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PRO

GSR18V-52 | GSB18V-52

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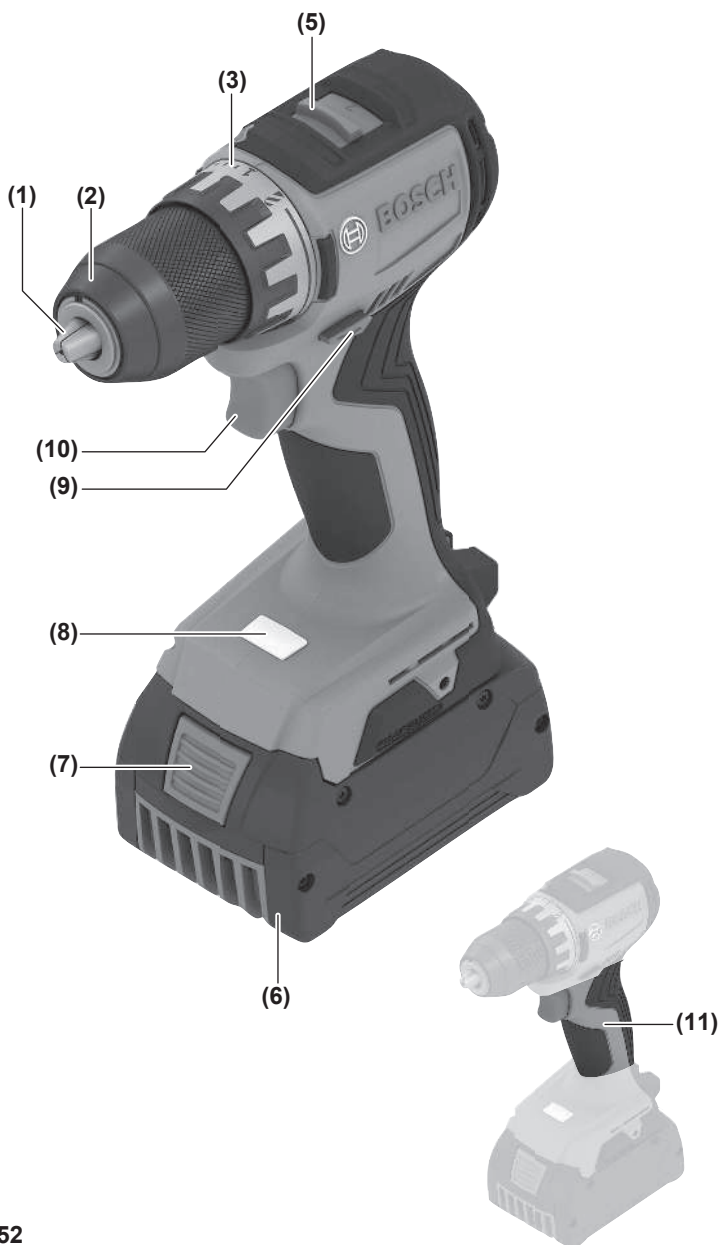
zh 原始使用說明書

