



产品 // 使用说明书

PRODUCT INSTRUCTION MANUAL



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使用説明書

尊敬的客户,您好!感謝使用本公司生產的無剛電動起子,為了維護您的權益,保證您正確的使用以及人身安全,操作前請詳細閱讀說明書,沒有按照以下列舉的內容而使用電動起子可能導致您的使用權限無法得到有效的保障,甚至可能引發對人身產生的安全隱患,如觸電、着火等嚴重傷害,請務必在使用前詳細閱讀并按要求使用電動起子。

一. 工作場地

- 1. 務必保持工作場地清潔和明亮, 混亂和 黑暗的使用環境可能會引發安全事故。
- 2. 待旁觀者離開后再操控電動起子, 使用 過程中請保持專注, 電動起子運轉過程中請不 要轉移視緩,分心會使你放松對電動起子的控 制, 從而引發意外情况。

二. 電氣安全

- 1. 插座必須與電動起子插頭適配,不相匹配的接觸易導致接觸不良以及容易產生電火花,同時務必使用帶有接地良好的電源插座(三孔),使用接地不良或沒有接地緩的插座,電動起子所帶的感應電以及操作過程中所產生的静電將得不到釋放,將會大大增加觸電以及損壞敏感電子元器件的風險;AC 電源緩的三插接入市電插座時,請注意手指不要接觸電源緩三插頭的金屬部分,觸碰到會導致觸電危險。
- 不得將電動起子暴露在雨中或潮濕環境中,在此類環境中使用電動起子將增加觸電危險。
- 3. 使用中勿用力拉扯或過度彎折電源緩, 這樣易導致電源緩內芯折斷而發生接觸不良的 情况;同時應遠離油、稀釋劑、銳邊或運動部件, 接觸這些物品易導致電源線的芯線外皮破損, 從而新增觸電的危險。
- 4. 當在户外使用電動起子時,務必使用合 户外使用的外接電綫,需要使用延長綫時,務必 確保所使用的延長綫的質量以及接地的良好 性,這樣將避免觸電危險。

三. 人身安全

1. 保持警覺: 當使用電動起子時需專注所 從事的工作并保持清醒; 切勿在精神疲倦, 服用 對精神有影響的藥物、酒后等情况下操作電動 起子, 此時可能易引發無法預料的安全事故; 在

User's Manual

Dear customer, Thank you for using our company to produce brushless electric screwdrivers. In order to protect your rights and ensure your correct use and personal safety, please read the manual carefully before using the electric screwdriver without following the contents listed below. As a result, your use rights cannot be effectively guaranteed, and may even cause potential safety hazards to the person, such as electric shock, fire and other serious injuries. Please read carefully before use and use the electric screwdriver as required.

I. Workplace

 Make sure to keep the workplace clean and bright as the chaotic and dark environment may cause safety hazard.

2.Wait for the onlookers to leave before operating the electric screwdriver.Please maintain focus during the use. Don't divert attention during the operation of the electric screwdriver.Distraction will make you relax the control of the electric screwdriver thereby leading to accident.

II. Electrical safety

1.The socket must be fitted with the electric screwdriver plug. The mismatched contact is easy to cause poor contact and easy to generate electric spark Meanwhile, make sure to use a power socket with good grounding. When a socket with poor grounding or no grounding wire is used, electric screwdriver's induced power and the static electricity generated during the operation will not be released, which will greatly increase the risk of electric shock and damage to sensitive electronic components. When the three-pin plugs of the AC power cord are connected to the mains socket, please be careful not to touch the metal part of the three-pin plug of power cord to avoid electric shock when touched.

Electric screwdrivers must not be exposed to rain or moisture as the use of electric screwdrivers in such environments increases the risk of electric shock.

3.Don't pull or over-bend the power cord during use. This may cause the core of the power cord to break and cause poor contact Meanwhile keep it away from oil, thinner sharp edges or moving parts Contact with these items may cause the outer layer of the core wire of power cord and increase the risk of electric shock.

4.When using an electric screwdriver outdoors, be sure to use an external cable suitable for outdoor use When using an extension cord,ensure the quality of the extension cord used and the good grounding so as to avoid the risk of electric shock.



使用電動起子時,在扭力較大時務必穩妥地握住電動起子,握持不牢時,電動起子易在手中打轉,此時電源綫易纏繞在手腕上,導致電源綫損壞,同時可能導致手腕扭傷;當鎖付時所產生的反作用力大于鎖付產品按鎖付方式放置所產生的摩擦力時,必須以外力輔助固定鎖付產品,否則鎖付時產品半徑裹的東西將會飛出,這樣可能造成人身傷害

- 2.在電動起子通電之前,應拿掉所有調節 輸匙或扳手。遺留在電動起子上的其他配件在 電動起子使用過程中可能會給操作者帶來物理 傷害或電氣傷害;特別注意需要對電源進行調 速后,需將調整用的起子取出后方可啓動電動 起子。
- 3. 操作時應注意脚下, 時刻保持身體平衡, 這樣在出現意外情况下也能很好地控制電動起 子。
- 4. 着装適當:不要穿带附带較多絲或孔的 衣服以及易缠繞的飾品,同時讓你的頭發、衣 服和袖子遠離起子頭部分的旋轉部件,這些物 件在電動起子工作時可能會卷人起子頭部分, 從而給操作者帶來安全隱患。

