

# ***HYCON bike***

OPERATING MANUAL  
for all HYCON bike models





Congratulations on your HYCON bike! Thank you for choosing our brand!

Hycon is an Italian lifestyle adventure brand that blends a vintage soul with a comfortable e-bike folding.

Created to face the city in every situation, HYCON is an Italian-made folding e-bike.

Unlike ordinary folding bikes with 16 or 20" wheels, HYCON is equipped with 24" wheels. Its distinctive feature is the frame and its new patented folding system that combining the comfortable settings of an ordinary bicycle with a folding system, which can not only compress the bike into a small size but also make the wheels in a parallel position to make the bicycle roll like a suitcase.

HYCON was developed with perfect cycling that traces the most high-performance muscle bikes, so pedaling even without a motor is a pleasure. That's why Hycon is equipped with first-rate components.

Easy to fold. Easy to carry. Easy to store.

Please take some time to read through this manual carefully and follow the safety advice before initial operation.

For your own safety, please read the following operating instructions to prevent falls and injuries due to the wrong use or poor maintenance of the bike. This manual provides information on the proper maintenance and care of your HYCON bike. Please also make sure that your HYCON bike complies with local road traffic regulations.

This operating manual only provides general information and is not a comprehensive guide on how to cycle or maintain the bike. If you have any further questions, please do not hesitate to contact [support@hycon.bike](mailto:support@hycon.bike) We are happy to help you!

We wish you the most beautiful adventures aboard your HYCON bike!

Best regards,

Matteo Avaltroni , Ceo of Hycon srl

## IMPORTANT!

Please read this user manual carefully before using your HYCON bike and keep it for future reference.

Before you open the carton packaging, please check to see if the box is damaged in any way that can compromise its contents. Damaged boxes should not be accepted. Boxes with visible dents or scratches must be accepted with reserve or not accepted at all. If you suspect its contents may be damaged, please contact the delivery service right away to file a complaint and send us an e-mail to [support@hycon.bike](mailto:support@hycon.bike) within 24 hours.

For more information go to [www.hycon.bike/terms-and-conditions](http://www.hycon.bike/terms-and-conditions)

Once you've confirmed that your Hycon box is in good condition, then it's time to open it. Inside you will find the bike in folded modality.

## UNBOXING!

Hycon arrives fully assembled and folded.

Once you open the box at the top you can either pull it out from above or much more easily rotate the box 90 degrees and let the bike out on its wheels.

Now you can proceed to unfold the bike (read this manual first or see the SUPPORT section with the video tutorials on the website)

Before you set off, however, you need to rotate the display on the handlebar in the correct position, as shown in the photo, and pull the screws with a 3 mm Allen key.



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## **GENERAL INFORMATION**

These operating instructions contain general information on the operation, maintenance and care of the HYCON bike as well as its safe handling.

They also contain terms and conditions of sale that can also be found at [www.hycon.bike](http://www.hycon.bike).

## **LEGAL DETAILS and DECLARATION OF CONFORMITY**

Hycon is a product designed, patented, produced and sold by HYCON srl.

HYCON srl, via Brodolini 77, 60030 Serra de' Conti – An - Italy

Vat 02813220429 – REA AN253081

Contact: [support@hycon.bike](mailto:support@hycon.bike) / Website: [www.hycon.bike](http://www.hycon.bike)

All HYCON models have passed the reference tests in line with the European standard obtaining certificates of conformity.

2006/42/EC Machinery directive

The following harmonising norms were applied to the product:

DIN EN 15194: Cycles - Electrically power assisted cycles - EPAC Bicycles



Technical documentation filed at address above.

NOTE: This Declaration of Conformity applies only to countries following the CE marking directives.

This declaration assures conformity with the standards and directives cited, but does not represent any guarantee of specific features in terms of product liability.

Hycon is not a toy and is not suitable for children under 18 years old.

The frame of Hycon is totally made in Italy. The bike is assembled in Italy.

We work with respect for the rights and dignity of all our collaborators.

First of all, Hycon is the joy of living.

## **FRAME NUMBER**

The conformity plate with the frame number is placed under the central tube of the frame, in the front section.

## **SAFETY INSTRUCTIONS**

In the interest of your own and others' safety, always observe the safety and operating instructions in this operating manual. Before using the bike for the first time, read the operating instructions carefully.

Proper adjustment of pedals, handlebar and seat post, is crucial!

It's important to learn the proper use of the elements that fold the bike like the seat post, the steering tube, the folding mechanism of the central tube. Make sure these items are tightened in the right way before each ride.

HYCON bikes are designed for use on roads and paved paths. HYCON bikes are not designed for tricks, riding across fields, extreme sports, stairs, jumps, wheelies or similar activities. Please use your HYCON bike only as intended to avoid damages, accidents or the termination of your warranty.

Conditions for the operation, maintenance and for servicing (as described in these operating instructions) are part of its intended use. HYCON bikes are not designed for the transport of more than one person. The maximum permissible weight (driver + backpack] is 100 kg.

No liability or warranty will be accepted by the dealer or manufacturer if the use of the HYCON bikes goes beyond their intended use, when safety instructions are not adhered to, the HYCON bike is overloaded or when defects are not handled properly. Similarly, no liability is accepted for mistakes in the assembly incurred through the wrongdoing of customers, third parties, premeditation or accidents.

The rider assistance system is limited to a maximum continuous power of 0.25 kW (250 W) and a maximum speed of 25 km / h (15.5 mph) which can be unlocked for higher performance assistance. It is the pilot's responsibility to comply with all regulations imposed in the state in which you are using HYCON. Do not use your HYCON bike with a child seat. Do not use your HYCON bike with any form of trailer.

**BEFORE RIDING**

Before each ride with the HYCON bike:

Wear a suitable bicycle helmet, even if it is not mandatory and inform yourself about the legal regulations of the country in which you will be using the bike and make sure to comply with all those regulations.

For HYCON e-Bike: make sure to observe country-specific regulations for operating e-bikes.

