



**BOSCH**

**PRO**

**GTP18V-28**

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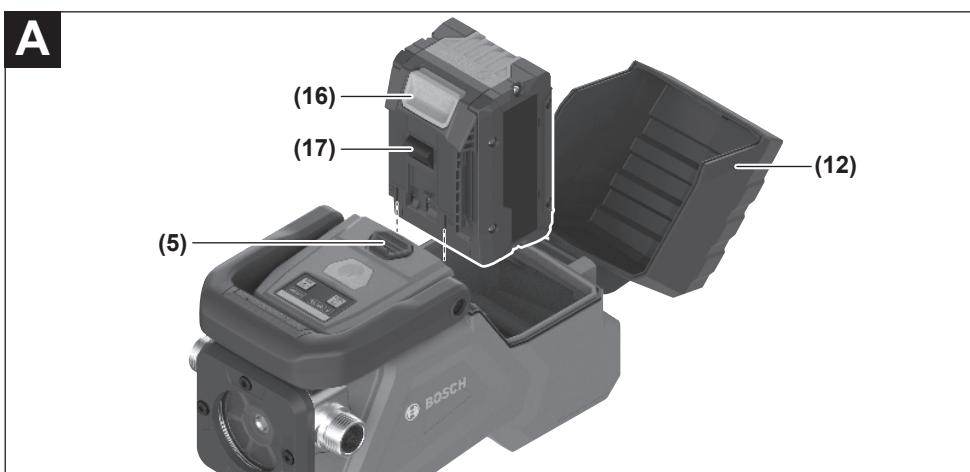
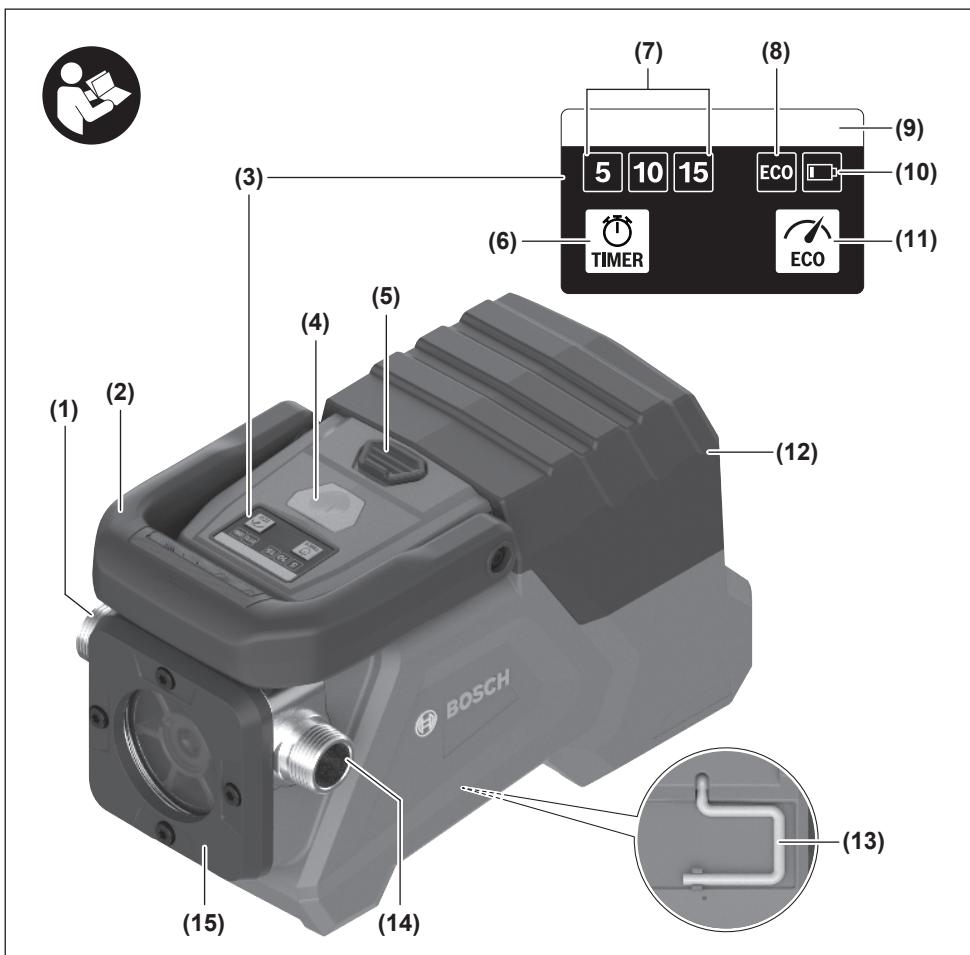