四. 注意事项

- 1. 不要隨意調整或更改電動起子的出廠參數,應在使用說明書設定的範國內使用電動起子,選用適當的額定設計值的電動起子會使工作更有效、更安全。如果開闢不能接通或關斷工具電源,則不能使用該電動起子,不受開闢控制的電動起子是可能會帶來安全隱患,必須立即维修,故障排除后方可繼续使用。
- 2. 進行任何調節、更換附件或貯存電動起子之前,必須從電源上拔掉插頭,這樣有助于减少電動起子突然起動帶來的意外情况。閑置電動起子務必貯存在兒童所及範圍之外,并且不要讓不熟悉電動起子或對使用説明不了解的人操作電動起子,電動起子在不了解其性能状况的用户手中可能會造成安全隱患。
- 3. 務必按照使用説明書以及所使用的電動起子的類型來操作,依據作業對象來合理選用電動起子、附件和起子頭等,將電動起子用于與使用説明不符的操作可能會導致危險情况。

五. 産品特點

- 1. 采用高性能直流無刷馬達, 具有低干擾、低噪音、低振動、超長壽命、免維護、符合環 保要求等特點。
 - 2. 控制開採用霍爾磁感應開關, 無接觸、

Ⅲ.Personal safety

- 1. Stay vigilant: When using an electric screwdriver, you should concentrate on the work engaged and stay awake don't operate the electric screwdriver in a mental fatigue or after taking drugs that affect your mind or drinking which may cause unpredictable safety accidents; when using an electric screwdriver be sure to hold the electric screwdriver securely when the torque is large. When the grip is not strong, the electric screwdriver is easy to rotate in the hand. At this time, the power cord is easily wrapped around the wrist, causing the power cord to be damaged. It may also cause a sprain of the wrist; when the reaction force generated by the lock is greater than the friction generated by the lock product placed in the lock mode, the external force must be used to assist the fixed lock product. otherwise the product in the product radius when the lock is made will fly out, which may cause personal injury.
- 2. Remove all adjustment keys or wrenches before powering on the electric screwdriver. Other accessories left on the electric screwdriver may cause physical or electrical injury to the operator during the use of the electric screwdriver. Please adjust the power supply speed, and then remove the screwdriver for adjustment to activate the electric screwdriver.

3.Mind your step during operation and keep the body balanced at all times so that the electric screwdriver can be well controlled in case of accident.

4. Dress properly: Don't wear clothes with more silk or holes and easy-wrap accessories, while keeping your hair clothes and sleeves away from the rotating parts of the screwdriver head. These items may get caught in the head part of the screwdriver in the work of the electric screwdriver, which poses a safety hazard to the operator.

IV.Notes

1. Don't arbitrarily adjust or change the factory parameters of the electric screwdriver. The electric screwdriver should be used within the range set by the manual. Selection of the electric screwdriver with the appropriate rated design value will make the work more effective and safer. If the switch cannot tun the tool power on or off, the electric screwdriver cannot be used. The electric screwdriver that is not controlled by the switch may pose a safety hazard. It must be repaired immediately before use.

2.Before any adjustment, replacement of accessories or storage of the electric driver, the plug must be unplugged from the power supply, which helps to reduce the accidents caused by the sudden start of the electric driver. The idle



無機械磨損, 具有超長的使用壽命。

- 3. 離合器部分的零配件全部為精密 CNC 加工而成,另外選材優良,配以科學的金屬后處理,具有精度高、穩定度高、低噪音、低磨損、壽命長的特點。
- 4. 内部无刷马达及减速箱均经过特别设计 可有效防止電動起子因長期連續使用產生過熱 現象, 有效降低馬達温度, 保持握持處温度正 當。
- 5. 本電動起子的的所有功能性電氣接口, 均為插拔結構,后續維修無需烙鐵,需要更换 的電源板、主控制板、刹車板、啓動板、正反 開關板,包括馬達及離合器整組等均可手動拔 插,秒速更换完成;使得维修本起子将不需要專 業技術,可有效地提高維修效率降低维修成本。
- 6. 反轉開關采用具有專利設計的磁鐵定位 技術:定位穩定、動效果穩定、使用壽命超長的 特點; 剎車開關采用具有專利設計的可調整式 杠杆剎車技術, 具有超寬的調整範圍, 在不更 換配件的情况下即可解决機械磨損對剎車的影響。
- 7. 外形配合人體工學的專利設計, 有效的 提高了握持的舒適度, 可降低工作疲勞度, 提 供生産效率。
- 8. 采用高精度、高穩定的可微調式的開關 電源,使得電動起子的轉速在一定範圍內可無 段速調整,有效地保持了產品的靈活性。

六. 操作须知

- 1. 當更换起子頭或微調轉速時,請關閉電源適配器上的開關。化學物品如: 丙酮、苯、稀釋劑、酮類、三氯乙烯等等,切勿接觸電動螺絲起子,這類物質易腐蝕電動起子的外殼及電源緩。
- 2. 小心使用電動起子, 勿使掉落或受强烈撞擊, 使用時最好用平衡器吊起來, 若電動起子無法吊起來時, 可使用起子架來放置, 放置在工作臺面時, 不要放在邊沿處, 放置方向不要與邊沿方向相同, 未穩妥放置可導致電動起子因跌落而損壞, 同時易導致操作人員身體受到傷害。
- 3. 裝卸螺絲刀頭: 只需以指尖將起子頭帽往上推即可自由的將螺絲刀頭裝上或卸下, 放開手指使起子頭帽歸位即可將起子丽周宁
- 4.壓板式起子進行鎖緊螺絲動作時請將正 反開關切到"→"的位置(若螺絲寫反牙規格, 則須將正反開關切換至"一"的位置),將螺絲 刀頭與對准螺帽的中心位置,手按開關壓板后 電動螺絲起子即可啓動運轉,當螺絲鎖緊達設

electric screwdriver must be stored outside the reach of children, and do not let people who are not familiar with the electric screwdriver or do not know the operating instructions operate the electric screwdriver. The electric screwdriver may cause potential safety hazards in the hands of users who do not know its performance.