Always wear appropriate clothing (light clothing for better visibility, tight trouser legs or trouser clips, no loose clothing or long skirts that may get in the way of the wheels or the ride.

Front and rear lights can be mounted on HYCON when required by the regulations of the country where the bike is being used.

Wear shoes with a non-slip and stiff sole.

Do not ride free-handed.

Do not ride with headphones, do not talk on the phone or ride if you are impaired through drugs or alcohol.

Check that the seating, slide-in shaft and quick releases are firm and securely tightened before each ride.

Always drive defensively and be considerate when riding to keep others and yourself safe.

Regularly check the tightening of screws and components.

Test your brakes before using Hycon and check it every time you take it.

Check the brake system for function and wear (brake pads, brake linings, brake disc).

Always adapt your riding style to the weather condition. Note that the braking distance can be considerably longer on wet or smooth surfaces.

Always adjust your speed to the terrain and your riding ability.

Pay attention to damage and wear on your HYCON bike.

When folding and unfolding your HYCON bike, do not place your hands and fingers in an area where they could get caught or pinched.

Always ensure correct folding or unfolding to prevent possible accidents and injuries.

Check the tire pressure regularly.

Regularly check the frame, fork and controls for proper operation and material fatigue.

Do not use your HYCON bike after a fall or accident until it has been checked for damage.

Please check the local regulations before using Hycon e-bike.

HYCON is not toys. Any riders must be at least 18 years old.

## THE HYCON BIKE

For more information watch the video tutorial in the "support" section on the website [www.hycon.bike](http://www.hycon.bike).

### UNFOLDING YOUR HYCON (from open system to closed system)

Opening the box you will find the bike already folded and in position with wheels and seat post that touch the ground. You can lift the bike in this position and get it out of the box or open the box on all sides. As a first operation, hold the bike from the saddle and rotate it back 90 degrees making it slide on the wheels and bringing the seat post parallel to the ground. Loosen the clamp and raise the saddle, tighten the clamp again. Do not loosen the clamp before you have rotated the bike otherwise the handlebar will touch the ground.

At this point loosen the lever that allows you to raise the handlebar.



To rotate it, lift up the small lever, rotate it until it is in front of you in the forward position, you will hear a 90° click, tighten the lever. Hold the handlebar with your left hand and pull the front brake to stop the wheel.





You are ready to unfolding the bike. You can do it with a strong blow by detaching the magnets that hold the frame together. Holding the left hand steady, bring the right hand back by pulling the seat back and making it rotate upwards in order to bring it back to the rear wheel. Tilt the bike on the wheel by pivoting on the front wheel facilitates this operation especially if you completely detach the front wheel from the ground.

Alternatively, you can do the same movement gently by sliding the rear wheel without detaching it from the ground.

Then tighten the two central joints (close the system) screwing the center joint cog clockwise and tightening the rear joint lever. The rear joint mechanism is a cam lever, to have a good tightening, always check the wheel on the left and tighten it if necessary.

Adjust if necessary handlebar height and seat and you are ready to go.

Before using the bike, always check that the centre and rear joints are tightened and that the handlebar and saddle levers are tightened.

## **FOLDING YOUR HYCON (from closed system to open system)**

To fold your HYCON the first thing to do is to bring the left crank down. This is very important otherwise the bike cannot be folded. You can choose to fold the pedals or leave them open depends on you. Loosen the handlebar clamp and raise it at full extension, this will allow the rear carriage to advance. Tighten the handlebar clamp.

When the cranks are in position, loosen the two frame clamps, central and rear (open the system). Hold the handlebar with your left hand by pulling the front brake. At this point with a shot down slide the rear wheel forward. Push it until the seat post, bending to 90, touches the central tube by tightening the magnets; and until the wheels are parallel and the two magnets on the rear carriage and on the fork touch together.



Loosen the handlebar clamp, turn it to the right and lower it, tighten the clamp.

At this point if you have to carry the bike on its wheels in passive mode you are already in the correct position, keep the seat post parallel to the ground and walk.

If you need to compact the bike as much as possible loosen the clamp of the seat post and lower the saddle to the bottom, tighten the clamp and rotate the bike until the wheels and seat post touch the ground.

For more information watch the video in the support section on the site [www.hycon.bike](http://www.hycon.bike).

**WARNING:** If you fold the bike often, there is a risk that the screws and nuts of the joints will loosen over time. Periodically make sure these parts have screws and nuts tightened.

## **ADJUSTING THE SIZE**

Take time to adjust the bike to your individual size. Only in this way, can you achieve optimum performance and a relaxed ride. Some HYCON components have been specially designed for customization to best suit your body and riding style.

### **ADJUSTING THE SEATPOST**

Begin by sitting comfortably on the saddle. Position the heel on the pedal and press down with the heel until it reaches its lowest point. In this position, your legs should be stretched. Now put your foot on the pedal with the ball of your toe; your leg should now be slightly angled. You should be able to reach the floor with your toes when you are sitting. When you have found the right position, loosen the seatpost clamp, adjust the saddle and reclamp the seatpost. Do not use force to adjust the saddle, otherwise the seat post may break or the frame may become damaged. Now try to move the saddle. If it does not move, sit on the saddle again and make sure that you are in the right position. If you cannot touch the ground with your toes, lower the saddle slightly.

When you have established the right measures that fit your body remember to tighten the closures!

ATTENTION: HYCON's intended use does not allow the attachment of bags or luggage racks to the seatpost or saddle!



## ADJUSTING THE HANDLEBAR

Open the lever from the handlebar, adjust the height according to your individual needs and then close the lever.





