



User manual

Please read this manual before using the product



For more information, please contact Ewincher:

By telephone:

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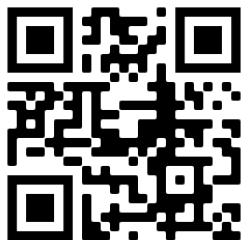
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**Answers to all your questions
on our site**

www.ewincher.com



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To avoid damages

Always use the front button to lock and unlock.



MECHANICAL SAFETY - LOCKED ON THE WINCH

If you press at the same time the front button and the speed button, you could engage the mechanical safety. In this case, the electrical assistance can't be used and you can't unlock the lock-in plate.

Ewincher has an automatic release system. To activate it, simply remove the battery and insert it again without pressing any button. The handle will start and rotate on its own. Just let it run, and when it stops, it will be ready for use again. The mechanical safety device has been disengaged and you can now remove it from the winch.

Unlocking can also be done manually. Here is how to unlock it:

First, remove the battery, and then please follow the 4 next steps

- 1) Hold the winch's drum with a rope
- 2) Turn the handle a quarter turn counterclockwise
- 3) You'll hear a light clicking noise
- 4) The safety mechanism has been unlocked and your handle can be used again. You can pull the handle out of the winch.



Insert the battery



Start Ewincher



Pressing the front button will power On Ewincher and unlock the lock-in plate. Ewincher will turn off after 5 minutes of inactivity. To restart it, press the front button again. With no actions on the buttons, you can position the handle everywhere on the winch to choose the best position for use.

Ewincher is now ready. You can use your handle in one of his three modes :

- **Electric mode (full assistance)**
- **Manual mode (as a standard handle)**
- **Combined mode (for a maximum hauling speed!)**

Electric mode



Hold the handle and press the speed button to turn on the electric assistance. The more you press, the speedier it is !

Choose the motor's rotation direction



Give a pulse (less than 1s) on the top button

The LED color indicates the direction.

OR



Don't press any button, just move your handle from one side of the winch to the other

Manual mode



Keep pressing the top button and use Ewincher like a regular handle

Combined mode



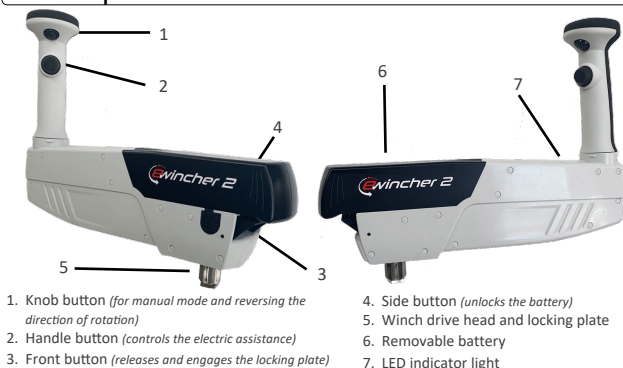
When using the electric mode, you can also turn the handle just like a regular winch handle. Your maneuver will be twice as fast !

Congratulations

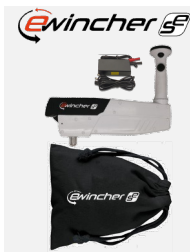
You have just purchased Ewincher, the first power-assisted and connected winch handle. With the Ewincher, you're embarking "muscle" on board that you can use at all of your boat's stations. Your maneuvers will become faster and more powerful, while allowing you to remain in an ideal position.

Voltage	28.8	V _{DC}
Type of battery	Li-Ion	
Capacity	2500	mAh
Max. electric power	520	W
Max. power output	290	W
Battery energy	72.0	Wh
Approximate recharging time	90	min
No-load speed of the drive head - Ewincher 2	15-110	tr.min ⁻¹
No-load speed of the drive head - Ewincher SE	15-83	tr.min ⁻¹
Maximum torque	90	Nm
Maximum effort on the hand grip	36	Kg
Interaxial distance between drive head/hand grip	250	mm
Weight (with battery)	2.3	Kg
Acoustic rating	<75dB	dB
Airtightness	IPX6	
Smartphone connection	BLE 4.2	
Frequency range	2402-2480	Mhz
Max power	-23.3	dBm

Description



Package contents



Ewincher	✓	✓
Lithium-ion Battery (or 2)	✓	✓
Charger 110-220V DC	✓	✓
User manual	✓	✓
Bag	✓	
Carrying case		✓
Inverter 12V DC		✓
Pocket handle		✓
Leash		✓

Note : Please make sure that your handle, components, or accessories were not damaged during shipping. Take the time to carefully read and understand these instructions before using the device.