3.Make sure to follow the manual and the type of electric screwdriver used to operate. Reasonably use electric screwdrivers, accessories and screwdriver head according to the working object. Operation of the electric screwdriver for operation that is inconsistent with the manual may result in a dangerous situation.

V. Product features

 High-performance and environmental friendly DC brushless motor featuring low interference, low noise low vibration, long life, no maintenance is adopted.

2.The control switch adopts Hall magnetic induction switch with no contact no mechanical wear and an extremely long service life.

3.The parts of the clutch part are all made of precision CNC. The other materials are excellent, with scientific metal post-processing, featuring high precision, high stability, low noise, low wear and long service life.

4.Internal motor and gearbox are specially designed it can effectively prevent the electric screwdriver from overheating due to long-term continuous use, effectively reduce the temperature of the motor, and keep the holding temperature normal.

5.All functional electrical interfaces of the electric screwdriver are plug-and-pull structure. There is no need for a soldering iron for subsequent maintenance. The power board, main control board,brake board,starter board, front and reverse switch board, including motor and clutch, that need to be replaced can be manually inserted and removed with replacement in one second; the maintenance of the screwdriver will not require professional technology, which can effectively improve the maintenance efficiency and reduce the maintenance cost.

6.The reverse switch adopts patented magnet positioning technology: stable positioning, stable dynamic effect and long service life; The brake switch adopts the patented contact less photoelectric induction brake technology, which has the characteristics of high sensitivity, good stability and long service life, and effectively improves the reliability and service life of the product.

7. With the patented design of ergonomics, the shape can effectively improve the comfort of holding, reduce work fatigue and improve production efficiency.



定扭力時,離合器會自動跳脱,馬達會立即斷電并及時刹車,讓電動螺絲起子停止運轉,單顆螺絲鎖付完成;當需要取出螺絲時,只需將正反開關切换到與鎖緊時相反的方向,然后按動開關壓板即可取出螺絲。

5. 操作頻率: 本機額定斷續運行時間為 0.8 秒/2.4 秒(0N/0FF)。即每分鐘操作鎖螺絲的數量約為 20 顆, 過高的使用頻率會使馬達發熱量增加, 握持處温度偏高。

6. 操作運行中嚴禁切换正反轉開關。

七、接地說明

1. 電源插座的接地綫需和大地可靠的連接,即電源插座的地綫孔與大地間的電壓基本為零(可通過測量插座地綫孔與旁邊的鐵窗户、桌子、水管等與大地已可靠連接的導電物件的電壓來判斷,當電服高于36V時必须先檢修插座的接地情况。因為此時正常接地良好的設備接到此插座上都會存在較高的漏電壓,這樣會給人身帶來安全隱患。

2. 電動起子只有連接到接地良好的電源插座上,對操作者和作業對象來說才是安全的;當觸碰到起子上的金屬部件有觸電感覺時,務必立即停止使用,交由維修人員查找漏電原因,待漏電故障排除后再使用。

3. 操作者可以用簡单的方法判定電動起子 接地是否正常:通過測量電動起子的傳動軸與 電源地綫部分的電阻來判定,正常情况下,電 阻應小于10歐姆,當電阻偏高時需交由專業技 術人員維修,待阻值正常后方可使用。

八. 扭力調整

1. 扭力輸出的大小可通過電動起子下端的 扭力調整環來調節,離合器下筒的刻劃段數并 不代表實際的扭力大小,粗略扭力大小可參考 扭力表示圖預估得到,精確扭力必須以扭力測 試儀實際測量結果爲准。

 2. 旋轉扭力調整環可以增加或減少扭力輸出:順時針方向調至較高刻度,代表增加扭力; 逆時針方向調至較低刻度,代表減少扭力。

3. 當不確定鎖付對象所需扭力大小時應循序漸 進, 先用小扭力試鎖螺絲, 再逐漸增至較大扭 力, 直至達到滿意鎖付效果爲止。

4. 鎖緊螺絲所需的扭力依其鉚合狀况或材質不同而有所差异,必要時可用扭力計量測及調整電動螺絲起子的扭力

5. 電動螺絲起子經調整好扭力后,將外殼 前鎖環松開取下,换上扭力護套(選配),這樣 8.The micro adjustable switching power supply with high precision and stability is adopted, so that the speed of the electric driver can be adjusted without segment speed within a certain range, effectively maintaining the flexibility of the product.

VI Operating instructions

1.Please turn off the switch on the power adapter when replacing the screwdriver head or adjusting the speed.Chemicals such as acetone, benzene, diluent, ketones, trichloroethylene, etc. do not touch the electric screwdriver. These substances are easy to corrode the shell and power cord of the electric screwdriver.

2.Be careful in using the electric screwdriver. Don't drop or impact it with strong force. It is best to use a balance to lift it. If the electric screwdriver cannot be lifted, use a screwdriver rack to place it. When placing it on the work surface, don't place it along the edge. The direction of placement should not be the same as the direction of the edge. Failure to place it securely can cause the electric screwdriver to be damaged due to dropping, and it can easily cause injury to the operator.