## **SPECIFICATIONS**

### **URBAN MODEL SPECIFICATIONS**

- Steel frame
- Electric motor 250 W - 45 Nm with 5 power modality
- Lithium battery 36V - 5Ah - 180Wh
- LCD Display
- Autonomy - 20/30 km (50/60 with expander battery) depending on the driver, the type of driving and the route taken
- City Handlebar - black grips
- Black saddle with reflector on 27.2 mm black seatpost
- Malvestiti 24" rim, 28/34 external chamber, black 32/36 spokes
- Black tires 24" x 1.75"
- Mechanic disc brakes on anterior 160 mm disc and posterior 140 mm disc.
- 3-speed integrated gearbox with belt
- Folding plastic pedals with reflector
- Weigh 21 kg
- Folded size 95 cm x 75 cm x 40 cm

### **GRAVEL MODEL SPECIFICATIONS**

- Steel frame
- Electric motor 250 W - 45 Nm with 5 power modality
- Lithium battery 36V - 5Ah - 180Wh
- LCD Display
- Autonomy - 20/30 km (50/60 with expander battery) depending on the driver, the type of driving and the route taken
- Gravel Handlebar - brown bar tape
- Brown saddle with reflector on 27.2 mm black seatpost
- Malvestiti 24" rim, 28/34 external chamber, black 32/36 spokes
- Black tires 24" x 1.75"
- Mechanic disc brakes on anterior 160 mm disc and posterior 140 mm disc.
- 10-speed crankset gearbox with chain and rear derailleur
- Folding plastic pedals with reflector
- Weigh 21 kg
- Folded size 95 cm x 75 cm x 40 cm

## FRAME

The exclusive unisex frame is patented and shock-absorbent, in fact the frame is made of steel, more elastic and flexible than aluminium.

The frame is entirely built in Italy by craftsman frametellers, some components are machined to the CNC. The bike has passed all the test and has all certifications required by European Legislation.

The frame stands out by two joints on which is based the folding patent. In the frame there are also two magnets that tighten the system once the bike is fully folded (open system)

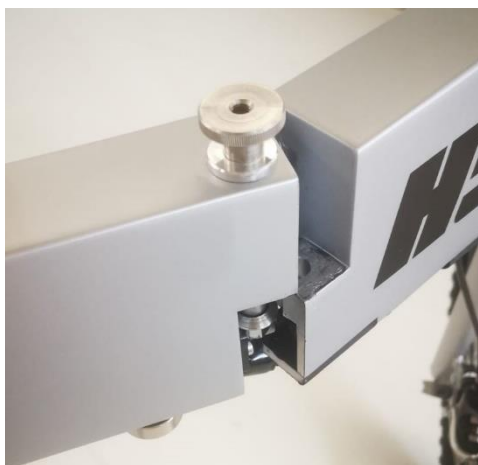
When the system is closed the joints are tightened and the bike is in running condition, when the system is open the two joints are open, the bike is folded and the two magnets are connected.

## THE CENTRAL JOINT

The central joint consists of a piston that tightens the system through the rotation of the upper knurled wheel. To tighten the system you need 2/3 complete rotations in a clockwise direction of the knurled wheel. Do not unscrew the wheel completely to open the joint, 2/3 complete counter-clockwise rotations are sufficient. If you have completely unscrewed the knurled wheel, simply re-invert it until tightening.

Periodically check (2/3 times a year) the screws that make up the joint to make sure all the screws are tightened. The system is equipped with a safety spring that pushes down the piston and prevents that, once unscrewed the knurled wheel and open the system, the frame accidentally closing can collide with the piston.

Attention: This is why it is important not to screw up the knurled wheel if the system is open. Once you unscrew the wheel (open the system) and folded the bike, the wheel should not be screwed again until you unfold the bike to put it in running condition, only in this moment you can tighten the system, only after closing it. Do not unscrew completely the clamping nut. Do not put your hands in the joint during the closing stages!



## THE REAR JOINT

The rear joint is a simple quick release and basically consist of two main parts: the lever on one side and the clamping nut on the opposite side. The initial tension can be adjusted with the clamping nut, the lever fixes the clamp. If you want to move the clamping lever all the way and release the tension even further, then turn the adjusting nut counterclockwise. To increase the tension, turn the adjusting nut clockwise while holding the lever with the other hand. If the adjusting nut is tight, close the lever. If you close the clamping lever, it should be easy to move halfway without clamping.

To close it completely, use the palm of your hand to close the lever. Check that the handle is secure. If it turns, open the lever and increase the tension by turning the clamping nut. The lever must not stand sideways and should touch the frame.

Attention: It's very important that when you open the joint to fold the bike and loosen the lever, you leave it open. If you lock it, the bike will not be able to close. You must tighten the lever only once you put the bike back in the running position (closed the system).

Do not put your hands in the joint during the closing stages!



## **FRONT GEARBOX (Urban model)**

### APPLICATION

The front integrated gearbox is dedicated for all non-competition bikes like touring, city, e-bike, folding, recumbent, trike. It has been heavily tested in various conditions (on-road, off-road and laboratory tests, including winter tests). However, it has not been tested for competition MTB, downhill or dirt applications.

### GEAR RATIO

GTRO's 1st gear is a neutral gear (1:1). Second and third gears are incremental. GTRO's standard chainring

Gear	Ratio	Teeth equivalent for 28T
1st	1:1	28T (physical chainring size)
2nd	1:1,43	40T (physical chainring size)
3rd	1:1,79	50T (physical chainring size)

### GEAR SHIFTING

The front integrated gearbox is delivered with a dedicated trigger, grip or bar-end shifter.

### COMPATIBILITY WITH BELT SYSTEM

One of the trends in the cycling industry is the growing popularity of belt systems. Unlike a chain, a belt is silent, clean (does not need lubrication) and more efficient energetically.

There are at least five reasons why the front integrated gearbox is a good gear shifting system for an ebike:

1. you can downshift to the first gear after stopping, which makes starting easy
2. starting always from the first gear saves your battery
3. you can upshift under a full load when accelerating
4. it's compatible with belt systems
5. it's a zero-maintenance system



## SHIFTER ADJUSTMENT

The front integrated gearbox usually does not require any fine-tuning after installation. However, it may happen that a tension on a shifting cable makes an adjustment necessary, mainly after some distance is already covered on a bike. When is the adjustment necessary: if your gearbox does not shift properly or makes a strange noise when riding your bike. To make an adjustment, you need to turn a so-called shifter's barrel.