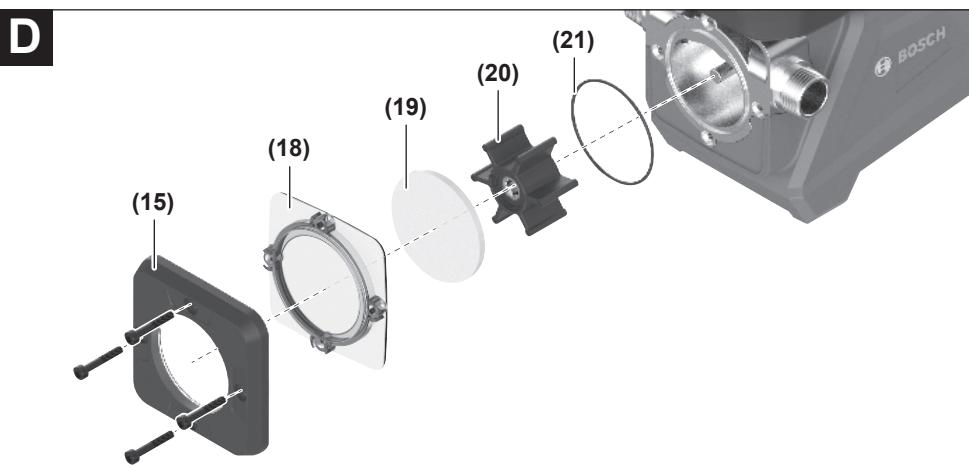
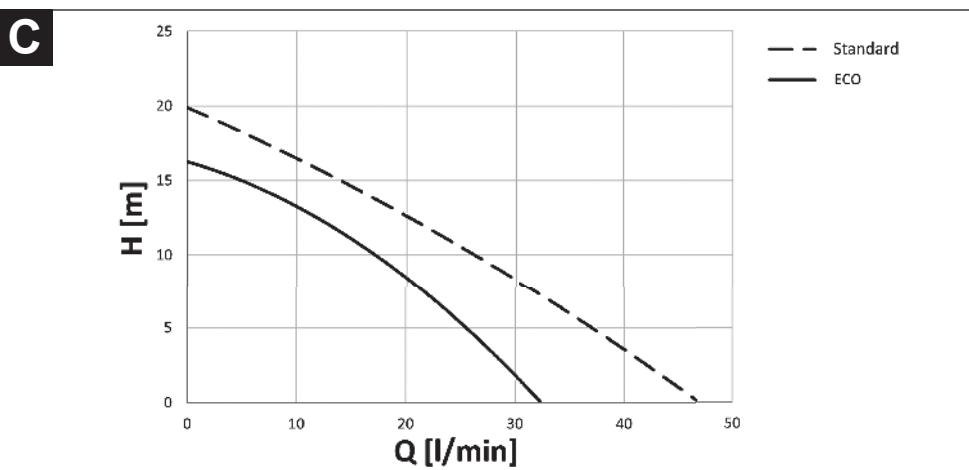
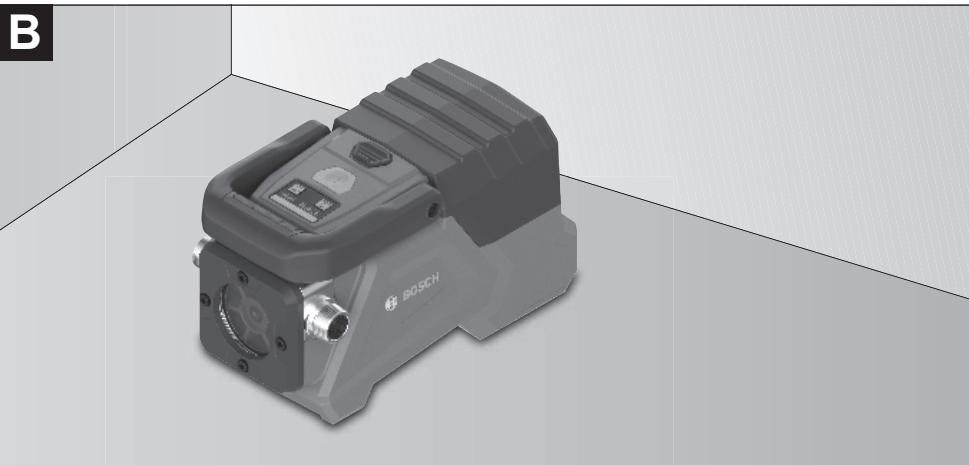
**zh** 原始使用說明書



