

VESSEL 220USB-P1

VESSEL Electric Ball Grip Screwdriver 220USB-P1 User Manual

Model: 220USB-P1

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your VESSEL Electric Ball Grip Screwdriver 220USB-P1. Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always read the instruction manual before use.
- Exercise caution to prevent short circuits and electric shocks.
- Avoid overloading the screwdriver, as this may cause damage to the tool or injury due to stripped screws.
- Keep the tool out of reach of children.
- Do not attempt to tighten or loosen screws manually beyond the tool's specified maximum endurance torque (12 Nm).

3. PRODUCT OVERVIEW

3.1 Components

The VESSEL Electric Ball Grip Screwdriver 220USB-P1 includes the following components:

- Electric Ball Grip Screwdriver unit
- 1 x Phillips bit (+2 x 100 mm)
- USB Type-C charging cable (1 meter)
- Instruction manual

3.2 Key Features

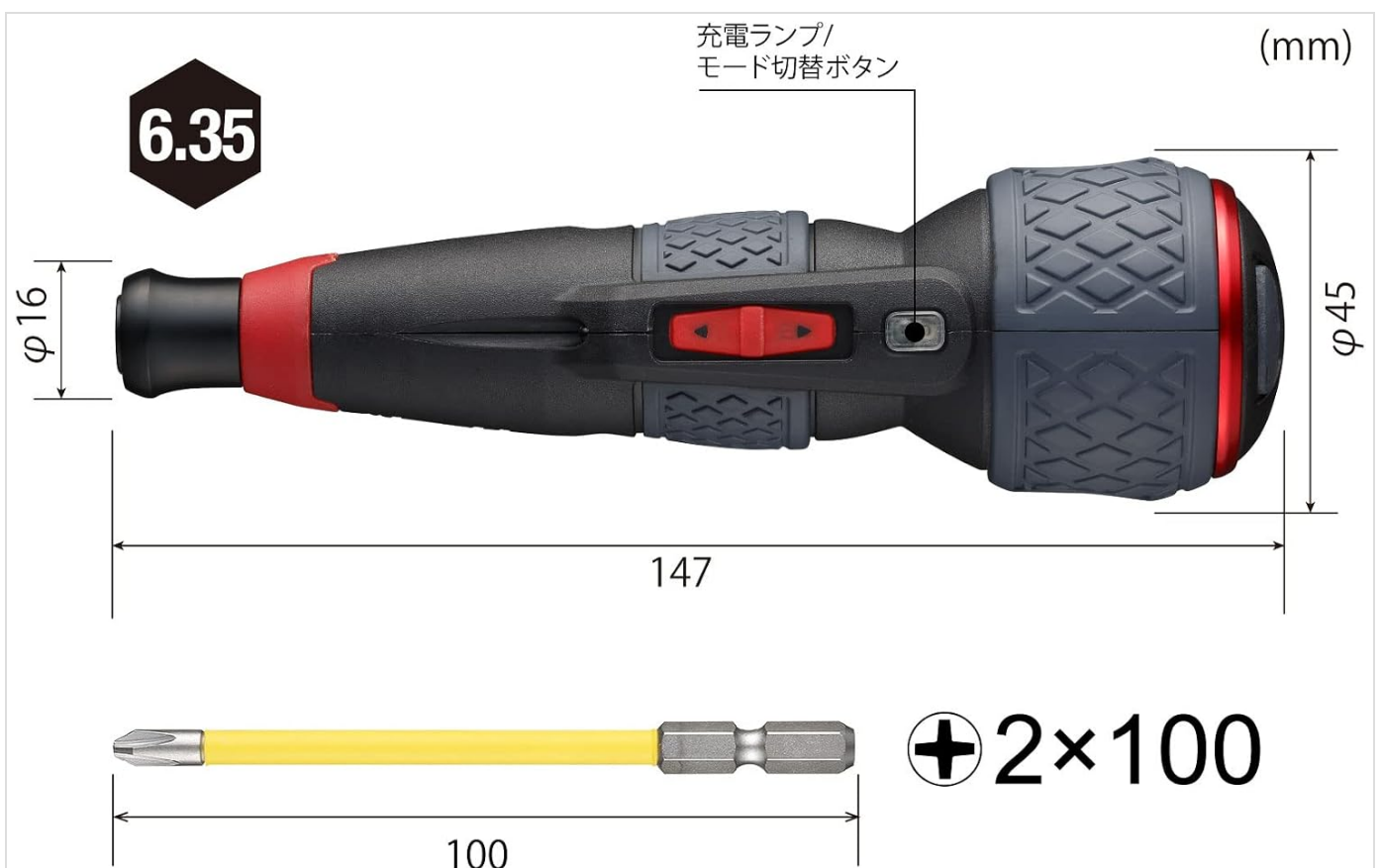
- **3-Stage Switching Mode:** Adjust rotation speed and torque (Low, Medium, High) to suit various tasks.
- **Ergonomic Ball Grip:** Designed for comfortable and secure handling.
- **USB Type-C Charging:** Convenient and reversible charging port.