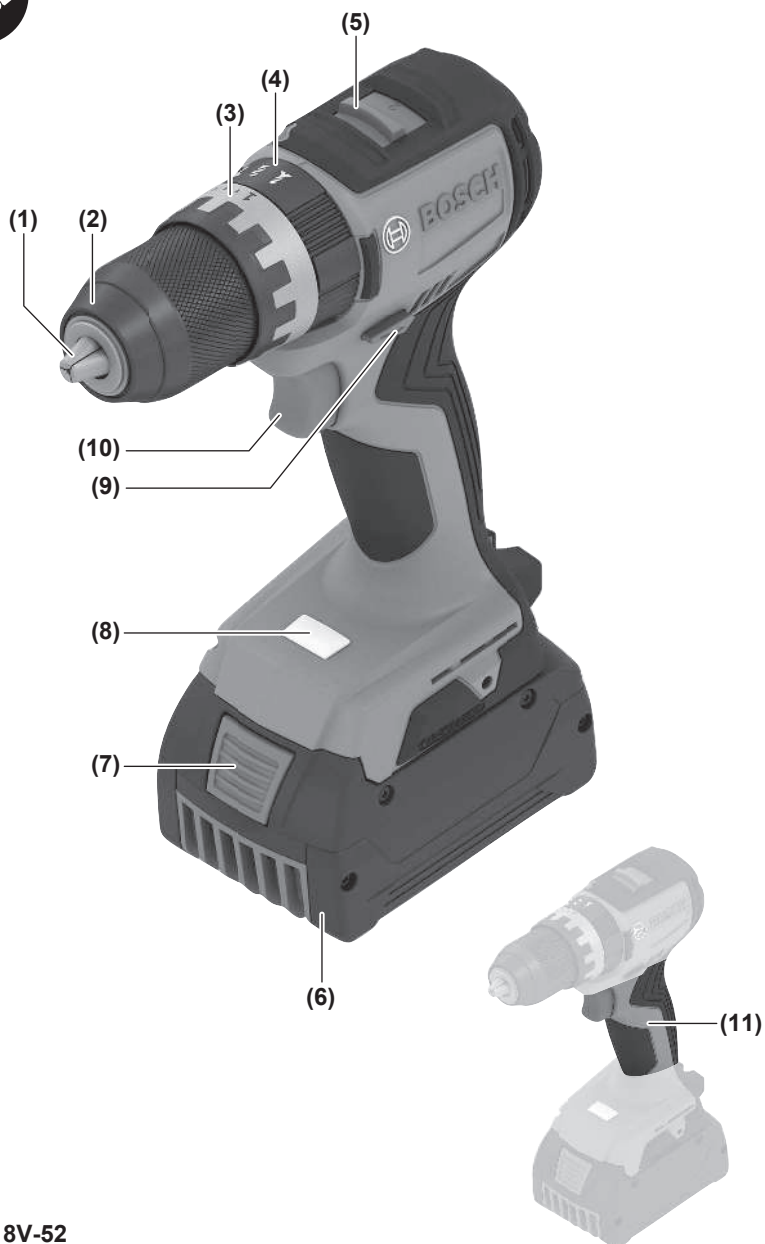


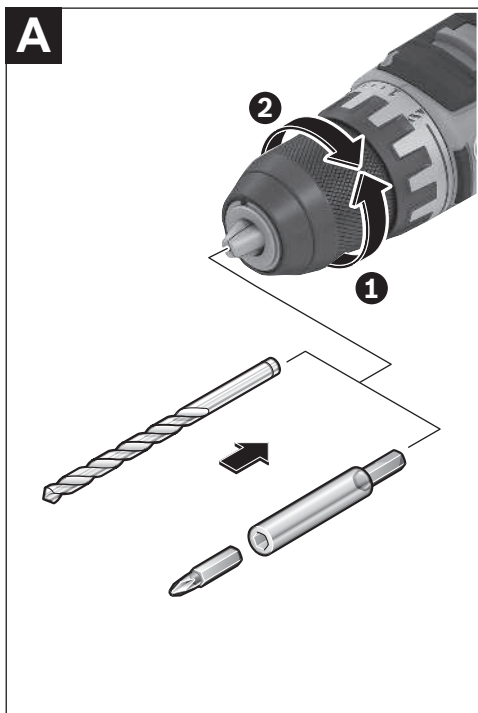
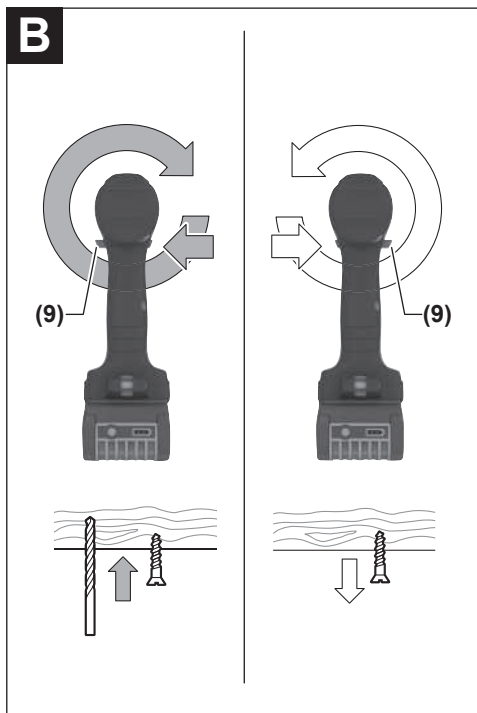
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**GSR18V-52**