A barrel is marked with a red dot on a trigger shifter (left) and grip shifter (right).



The adjustment procedure at the beginning, it is good to take a photo of the original barrel's position. This way you will be able to get back to the original position, if you feel lost in the process.

Let's start.

1. Turn a barrel once counter-clockwise and make a short test ride. If GTRO runs smoothly, shifts gears quickly in both directions and does not make any noticeable noise – it's done.
2. If something is still wrong – turn a barrel once again in the same direction. Make a test ride.
3. If something is still wrong – repeat step 2.
4. If a barrel does not want to turn anymore in that direction and your gearbox does not work properly, turn the barrel to the starting position.
5. Turn a barrel clockwise once and make a test ride.
6. If something's still wrong – repeat step 5. To determine which direction is "counter-clockwise", please take a look at your shifter from a rider position, so that a barrel is closer to you than a shifter. If you are still not sure, which way is "clockwise" and which is "counter-clockwise" on your barrel, it doesn't matter that much. Just try one direction, and if it doesn't work, try the other. If you tried to adjust the barrel in both directions and the gearbox still does not work correctly, L  
SEP

please e-mail us at [service@efneo.com](mailto:service@efneo.com). We'll do our best to help you immediately. If you think it makes sense, send us some photos or a short video to show the problem.

For any solution visit <https://www.efneo.com/>

## **BELT DRIVE**

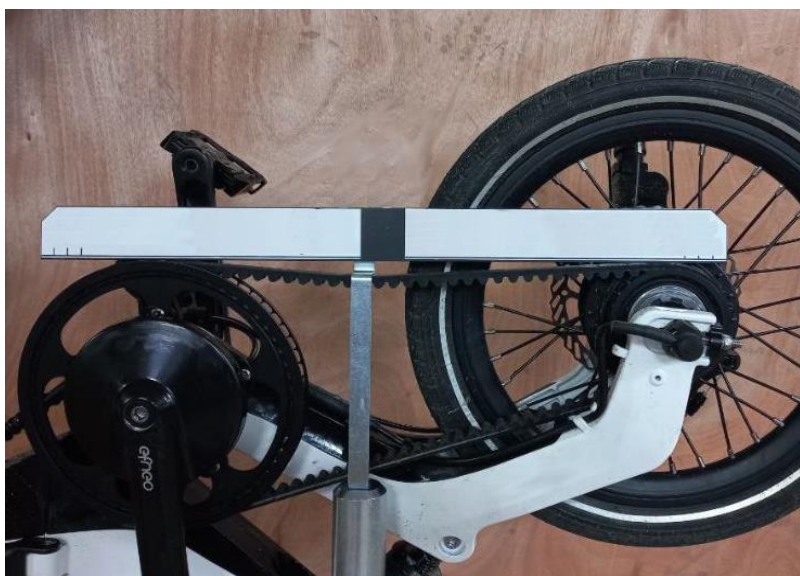
Clean the belt as needed with water and a soft, clean cloth. Do not apply any lubricant to the belt. Have the belt tension checked regularly.

The belt tension is set by the dealer but it is good to check its tension periodically. It can be useful to tighten the belt in case of punctures and replacement of the rear tyre. In that case it will be necessary to open the frame through the screws on the right side of the rear carriage, remove the belt and remove the wheel.

### **BELT TENSIONING**

First you need to put the belt on both sprockets, front and rear. Once the belt is put on both sprockets, you need to tension it by pulling the rear wheel axle away. The recommended belt tension is that under weight of 1085 g the belt bends down by 10~12 mm, like shown on the graphic below.

Use the rear dropouts to adjust the belt tension. Unscrew the two screws that tighten each dropout, adjust the position of the dropout using the head screw. When the belt has reached the recommended tension, tighten the screws of the dropouts again.



## MOTOR AND CONTROLLER

### MOTOR NRK 250

Permanent Magnet Brushless DC motor for e-bike

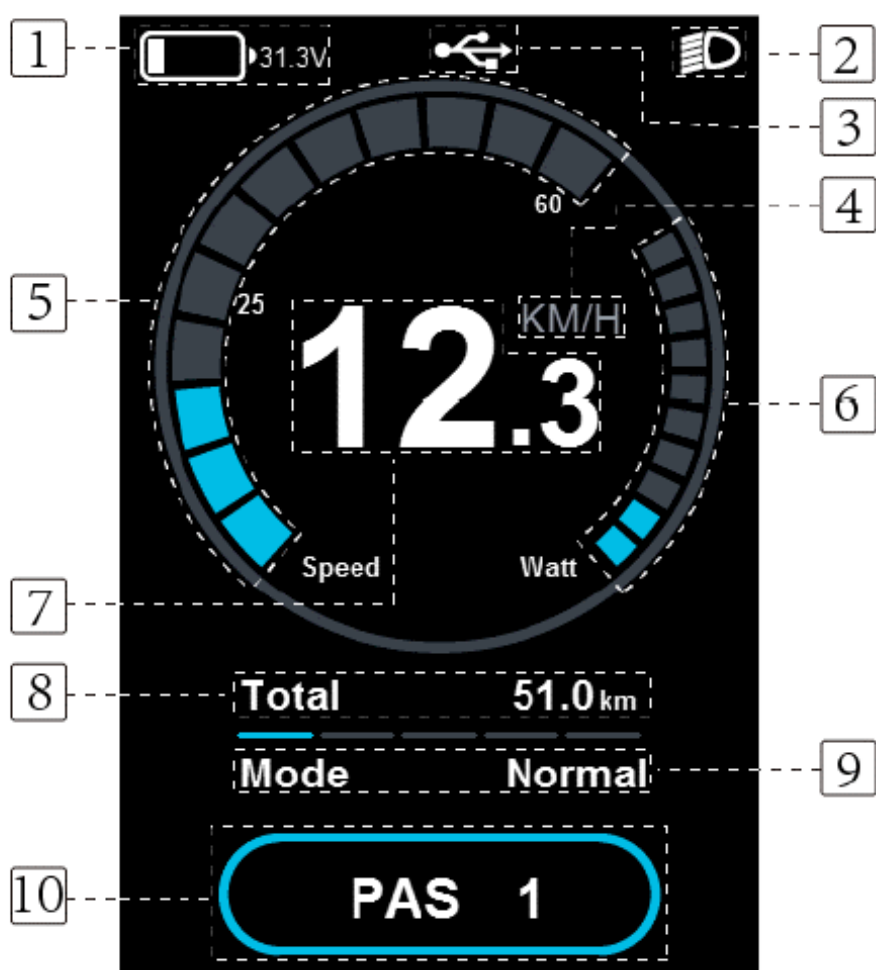
Core Data	Voltage	24/36/48
	Rated Power	250
	Speed	25KM/H-32KM/H
	Maximum Torque	45N.m
	Maximum Efficiency	≥81
	Wheel Size	20/26
	Gear Ratio	1:6.28
	Pair of Poles	8
	Noisy	< 50
	Weight	2.4
	Working Temperature	-20°C-45°C
	Spoke Specification	36H*12G/13G
Brakes		Disc-brake
Cable Position		Left