3.Install or remove the screwdriver blade: Simply push the screwdriver head cap up with your fingertips to freely attach or remove the screwdriver head, and release the finger to return the screwdriver head cap to fix the screwdriver head.

4.When the pressure plate type screwdriver is used to lock the screw, please switch the reverse switch to the"→" position (if the screw is the reverse tooth specification, the reverse switch must be switched to the"←" position), and the screwdriver head will be aligned to the center position of the nut. After pressing the switch pressure plate, the electric screwdriver can start the operation.When the screw locks to the set torque, the clutch will automatically trip, the motor will immediately power off and brake in time, so that the electric screwdriver stops running, single screw lock is completed; when you need to remove the screw, just switch the reverse switch to the opposite direction to the lock, then press the switch pressure plate to remove the screw.

5.Operating frequency: The rated intermittent running time of this unit is 0.8 sec/2.4 sec(ON/OFF). That is, the number of lock screws per minute is about 20, and the excessive use frequency will increase the heat generated by the motor and the temperature at the grip is high.

6.It is forbidden to switch the reverse switch during operation.

VII. Grounding instructions

1. The grounding wire of the power socket needs to be reliably



可避免人為擅意旋轉扭力調整環而讓原設定的扭力值遭到變動。

6. 在相同的扭力刻度下,退出的扭力會較大 於擰緊的扭力,在不調整扭力調整環的情况下, 有助於螺絲的拆卸;特殊情况下螺絲緊度大於反 轉扭力,離合器已经跳脱並且控制部分也剎車時, 而螺絲仍無法鬆開時,需調整電動螺絲起子至較 大扭力,方可退出螺絲,調整後電動起子的扭力 較預設值有所偏大,不可馬上使用,需在扭力測 試儀上校正扭力後,方可繼續使用。

九. 其它说明

1. 進行扭力調整時,應先停止電動螺絲起子 運轉。電動螺絲起子的機械磨損狀况,依使用者 之使用扭力、時間或频率而有所差异,使用扭力 越大、時間越長或頻率越高則磨損越快新品在刻 度4使用一個月后(每日8時,操作频率20Pcs/min) 約有3-5%的扭力衰滅(刻度8則有5-7%的衰滅), 依使用時間的增長,其衰减程度會逐漸減少并趨 于穩定,使用者可定期使用扭力計量測電動螺絲 起子的扭力輸出值是否符合需要,適時補償衰减 的扭力。

2. 此電動螺絲起子的最佳使用狀况是每日不 超過8小時。

3. 當電動螺絲起子使用時數達 1000 小時或 約半年時間,須進行機身內部清潔、加潤滑油等 等的保養或檢查動作,以維持電動螺絲起子的壽 命、安全和扭力精准度。

4. 離合器應定期補充專用的潤滑脂,使其傳動順暢以便降低磨損。電動螺絲起子的維修保養工作可就近交由本公司指定之售后服務中心或聯絡原購買的經銷商送往當地服務中心處理。

十. 售後服務

1. 本公司生產的無刷系列電動起子自銷售日 起提供整機一年免費保修服務(易损件除外),為 提高售後服務品質,如客戶有需求,我司可提供 技術指導,以便客戶自主掌握維修技術;

2.客戶維修產品時需出示機身編號,機身編號缺失以及撕毀無效標籤破損保修服務即刻失效;另外未經本公司許可,客戶若將電動螺絲起子交由非本公司指定的售後服務中心維修或自行拆解處理,保修服務亦即刻失效,後續維修我司將酌情提供有償服務。客戶自主維修的電動起子請配合使用原廠零件,使用非原廠零件維修而造成電動起子發生故障或品質不良,本公司恕不負責。

3. 本公司保留以上所有條款的最終解釋權。

connected to the earth, that is, the voltage between the grounding hole of the power socket and the earth is basically zero(it can be measured by the voltage of ground hole of the socket and the iron window table, water pipe and other reliably connected conductive objects. When the voltage is higher than 36,the grounding of the socket must be checked first, because the device with good grounding at this time will have a high leakage voltage when it is connected to the socket, which will bring safety hazards to operator);

2.The electric screwdriver is only safe for operator and working object when connected to a well-grounded power socket. When the metal parts touching the screwdriver give sense of an electric shock be sure to stop using it immediately and hand it over to the maintenance personnel. Find the cause of the leakage and use it after the leakage fault is removed.

3.The operator can use a simple method to determine whether the grounding of the electric screwdriver is normal: it can be determined by measuring the resistance between the transmission shaft and the power ground wire of the electric screwdriver. Under normal circumstances, the resistance should be less than 10 ohms. When the resistance is high, it needs to be repaired by professional technicians. It can be used only after the resistance value is normal

VIII. Torque adjustment

1.The torque output can be adjusted by the torque adjusting ring at the lower end of the electric driver. The number of scribbled segments of the lower barrel of the clutch does not represent the actual torque. The rough torque can be estimated by referring to the torque representation diagram. The accurate torque must be subject to the actual measurement result of the torque tester.

2.Rotating the torque adjusting ring can increase or decrease the torque output: adjust it clockwise to a higher scale, which means to increase the torque; Turning counterclockwise to a lower scale means reducing torque.

3. When you are not sure about the required torque of the lock object, you should proceed step by step. First, try to lock the screw with a small torque, and then gradually increase the torque to a large torque until the satisfactory lock effect is achieved.

