可充電電池的安全公告

請使用原廠的電池包及充電器，並存放於乾燥區域。請勿在戶外使用充電器。當充電器使用完畢或是在清潔維修前，請先拔下插頭。請特別注意保護電池，避免跌落到任何堅硬的物體表面，不使其

受到壓力或任何其他形式的機械應力。電池須遠離極熱和極冷的環境。請勿試圖修復電池或充電器。如果任何部件有缺陷，請由合格的維修技術人員維修或送回原廠維修。電池充電的環境溫度為10°C到40°C之間，已充電的電池可以在0°C到50°C環境溫度下提供電動工具電力進行作業。如不使用時，請將電池儲存在10°C到30°C之間的乾燥環境。

**⚠重要! 危險!** 請勿讓電池短路或接觸水氣。請勿將電池與金屬物品存放在一起以免造成短路，電池將產生過熱、發燙或爆炸。

如果任何人接觸到電池內部液體或物質，請立即用大量清水沖洗。如果這些物質接觸眼睛，請立即用清水沖洗後立刻就醫。

請勿將將充電電池放入水中或火中，以免發生爆炸。無論充電電池是否使用，均不可當作家用垃圾丟棄。您應該按照電池回收條例送到當地國家的電池回收站或是交回給我們並標示為“使用過電池”。

## 規格

型號	PT-1441A	PT-1441F
額定電壓	DC 14.4V	DC 14.4V
無負載轉速	0-550rpm	0-550rpm
鑽頭規格範圍	Φ0.8 ~ 10mm	Φ0.8 ~ 10mm
鑽頭應用	鋼鐵: Ø 6 mm	鋼鐵: Ø 6 mm
	水泥: Ø 8 mm	水泥: Ø 8 mm
	木頭: Ø10 mm	木頭: Ø10 mm
扭力設定	21 +1檔	21+1 檔
輸出扭力	7 N.M (MAX)	7 N.M (MAX)
夾頭規格	3/8" (10mm) Keyless Chuck	3/8" (10mm) Keyless Chuck
電池	Ni-Cd 14.4V 1000mAh	Ni-Cd 14.4V 1000mAh
充電時間	3-5 hours	3-5 hours
空載運轉時間	40 min. (unload speed)	40 min. (unload speed)
尺寸	240*230*80mm	240*230*80mm
重量 (包括電池)	1.5kg	1.5kg
變壓器	輸入: 120V AC 60Hz 輸出: 18V DC 400mA	輸入: 230V AC 50Hz 輸出: 18V DC 400mA
防護等級: II 級		
符合標準: EN60335-2-29		
適用於室內操作		

## 配件

批頭	14 PCS
批頭規格	6PCS 鑽頭: $\Phi$ 1.5/ 2.5/ 3/ 4/ 5/ 6 mm 6PCS 25mm 批頭 : PH1 ; PH2 ; PZ1 ; PZ2 ; SL 5 ; SL 6 1PC 60mm 延長桿 1PCS 45mm: 雙頭批頭 SL6-PH2
其他配件 :	變壓器、充電座及攜帶盒

## 環境保護



廢棄的電器產品請勿當作家用垃圾處理。  
請依當地國家的回收條例送到回收站或是零售商進行回收。

## 產品功能



## 操作說明

### 基本說明

#### 電池安裝

請將可充電電池對準電動工具本體，無須過度施力即可輕易推入，推入後本體的電池釋放按鈕會卡住電池不脫落，移除時按下電池釋放按鈕後拉出電池即可。

#### 充電

首次使用前請先將可充電電池充飽電。每次電池完整放電後才能再次進行充電，以避免電池效率降低。除此之外還會造成之後每次充電都無法充飽電的情況發生。

**⚠重要!** 請使用本公司提供的電池充電器。首先請取下可充電電池放入充電座內，再連接充電電源，充電器會自動開始充電。充電5小時後請先將充電座電源移除再取下電池。

#### 批頭 / 鑽頭安裝

本產品有自動夾頭設計，不需額外的工具進行固定。請旋轉前端夾頭環直到夾頭鬆開，將批頭或鑽頭放入後以順時針方向旋轉夾頭環鎖緊，鎖緊後請確認批頭或鑽頭沒有歪斜。若要取出則將夾頭環以逆時針方向旋轉直到夾頭鬆開後，移除批頭或鑽頭。

**⚠重要!** 當您在安裝批頭或鑽頭前請先將電池移除，以避免意外啟動。

#### 啓動開關

本產品為無段變速設計，壓下啓動開關後即可運轉，轉速快慢可藉由啓動開關的輕重按壓來控制，按壓較重時則轉速會變快，反之則變慢，鬆開啓動開關後即停止運轉。

#### 正反轉切換

當正反轉開關向左或向右推時，可控制批頭或鑽頭以順時針方向(旋緊)或是逆時針方向(鬆開)旋轉，正反轉開關置中時則啓動開關會被鎖住無法啓動。當產品不使用時請先將正反轉開關推向置中位置，再放下以避免意外啓動。