**GSB18V-52**



繁體中文

安全注意事項

電動工具一般安全注意事項

警告

請詳讀工作臺及電動工具的所有安全警告與使用說明。若不

遵照以下列出的指示，將可能導致電擊、著火和 / 或人員重傷。

保存所有警告和說明書以備查閱。

在所有警告中，「電動工具」此一名詞泛指：以市電驅動的（有線）電動工具或是以電池驅動的（無線）電動工具。

工作場地的安全

- ▶ 保持工作場地清潔和明亮。混亂和黑暗的場地會引發事故。
- ▶ 不要在易爆環境，如有易燃液體、氣體或粉塵的環境下操作電動工具。電動工具產生的火花會點燃粉塵或氣體。
- ▶ 讓兒童和旁觀者離開後操作電動工具。注意力不集中會使您失去對工具的控制。

電氣安全

- ▶ 不得將電動工具暴露在雨中或潮濕環境中。水進入電動工具將增加電擊危險。

人身安全

- ▶ 保持警覺，當操作電動工具時關注所從事的操作並保持清醒。當您感到疲倦，或在有藥物、酒精或治療反應時，不要操作電動工具。在操作電動工具時瞬間的疏忽會導致嚴重人身傷害。
- ▶ 使用個人防護裝置。始終佩戴護目鏡。安全裝置，諸如適當條件下使用防塵面具、防滑安全鞋、安全帽、聽力防護等裝置能減少人身傷害。
- ▶ 防止意外起動。確保開關在連接電源和 / 或電池盒、拿起或搬運工具時處於關閉位置。手指放在已接通電源的開關上或開關處於接通時插入插頭可能會導致危險。
- ▶ 在電動工具接通之前，拿掉所有調節鑰匙或扳手。遺留在電動工具旋轉零件上的扳手或鑰匙會導致人身傷害。
- ▶ 手不要伸展得太長。時刻注意立足點和身體平衡。這樣在意外情況下能很好地控制電動工具。
- ▶ 著裝適當。不要穿寬鬆衣服或佩戴飾品。讓您的衣物及頭髮遠離運動部件。寬鬆衣服、佩飾或長髮可能會捲入運動部件中。
- ▶ 如果提供了與排屑、集塵設備連接用的裝置，要確保他們連接完好且使用得當。使用這些裝置可減少塵屑引起的危險。
- ▶ 切勿因經常使用工具所累積的熟練感而過度自信，輕忽工具的安全守則。任何一個魯莽的舉動都可能瞬間造成人員重傷。

電動工具使用和注意事項

- ▶ 不要濫用電動工具，根據用途使用適當的電動工具。選用適當設計的電動工具會使您工作更有效、更安全。
- ▶ 如果開關不能開啟或關閉工具電源，則不能使用該電動工具。不能用開關來控制的電動工具是危險的且必須進行修理。
- ▶ 在進行任何調整、更換配件或貯存電動工具之前，必須從電源上拔掉插頭並 / 或取出電池盒。這種防護性措施將減少工具意外起動的危險。
- ▶ 將閒置不用的電動工具貯存在兒童所及範圍之外，並且不要讓不熟悉電動工具或對這些說明不瞭解的人操作電動工具。電動工具在未經培訓的用戶手中是危險的。
- ▶ 保養電動工具與配備。檢查運動件是否調整到位或卡住，檢查零件破損情況和影響電動工具運行的其他狀況。如有損壞，電動工具應在使用前修理好。許多事故由維護不良的電動工具引發。
- ▶ 保持切削刀具鋒利和清潔。保養良好的有鋒利切削刃的刀具不易卡住而且容易控制。
- ▶ 按照使用說明書，考慮作業條件和進行的作業來使用電動工具、配件和工具的刀頭等。將電動工具用於那些與其用途不符的操作可能會導致危險。
- ▶ 把手及握持區應保持乾燥、潔淨，且不得沾染任何油液或油脂。易滑脫的把手及握持區將無法讓您在發生意外狀況時安全地抓緊並控制工具。

