



Professional HEAVY DUTY

GRW 18V-120

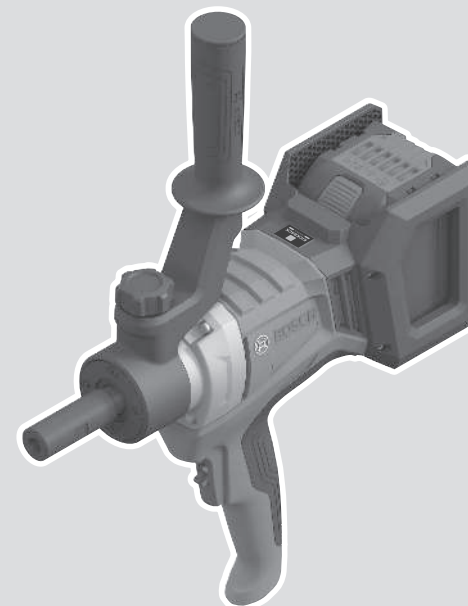
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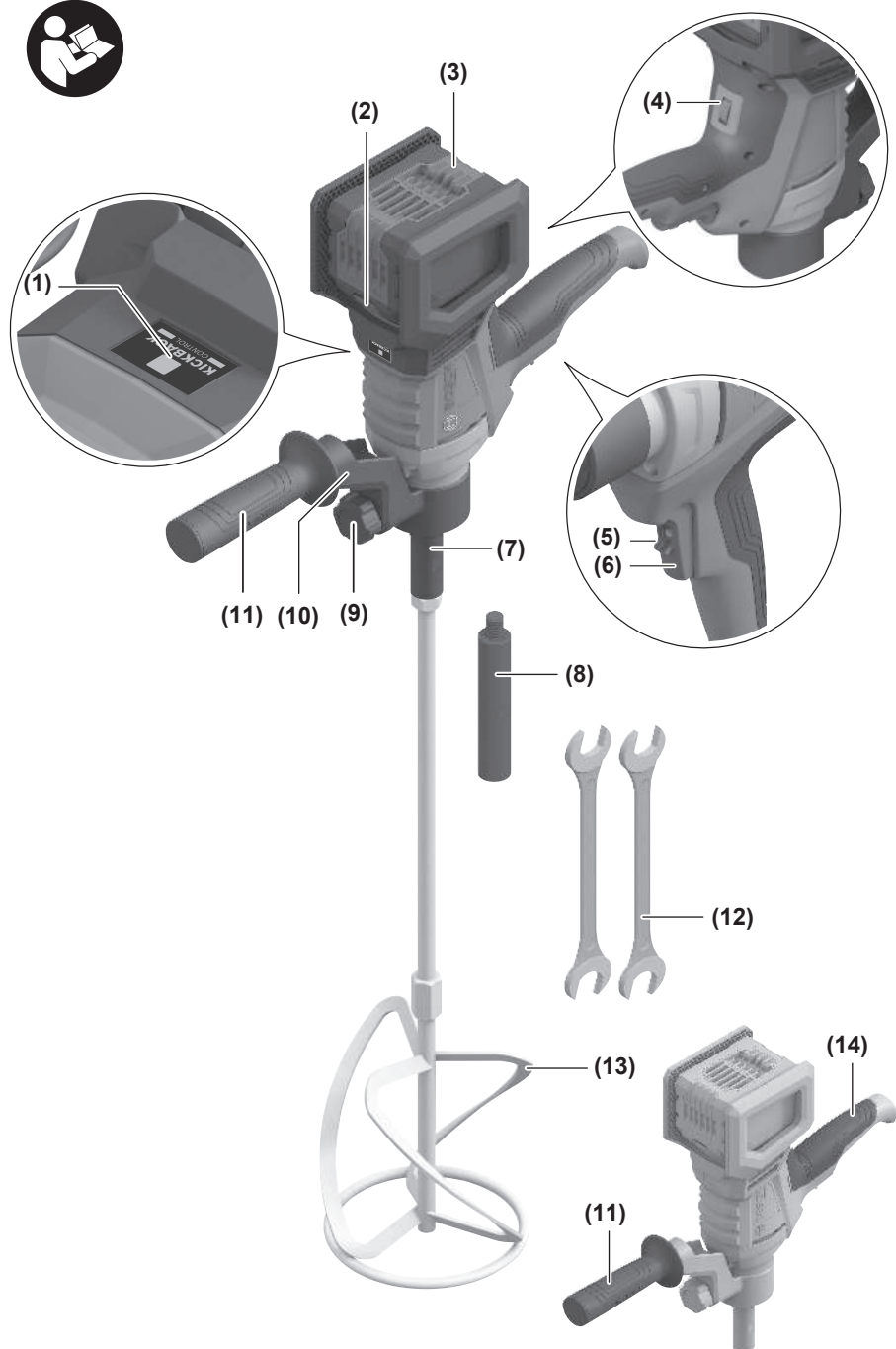


zh 原始使用說明書



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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。