**⚠重要!** 請在機器運轉完全停止後再進行正反轉切換，否則將造成開關損壞。

#### 扭力調整

您可以透過扭力杯調節鑽頭扭力大小以達到作業目的。

**⚠請注意!** 當機器運轉時請勿調整扭力杯，以免造成機器損壞。請先設定鑽頭到較低較適當的扭力，旋轉扭力環直到小箭頭指向“1”的位置，此位置可使鑽頭在作業時遇到的阻力比較小但容易滑脫，當小箭頭指向的數字越大則扭力值越高，旋轉扭力杯使小箭頭指向較大且適當的扭力可避免鑽頭滑脫。在轉入或移除螺絲時選用較低的扭力，以避免損傷工件(特別是木頭工件)或螺絲。在進行正式鑽孔前，請先設定好所需扭力並在其它不重要的工件上先試鑽，確認好所需扭力時再在欲施工的工件上進行正式的鑽孔。

## 操作使用

請使用合格的批頭產品，並確認規格符合本產品的裝配尺寸。

### 1. 鑽孔

在開始操作前請先檢查鑽頭是否已正確插入且牢靠不晃動。使用適當鋒利的鑽頭。不使用已磨損的批頭。鑽頭開始使用時請先調到低轉速。當有較大的洞需鑽時，請先用小鑽頭先鑽，再使用適合的鑽頭將洞加大。

### 2. 在木頭上鑽孔

鑽木頭請選用搭配的鑽木鑽頭，將工件使用適當的夾具固定保護，在欲鑽孔的位置用鋒利的工具或釘子作記號，鑽孔時請勿讓機器對工件施與過度的壓力。

### 3. 在金屬上鑽孔

在金屬上鑽孔時請選用搭配的鑽金屬鑽頭，鑽孔時請一直保持使用冷卻液，將工件使用適當的夾具固定保護，工件須緊貼平放在工作臺上，在欲鑽孔的中心以戳刺的方式作記號，請勿讓機器對工件施與過度的壓力，並請維持正常的速度鑽孔。

**⚠重要!** 在鑽孔開始時請先選擇較低轉速以避免鑽頭滑脫偏離鑽孔位置。如果要鑽的洞孔比較深，鑽頭可能會因此卡在洞孔內。在這種情況下使用高扭矩可能會損壞鑽頭或電鑽。如果鑽頭被卡住，請牢牢握住電鑽，將正反轉切換向右推(逆時針方向)，調整到較低的扭力，立即按壓啟動開關，使用低轉速較容易取出卡住的鑽頭。

### 4. 在塑膠上鑽孔

在塑膠上鑽孔的方式請參照上述第2點在木頭上鑽孔的方法。

### 5. 在石頭、磚塊或石造工程/建築等類似的物體上鑽孔

在石頭、磚塊或石造工程/建築等類似的物體上鑽孔，請選用搭配的鑽石頭鑽頭，請勿讓機器對工件施與過度的壓力，使用方式請參照上述第3點在金屬上鑽孔的方法。

### 6. 將電鑽做電批使用

使用前請先檢查螺絲是否正確的放入。請避免過度擰緊螺絲，以免損壞螺絲頭或造成滑牙。

### 7. 鎖緊螺絲

請先設定正反轉切換為順時針方向(向左推)，將批頭放入夾頭內，批頭與螺絲呈垂直方向，否則螺絲將造成損壞。將批頭對著螺絲以適當的轉速將螺絲鎖緊。當螺絲完全鎖緊後，將正反轉切換推到置中位置，以免損壞螺絲或螺絲頭。如果沒有立刻將切換正反轉，高扭力狀態下將會使批頭或本機損傷。

### 8. 螺絲旋出

請先設定正反轉切換為逆時針方向(向右推)，將批頭放入夾頭內，批頭與螺絲呈垂直方向，否則螺絲將造成損壞。將批頭對著螺絲以適當的轉速將螺絲旋出。

## 維護和清潔

特別注意! 在對本機進行任何作業前請先取下電池。

請使用乾的或是微濕的毛巾進行清潔。許多清潔劑含有化學物質，可能會使機器的塑膠部位造成損壞。因此請勿使用其它較強烈或易燃的清洗劑像是汽油、松香水，松節油及其它類似的清潔劑。本機通風孔請防止灰塵沉積以免過熱。

## 服務

更多關於 PT-1441A / PT-1441F 的資訊及其它產品，請上本公司網站 [www.prokits.com.tw](http://www.prokits.com.tw)

# Pro'sKit®



Certificate Number: TW98/12323QA

寶工實業股份有限公司

PROKIT'S INDUSTRIES CO., LTD.

<http://www.prokits.com.tw>

E-mail : [pk@mail.prokits.com.tw](mailto:pk@mail.prokits.com.tw)

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