Positioning Ewincher

1. Handling

Pick up Ewincher as shown in the picture, with one hand on the hand grip and the other on the battery.



2. Insert Ewincher

Press on the front button (3) and push Ewincher completely into the winch. *You must always use button 3 to lock and unlock your Ewincher, as shown in the circular image.*



3. Check that everything is in place

Make sure that Ewincher is locked in : it must be fully inserted into the bottom of your winch and resting on top of it. *You can make sure that Ewincher is fully inserted by pushing down on the battery.*



CAUTION

Do not force the locking mechanism

Never force the locking mechanism when you insert Ewincher into your winch. We strongly discourage you from inserting your Ewincher without pressing on button 3.

Do not use Ewincher when it is not on the winch

Do not attempt to remove Ewincher from your winch without using button 3. If you have attempted to unlock your Ewincher without using button 3, make sure your Ewincher is fully inserted into the winch. A simple vertical push on the battery will let you know.

The best position to use Ewincher

To use Ewincher in power-assisted mode, you must hold it firmly, as you would an electric screwdriver.

There are two important rules to follow to hold Ewincher with the least amount of effort :

1. Hold the handle, don't push on it
2. Keep both your hands perpendicular to the handle

At rest, that is when you're not pushing buttons 1 and 2, the handle is unlocked, which means that you can position it anywhere on the winch to choose the best possible position before beginning your maneuver.

For example, in speed 1, hold your handle as shown in the picture, one hand on the hand grip and the other on the knob.



The various maneuvers



Electric mode : Maneuvering in winch speed 1 (green LED)

Place Ewincher to the left of your winch and perpendicular to you. Hold the handle as indicated in the picture. Press the handle button (2) to turn on the electric assistance and hold the Ewincher in place. You can control the rotation speed depending your pressure on the trigger button. Setting configuration at the factory is speed n°1 associated with inverse clockwise rotation. You have the possibility to change it if

necessary with the apps on your smart phone.

Maneuvering in winch speed 2 (purple LED)

To use the winch's speed 2, place Ewincher to the right of your winch, press the handle button (2) and hold the Ewincher in place.



Choose the direction of rotation - Not available on Ewincher SE

If you pull EWINCHER 2 towards you and swivel the handle to the other side of the winch, the handle will automatically change its direction of rotation. You can easily choose your winch speed this way. The direction of rotation that you choose is indicated by the color of the LED : **green for speed 1** and **violet for speed 2**.

On the Ewincher SE, you can manually select the direction of rotation by simply pressing the knob (1), making it easy to select the winch speed you want. The activated direction of rotation is indicated by the color of the LED, **green for speed 1** and **violet for speed 2**.

Combine Mode

When using the power assistance you can also turn the handle just like a regular winch handle. Your maneuver will be twice as fast !

Manual Mode

Whenever you'd like, you can use Ewincher as a manual handle. To do so, hold Ewincher as indicated in the picture, one hand on the hand grip and another on the knob. Using the hand that is holding the knob, keep pressing the top button (1) and use Ewincher like a regular handle.

Additionally, you can also use Ewincher as a ratchet wrench. Position yourself correctly, keep the knob button pressed in (1), pull Ewincher towards you, let go of the button (1) and reposition Ewincher on the winch, etc.



Ewincher, a very powerful handle

Ewincher is very powerful. It allows you to perform the full range of sailing maneuvers, such as sheeting or tensioning a sail, hoisting a spinnaker, etc.. You can also use it to haul a person up the mast.

Hauling a person up the mast is the maneuver which pushes the system the hardest and can turn on the thermal circuit breaker. For a better use, do not hesitate to cool down your handle before beginning this maneuver.

Inserting and removing the battery pack

For optimal use, make sure that the battery is completely charged.

To insert the battery pack

1. Align the battery pack (6) with the track on the top of the handle.
2. Slide in the battery pack until it is completely inserted into the handle. **Make sure it doesn't move !**



To remove the battery pack

1. Push on the side button (4) and firmly pull the battery pack out of the handle track.
2. If the battery needs recharging, charge the battery pack following the instructions in the charging section of the manual.



Charging the battery

1. Plug the cord into the charger.
2. Plug the other end of the cord into an appropriate outlet.
3. Insert the **red** charger connector into the **red** battery connector.
4. Insert the **black** charger connector into the **black** battery connector.
5. The red indicator light turns on to indicate that the battery is charging.
6. The charge is complete once the light has turned green. The battery is then fully charged and can be used.