The motor should be stored under the dry and ventilated room, and can not be stored under moist, acidic and alkaline places. Please do not put the motor together with magnetic products.

ND03 – USB – DISPLAY CONTROLLER

Certification: CE/EN15194/ROHS

The Hycon is sold with a maximum speed set at 25 km/h as this is the limit imposed by regulations in most countries. Through the display, however, it is possible to unlock the limit, allowing the motor's thrust to be used without limit. Unlocking the limit is the responsibility of the purchaser. Hycon is exempt from any liability in this respect and always invites you to respect the limits imposed by the various countries.

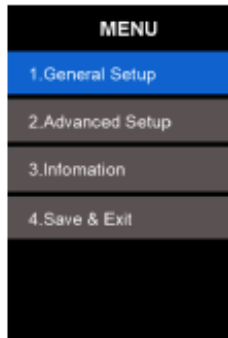




- 1 Electric quantity display : Display current electric quantity.
- 2 Backlight indicator : With the power on, click the ON/OFF to turn on the backlight and headlight.
- 3 USB Hold the SET and UP for 5 seconds to get in USB.
- 4 Unit Select KM/H or MPH as the current display unit.
- 5 Speed indicator: Displays real-time speed in the form of a progress bar.
- 6 Power indicator: Current real-time output power of motor.
- 7 Speed display: Display the speed at present.
- 8 Information display: Trip : Display the user's single riding mileage.  
ODO: The ODO records the driving mileage from using, the accumulated value cannot be cleared.  
Time: Display the current time of a single ride.
- 9 Riding mode selection : Three modes for riding, including POWER, NORMAL and ECO.  
Each mode corresponds to its interface theme skin.
- 10 Assist gear display: PAS: Display the current output power. 6KM: Hold the DOWN for 2 seconds to get in 6KM

Click SET 2 seconds enter the general setting interface

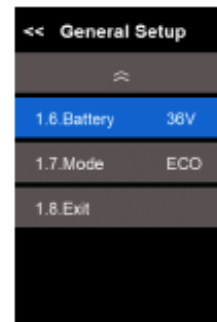
## 4.1 General Setup.



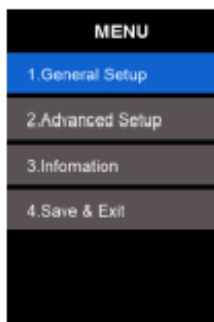
### 4.1.3 Speed Limit setting



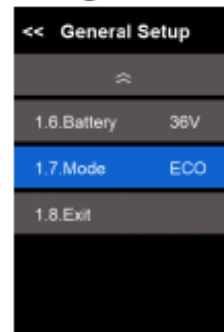
### 4.1.6 Battery setting



### 4.1.1 Trip Clear



### 4.1.7 Riding mode setting



### 4.1.4 Wheel diameter setting



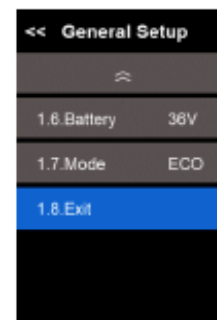
### 4.1.2 Backlight setting



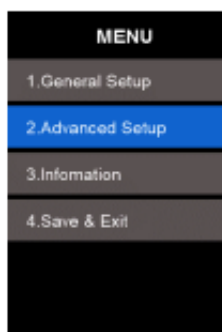
### 4.1.5 Units



### 4.1.8 Exit



## 4.2 Advanced setup



### 4.2.1 Current limiting setting (Range:3-18).



### 4.2.2 Poles In Motor setting (1/6)



### 4.2.3 Start After Poles setting (2-16)



ECO:



Normal:



Power:



#### 4.2.4 Throttle 6KM

Y represents the turning knob into the 6KM pushing mode, and N represents the starting turning knob to the maximum.



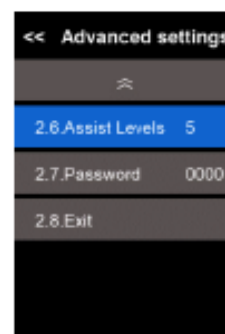
#### 4.2.5 Throttle Level

means throttle with different level, N means throttle with one level.

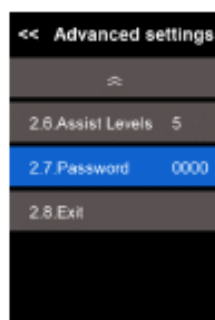


#### 4.2.6 Assist levels

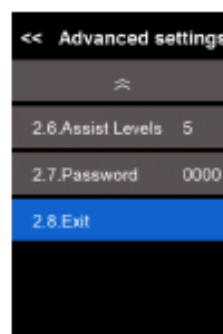
It can be set to 3,5,6,9. If user select 3, the range of assist levels is 1-3.