電池式工具使用和注意事項

- ▶ 只用製造商規定的充電器充電。將適用於某種電池盒的充電器用到其他電池盒時會發生著火危險。
- ▶ 只有在配有專用電池盒的情況下才使用電動工具。使用其他電池盒會發生損壞和著火危險。
- ▶ 當電池盒不用時，將它遠離其他金屬物體，例如回形針、硬幣、鑰匙、釘子、螺絲或其他小金屬物體，以防一端與另一端連接。電池端部短路會引起燃燒或火災。
- ▶ 在濫用條件下，液體會從電池中濺出；避免接觸。如果意外碰到了，用水沖洗。如果液體碰到了眼睛，還要尋求醫療幫助。從電池中濺出的液體會發生腐蝕或燃燒。
- ▶ 請勿使用已受損或經改裝的電池盒。已受損或經改裝的電池組可能出現無法預期的反應，進而導致著火、爆炸或造成人員受傷。
- ▶ 勿讓電池盒或工具靠近火源或暴露於異常溫度環境中。若是靠近火源或暴露在超過 130 °C 的環境中可能造成爆炸。
- ▶ 請完全遵照所有的充電說明，電池盒或工具的溫度若是超出指示的規定範圍，請勿進行充電。不當充電或是在未在規定的溫度範圍內進行充電，皆可能造成電池損壞並面臨更高的著火風險。

檢修

- ▶ 將您的電動工具送交專業維修人員，必須使用同樣的備件進行更換。這樣將確保所維修的電動工具的安全性。

- ▶ 請勿自行檢修受損的電池盒。電池組應交由製造商或是獲得授權的服務供應商來進行檢修。

電鑽和起子機的安全注意事項

所有作業的安全說明

- ▶ 鑽孔時請戴上耳罩。暴露在噪音下會造成聽力喪失。
- ▶ 進行作業時，負責進行切割的配件或固定釘可能會碰到隱藏的配線，請從絕緣握把處拿持電動工具。負責進行切割的配件或固定釘若是觸及「導電」電線，可能導致電動工具外露的金屬部件「導電」，進而使操作人員遭受電擊。

使用長鑽頭的安全說明

- ▶ 切勿以超過鑽頭額定最高轉速的速度操作。若鑽頭未接觸工件且以超過最高轉速的速度無負載轉動，可能會讓鑽頭彎曲並導致人員受傷。
- ▶ 請務必以低速啟動並將鑽尖確實抵住工件。若鑽頭未接觸工件且以超過最高轉速的速度無負載轉動，可能會讓鑽頭彎曲並導致人員受傷。
- ▶ 請沿著鑽頭方向施加適當的壓力，切勿過度施壓。鑽頭可能會彎曲並造成斷裂、失控並導致人員受傷。

其他安全注意事項

- ▶ 請牢牢握緊電動工具。旋緊與鬆開螺栓時，瞬間可能有較大的反作用力。
- ▶ 固定好工件。使用固定裝置或老虎鉗固定工件，會比用手持握工件更牢固。
- ▶ 使用合適的偵測裝置偵察隱藏的電線，或者向當地的相關單位尋求支援。接觸電線可能引起火災並讓操作者觸電。若損壞瓦斯管會引起爆炸。如果水管被刺穿會導致財物損失。
- ▶ 必須等電動工具完全靜止後才能將它放下。嵌件工具可能卡住而使電動工具失控。
- ▶ 如果充電電池損壞了，或者未按照規定使用充電電池，充電電池中會散發出有毒蒸氣。充電電池可能起火或爆炸。工作場所必須保持空氣流通，如果身體有任何不適必須馬上就醫。充電電池散發的蒸氣會刺激呼吸道。
- ▶ 切勿改裝拆開充電電池。可能造成短路。

