

VESSEL
Let us think.



**220USB
HI-SPEED**

**4 times faster
than 220USB!!**



No. 220USB-51F
**Rechargeable
BALL GRIP Screwdriver
High speed version**

Model No.	Accessories	EDP No.
220USB-51F	Bit : PH2 (90mm) USB Charging Cable (1m)	148517

⚠ Cautions

- Be sure to fully read the instruction manual of the product.
- Be careful of the short-circuit accident or electricity shock during electric work.
- Overloaded use may cause damages in screws or injuries.
- Keep away this product from children.

TECHNICAL SPECIFICATIONS

- Rated voltage	3,6 V DC
- Capacity	800 mAh
No-load speed	1200 min ⁻¹
Torque	
- Electric power (Max.)	0,4 N·m(3,5lbf-in)
- Hand operation (Max.)	10 N·m(88,5lbf-in)
Weight (not including accessories)	160 g
Permitted ambient temperature	
- during charging	0° C(32° F) - 40° C(104° F)
- operating* and storing	0° C(32° F) - 45° C(113° F)
Battery	Li-Ion
Number of battery cells	1
Charging time	Approx. 60 min
Number of charges**	Approx. 500 charges
Charging port	micro USB Type-B
Noise	63,9 dB
according to EN 62841-1 Annex I	
Vibration values	0,276 m/s ²
according to EN 62841-1 Annex I, EN 62841-2	
Input power (maximum) - Volt	5 V DC
- Current	1 A

* limited performance at temperatures <0 °C(32° F)

**Actual battery life will vary depending on specifications.

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New

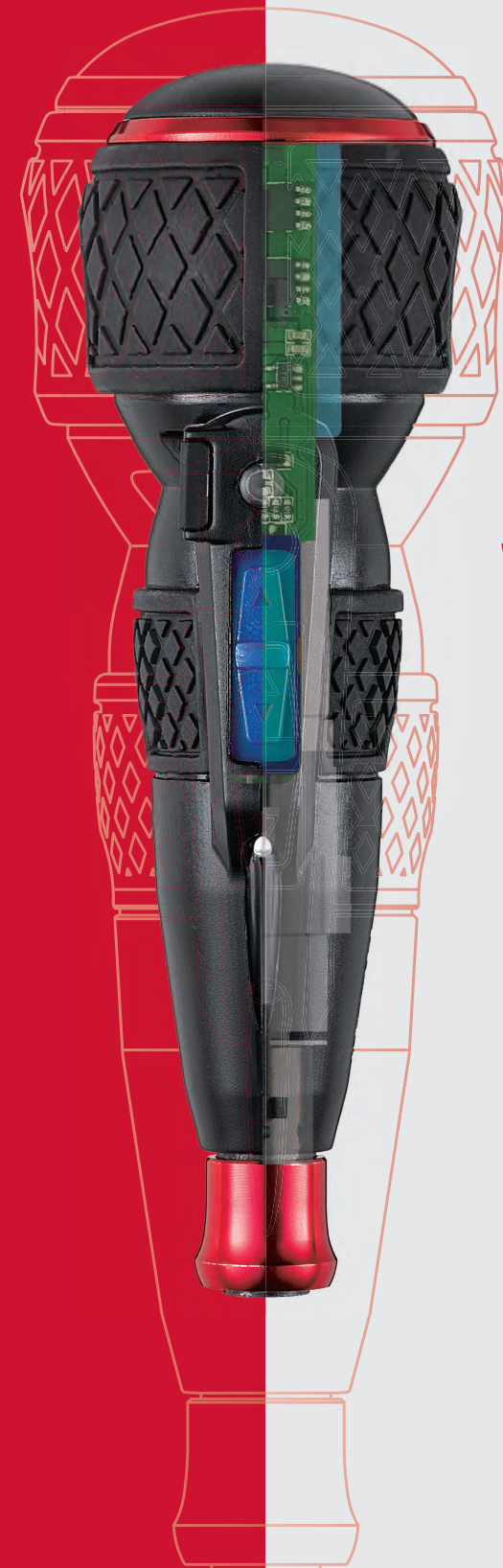
Rechargeable BALL GRIP Screwdriver

No. 220USB-1F



**GOOD DESIGN
AWARD 2020**

220USB



**Screwdrivers
make
progress.**

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● Specifications, dimensions, and others, may be subject to change without prior notice.