CE







# 繁體中文

## 安全注意事項



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。

請妥善保存所有安全注意事項與指示，以供日後查閱之用。

- ▶ 請留意兒童的安全。如此才能確保他們不會將泵浦當做玩具任意玩耍。
- ▶ 不可在無人看管之下由孩童清潔、維護泵浦或充電器。
- ▶ 8 歲以上兒童以及身體、感官或心智能力有缺陷，或是缺乏相關經驗及知識的人士，只要在他監督下或接受過如何安全處置此泵浦的指導，並充份瞭解相關危險，即可使用該泵浦。否則可能會造成操作上的錯誤，進而使人員受傷。
- ▶ 請勿將此泵浦交付予不熟悉該產品或未細讀本說明書的人員來進行操作。
- ▶ 請確保泵浦運作時的電池盒蓋是封閉的。滲入的濕氣可能導致短路。
- ▶ 泵浦切勿用於泵送汽油、機油、酒精、溶劑等可燃或易爆液體。泵浦不得在具有爆炸危險之空間裡運轉。這些液體可能會燃燒或爆炸。
- ▶ 請勿將泵浦用於食品用途，例如飲用水。潤滑劑可能會污染液體。
- ▶ 請勿從有人的區域泵送液體。若是該區域存在動物或異物，請使用濾網。如此可避免對人或動物的傷害。
- ▶ 在安裝或保養泵浦之前，請取下充電電池。如此可避免泵浦意外啟動。

泵送高熱液體或意外空轉時，泵浦機殼會變得極熱。您可能會受傷。



 只能在密閉空間內使用泵浦並且不得暴露在潮濕環境中。

- ▶ 切勿改裝拆開充電電池。可能造成短路。
- ▶ 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。
- ▶ 不當使用或充電電池受損時，充電電池可能會流出可燃液體。請避免接觸。意外沾到時，請用水徹底沖洗。如果液體跑進眼睛裡，請進一步就醫。從電池中滲出的液體可能造成腐蝕或起火。
- ▶ 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。
- ▶ 充電電池不使用時，請讓它遠離迴紋針、硬幣、鑰匙、釘子、螺釘或其他小金屬物體，以免造成兩極相接。電池端點短路會引起燃燒或火災。

▶ 僅可使用產品的原廠充電電池。如此才可依照產品提供過載保護。

▶ 僅能使用製造商規定的充電器進行充電。將適用於某特定電池盒的充電器用於其他電池盒時，可能會造成起火燃燒。



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

請留意操作說明書中最前面的圖示。

### 依規定使用機器

本泵浦專門用於泵送淨水。它以乾式自吸式運行。本泵浦不適用於泵送含有磨蝕性、腐蝕性或侵蝕性成分的液體，或是鹽水、鹼液或廢水。不得將其用於食品或含水生物的水域。

### 插圖上的機件

機件的編號和泵浦詳解圖上的編號一致。

- (1) 出水口（壓力側）
- (2) 提把
- (3) 使用者介面
- (4) 電源按鈕
- (5) 充電電池槽蓋解鎖按鈕
- (6) 計時器按鈕（使用者介面）
- (7) 計時器指示器（使用者介面）
- (8) ECO 模式指示器（使用者介面）
- (9) 狀態列（使用者介面）
- (10) 充電電池低電量指示器（使用者介面）
- (11) ECO 模式按鈕（使用者介面）
- (12) 充電電池槽蓋
- (13) 掛鈎
- (14) 進水口（吸入側）
- (15) 泵浦機殼蓋
- (16) 充電電池解鎖按鈕<sup>a)</sup>
- (17) 充電電池<sup>a)</sup>
- (18) 中層蓋
- (19) 檢視鏡
- (20) 葉輪
- (21) 泵浦機殼密封環

a) 所述之配件並不包含在基本的供貨範圍中。

### 技術性數據

輸送泵浦	GTP18V-28	
產品機號	3 601 JR6 0..	
額定電壓		18
泵送能力 <sup>a)</sup>		

輸送泵浦	GTP18V-28	
- 標準模式	l/h	2800
- ECO 模式	l/h	1800
泵送高度 (標準模式)	m	20
吸入高度 (標準模式)	m	5
最高水溫	°C	60
軟管連接螺紋孔	"	G 3/4
重量 <sup>b)</sup>	kg	2.2
防護等級 <sup>c)</sup>		IP54
充電狀態下的建議環境溫度	°C	0 ... +35
操作狀態下以及存放狀態下的容許環境溫度	°C	0 ... +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) 在20–25°C下測量  
 B) 不含充電電池 (您可在 [www.bosch-professional.com](http://www.bosch-professional.com) 找到充電電池重量)  
 C) 在充電電池槽蓋關閉 (12) 和使用者介面 (3) 朝上時 (如圖 B)  
 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](http://www.bosch-professional.com/wac)。