- ▶ 尖銳物品（例如釘子或螺絲起子）或是外力皆有可能造成充電電池損壞。進而導致內部短路而發生電池起火、冒煙、爆炸或過熱等事故。
- ▶ 僅可在製造商的產品中使用充電電池。如此才可提供過載保護。



保護充電電池免受高溫（例如長期日照）、火焰、污垢、水液和濕氣的侵害。有爆炸及短路之虞。

- ▶ 如果嵌件工具被夾住了，請立刻關閉電動工具的電源。請準備好承受反作用力所造成的反彈。電動工具過載時或當它在進行加工的工件內部歪斜時，都會造成嵌件工具被夾住不動。

產品和功率描述



請詳讀所有安全注意事項和指示。如未遵守安全注意事項與指示，可能導致火災、人員遭受電擊及 / 或重傷。請留意操作說明書中最前面的圖示。

依規定使用機器

此電動工具可用來轉入或旋鬆螺絲，並且可在木材、金屬、混凝土及塑膠等材質上進行鑽孔。此外，GSB 還可在磚塊、砌牆和石材上進行衝擊鑽孔。

插圖上的機件

機件的編號和電動工具詳解圖上的編號一致。

- (1) 工具夾座
- (2) 快速夾頭
- (3) 預設扭力調整環
- (4) 操作模式設定調整環 (GSB18V-52)
- (5) 選檔開關
- (6) 充電電池^{a)}
- (7) 充電電池解鎖按鈕^{a)}
- (8) 工作燈 (LED)
- (9) 正逆轉開關
- (10) 起停開關
- (11) 把手 (絕緣握柄)

a) 所述之配件並不包含在基本的供貨範圍中。

技術性數據

充電式電鑽起子機		GSR18V-52	GSB18V-52
零件編號		3 601 JS0 0..	3 601 JS0 1..
額定電壓	伏特	18	18
額定空載轉速 $n_0^{A)}$			
- 1.檔位		0 ... 500	0 ... 500
- 2.檔位	轉/分鐘	0-1 900	0-1 900
ISO 5393 規定的硬螺絲鎖固最大扭矩 ^{A)}	牛頓米	70	70
衝擊次數 ^{A)}	轉/分鐘	-	27 000
最大鑽孔直徑 (1 檔/2 檔) 檔位			

充電式電鎖起子機		GSR18V-52	GSB18V-52
– 砌牆	公釐	–	10
– 鋼	公釐	10	10
– 木材	公釐	35	35
夾頭的夾緊範圍	公釐	1.5 ... 13	1.5 ... 13
最大螺栓直徑	公釐	10	10
重量 ^{B)}	公斤	0.92	0.98
建議的充電環境溫度	°C	0 ... +35	0 ... +35
允許的操作環境溫度 ^{C)} 以及存放時	°C	-20 ... +50	-20 ... +50
相容的充電電池		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...	
建議使用的充電器		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...	

A) 於 20–25 °C 配備充電電池 **GBA 18V 4.0Ah** 時測得。

B) 不含充電電池（您可在 www.bosch-professional.com 找到充電電池重量）

C) 溫度 <0 °C 時，性能受限

數值可能因產品而異，並受使用條件以及環境條件影響。進一步資訊請見www.bosch-professional.com/wac。

充電電池

Bosch 亦販售不含充電電池的充電式電動工具。可以從外包裝看出電動工具的供貨範圍是否包括電池。

為充電電池進行充電

► **只能選用技術性數據裡所列出的充電器。**僅有這些充電器適用於電動工具所使用的鋰離子充電電池。

提示：由於國際運輸規定，出貨時鋰離子充電電池已部分充電。初次使用電動工具之前，請先將充電電池充飽電以確保充電電池蓄滿電力。

安裝充電電池

將已充飽電的充電電池推至充電電池固定座內，直到卡緊。

取出充電電池

若要取出充電電池，請按解鎖鈕，然後將充電電池抽出。**不可以強行拉出充電電池。**

本充電電池具備了雙重鎖定功能，即使不小心按壓了充電電池解鎖按鈕，充電電池也不會從機器中掉落出來。固定彈簧會把充電電池夾緊在機器中。

充電電池的電量指示器

提示：並非所有的充電電池類型都有電量指示器。

充電電池的電量指示器透過綠色 LED 燈告知充電電池的目前電量。基於安全顧慮，務必在電動工具完全靜止時才能檢查充電電池的電量。

按一下電量指示器按鈕  或 ，即可顯示目前的電量。即使已取出充電電池，此項功能仍可正常運作。

按壓電量顯示按鈕後，LED 燈若未亮起，即表示充電電池故障，必須予以更換。

充電電池型號 GBA 18V... | GBA18V...