NOTE

To ensure optimum performance and a longer life for the Li-Ion battery, charge your battery pack fully before use.

Even though the charger and battery are protected, it's best not to reverse the polarities when plugging the battery into the charger. This will reduce the risk of electric shock, fire, or electrocution.

Smartphone application

Ewincher can connect to a smartphone via Bluetooth, using the Ewincher app available at the Play Store and Apple Store. You can adapt your handle by adjusting the maximum effort you wish to exert (between 10kg and 36kg of effort on the handle). You can also consult a range of usage information, such as duration of use, maximum effort applied, etc..

To connect your Ewincher to your Apps :

1. Switch on your Ewincher (permanent green light)
2. Start the Apps on your smart phone (bluetooth activated)
3. Your Ewincher is going to connect



Torque limiter

Using the smartphone application, you can adjust the maximum effort you do not want Ewincher to exceed. Ewincher has a factory setting 26kg maximum effort.

During your maneuver, if the maximum effort exceeds the value that you set, **an orange LED light** will **blink** several times and your Ewincher will temporarily cut the electrical assistance. You can then continue your maneuver using the winch's 2nd speed, for example.

Thermal Circuit breaker

The handle is equipped with a thermal circuit breaker to :

- Improve user safety
- Extend the product's lifetime

When the internal temperature of the handle is too high, the safety mechanism turns on and the **red LED light stays on**. Wait a little while and you'll be able to use your Ewincher again once the temperature has gone down enough. To power it on, remove and insert the battery.

Battery charge level

When the battery charge is weak, the **red LED light blinks**.

When the battery is completely discharged, the **red LED light stays lit a little, then the machine gets off**.

You must then recharge the battery following the instructions in this manual. To preserve your battery shelf life we recommend to recharge after your day sailing, don't wait it is empty.

Video instructions

For more information about operating your handle, you can watch various instructional videos on our website (www.Ewincher.com) and our YouTube channel.

Product labels

The encoded date of manufacture, which also includes the year, is printed on the product label that is located on the surface that serves as a hinge between the handle and the battery pack.

Example for products made in 2022 :

BXX 2022 XX-XX
Year of manufacture

or

EXX 2022 XX-XX
Year of manufacture



WARNING : read all guidelines and safety precautions. Failure to comply with the guidelines and instructions can result in the risk of electric shocks, fire, and/or serious bodily injury.

Safety - Area of use

1. **Keep the area where you use the product clean and well lit.** Dark or cluttered spaces are conducive to accidents.
2. **Keep children and all other people at a distance when using the handle.** Distractions may cause you to lose control over the product.
3. **Keep a manual winch handle nearby.** The Ewincher handle is not designed to replace manual handles.

Safety - Individual

1. **Always remain vigilant and use good judgment when using Ewincher. Do not use the handle if you are tired or under the influence of drugs, alcohol, or medicine.** A moment of inattention when using the handle carries the risk of serious bodily injury.
2. **Prevent the handle from turning on accidentally.** Transporting the handle with your hand on the switch could cause an accident.
3. **Make sure you are stable before using the handle. Keep your feet firmly planted on the ground and maintain your balance at all times.** This will allow you to better control the handle if you face unexpected situations.
4. **Wear appropriate clothing. Do not wear loose clothing or jewelry. Keep hair, clothes, and gloves away from moving parts, as they could get caught.**
5. **Supervision is necessary for inexperienced users.** This product is not intended for use by people (including children) whose physical, sensory, or mental abilities are impaired, nor by anyone lacking in experience or knowledge, unless they are supervised by someone who is responsible for their safety. **Never leave children unsupervised around Ewincher.**

Using and storing the Ewincher

1. **After use, store the handle out of the reach of children and prevent anyone who is unfamiliar with its operation (or the user manual) from using it.** The handle can be dangerous in inexperienced hands.
2. **Use the handle in accordance with these instructions and its intended purpose, taking into account your environmental conditions and the task at hand.** Using the handle for purposes other than its intended use is potentially dangerous.



3. Your Ewincher is tight but it is always preferable to put in a dry environment, when you do not use it (we avoid the negative effects of humidity by condensation).