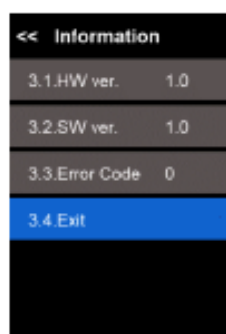
#### 4.2.7 Password



#### 4.2.8 Exit



#### 4.3 Information



#### 4.4 Save & Exit.



※When the riding speed is 0 km/h for 5 minutes, the system will go to sleep automatically.



Wires sequence	Wires color	Function
1	Red	Battery+
2	Blue	Weak lock
3	Black	Battery-
4	Green	UART - RECEIVE (RXD)
5	Yellow	UART - SEND (TXD)

The error code is corresponding with the fault definition.:

Error code	Definition
0	Normal
1	Current error or MOS damaged
2	Throttle error(Start detection)
3	Motor no phase position
4	Hall error
5	Brake error(Start detection)
6	Under voltage
7	Motor stalling
8	Communication controller receiving error
9	Communication display receiving error

## BATTERY

The battery is inserted inside the rear section of the frame. To operate on the battery it is enough to open the rear joint and rotate the rear frame 90° to have access to the front of the battery.

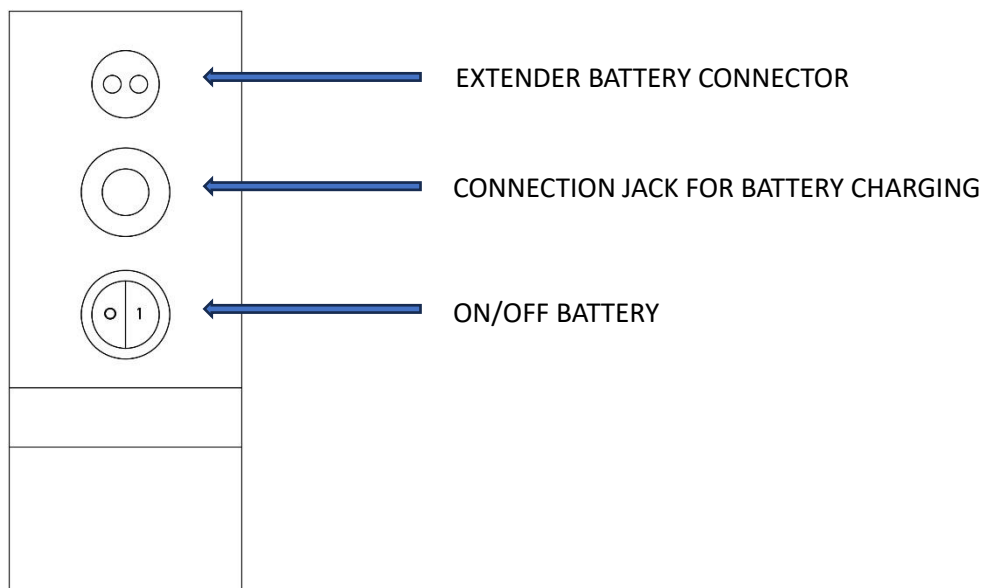
Lithium battery 36V – 5Ah – 180Wh

The maximum range can vary from 20 to 30 km depending on the driver, the type of driving and the route taken.

The range can be extended to 80/100 km by purchasing an under-seat battery extender in the online shop. The extender is connected by cable to the supplied battery (already prepared) via the first jack at the top.

Before removing the battery, switch it off by setting the switch to 0 (1 on, 0 off). Unscrew the Allen screw above the frame and the magnet in the central joint. Pull the battery out with the steel handle and disconnect the cable.

To charge the battery, connect the jack to the centre hole.



If a connector is accidentally disconnected during opening and closing operations, the display may not turn on. In that case, simply turn off and turn on the battery to reset the system.

Instructions for using lithium batteries.

To always get the maximum performance from the product, we recommend that you follow these instructions:

- Do not connect connectors to each other
- Do not bring temperatures above 70 degrees and below 10 degrees
- Keep in dry place and especially not wet
- Do not destroy, do not puncture or burn
- Avoid bumps and falls
- Avoid any contact with water and liquids in general
- Avoid keeping the battery in places where it can create condensation
- Recharge the battery once a month if not in use

**IMPORTANT:** If the battery shows signs of dents or bumps, DO NOT use it

#### Guarantee

All our batteries have a 12 month warranty. The warranty does not cover in the following cases:

- Cells bruised or damaged by bumps or chafing
- Traces of water or moisture on cells
- No tag with serial number
- Tampering with shrink film
- Tampering with the battery pack
- Use in conditions not foreseen by the characteristics of the battery
- Discharge beyond battery limits
- Short circuits

The product you purchased is designed and manufactured in Italy, with certified electronic components and with particular attention to your safety.

## **MAINTENANCE AND SERVICE**

As with all mechanical components, EPAC (Electrically Power Assisted Cycles) is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the product life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of colouring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

A lack of maintenance of the bicycle endangers your safety and can lead to serious accidents and injuries. Therefore, observe the guidelines on how to take care and maintain your HYCON.

When replacing components such as frame, fork, tires, rims, brakes, kickstand, handlebar, seatpost, electronic components, etc. use the original spare parts or HYCON-approved replacements. They are tested to ensure they work safely with your HYCON bike.

If you use components that are not original or different from the original, the warranty will not cover in case of accidents or breakages.

Bicycle components wear out while riding. Worn components that limit their functionality can lead to serious accidents. Note that different materials and components react differently and therefore may show different signs of wear. For your own safety, have your bike serviced regularly!

### **BRAKE SYSTEM**

All HYCON models are equipped with two independent brake systems to ensure maximum safety in compliance with legal requirements. Never ride with just one functioning brake and test the brakes before each ride. Practise in different situations and simulate full braking in traffic-free zones to get a feel for the braking distance. Use the brake levers that are attached to the handlebar. The left lever activates the brake on the front wheel, the lever on the right is connected to the rear brake.

