

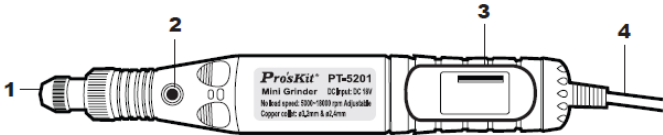


PT-5201A/B MINI GRINDER

USER'S MANUAL

Component

1. Collet nut
2. Spindle lock button
3. Switch
4. Cord



Important!

Please carefully read the instruction in this manual as well as the general. Safety instruction before using this appliance, keep these manuals handy.

THE VARIOUS PLASTIC BAGS SHOULD NOT BE LEFT WITHIN THE REACH OF CHILDREN, RISK OF SUFFOCATION.

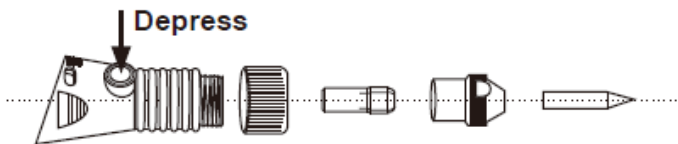
Technical characteristics

Voltage	18VDC
Max. diameter	3.2mm
No load speed	8000~18000rpm \pm 10%
Vibration level	Less than 0.15mm
Acoustic pressure less than	70dB

Adaptor

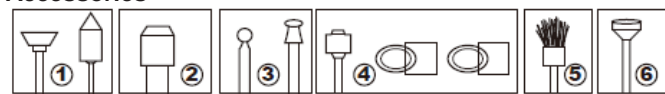
Input	230V~50Hz or 120V 60Hz
Output	18VDC 400mA

Use



To use the different accessories, press the shaft locking button located to the rear of chuck, unscrew it by hand, fit the chosen accessories and hand tighten the chuck again.

Accessories



- (1) 2 pcs grinding (3mm) stones (2) 1 pc collet (\varnothing 2.4mm) (3) 2 pcs diamond bits (5mm)
 (4) 2 pcs sanding bands 6.5x13mm (5) 1 pc nylon brush (5mm) (6) 1 pc engraving bit

SAFETY INSTRUCTIONS

IMPORTANT! WHEN USING ELECTRICAL TOOLS, THE FOLLOWING SAFETY INSTRUCTIONS SHOULD BE OBSERVED TO PREVENT THE RISK OF ELECTRIC SHOCK, PERSONAL INJURY AND FIRE. READ AND OBSERVE THESE INSTRUCTIONS CAREFULLY BEFORE USING THE TOOL.

1. **Keep work area clean** Cluttered and benches invite injuries.
2. **Consider work area environment** Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools near flammable liquids or gases.
3. **Guard against electric shock** Prevent body contact with grounded surfaces(e.g. pipes, radiators, ranges, refrigerators, etc.).
4. **Keep children away** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
5. **Store ideal tools** When not in use, tools should be stores in a dry, high, or locked-up place, out of the reach of children.
6. **Do not force tool** It will do a better job and operate more safely at the rate for which it was intended.
7. **Use right tool** Do not force small tools or attachments to do the job

of a heavy duty tool. Do not use tools for other than their intended purpose; for example, do not use a circular saw for cutting tree limbs or logs.

8. **Dress properly** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear is recommended when working outdoor. Wear protective hair covering to contain hair.
9. **Use safety glasses** Also use a dust mask during pulverulent operations and wear ear protection. If the noise level. Exceeds 70dB(A), ear protection is obligatory. Indicated noise levels may be exceeded dependent on the working environment and the material to be treated.
10. **Use dust extraction** If dust extraction and collection devices are present on the tool, make sure that they will be used properly.
11. **Do not abuse cord** Never carry tool by cord or yank it to disconnect it from wall outlet. Keep cord from heat, oil and sharp edges.
12. **Secure work** Use clamps or a vise to hold the workpiece. It is safer and it frees both hands to operate tool.
13. **Do not overreach** Keep proper footing and balance at all times.
14. **Maintain tools with care** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Inspect tool periodically and, if damaged, have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep Handles dry, clean and free from oil and grease.
15. **Disconnect tools** Disconnect tools when not in use, before servicing, and when changing accessories such as blades, bits and cutters.
16. **Remove adjusting keys and wrenches** From the habit of checking to see that keys and adjusting wrenches are removed from tool before switching it on.
17. **Avoid unintentional starting** Do not carry plugged-in tools with finger on switch. Be sure the tool is switched off before plugging in.
18. **Outdoor use extension cords** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
19. **Stay alert** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
20. **Check damaged parts** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or re placed by an authorized service center unless otherwise indicated elsewhere in the instruction manual. Do not use tool if switch does not turn it on and off.
21. **Warning** The use of any other accessories or attachment other than recommended in the instruction manual may present a risk of personal injury.
22. **Have your tool repaired by an expert** This electric appliance is built accordance with the relevant safety rules. Repair of electric appliances must only be carried out by experts otherwise it may cause considerable danger for the user.
23. **Store these instructions for future reference.**