Battery use and maintenance

1. **Recharge the battery solely with the charger provided with the Ewincher.** A charger that was made for another type of battery can present a fire or safety hazard when used with other batteries.
2. **Use Ewincher solely with its specific battery.** Use of other batteries carries the risk of bodily injury or fire.
3. **After use, store the battery away from metal objects such as paper clips, coins, keys, nails, screws, or other small metal objects that may conduct electricity between the terminals,** since this poses the risk of burns or fire.
4. **To increase battery life, we recommend recharging it if you haven't used it in a long time.**

Repairs

1. **Do not use a handle with a faulty switch.** Any device with a faulty switch is dangerous and must be replaced.
2. **Please make sure that only Chrysadev services your Ewincher.** This will preserve the integrity of the handle and the safety of the user.
3. **Changes or modifications not expressly approved by CHRYSADEV could void the user's authority to operate the equipment.**

Using and storing the charger



WARNING : risk of shock. Do not let any fluids enter the charger. Risk of electric shock.



WARNING : risk of burns. To reduce the risk of injury, only charge rechargeable batteries sold by Chrysadev. Any other type of battery may overheat and explode, causing injury and/or material damage.



WARNING : children must be supervised to ensure they don't play with the device.



WARNINGS :

- Do not charge the battery pack with any other charger besides the one Chrysadev provided with the Ewincher. The charger and battery are specifically designed to work together.

- These chargers are not designed for any other purpose besides charging the rechargeable batteries sold by Chrysadev. Any other use presents a risk of fire, electric shock, or electrocution.
- Do not expose the charger to rain or humidity.
- To unplug the charger, pull on the plug and not the cord. This will reduce the risk of damage to the plug and the cord.
- Place the cord out of the way so that no one can step on, trip over, or damage it in any way.
- Do not use an extension cord unless it is absolutely necessary. Improper use of an extension cord may increase the risk of fire, electric shock, or electrocution.
- When using the charger outside, make sure you have a dry area in which to use it, and use an appropriate extension cord for outside use. This will reduce the risk of electric shock.
- Do not use a charger with a damaged cord or plug - have them replaced immediately.
- Do not use a charger if it received a severe blow, fell down, or was otherwise damaged in any way. Bring the charger to an authorized repair center.
- Do not take the charger apart. Bring it to an authorized repair center if maintenance or repair is required. A charger that is improperly re-assembled may increase the risk of electric shock, electrocution, or fire.
- The charger is designed for a power supply of 100 to 240VAC and 50-60Hz. Do not try to use it with any other source.

Residual risks

Despite the application of prevailing safety standards and the installation of safety mechanisms, certain residual risks are unavoidable. These include :

- Risks related to the practice of sailing
- Risk of pinched fingers when placing the battery on the handle
- Risk of injury if the product falls on the user

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Declaration of conformity

MACHINERY DIRECTIVES

Ewincher, electric power-assisted winch handle



Chrysadev certifies that the Ewincher product complies with directives 2006/42/EC, 2014/53/EU, 2011/65/EU, and 2012/19/EU.

The product is also compatible with Directives 2014/30/EU and 2014/35/EU. For more information, please contact Chrysadev at the address here after.

This device complies with part 15 of the FCC Rules. This device complies also with Industry Canada's licence-exempt RSSs.

Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The undersigned was responsible for preparing the technical dossier and is making this declaration on behalf of Chrysadev.

Bruno Rabu, CEO
Chrysadev SAS
9 rue Nicéphore Niepce ZA du Palyvestre
83400 Hyères, FRANCE

3 juillet 2017


Ewincher Handle



Separate collection. Do not throw this product out with normal household waste. At the end of your handle's useful life, or if it is of no further use to you, do not throw it out with household garbage, but in the appropriate separate collection container.



The separate collection of used products and packaging allows materials to be recycled and re-used. Re-use of recycled materials helps to protect the environment from pollution and reduce demand for raw materials.

Local regulations may provide for separate collection of electronic products from households, at municipal waste sites, or at retail shops that sell new products.

Battery pack

At the end of the product's useful life - when a fully charged battery does not exert enough power to perform the tasks it could easily perform before - dispose of the battery in compliance with environmental regulations :

- Fully discharge the battery, then remove it from the handle.
- The Li-Ion cells are recyclable. Bring them to a retailer or local recycling center. The collected batteries will be recycled or disposed of appropriately.

Warranty

This product is under warranty for a period of two years from the date of purchase, solely for the original purchaser. The warranty applies only to malfunctions caused by a defective part or a manufacturing error that is observed during the warranty period.

Chrysadev will repair or replace your handle, at our discretion, under the following conditions :

- That the product was used according to the instructions in this manual, that there was no operator error or overload, and that the product was not used in any way other than that intended by Chrysadev.
- That the product has never been taken apart or modified in any way.

Any damage that occurs during shipping of the product is not covered by this warranty, as it is the responsibility of the shipping company.

For more information, consult the General Terms of Sale on our website : www.Ewincher.com