1) ATTENTION: Please note that the braking distance changes when water, lubricating oil or dirt comes into contact with the brake. In rainy weather and/or dirty roadways, the braking distance is longer.

Also note that slopes and gradients affect the effectiveness of the braking system. IF you are riding downhill, you will activate both brakes simultaneously, but without completely blocking the front wheel. The blocking of the front wheel leads to falls or unintentional slipping. Continued braking on downhill slopes can cause the brakes to overheat and to lose their braking power. Avoid sustained braking and, if necessary, allow brake discs and brake system to cool down before continuing your journey.

**ATTENTION:** Disc brakes can overheat with extended use! Do not touch a disc brake until it has completely cooled down. See the manufacturer's instructions for operation.

The disc brake pads are subject to wear, periodically check the thickness of the pads and in case of heavy wear, replace them by a trusted mechanic.

The backing plate of the brake pads must never come into contact with the brake disc.

**ATTENTION:** Under no circumstance should the bicycle be used when the braking system (e.g. the cables) is damaged.

### **CHAIN**

Lubricate the chain with appropriate products periodically or when it is too dry.

### **PEDALS**

HYCON bikes are equipped with foldable pedals, which can be folded by 90 degrees.

### **WHEELS AND TIRES**

The HYCON bikes are equipped with 24 inch wheels.

Check periodically that the tire pressure is correct by observing the prescriptions written on the side of the tire.

### **QUICK RELEASE FRONT WHEEL**

Quick releases basically consist of two main parts: the lever on one side and the clamping nut on the opposite side. The initial tension can be adjusted with the clamping nut, the lever fixes the clamp. If you want to move the clamping lever all the way and release the tension even further, then turn the adjusting nut counterclockwise. To increase the tension, turn the adjusting nut clockwise while holding the lever with the other hand. If the adjusting nut is tight, close the lever. If you close the clamping lever, it should be easy to move halfway without clamping.

To close it completely, use the palm of your hand to close the lever. Check that the handle is secure. If it turns, open the lever and increase the tension by turning the clamping nut. The lever must not stand sideways and should touch the frame.

**ATTENTION:** Check that the quick release is secured tightly before each ride. If the tensioner loosens during the journey, then there is an acute danger of falling! Do not unscrew completely the clamping nut.

## **HOW TO STORE THE BIKE AND HOW OFTEN CHECK IT**

Store your HYCON in a dry place. Note that tires lose pressure after being stored for a long time, which can damage the bike. If the bike stands on the ground, lift it up and turn the wheels a few times every 2 to 3 weeks. Please note that the battery capacity of the HYCON may be affected under cool storage conditions.

To ensure the proper functioning of all components, bring your bike to a bicycle repair shop for service on a regular basis. Regular inspection improves the performance of the bike and reduces the likelihood of damage. A service should be carried out annually or after 1,000 km. If you plan longer trips, have your bike checked before by a specialist workshop.

Your HYCON bike is equipped with high-quality components, most of which are also available in local bike shops. If this is not the case, contact HYCON. We are happy to provide you with spare parts.

Tampering with the bike's components or technology may limit its capabilities, cause defects or break the bike parts. Never repair or replace parts yourself.

Always find a competent local bike shop to fix those parts.



## **TERMS AND CONDITIONS**

The following "conditions of sale" have as their object the distance sale of products that are partly artisanal in nature and comply with the provisions on the sale of consumer goods pursuant to Legislative Decree n. 206/2005 and the European directives 2019/771 and 2019/71 transposed in Italy with D.L. n. 170 and 171 of 2021 in terms of legal guarantee. These conditions of sale and the "Use and maintenance manual" are an integral part of the purchase contract. These documents are published on the website [www.hycon.bike](http://www.hycon.bike) and shall be deemed approved with the purchase made through the shop online.

For anything not expressly provided for or governed by this Agreement, please refer to the provisions on the sale of consumer goods, referred to in D.Lgs. n. 206/2005, as well as the rules of the Civil Code.

Hycon S.r.l. processes all orders on the basis of the following terms and conditions of sale. Conditions proposed by the customer or conditions other than those indicated in our general conditions of sale will not be accepted.

Once the purchase is completed, the products will be shipped according to the availability of the warehouse. Products not available will be shipped according to the time required for the realization of the finished product. Hycon is not responsible for extending the time due to force majeure and in no case the extension of the delivery time of the product constitutes the termination of the contract and the refund of the sums paid. Hycon has the right to withdraw from the contract and return the sums paid by the customer in the event that it is no longer possible to manufacture the product. Hycon s.r.l. reserves the right to replace the components, the design, the construction details based on market availability and the evolution or improvement of the product without this being a constraint for the termination of the contract. The images published on the site and on social channels are purely indicative.

The ordered goods will be sent to the address indicated by the customer upon payment received on the current account. In the event that the charge fails, Hycon S.r.l. will have the right to suspend or cancel, at its discretion and at any time, the execution of an order and/or the shipment of the products ordered.

The invoice will be issued after the payment, if the same is not required as "consumer" as defined by the European directives 2019/771 and 2019/71 transposed in Italy with D.L. n. 170 and 171 of 2021 and by D.lsg. 206 of 2005 this will render inapplicable the regulations placed to protection of the buyer in terms of warranty and right of withdrawal and the agreements contained in this contract attributable to this legislation shall be deemed not to be affixed. No sales to VAT-registered parties, the portal is only enabled for B2C sales.

## WARRANTY

HYCON s.r.l. guarantees the conformity of the products to the declared technical characteristics and their immunity from defects, as well as their safety according to the standards in force at the time of their placing on the market. Hycon bike is suitable for the use for which it was made and comes in its packaging with its accessories. The owner's manual can be viewed online.