LED	容量
3 顆綠燈持續亮起	60–100 %
2 顆綠燈持續亮起	30–60 %
1 顆綠燈持續亮起	5–30 %
1 顆綠燈呈閃爍狀態	0–5 %

充電電池型號 ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	容量
5 顆綠燈持續亮起	80–100 %

LED	容量
4 顆綠燈持續亮起	60–80 %
3 顆綠燈持續亮起	40–60 %
2 顆綠燈持續亮起	20–40 %
1 顆綠燈持續亮起	5–20 %
1 顆綠燈呈閃爍狀態	0–5 %

電池缺陷風險檢測

EXPERT18V... | EXBA18V...

電池電量指示器的 LED 燈除了顯示電池的充電狀態外，還可顯示電池缺陷的風險。

要啟用此功能，請按住電量指示器按鈕  3 秒鐘。電池電量指示器上的跑動燈號會顯示電池的分析結果。結果會顯示在電池電量指示器上。

 **1 個 LED 燈：**電池有很高的缺陷風險。效能和運作時間可能已經降低。建議更換電池。

 **5 個 LED 燈：**充電電池狀況良好，故障風險低。

請注意：電池缺陷風險評估分為兩個階段，並提供簡化的狀況評估。電池會被評估為狀況良好或缺陷風險增加。不會顯示電池狀況的百分比。

如何正確地使用充電電池

妥善保護充電電池，避免濕氣和水分滲入。充電電池必須儲存在 -20 °C 至 50 °C 的環境中。夏天不可以把充電電池擱置在汽車中。偶爾用柔軟、乾淨且乾燥的毛刷清潔充電電池的通氣孔。充電後如果充電電池的使用時間明顯縮短，代表充電電池已經損壞，必須更換新的充電電池。請您遵照廢棄物處理相關指示。

安裝

- ▶ 在電動工具上進行任何作業之前（例如維修，更換工具等等），請將機器中的電池取出。若是不小心觸動起停開關，可能造成人員受傷。
- ▶ 更換工具時請戴上防護手套。長時間操作之後，嵌件工具和鑽夾頭溫度會變高。

更換工具（請參考圖 A）

未按下起停開關 (10) 時，工具機轉軸將固定鎖死。因此能夠簡便、快速地更換夾頭上的工具。往旋轉方向  轉動，將快速夾頭 (2) 打開至能夠裝入工具為止。裝入工具。沿旋轉方向  徒手用力轉緊快速夾頭 (2)，直到聽見咔嚓一聲。這樣做夾頭才會自動鎖止。取下工具時，當您反方旋轉套筒，此鎖止裝置便會自動解鎖。使用螺絲起子工具頭時，請您務必使用工具頭通用夾持器。

吸鋸塵 / 吸鋸屑

避免在未採取減塵措施的情況下進行工作。適合的吸塵裝置可減少危害健康的粉塵污染。工作場所要保持空氣流通。原則上，請使用適合的呼吸防護裝置。儘可能使用適合物料的吸塵裝置。請留意並遵守貴國與加工物料有關的法規。

▶ **避免讓工作場所堆積過多的塵垢。**塵埃容易被點燃。

對吸塵器之要求		
建議軟管額定直徑	mm	28
所需負壓 ^{A)}	mbar	≥ 220
	hPa	≥ 220
所需流量 ^{A)}	l/s	≥ 28
	m³/h	≥ 100.8
建議過濾效率		粉塵等級 M ^{B)}