## 充電電池

**Bosch** 亦銷售不含充電電池的充電式泵浦。可以從外包裝看出泵浦的供貨範圍是否包括充電電池。

### 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該泵浦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。

### 裝入與取出充電電池 (請參考圖 A)

將解鎖按鈕 (5) 推離充電電池槽，並打開充電電池槽蓋 (12)。

將已充飽電的充電電池推至充電電池固定座內，直到卡緊。

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。

關閉充電電池槽蓋 (12)，直到聽到其卡入。

► 請注意，充電電池槽蓋必須完全關閉，且其密封件必須完好。若濕氣入侵，充電電池和泵浦可能會損壞。

## 充電電池的電量指示器

充電電池裝入時，可在使用者介面 (3) 上看到電量 (參見「顯示目前狀態」，頁 7)，取下時則可在充電電池本體上看到。

### 電池上充電電池的電量指示器

若將充電電池從泵浦中取出，則電量可以透過充電電池上電量指示器的綠色 LED 燈顯示。

按一下電量指示器按鈕  或 ，即可顯示目前的電量。

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。

提示：並非所有的充電電池類型都有電量指示器。

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  $-20^{\circ}\text{C}$  至  $50^{\circ}\text{C}$  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

► **維護或清潔泵浦、進行設備設定、更換配件或儲藏泵浦之前，請先拔下充電電池。**這個預防措施可避免泵浦意外啟動。

## 連接軟管

**提示：**在機殼和提把 (2) 上可識別流經泵浦機殼的水流方向。

對於泵浦，您需要兩條附帶 G 3/4" 螺紋螺母和最小直徑為 19 mm 的一般市售軟管。

為使泵浦正確運作，吸入側（軟管連接上的進水口 (14)）需要一條強化軟管。為獲得最佳的泵浦性能，應儘量採用較短的軟管。

**提示：**請一律在泵浦軟管連接處和軟管之間放置一個平面密封件。泵浦上的螺紋孔並非自密封設計，若不裝平面密封件，可能會在高壓下漏水。

僅可使用合適直徑的平面密封件，以避免流量降低。

徒手個別將一條軟管旋緊到進水軟管連接處 (14) 和出水軟管連接處 (1)。

如果軟管難以旋緊，請檢查軟管的連接螺紋孔是否合適，以及軟管是否已旋直。不合適的軟管以及歪斜的旋緊可能會損壞泵浦上的螺紋孔。

為了讓泵浦能全力運轉，不得減小軟管的直徑。因此，請勿使用較細的軟管或快速接頭。請注意，不可讓軟管受到扭結或擠壓。

## 顯示目前狀態

狀態列 (9)	充電電池低電量指示器 (10)	含義
綠色	-	泵浦已啟動，充電電池容量 > 20 %
橘色	橘色	充電電池低電量 (1-20 % 容量)
橘色	-	充電電池或泵浦過熱
紅色	紅色	充電電池耗盡 (0-1 % 容量)，泵浦即將關閉。
紅色	-	充電電池或泵浦過熱；葉輪卡住；馬達或充電電池故障