FC CE

Made in Japan



**6,3
mm**

LED

**3,6v
800mAh**

Li-ion

USB Rechargeable Screwdriver *New*

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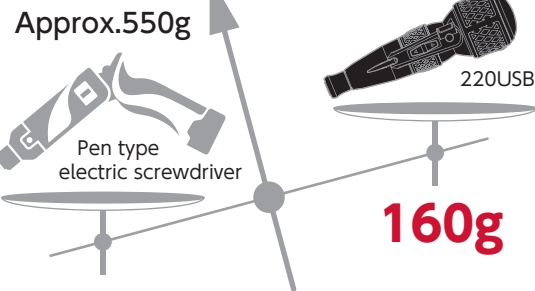
Electric & Manual

Electric-powered quick tightening!! **Manual final tightening!!**

Furniture or interior work **Narrower space facility** **Equipment maintenance** **Automotive or motorcycle maintenance** **DIY**

VESSEL's Ball Grip Screwdrivers, providing the outstanding work efficiency, have made great progress.
An electric-powered new solution with a lithium-ion battery and a motor.

Light-weight
Carry the 220USB-1E in your waist bag.



Switch

Sliding switch enables to change the rotation direction, either clockwise or counterclockwise, with a light force.



USB Recharge
Easy to recharge via USB terminal.

High Brightness LED light

Illuminates in a dark working place.



Sleeve Chuck

Both double-end and single-end bit can be used.

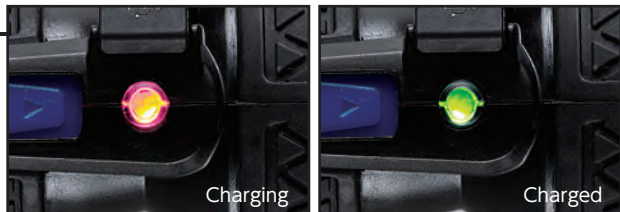


6.35 mm

High speed revolutions improves work efficiency!
No-load revolutions : 280min⁻¹

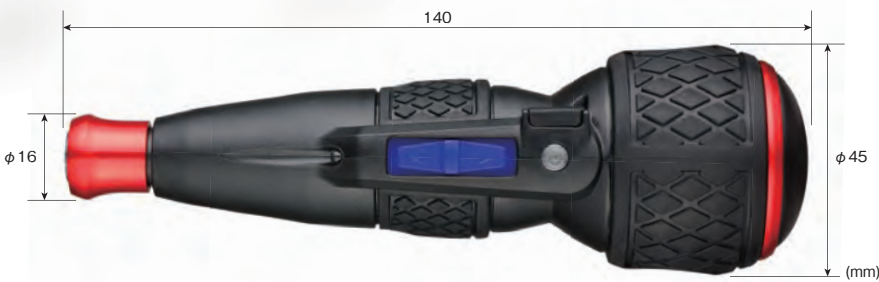
Can be used with a screw upto **M6**.
Torque range : **Electric 2N·m or less,**
Manual 10N·m or less

3.6v
800mAh
Battery Charge Lamp
Li-ion Battery



* For circuit-board protection, the lamp of the 220USB flashes red and the screwdriver stops operation, when a load such as 2N·m or over is given during electric-powered use. If the charge level of the battery is less than 15%, the battery charge lamp will flash red during operation.

Electric-powered hand tool newly available.
VESSEL Electric-powered Ball Grip Screwdriver



No. 220USB-1F
Rechargeable BALL GRIP Screwdriver

Model No.	Accessories	Outer Carton: 5 sets
220USB-1F	Bit : PH2 (90mm) USB Charging Cable (1m)	EDP No. 148516

TECHNICAL SPECIFICATIONS

- Rated voltage	3.6 V DC
- Capacity	800 mAh
No-load speed	280 min ⁻¹
Torque	
- Electric power (Max.)	2 N·m(17.7lbf-in)
- Hand operation (Max.)	10 N·m(88.5lbf-in)
Weight (not including accessories)	160 g
Permitted ambient temperature	
- during charging	0° C(32° F) - 40° C(104° F)
- operating* and storing	0° C(32° F) - 45° C(113° F)
Battery	Li-Ion
Number of battery cells	1
Charging time	Approx. 60 min
Number of charges**	Approx. 500 charges
Charging port	micro USBType-B
Noise	66.1 dB
according to EN 62841-1 Annex I	
Vibration values	0.421 m/s ²
according to EN 62841-1 Annex I, EN 62841-2	
Input power (maximum) - Volt	5 V DC
-Current	1 A

* limited performance at temperatures <0 °C(32° F)
**Actual battery life will vary depending on specifications.

How to use

- 1) Slide the switch forward to rotate to the right (clockwise; tighten), and slide backward to rotate to the left (counterclockwise; loosen).
- 2) Position yourself and hold the grip firmly.



- 3) Operate the switch to start tightening. (**Tentative tightening**)
- 4) Release the switch at the moment when the screw sits. Then, hold again the grip to tighten slowly by hand (**final tightening**) until you feel that the gears were locked.



<Note>
Excessive load will lead to failure. Do not use this product for a screw that needs to be loosened with two hands. The small gears are built in so that the screwdriver fits into the waist sack.