攪拌機安全注意事項

- ▶ **以兩手握住對應的把手以握緊工具。**失去控制可能會造成人員受傷。
- ▶ **混合易燃材料時，請確保通風充足以避免空氣中累積有害物質。**所產生的氣體可能被人體吸入或是因電動工具產生的火花點燃。
- ▶ **請勿用於混合食物。**電動工具和其配件不適用於處理食物。
- ▶ **確保混合容器位於穩固的位置。**未固定的容器可能會突然移動。
- ▶ **請遵循混合材料的指示和警告。**混合的材料可能有害。
- ▶ **請勿將手伸入混合容器或是在混合時加入其他物體。**接觸混合桶可能會造成人員嚴重受傷。
- ▶ **工具只能在混合桶中啟動和關閉。**混合桶可能會以無法控制的方式扭曲或旋轉。
- ▶ **請勿加工具有爆炸危險的材料（例如易燃的溶劑）。**電動工具產生的火花會點燃過程中產生的氣體。
- ▶ **請遵照攪拌材料安全性資料文件（SDB）中的說明與警告指示。**攪拌的材料可能有害健康。
- ▶ **不可以把電動工具安裝在立架上操作。**本電動工具不得以不移動的方式進行加工。
- ▶ **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。

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

電動工具適合用於拌合粉狀建材，例如水泥攪料、石膏、黏著劑，以及不含溶劑成份的油漆、表面塗料與其他類似東西。

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) KickBack Control 的 LED
 - (2) 電池解鎖按鈕^{a)}
 - (3) 充電電池^{a)}
 - (4) 轉速設定轉鈕
 - (5) 起停開關的作動安全鎖
 - (6) 起停開關
 - (7) 驅動主軸
 - (8) 延長件 13 cm
 - (9) 用於調整輔助手柄的螺栓
 - (10) 手柄元件
 - (11) 輔助手柄（絕緣握柄）
 - (12) 開口扳手 22 x 24 mm
 - (13) 攪拌槳^{a)}
 - (14) 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

攪拌器		GRW 18V-120
產品機號		3 601 AC2 0..
額定電壓	V=	18
緩速起動		●
轉速預設		●
電子穩定控制系統		●
KickBack Control		●
無負載轉速 ^{A)}	次 / 分	0-600
工具夾座		M14
攪拌槳最大直徑	mm	120
重量 ^{B)}	kg	2.9
充電狀態下的建議環境溫度	°C	0 ... +35
操作狀態下的容許環境溫度 ^{C)} 以及存放狀態下	°C	-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...

攪拌器

GRW 18V-120

GAX 18...
EXAL18...A) 於 20–25 °C 配備充電電池 **ProCORE18V 8.0Ah** 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 %
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

輔助手柄的使用

► **操作電動工具時務必使用輔助手柄 (11)。**

首次使用前, 將輔助手柄 (11) 旋入手柄元件 (10) 中。螺紋上有螺絲鎖定裝置, 乾燥約 12 小時後, 可確保輔助手柄 (11) 在正常操作期間不再鬆脫。

調整輔助手柄的角度



輔助手柄 (11) 可隨意以兩個方向旋轉, 以便採取一個穩固而不容易感到疲勞的工作姿勢。

鬆開螺栓 (9), 將輔助手柄 (11) 轉到所需的工作位置, 然後重新旋緊螺栓 (9)。

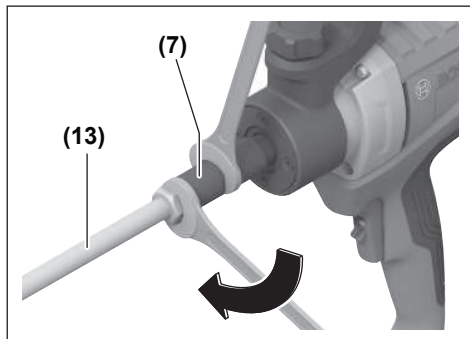
使用延長件

使用 13 cm 的延長件 (8) 可以增加裝置的工作高度，以便讓身高較高的使用者能夠以符合人體工學的方式工作。

為此，請將延長件 (8) 轉到到驅動主軸 (7) 上，然後用開口扳手 (12) 將其鎖緊。

更換工具

M14 外螺紋攪拌槳



將攪拌槳 (13) 旋入驅動主軸 (7)。為此，請用開口扳手（開口寬度 22 mm）固定驅動主軸 (7)，並用第二把開口扳手（開口寬度 221 mm 或 242 mm）鎖緊攪拌槳 (13)。