4.The torque required to lock the screws varies depending on the riveting condition or material. If necessary, the torque can be measured and adjusted to adjust the torque of the electric screwdriver.



5.After adjusting the torque of the electric screwdriver loosen and remove the front lock ring of the outer casing and replace it with the torque sheath (optional), so as to avoid artificially rotating the torque adjustment ring and changing the original set torque value.

6.Under the same torque scale, the exiting torque will be larger than the locking torque, and the screw can be disassembled without adjusting the torque adjustment ring; in special cases, when the screw tightness is greater than the reverse torque the clutch has tripped, the control part is also braked and the screw still cannot be loosened. the electric screwdriver must be adjusted to a large torque to remove the screw After adjustment, the torque of the electric screwdriver is larger than the preset value, and cannot be used immediately. The torque must be corrected on the torque tester before continuing to use.

IX.Notes

1.When adjusting the torque, first stop the electric screwdriver. The mechanical wear condition of the electric screwdriver is different depending on the torque, time or frequency of the user. The greater torque leads to the longer time or higher frequency and faster wear the new product suffers from about 3-5% of the torque attenuation (scale 8 has a 5-7% attenuation) after being used for one month at scale 4 (8 o'clock every day, operating frequency 20Pcs/min). As the use of time increases, its attenuation will gradually reduce and tend to stabilize. The user can periodically use the torque measurement to measure whether the torque output value of the electric screwdriver is in accordance with the needs, and timely compensate the attenuated torque.

2. The best use condition of this electric screwdriver is no more than 8 hours per day.

3.When the electric screwdriver is used for 1000 hours or about half a year, maintenance or inspection of the internal cleaning of the fuselage, lubrication, etc shall be carried out to maintain the life, safety and torque accuracy of the electric screwdriver.

4.The clutch should be replenished with special grease on a regular basis to make the drive smoother to reduce wear The maintenance work of the screwdriver can be delivered to after-sales service center designated by the company or to the local service center for processing by contacting the dealer of original purchase.

X. After-sales service

1.The company's production of brushless series electric driver since the date of sales to provide a one-year free warranty service (Excluding wearing parts), in order to

improve the quality of after-sales service, such as customer demand, our company can provide technical guidance, so that customers master maintenance technology;

2.The customer shall show the fuselage number when repairing the product. If the fuselage number is missing or invalid label is torn and damaged, the warranty service will be immediately invalid. In addition, without the permission of the company, if the customer sends the electric screwdriver to the after-sales service center not designated by the company for maintenance or self-disassembly, the warranty service will immediately become invalid, and we will provide paid service for subsequent maintenance as appropriate. Please cooperate with the use of the original factory parts, the use of non-original parts maintenance caused by the failure of the electric driver or poor quality, the company will not be responsible.

3. The company reserves the right of final interpretation of all the above terms.

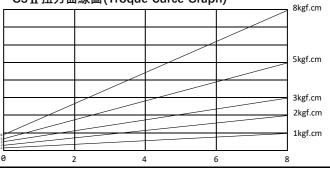


GS II 系列性能參數						
輔	入電壓			DC 30V		
割	東定功率			25W		
規	格型號	KD100ML	KD200ML	KD300ML	KD500ML	KD800ML
	kgf.cm	0.1-1.0	0.2-2	0.3-3	0.5-5	1-8
扭力範圍	N.m	0.0098-0.098	0.0196-0.196	0.029-0.29	0.049-0.49	0.098-0.98
	Lbf.in	0.087-0.867	0.1734-1.734	0.260-2.61	0.434-4.33	0.867-8.67
扭	l力精度(%)	±5	±5	±5	±5	±5
扭力調整		無段式	無段式	無段式	無段式	無段式
空載	轉速(rpm)	100-1000	100-1000	100-1000	100-1000	100-1000
適用螺絲	機械牙(mm)	1.0-1.5	1.0-2.3	1.0-2.3	1.4-2.6	1.6-3.0
直徑(mm)	自攻牙(mm)	1.0-1.5	1.0-2.0	1.0-2.0	1.4-2.3	1.6-2.6
適.	用起子頭	Ø4/Ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4

GS II Series Performance parameters

Input voltage		DC 30V						
Rated power		25W						
Spe	ecifications	KD100ML	KD200ML KD300ML		KD500ML	KD800ML		
kgf.cm		0.1-1.0	0.2-2	0.3-3	0.5-5	1-8		
Torque range	N.m	0.0098-0.098	0.0196-0.196	0.029-0.29	0.049-0.49	0.098-0.98		
	Lbf.in	0.087-0.867	0.1734-1.734	0.260-2.61	0.434-4.33	0.867-8.67		
Torque accuracy(%)		±5	±5	±5	±5	±5		
Torque adjustmen		Continuous adjustable						
No-load speed(rpm)		100-1000	100-1000	100-1000	100-1000	100-1000		
Applicable screw diameter	Mechanical teeth(mm)	1.0-1.5	1.0-2.3	1.0-2.3	1.4-2.6	1.6-3.0		
		1.0-1.5	1.0-2.0	1.0-2.0	1.4-2.3	1.6-2.6		
Applicable screwdriver head		ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	ø4/ø5/HEX6.35(1/4')	Ø4/Ø5/HEX6.35(1/4')		