Assembly and operation

Mounting an accessory

Keep the spindle lock button depressed. Slacken the collect nut. Insert the shaft of the accessory into the collet.tighten the collet nut. Release the spindle lock button in order to remove the accessory, proceed in reverse order.

Replacing the collet

Keep the spindle lock button depressed. Slacken the collet nut. Remove the collet nut and the old collet. Place the new collet in. Replace the collet nut and tighten the collet nut. Release the spindle lock button.

CAUTION! Always Unplug from the tool and switch off before replacing the collet; Choose a low speed at first for working.; Never press the locking pin while the machine is running

Polishing. A polishing wheel is set for polishing metal and plastic workpieces. A mandrel is used for mounting a polishing wheel. Place the mandrel in the collet nut Place a polishing wheel on the screw.

Rouging. A router bit is used for grooving and for routing figures in plastic, wooden and metal workpieces. Place a router bit in the collet nut.

Grinding and sanding. A grinding stone in used for grinding metal, plastic, wooden and the stone workpieces. A sanding band is used for sanding wooden and plastic workpieces. Place a grinding stone or sanding band with mandrel in the collet nut. A sanding band must be replaced when showing signs of wear Remove the old sanding band from the mandrel. Place the new sanding band on the mandrel Clamp all tolls as short as possible, Shafts, which stick out too far will easily bend causing the machine to vibrate.

Maintenance

CAUTION: Pull out the plug before maintenance

Keep the machine clean

Keep the air vent unimpeded

Do not use the sharp material to clean the machine

Do not let liquid enter into the machine to prevent it from rust

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.

操作手冊

組合

1. 夾套螺母
2. 主軸鎖定鍵
3. 開關
4. 電源線



注意!

使用設備前，請仔細閱讀本手冊中的說明以及一般的安全指示。熟練掌握操作規範，各種膠袋不應該放置在兒童觸及到的地方，以免引起窒息的風險。

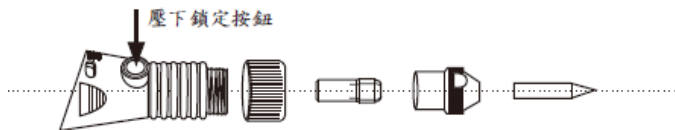
技術參數

電壓	18VDC
夾頭最大直徑	3.2mm
無負載轉速度	8000~18000rpm ± 10%
跳動度	小於 0.15mm
雜訊	小於 70dB

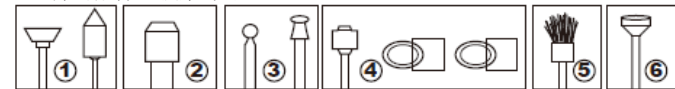
變壓器

輸入	230V~50Hz 或者 120V 60Hz
輸出	18VDC 400mA

使用



使用不同的配件時，按下主軸鎖定按鈕，鬆開夾頭螺母後的主軸旋扭，插入選擇的配件，旋緊螺母。



配件圖

- ① 2個帶柄砂輪(3mm)
- ② 1個夾頭(ø2.4mm)
- ③ 2個金鋼石磨針(5mm)
- ④ 3個鼓狀帶柄砂輪(6.5x13mm)
- (5) 1個尼龍刷(5mm)
- (6) 1個雕刻金剛石針