依照相反順序拆卸攪拌槳。

操作

開始使用

像是礦物類的廢塵可能有損健康。機器操作者或者工地附近的人如果接觸、吸入這些廢塵，可能會有過敏反應或者感染呼吸道疾病。

只有經過專業訓練的人才允許加工含石棉的物料。

- 工作場所要保持空氣流通。
- 建議佩戴 P2 過濾等級的口罩。

請留意並遵守貴國的物料加工相關法規。

啟動 / 關閉

若要讓電動工具開始運轉，請用手指將作動安全鎖 (5) 向上推，接著再按住起停開關 (6) 不要放開。放開起停開關 (6)，即可讓電動工具停止運轉。

調整轉速

使用起停開關調整轉速

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 (6) 的深度而定。

輕按起停開關 (6) 時，轉速較低。逐漸在開關上加壓，轉速也會跟著提高。

使用轉速設定轉鈕調整轉速

也可透過轉鈕 (4) 預選所需的轉速（即使是在工具運作期間）。

所需轉速取決於攪拌混合物種類和工作條件。

緩速起動

當按下起停開關 (6) 時，電子控制的緩速起動功能會緩慢增加速度。這可以防止攪拌混合物飛濺。

電子穩定控制系統



電動工具的電子裝置可讓攪拌槳的轉度在設定範圍內的大負載範圍內保持不變。此可確保穩定的工作性能。

快關功能 (KickBack Control)



與未配備 KickBack Control 的電動工具相較之下，快關功能 (KickBack Control) 可讓您更容易掌控電動工具，因此操作人員的安全性也就隨之獲得更多保障。電動工具的轉軸只要一有非預期性的突旋旋轉動作，將立即停機。

電動工具上的 KickBack Control LED (1) 閃爍紅燈即代表快關功能啟用。

此時若想繼續操作，則須先將起停開關放開後再重新按壓。

- ▶ 當 KickBack Control 功能故障時，不得再開啟電動工具。本電動工具僅可交由合格的專業技師以原廠替換零件進行維修。

攪拌作業注意事項

- ▶ 避免攪拌混合物四處噴濺。否則您可能因滑倒，而無法再控制電動工具。
- ▶ 請避免本電動工具長時間低速運轉。否則電動工具的馬達可能會過熱。
- ▶ 請將本電動工具存放在安全的地方。請注意，該工具不可傾倒。否則可能造成電動工具損壞。

攪拌槳的選用

攪拌槳的選用取決於攪拌混合物種類。

低黏度的攪拌混合物（例如乳膠漆、表面塗料、黏著劑、灌漿料、水泥漿），請使用左螺旋攪拌槳。左螺旋攪拌槳內的攪拌料會由上往下帶。攪拌槳被往上推。本電動工具加工低黏度攪拌混合物時少有噴濺情形。

高黏度的攪拌混合物（例如飾面石膏、混凝土、水泥、樓板鋪面、填縫泥、環氧樹脂），請使用右螺旋攪拌槳。右螺旋攪拌槳內的攪拌料會由下往上帶。攪拌槳應深入混合料中才能正確發揮功能。本電動工具加工高黏度攪拌混合物時，可達到充分混合效果。

作業時，請將電動工具上下來回移動。使用後請清洗攪拌槳。

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。若是不小心觸動起停開關，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

當您需要諮詢或訂購備用零件時，請務必提供本產品型號銘牌上 10 位數的產品機號。

廢棄物處理

必須以符合環保的方式，將損壞的電動工具、充電電池、配件和包裝材料進行回收再利用。

不可以把電動工具和充電電池 / 拋棄式電池丟入一般家庭垃圾中！





M 14, Ø 120 mm

2 608 000 842



M 14, Ø 120 mm

2 607 990 016



M 14, Ø 120 mm

2 607 990 014

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Apache 2.0

CMSIS_5, v5.7.0

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