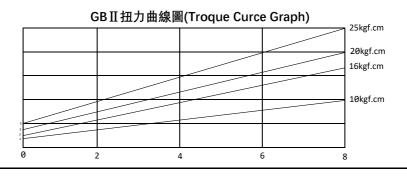
GS II 扭力曲線圖(Troque Curce Graph)





					GSi		
		GB II 3	系列性能參數				
‡	輸入電壓		DC	30V			
奢	領定功率		7.	2W			
Ħ	見格型號	KD110ML/KD110MLS	KD216ML/KD216MLS	KD320ML/KD320MLS	KD525ML		
	kgf.cm	1-10	2-16	3-20	5-25		
扭力範圍	N.m	0.098-0.98	0.196-1.57	0.294-1.96	0.490-2.45		
	Lbf.in	0.867-8.68	1.734-13.87	2.601-17.34	4.339-21.69		
拍	丑力精度(%)	±5	±5	±5	±5		
扭力調整		無段式	無段式	無段式	無段式		
空載	戏轉速(rpm)	1000/2000	1000/2000	1000/2000	1000		
適用螺絲	機械牙(mm)	2.0-3.0	2.3-3.5	2.6-4.0	3-4.5		
直徑(mm)	自攻牙(mm)	1.6-2.6	2.0-3.0 2.6-3.5		2.6-4.0		
適	用起子頭	ø4/ø5/HEX5/6.35(1/4')	φ4/φ5/HEX5/6.35(1/4')	φ4/φ5/HEX5/6.35(1/4')	ø4/ø5/HEX5/6.35(1/4		
	(GB II Series Per	formance pa	rameters			
Inp	out voltage	DC 30V					
Rated power			72W				
Spi	ecifications	KD110ML/KD110MLS	KD216ML/KD216MLS	KD320ML/KD320MLS	KD525ML		
	kgf.cm	1-10	2-16	3-20	5-25		
Torque range	N.m	0.098-0.98	0.196-1.57	0.294-1.96	0.490-2.45		

0.196-1.57 Torque range N.m 0.098-0.98 0.294-1.96 0.490-2.45 Lbf.in 0.867-8.68 1.734-13.87 2.601-17.34 4.339-21.699 Torque accuracy(%) ±5 ±5 ±5 ±5 Continuous adjustable Continuous adjustable Continuous adjustable Continuous adjustable Torque adjustmen 1000/2000 1000/2000 1000/2000 1000 No-load speed(rpm) Mechanical teeth(mm) 2.0-3.0 2.3-3.5 2.6-4.0 3-4.5 Applicable screw diameter | Self-tappingteeth(mm) 1.6-2.6 2.0-3.0 2.6-3.5 2.6-4.0 Applicable screwdriver head ø4/ø5/HEX5/6.35(1/4') ø4/ø5/HEX5/6.35(1/4') φ4/φ5/HEX5/6.35(1/4') φ4/φ5/HEX5/6.35(1/4'





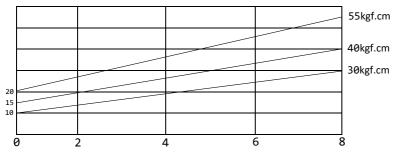
GDII系列性能參數

輸入電壓		DC 36V				
3	額定功率		100W			
#	見格型號	KD1030ML/KD1030MLS KD1540ML		KD2055ML		
	kgf.cm	10-30	15-40	20-50		
扭力範圍	N.m	0.98-2.94	1.47-3.92	1.96-4.9		
	Lbf.in	8.67-26.1	13-34.68	17.34-43.35		
扌	丑力精度(%)	±5 ±5		±5		
1	扭力調整	無段式	無段式	無段式		
空車	战轉速(rpm)	900/2000 900		500		
適用螺絲	機械牙	2.6-4.0	3.0-4.5	3.5-5.0		
直徑(mm)	自攻牙	2.6-3.5	2.6-4.0	3.0-4.5		
適用起子頭		HEX6.35mm(1/4')	HEX6.35mm(1/4')	HEX6.35mm(1/4')		

GD II Performance parameters

Inp	ut voltage	DC 36V						
Rated power			100W					
Specifications		KD1030ML/KD1030MLS KD1540ML		KD2055ML				
	kgf.cm	10-30	15-40	20-50				
Torque range	N.m	0.98-2.94	1.47-3.92	1.96-4.9				
	Lbf.in	8.67-26.1	13-34.68	17.34-43.35				
Torque accuracy(%)		±5	±5	±5				
Torque adjustmen		Continuous adjustable	Continuous adjustable	Continuous adjustable				
No-load speed(rpm)		900/2000	900	500				
	Mechanical teeth	2.6-4.0	3.0-4.5	3.5-5.0				
screw diameter	Self-tappingteeth	2.6-3.5	2.6-4.0	3.0-4.5				
Applicable screwdriver head		HEX6.35mm(1/4')	HEX6.35mm(1/4')	HEX6.35mm(1/4')				

GD II 扭力曲線圖(Troque Curce Graph)