## 自動關閉（計時器）

利用定時器功能，可將泵浦自動關閉。

連續按下計時器按鈕 (6)，直到定時器指示器 (7) 亮起所需的剩餘運作時間（以分鐘為單位）。啟動

## 操作

- 請確保勿將泵浦暴露在冰凍環境中。
- 不可讓泵浦空轉。泵浦可能受損。

## 開始使用

### 架設/懸掛泵浦（請參考圖 B-C）

架設時，將使用者介面 (3) 朝上（如圖 B 所示），可讓泵浦防止來自各方的潑水（IP54）。

您也可視需要使用掛鉤 (13) 將泵浦懸掛起來，但如此就無法保證該保護功能。

請儘可能將泵浦放置在泵浦、進水口和出水軟管最高點之間高度差距最小的位置。高度差距越大  $H$ ，可達的流量  $Q$  就越小（詳見圖片 C 中的特性曲線）。

## 啟動/關閉

請確保吸水軟管的開口在水中的通暢度：如果軟管吸住裝水容器的底部或邊緣，進水就會被堵塞。

按下電源按鈕 (4) 以，以啟動泵浦並開始泵送操作。

重新按下電源按鈕 (4)，以結束泵送操作並關閉泵浦。

**提示：**在泵送熱水後，請讓泵浦至少降溫 10 分鐘，才可重新啟動。

## 使用者介面

使用者介面 (3) 用途：

- 作為泵浦的狀態指示器
- 用於操控計時功能
- 用於開/關 ECO 模式

當泵浦關閉時，您可按下計時器按鈕 (6) 或 ECO 模式按鈕 (11) 來啟動使用者介面 (3)。如此即不會啟動泵浦運作。現在可在使用者介面上進行設定變更。

在最後按下按鈕 30 秒後或關閉泵浦後，使用者介面 (3) 即關閉，並將設定（例如 ECO 模式）儲存。

在最後按下按鈕 5 分鐘或關閉泵浦後，已儲存的設定將被刪除。取下充電電池時，所有設定將被刪除。

若要提早結束計時器功能，連續按下計時器按鈕 (6)，直到計時器指示器 (7) 中不再亮起任何欄位。

### ECO 模式

您以降低泵浦的功率和流量，以延長充電電池的運作時間。為此請按下 ECO 模式按鈕 (11)，使 ECO 模式指示器 (8) 亮起。

若要結束 ECO 模式，重新按下 ECO 模式按鈕 (11)，使 ECO 模式指示器 (8) 熄滅。

## 排除故障

原因	排除
<b>泵浦無法啟動或自動關閉（狀態列紅色）。</b>	
充電電池耗盡或損壞。	將充電電池充電或更換。
泵浦或充電電池過熱。	重新啟動泵浦前，先讓泵浦和充電電池降溫冷卻。
	檢查泵浦是否過載：出水軟管 (1) 必須暢通，吸入和泵送高度不可過高。
葉輪卡住。	必要時清潔葉輪 (20) 和泵浦機殼。更換損壞的葉輪。
馬達故障。	請將泵浦送交 <b>Bosch</b> 客戶服務中心進行檢修。
<b>送水量過低。</b>	
其中一條軟管堵塞或損壞。	檢查兩條軟管是否完好和暢通。移除堵塞物或更換損壞的軟管。
吸入或泵送高度過高。	請儘可能將泵浦設置在泵浦、進水口和出水軟管最高點之間高度差距最小的位置。
軟管不適用（例如直徑過小、軟管材質不夠穩固）。	請使用直徑至少 19 mm 的穩固軟管。
軟管連接處洩漏。	僅可使用螺紋孔為 G 3/4" 的軟管。
	請確保軟管和泵浦軟管連接處之間已裝入完好且合適的平面密封件，並且軟管已正確旋緊。
葉輪已磨損。	更換葉輪 (20) 和密封環 (21)。
泵浦機殼蓋密封不佳。	確保密封環 (21) 存在、未受損且安裝正確。徒手旋緊泵浦機殼蓋 (15) 的 4 顆螺栓。

## 維修和服務

### 保養和清潔

- ▶ 維護或清潔泵浦、進行設備設定、更換配件或儲藏泵浦之前，請先拔下充電電池。這個預防措施可避免泵浦意外啟動。
- ▶ 請保持泵浦乾淨，以確保其良好且穩定的功能。

### 更換葉輪（請參考圖 D）

在工作開始前，透過泵浦機殼蓋 (15) 上的檢視鏡檢查葉輪 (20)。若在葉輪上有可見的裂痕或熔化表面，則代表葉輪已磨損且必須更換：

- 使用尺寸 T20 的星型螺絲起子鬆開泵浦機殼蓋 (15) 上的 4 顆螺栓。
- 取下護蓋 (15)、中層蓋 (18) 和檢視鏡 (19)。
- 取下葉輪 (20) 和密封環 (21)。
- 視需要清潔泵浦機殼。
- 裝入新的葉輪 (20) 和新的密封環 (21)。僅可使用由 **Bosch** 專為本泵浦所指定的組件。
- 請特別注意密封環 (21) 裝入密封槽是否正確。
- 將檢視鏡 (19)、中層蓋 (18) 和護蓋 (15) 裝到泵浦機殼上。

- 使用 4 顆螺栓將護蓋 (15) 重新旋緊。徒手旋緊螺栓。

### 存放泵浦

在較長時間存放泵浦前，請清潔葉輪和泵浦機殼。若要拆卸和安裝葉輪，請按照更換葉輪所述之步驟進行。

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#### 台灣進口商

電話: (02) 7734 2588

#### 製造商地址:

Robert Bosch Power Tools GmbH

羅伯特·博世電動工具有限公司

70538 Stuttgart / GERMANY

70538 斯圖加特/ 德國

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。

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### 1.5 – NanoPb 0.3.9.9 – Zlib

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