- **Reinforced Gear & Housing:** Enhanced durability.
- **Lanyard Attachment Point:** For securing the tool and preventing drops.
- **LED Work Light:** Illuminates the work area.

3.3 Product Diagram



Figure 1: VESSEL Electric Ball Grip Screwdriver 220USB-P1. This image shows the screwdriver from a side view, highlighting its ergonomic ball grip, red forward/reverse switch, and the bit inserted at the front.



USB充電ケーブル(USB Type-C/1m)

※ACアダプターやモバイルバッテリーなどをご使用の場合は、出力5V-1Aの市販品を別途ご用意ください。

Figure 2: Dimensions and key components of the screwdriver. This diagram illustrates the screwdriver's length (147mm), grip diameter (45mm), sleeve size (6.35mm), and the included +2x100mm bit. It also points out the charging lamp/mode switch button and the USB Type-C charging cable.

4. SPECIFICATIONS

Feature	Detail
Brand	VESSEL
Model Number	220USB-P1
Rotation Speed (No-load)	Low: 280 rpm, Medium: 340 rpm, High: 400 rpm
Electric Torque	Low: 1.2 Nm, Medium: 1.6 Nm, High: 2.0 Nm
Maximum Endurance Torque (Manual)	12 Nm
Grip Length	147 mm (5.8 inches)
Grip Diameter	45 mm (1.8 inches)
Weight	170 g (6.7 oz)
Sleeve Size	6.35 mm (0.2 inches) Aluminum sleeve chuck
Charging Method	USB Type-C
Charging Time	Approx. 60 minutes
Number of Charges	Approx. 500 times
Material	Nylon with fiberglass, Special alloy steel
Head Style	Phillips (included bit)
Country of Origin	Japan

For a detailed comparison with other models, please refer to the official VESSEL website:
<http://www.vessel.co.jp/sp/220usbplus/>

電ドラボール®シリーズ スペック比較

	電ドラボール® プラス			電ドラボール®	電ドラボール® ハイスピード
	低	中	高		
スピード	280 回転/分	340 回転/分	400 回転/分	280 回転/分	1200 回転/分
最大出力トルク (電動)	1.2 N・m	1.6 N・m	2.0 N・m	2.0 N・m	0.4 N・m
最大耐久トルク (手動)		12 N・m		10 N・m	10 N・m
重量		170 g		160 g	160 g
サイズ					
充電ポート	USB Type-C 			Micro USB Type-B 	Micro USB Type-B 
落下防止コード 取付	あり			なし	なし

Figure 3: Comparison table of VESSEL Electric Ball Grip Screwdriver models. This table details differences in speed, torque, weight, size, charging port type, and lanyard attachment availability across various models, including the 220USB-P1.

5. SETUP

5.1 Charging the Screwdriver

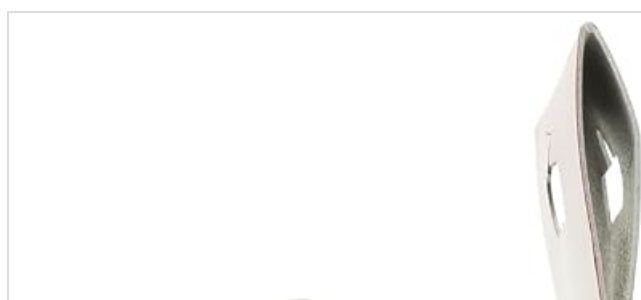
1. Remove the protective cap from the charging port located at the bottom of the screwdriver.
2. Connect the included USB Type-C charging cable to the screwdriver's charging port.
3. Connect the other end of the USB cable to a compatible USB power source (DC5V), such as a computer USB port or a mobile battery/AC adapter (not included).
4. The charging lamp will illuminate during charging. A full charge takes approximately 60 minutes.



Figure 4: Close-up of the USB Type-C charging port on the screwdriver, showing the port cover and a USB-C cable ready for connection. This port allows for convenient and reversible charging.

5.2 Installing a Bit

1. Ensure the screwdriver is powered off.
2. Slide the aluminum sleeve chuck forward.
3. Insert the desired 6.35mm hex bit into the chuck.
4. Release the sleeve chuck to secure the bit in place. Ensure the bit is firmly seated.