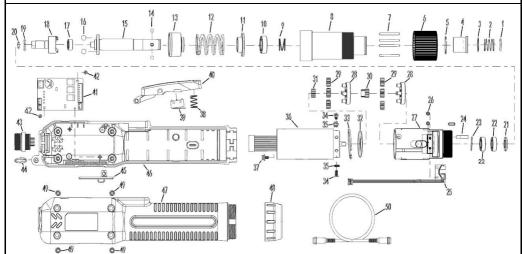


GSII系列無刷電動起子零件分解圖 V1.0 33 0000000000000000000 0 15 零件名稱 編號 系統料號 編號 系統料號 Parts Name 數量 零件名稱 Parts Name 數量 R.00.7001 C型環 C-Ring R.00.3071 刹車开关板 Brake plate 1 R.00.5249 起子帽套 Bit Sleeve R.00.7332 螺絲(PM1.6) Screw(PM1.6) 2 25 2 3 R.00.7010 帽套彈簧 Bit Spring 1 26 R.00.5242 齒輪箱整組 Gear Case 1 R.00.7282 墊片 Gasket R. 00. 7206 螺絲 Screw(KM2.5) 1 1 27 3 5 R.00.5020 扭力調整筒 Torque Adjust Ring 1 28 R.00.6061 齒輪盤 Gear Plate 2 行星齒輪 R.00.5029 扭力調整棒 Torque Adjust Pin 3 29 R.00.6062 Planet Gear 8 R.00.5245 下離合器筒 Clutch Case R.00.6063 中心齒 Center Gear 7 1 30 1 接地彈簧 馬達齒 8 R.00.7220 Spring 1 31 R.00.6064 Main Gear 1 R.00.7180 Bearing 9 軸承 32 R.00.7345 墊片(φ21.3) Gasket 1 1 10 R.00.5248 下止推盤 Lower Thrust Plate 1 33 R.00.1017 馬達整組 Motor Assembly 1 螺絲 R.00.7341 1公斤扭力彈簧 Spring 34 Z.00.1194 Screw(M2.5) 1 R.00.7342 R.00.7030 按板彈簧 11 2公斤扭力彈簧 Spring 35 Spring 2 R.00.7343 3公斤扭力彈簧 R.00.3004 微動開關 Switch Spring 36 1 R.00.8050 上止推盤整組 Upper Thrust Plate 37 R.00.2124 正轉按板(黑) Trigger-FWD 1 12 1 Control Board R.00.7160 R.00.3076 13 鋼珠(φ2.0) Stell Ball(ϕ 2.0) 2 38 控制板 1 14 R.00.5250 傳動軸 (φ4) Shaft 1 39 R.00.7070 螺絲(PA2.0) Screw(PA2.0) 2 15 R.00.7165 鋼珠(Φ4.0) Stell Ball(ϕ 4.0) 2 40 R.00.2125 反轉按板(黑) Trigger-REV 1 R.00.7339 軸承 Bearing R.00.8047 6PIN Plug 16 1 41 航空頭整組(G) 1 吊環 Ring 17 R.00.5243 凸輪 Cam 1 42 R.00.7038 1 平面軸承鎦保 雷位器整組 R.00.7256 43 R.00.3054 Potentiometer 18 Cage 1 1 19 R.00.7347 0型圏(φ6*0.5) $0-ring(\phi6*0.5)$ 1 44 R.00.2126 外殼下(象牙白) Shell-Lower 1 大孔片 20 R.00.7148 1 45 R.00.2127 外殼上(象牙白) Shell-Upper 1 Cage 螺絲 R.00.7180 Bearing 2 R.00.7059 Screw(M2.5) 4 21 46 R.00.7363 0型圏(Φ9*0.5) R.00.2123 22 $0-ring(\phi 9*0.5)$ 1 47 前鎖環(黑色) Coupler 1 23 R.00.8051 刹車銷整組 Brake Pin 1 48 R.00.4002 雷源線 Power Cord 1



V1.0

GBⅡ系列無刷電動起子零件分解圖



	6)-41	Ø-47							
編號	系統料號	零件名稱	Parts Name	數量	編號	系統料號	零件名稱	Parts Name	數量
1	R.00.7329	C型環(φ5)	C-Ring	1	25	R.00.3071	刹車开关板	Brake plate	1
2	R.00.7350	帽套彈簧	Bit Spring	1	26	R.00.7332	螺絲(PM1.6)	Screw(PM1.6)	2
3	R.00.7100	墊片	Gasket	1	27	R.00.8053	齒輪箱整組	Gear Case	1
4	R.00.5224	φ5起子帽套	Bit Sleeve	1	28	R.00.6057	齒輪盤	Gear Plate	2
5	R.00.7007	C型環(φ15.5)	C-Ring	1	29	R.00.6058	行星齒輪	Planet Gear	8
6	R.00.5017	扭力調整筒	Torque Adjust Ring	1	30	R.00.6059	中心齒	Center Gear	1
7	R.00.5161	扭力調整棒	Torque Adjust Pin	4	31	R.00.6060	馬達齒	Main Gear	1
8	R.00.5220	下離合器筒	Clutch Case	1	32	R.00.7328	墊片	Gasket	1
9	R.00.7261	接地彈簧	Spring	1	33	R.00.7233	卡簧(¢ 24)	Snap Ring	1
10	R.00.7144	軸承	Bearing	1	34	R.00.7206	螺絲	Screw(KM2.5)	3
11	R.00.5223	下止推盤	Lower Thrust Plate	1	35	R.00.7109	菊花墊片	Gasket	3
	R.00.7336	10公斤扭力彈簧	Spring		36	R.00.1016	馬達整組	Motor Assembly	1
12	R.00.7337	16公斤扭力彈簧	Spring	1	37	Z.00.1194	螺絲	Screw(M2.5)	1
12	R.00.7338	20公斤扭力彈簧	Spring	1	38	R.00.7030	彈簧	Spring	1
	R.00.7351	25公斤扭力彈簧	Spring		39	R.00.3004	微動開關	Switch	1
13	R.00.8049	上止推盤整組	Upper Thrust Plate	1	40	R.00.2120	啟動按板(黑色)	Trigger	1
14	R.00.7353	鋼珠(φ2.88)	Stell Ball(φ2.88)	2	41	R.00.3070	控制板	Control Board	1
15	R.00.5225	傳動軸(φ5)	Shaft(φ5)	1	42	R.00.7070	螺絲(PA2.0)	Screw(PA2.0)	2
16	R.00.7327	鋼珠(φ4.4)	Stell Ball(φ4.4)	2	43	R.00.8047	航空頭整組(G)	6PIN Plug	1
17	R.00.7227	軸承	Bearing	1	44	R.00.7038	吊環	Ring	1
18	R.00.5219	凸輪	Cam	1	45	R.00.2106	正反開關(黑色)	Chang over-Switch	1
19	R.00.7160	鋼珠(φ2.0)	Stell Ball(φ2.0)	15	46	R.00.2121	外殼下(象牙白)	Shell-Lower	1
20	R.00.7331	0型圏(φ7*0.5)	O-ring(φ7*0.5)	1	47	R.00.2122	外殼上(象牙白)	Shell-Upper	1
21	R.00.7229	大孔片	Cage	1	48	R.00.2104	前鎖環(黑色)	Coupler	1
22	R.00.7135	軸承	Bearing	2	49	R.00.7061	螺絲(PM3.0)	Screw(PM3.0)	4
23	R.00.7354	0型圏(φ11*0.5)	O-ring(φ11*0.5)	1	50	R.00.4002	電源線	Power Cord	1
24	R.00.5226	刹車銷整組	Brake Pin	1	/				