A) 電動工具的吸塵器連接頭功率值

B) 符合 IEC/EN 60335-2-69

請遵循吸塵器說明書。如果吸塵力下降，請停止工作並排除原因。

腰帶夾

使用腰帶夾 即可把電動工具掛在腰帶上。如此不但能夠空出雙手而且電動工具亦隨手可及。

操作

調整旋轉方向（請參考圖 B）

透過正逆轉開關 (9) 即可變更電動工具的旋轉方向。但按下起停開關 (10) 時，將無法這樣做。
正轉：若要旋入螺栓及旋緊螺母，請將正逆轉開關 (9) 往左推到底。
逆轉：若要鬆開或旋出螺栓與螺母，請將正逆轉開關 (9) 往右推到底。

設定操作模式

鑽孔

 **GSR18V-52**
將預設扭力調整環 (3) 移至「鑽孔」符號，以達到鑽孔和拆裝螺栓的最大扭力。

 **GSB18V-52**
將操作模式調整環 (4) 移至「鑽孔」符號，以達到鑽孔和拆裝螺栓的最大扭力。

拆裝螺栓

 **GSR18V-52**
將預設扭力調整環 (3) 設為所需扭力。
GSB18V-52
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將預設扭力調整環 (3) 設為所需扭力。

衝擊鑽孔



GSB18V-52

將操作模式設定調整環 (4) 移至「衝擊鑽孔」符號。

啟動 / 關閉

按下電源開關 (10) 不要放開，即可讓電動工具**持續**運轉。

輕按起停開關 (10) 或完全按下時，LED (8) 隨即亮起，可照亮光線不足的工作區域。

放開起停開關 (10)，即可讓電動工具**停止**運轉。

調整轉速

您可為已啟動的電動工具無段調控轉速，轉速是由按壓起停開關 (10) 的深度而定。

輕按起停開關 (10) 時，轉速較低。逐漸在開關上加壓，轉速也會跟著提高。

預設扭力

使用預設扭力調整環 (3)，您可以分段預選所需的扭力。如果設定了合適的扭力，當螺栓在物料中一旋入至表面齊平後，或者說到達所設扭力之後，嵌件工具便會停止轉動。在位置 ，過載離合器被停用，例如用於鑽孔或鎖入大型螺栓。在此段位可達到最大扭力。

鬆開螺栓時，可選用較高設定值，或者請您設在 符號上。

機械式選檔

► 電動工具靜止時，才能操作選檔開關 (5)。

► 請務必將選檔開關**完全**推到底。否則可能造成電動工具損壞。

選檔開關 (5) 提供 2 種轉速範圍，供您選用。

選檔開關位 置(5)	轉速	扭力	應用範圍
1	低	高	適用於重型應用： 例如大直徑鑽孔和拆裝螺絲
2	高	低	適用於輕型應用： 例如小直徑鑽孔和拆裝螺絲

溫控的過載保護裝置

只要按照規定使用，電動工具就不可能過載。若負載過大或超出電池允許溫度，轉速將被降低。電動工具的完整輸出功率僅會在恢復至允許的電池溫度後再次提供。

全自動的主軸鎖定功能 (Auto-Lock)

未按下起停開關 (10) 時，工具機轉軸將固定不動，工具夾頭也會鎖死。

因此，即使充電電池 (6) 沒電了，也可以使用本電動工具旋入螺栓，換句話說，也可以將本機器當做一般螺絲起子使用。

作業注意事項

► 電動工具應先**停止運轉**，然後才放到螺栓上。轉動中的嵌件工具可能會滑開。

將較大、較長螺栓旋入堅硬材質之前，應先以螺紋孔底徑預鑽孔至 2/3 螺栓長度。

拆卸螺絲起子工具頭或工具頭夾持器時，可使用輔助工具。

維修和服務

維修和清潔

► 在電動工具上進行任何作業之前（例如維修，更換工具等等），請將機器中的電池取出。若是小心觸動起停開關，可能造成人員受傷。

► 電動工具和通風口都必須保持清潔，這樣才能夠提高工作品質和安全性。

顧客服務處和顧客諮詢中心



<https://www.bosch-pt.com/serviceaddresses>

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羅伯特·博世電動工具有限公司

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