電ドラボール[®]プラスの使い方

充電

- ・爪で少し持ち上げます。
- ・指でつまんで開きます。



- ① 充電ポートの保護キャップをはずす。



(入力電源:DC5V)
PCやモバイルバッテリー
からも充電できます。

- ② USB充電ケーブルで充電する。

3段階切替モード

モード切替ボタンを長押しすると
充電ランプが緑色LEDに点滅/点灯
して回転数とトルクが切替わります。

- ・低速点滅:280回転/分(1.2N・m)
- ・高速点滅:340回転/分(1.6N・m)
- ・点 灯:400回転/分(2.0N・m)



- ③ 作業に合わせて回転数とトルクを切替。

ビット取付

各種電動ドライバー用
ビット(両頭・片頭)が
使用できます。



- ④ スリーブをスライドさせ、ビットを挿入する。

仮締め(早回し)

スイッチを前方に押すと
正回転、手前に引くと
逆回転します。



- ⑤ 電動でネジを早回しする(正・逆転可能)。

本締め(手締め)

着座した瞬間にスイッ
チから手を離して、握
りなおしてゆっくりと
手締めをしてください。



- ⑥ 手動でネジを増し締めする/緩める。

取扱説明書・保証書在中

●保証期間:ご購入日から6か月。●保証には、
購入日の記載されたレシート、同梱の保証書
が必要です。**必ず保管してください。**日本国内
のみ有効です。This warranty is valid only in Japan.



Figure 5: Diagram illustrating the bit installation process. It shows sliding the sleeve forward to insert a 6.35mm hex bit, including double-ended bits.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off and Direction

The screwdriver is activated by pressing the forward/reverse switch. The LED work light will illuminate when the tool is in operation.

- To drive screws (forward rotation): Push the red switch forward.
- To remove screws (reverse rotation): Pull the red switch backward.
- To turn off: Release the switch.

6.2 Adjusting Speed and Torque (3-Stage Switching Mode)

The screwdriver features three distinct modes for rotation speed and torque. Press the mode switch button (located near the charging lamp) to cycle through the modes: Low, Medium, and High.

- **Low Mode:** 280 rpm / 1.2 Nm (Suitable for delicate tasks or initial tightening).
- **Medium Mode:** 340 rpm / 1.6 Nm (General purpose).
- **High Mode:** 400 rpm / 2.0 Nm (For faster driving).



Figure 6: Hand demonstrating the 3-stage switch for adjusting rotation speed and torque. The image shows the button used to cycle between Low, Medium, and High settings, indicated by an LED.

6.3 Manual Operation

For final tightening or loosening of screws that require more torque than the electric motor can provide, the screwdriver can be used manually. The maximum endurance torque for manual operation is 12 Nm.



Figure 7: A hand wearing a glove holding the VESSEL Electric Ball Grip Screwdriver, demonstrating its comfortable grip during use. The screwdriver is shown with a bit inserted, ready for operation.

7. MAINTENANCE

- Keep the tool clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the screwdriver in a dry place, away from direct sunlight and extreme temperatures.
- Regularly inspect the bit and chuck for wear or damage. Replace worn bits as needed.
- Ensure the charging port cover is closed when not charging to prevent dust and moisture ingress.
- The internal battery is designed for approximately 500 charge cycles. Battery performance may decrease over time.

7.1 Lanyard Attachment

For added safety and to prevent accidental drops, a lanyard can be attached to the designated point on the screwdriver.



落下事故を防止 落下防止コード取付可能



Figure 8: Image showing the lanyard attachment point on the screwdriver, with a lanyard secured to it. This feature helps prevent accidental drops during use.

8. TROUBLESHOOTING

If you encounter issues with your VESSEL Electric Ball Grip Screwdriver, please refer to the following common solutions:

Problem	Possible Cause	Solution
Screwdriver does not turn on.	Low battery or no charge.	Charge the screwdriver using the provided USB Type-C cable. Ensure the charging lamp illuminates.
Bit is loose or falls out.	Bit not properly seated in the chuck.	Re-insert the bit, ensuring the sleeve chuck locks it firmly in place. Verify the bit is a standard 6.35mm hex type.

Problem	Possible Cause	Solution
Motor stops during operation.	Overload or low battery.	Reduce the load on the screwdriver. If the issue persists, charge the battery. For very tight screws, use manual operation.
Screwdriver feels weak.	Operating in Low torque mode or low battery.	Switch to Medium or High torque mode. If still weak, charge the battery.

If the problem persists after attempting these solutions, please contact VESSEL customer support.

9. WARRANTY AND SUPPORT

The VESSEL Electric Ball Grip Screwdriver 220USB-P1 comes with a warranty. Please refer to the warranty information included with your product packaging or visit the official VESSEL website for details.

For technical support, replacement parts, or further assistance, please contact your local VESSEL distributor or visit the official VESSEL website: <https://www.vessel.co.jp/english/>

Please retain your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question