安全事項

注意！當使用電動工具時，應遵守以下安全指示，以防止觸電及造成人身傷害和火災事故。

仔細閱讀及遵守這些指示：

1. **保持工作環境整潔。** 髒亂的環境容易導致人事傷害。
2. **考慮工作區環境。** 不要在雨中使用電動工具；不要在潮濕的地方使用，保持工作區的乾燥；不要在接近易燃氣體或者液體的地方使用。
3. **警惕觸電。** 防止身體接觸接地物表面（如水管、散熱器、冰箱等）
4. **遠離兒童。** 不要讓無關者接觸工具及延長電源線，所有無關者應該遠離工作區。妥善儲存工具，不使用時，工具應當被放在乾燥，高處或者帶鎖的地方，避免兒童觸及。
5. **不要違規操作。** 根據機器本身的工作原理，以規定的速度操作時，機器使用更為安全和自如。
6. **得當使用工具。** 不要使用小型工具去操作違背其使用範圍的工作，例如：不使用圓鋸切割樹枝或圓木。
7. **穿著得體。** 不要穿著過於寬鬆或者佩戴首飾，在操作中可能被勾住。在戶外，推薦使用防滑類鞋、橡膠手套及戴上束發頭罩。
8. **使用安全眼鏡。** 在操作中需佩戴除塵口罩和耳塞，如果噪音超出70分貝，保護耳朵是必須的。測量噪音水準可以取決於工作環境及工作對象的質。
9. **使用除塵裝置。** 如果在工具上裝有除塵或者收集裝置，必須確保這些裝置運用得當。
10. **不可用電源線來提工具。** 不可直接拉電源線把插頭插座上拔下，不

可提拉電源線移動工具，不要讓電源線接觸熱源、油和尖銳物。

11. **安全作業。** 將工件夾在臺鉗上，可以更安全，並騰出雙手工作。
12. **不要勉力而為：** 確保作業時站穩，保持身體平衡。
13. **工具的維護及日常護理**（見後）
14. **斷開電源：** 停止使用或者更換配件，如刀片、批頭等時，要妥善切斷電源。
15. **取下鎖緊匙和扳手：** 在啟動開關前，要習慣檢查鎖緊匙和扳手等是否從工具上取下。
16. **避免無意中啟動：** 插座插入前，確保開關關閉，通電時不要把手指直接放在開關上。
17. **戶外延長電線的使用：** 當工具在戶外被使用時，確保使用的外延長線應符合戶外工作的要求，這類延長線應有戶外標誌。
18. **保持警覺：** 工作期間，時刻保持清醒意識，不要在過度勞累時操作。
19. **檢查受損部件：** 進一步使用工具前，應當仔細檢查受損部件，必要時更換，確保其將正常運行和發揮預定功能。
檢查校對運動部件，易損件，固定以及其他狀況。說明書中沒有特別注明如何修理的損壞部件，應妥善修理或與經授權服務中心進行更換。若開關按動後不工作，請不要繼續嘗試使用工具。
20. **警告，**擅自使用說明書介紹以外的任何配件，都可能造成人身傷害。
21. **維修、維護：** 此電器是按照有關安全規則製造的，修理電器僅限於授權的專業人員進行，否則會造成人身傷害。

裝配及操作

一、安裝配件：

1. 按下主軸鎖定鍵鬆開夾頭螺母
2. 把配件杆插入夾頭中
3. 擰緊夾頭
4. 釋放主軸鎖定鍵

移除配件時，按照步驟倒序進行。

二、更換夾頭

1. 按住主軸鎖定鍵
2. 放鬆夾頭螺母
3. 移除舊夾頭螺母及夾頭
4. 放入新夾頭
5. 裝上夾頭螺母
6. 擰緊夾頭螺母
7. 放開主軸鎖定鍵

注意！

替換夾頭時，要關閉開關及拔下電源插頭。開始工作時，要先把轉速調低，在工具旋轉時，嚴謹按下鎖定鍵。

三、功能說明：

拋光： 拋光輪用於拋光金屬和塑膠件。

刻鑿： 雕刻頭可用來在金屬、木材和塑膠，工作上進行刻銑和切割。

打磨和打砂： 可用磨頭或砂圈在金屬、木材和塑膠上進行打磨或砂光。砂圈在磨損後可進行更換。

注意： 裝卡時，儘量把磨頭靠近夾頭，軸外露越長，轉動時偏擺越大。

維護保養

注意！保養前要斷開插頭

1. 保持工具清潔。
2. 保證工具通風良好。
3. 清潔時不用刺激性物品。
4. 防止液體和灰塵進入機身。
5. 保證產品在有資質的服務中心維修，選用合格的零件配件。

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