GD II 系列無刷電動起子零件分解圖 V1.0 000 0 0 0.52 編號 系統料號 零件名稱 編號 系統料號 零件名稱 Parts Name 數量 Parts Name 數量 R.00.7329 C型環 C-Ring 28 R.00.7061 螺絲(M3.0) Screw(KM3.0) 3 R.00.5261 起子帽套 Bit Sleeve 1 R.00.6075 輸出盤 Gear Plate 1 R.00.7277 3 起子帽套彈簧 Bit Spring 1 30 R.00.6068 行星齒(18T)厚 Planet Gear 4 4 R.00.7100 不銹鋼墊片 Gasket 1 31 R.00.6076 中心齒輪盤整組 Center Gear 1 5 R.00.5265 扭力調整筒 Torque Adjust Ring 1 32 R.00.6067 行星齒(18T)薄 Planet Gear 4 R.00.5264 扭力調整棒 Torque Adjust Pin 4 33 R.00.6070 馬達主齒 Main Gear 1 下離合器筒 不銹鋼墊片 7 Clutch Case Gasket R.00.5257 1 34 R.00.7262 1 8 R.00.7261 接地彈簧 Spring 1 35 R.00.7124 孔用卡簧 1 Snap Ring 9 R.00.7352 不銹鋼墊片 Gasket 1 R.00.1009 馬達整組 Motor Assembly 1 R.00.7205 61800ZZ軸承 螺絲 10 Bearing 2 37 Z.00.1194 Screw(M2.5) 1 R.00.5260 下止推盤 Lower Thrust Plate 1 R.00.2009 固定座 Fixed Seet 11 38 1 R.00.7359 55公斤扭力彈簧 Spring 39 R.00.7320 自攻螺絲(M1.6) Screw(M1.6) 7 R.00.8062 上止推盤整組 Upper Thrust Plate 1 R.00.3017 啟動開關板 Start-PCB 1 13 鋼珠(φ2.5) Stell Ball(ϕ 2.5) 2 按板彈簧 Spring 14 R.00.7164 41 R.00.7360 1 微動開關 15 R.00.5262 傳動軸 Shaft 1 42 R.00.3004 Switch 1 R.00.7165 鋼珠(φ4.0) Stell Ball(ϕ 4.0) 3 43 R.00.2018 按板 Trigger 1 16 R.00.2019 17 R.00.5256 Cam 1 44 控制板 Control Board 1 R. 00. 7360 0型圈(φ8*0.5) 45 R. 00. 7038 吊環 18 $0-ring(\phi 8*0.5)$ 1 Ring 1 R.00.7162 鋼珠(b3.0) Stell Ball(ϕ 3.0) 12 R.00.8047 6PIN Plug 1 航空頭整組(G) R.00.7149 20 大孔片 Cage 1 17 R.00.3020 正反轉開關板 Changeover-PCB 1

48

49

50

51

52

53

1

1

1

1

2

3

3

R. 00. 2059

R.00.2026

R.00.2042

R.00.2003

R.00.7061

R.00.4002

正反開關

外殼 (下)

外殼 (上)

螺絲(PM3.0)

前鎖環

電源線

Chang over-Switch

Shell-Lower

Shell-Upper

Screw(PM3.0)

Power Cord

Coupler

1

1

1

1

4

1

R. 00. 7264

R.00.7356

R.00.5226

R.00.8061

R.00.3080

R.00.7332

R.00.7110

688ZZ軸承

刹車銷整組

齒輪箱整組

刹車開關板

螺絲(PM1.6)

菊花墊片

0型圏(φ13*0.5)

21

22

23

24

25

26

27

Bearing

Brake Pin

Gear Case

Gasket

Brake plate

Screw(PM1.6)

0-ring(\$13*0.5)

紧密连接 转动未来



6 +86-0755-27678899

+86-0755-28149276

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