A product is defective when it has defects that make it unsuitable for the use to which it is destined or that appreciably diminish its value or when it does not possess the essential qualities for the use to which it is destined. The legal guarantee of conformity on chassis and fork purchased on our website is 24 months and complies with European directives 2019/771 and 2019/71 transposed in Italy with D.L. n. 170 and 171 of 2021. The buyer can benefit from the legal guarantee of compliance for our products purchased on the website [www.hycon.bike](http://www.hycon.bike). Hycon S.r.l. is liable to the purchaser for any lack of conformity that occurs within 2 years of delivery of the product. The legal warranty covers only defects of conformity that already existed at the time of delivery. Within the first 12 months it is assumed that the defect found was present on delivery, after 12 months it is the responsibility of the buyer to prove that the defect was present at the time of delivery. The Buyer must report any lack of conformity by email to [support@hycon.bike](mailto:support@hycon.bike) by sending a description of the defect, explanatory photos, date on which the defect occurred, the frame number and indicating the date of purchase supported by the purchase documentation (tax invoice). It is the responsibility of the owner who requests this warranty to prove that the product has been maintained in accordance with the instructions contained in the user manual.

All components from third-party manufacturers (e.g. seat post, brakes, engine, batteries, handlebars) have a manufacturer-specific third-party warranty.

In the event of justified and timely complaints, accompanied by the information requested and provided that the defects are not linked to transport, misuse and/or storage, incorrect assembly or use of the same not rational or inappropriate and in any case to the responsibility in general of the Buyer, its successors or third parties, the Buyer, is entitled to the restoration of compliance of the purchased goods, by repair or replacement by the Supplier in the sole discretion of HYCON s.r.l. .

If HYCON s.r.l. is unable to repair or replace the product, it reserves the right to offer a similar replacement of equal or greater value or a partial refund proportional to the remaining life of the product or where it is not possible the termination of the contract , in all cases upon return of the original Product by the Buyer. The costs of repair and delivery of the repaired or replacement Product are borne by HYCON s.r.l., those of return of the original Product are borne by the Buyer and are reimbursed only if the cost is reasonable and the dispute is well founded, after delivery to HYCON s.r.l. of the proof of payment.

Compensation for damage shall in any event be excluded, except in the case of wilful misconduct or gross negligence.

The warranty is non-transferable and only applies to the original buyer. The warranty also does not cover defects or damage caused directly or indirectly by improper use, poor maintenance, negligence, accidents, modification of the chassis or components, violence or manipulation.

HYCON s.r.l. declines all responsibility for any damage to property and/or persons resulting from the improper use of the product, by the buyer or third parties. HYCON s.r.l. will in no case be liable for damages caused by defective or non-compliant products and this in express derogation from art. 1494 c.c.

The warranty does not operate if the product is combined with components not marketed by HYCON srl.

The warranty does not cover parts subject to normal wear and tear.

HYCON s.r.l. reserves the right to examine the products allegedly defective in order to verify the actual existence of the defects reported by the purchaser in the manner that it deems most necessary. The costs of returning the restored or replaced goods will be borne by the seller while those of shipping to Hycon srl will be borne by the buyer. Any damage suffered by the product during shipment of the return will be the responsibility of the buyer and will not be covered by the warranty. In no case will unauthorized returns be accepted. This warranty does not affect the purchaser's legal rights. HYCON S.r.l. reserves the right to refuse any warranty request.

The acceptance of the products by the carrier or anyone else in charge of the shipping is the proof of the good condition of the packaging and any liability of HYCON s.r.l. in this regard ceases upon delivery.

The Buyer is also required to check upon arrival that the products are in conformity with the order and to verify the goods immediately after delivery and in any case before it is in any way used or otherwise altered. In the absence of these checks the goods are considered accepted.

## **DELIVERY**

The products ordered by the purchaser according to these conditions of sale will be delivered to the address indicated by the purchaser at the time of the order. In case of incorrect, incomplete or unclear information about the address provided, to the customer will be notified by e-mail, when possible, to acquire the correct data. Hycon S.r.l. is not responsible for the non-delivery or for any delays due to incorrect shipping addresses, communications sent to incorrect e-mail addresses and for the customer's failure to read these emails. Any other shipping cost that the courier will have to bear as well as a second shipment will be charged to the buyer. Hycon srl reserves the right to retain the goods until the balance of shipping costs.

Unless otherwise agreed, the goods are sold ex works. The transport, although organized by Hycon s.r.l. on request or in the interest of the buyer, is not the responsibility of Hycon srl. When Hycon S.r.l. entrusts the shipment to the courier, the customer is notified by an e-mail. This e-mail contains

all the details in relation to the delivery: tracking number of the shipment with relative link to the site of the courier (if available).

Hycon S.r.l. is not responsible for delays in delivery due to unforeseeable circumstances or independent of its will, such as all cases of force majeure and similar events as well as delays in delivery by suppliers for any reason.

We recommend that you check the box thoroughly before signing. Before opening the box check if it is damaged in any way that could compromise its contents. Damaged boxes must not be accepted. Boxes with visible dents or scratches should be accepted with reserve or not accepted at all. If you suspect that your content may be damaged, contact the delivery service immediately to file a complaint and send us an email to [support@hycon.bike](mailto:support@hycon.bike) within 24 hours.

Any additional shipping costs, taxes or duties for shipments outside the EU, levy or tax imposed or charged on the goods and their transport are charged to the customer and will be calculated and communicated by the courier or customs offices during import and according to the country of dispatch.

These costs are the user's responsibility and will be payable locally and will be required by the courier on behalf of your local customs office. In the event that for any reason the goods will be returned to us any outstanding customs fees will be deducted from any refund.

## **WITHDRAWAL AND RETURNS**

The right of withdrawal can only be exercised by natural persons. You have the right to withdraw from the distance contract the "consumer" referred to in art. 3 of the Consumer Code, that is, the natural person who buys products for purposes not related to his professional activity. The right of withdrawal does not apply, therefore, in the case of purchases made by companies and professionals, invoiced with VAT. The consumer has the right, recognized by Legislative Decree 206/05, to exercise the right of withdrawal from the Purchase Contract, for any reason, without explanations and without any penalty, with the following procedures specified within 14 working days of receipt of the goods purchased and provided that the product has not been used. The communication must be sent by email to [support@hycon.bike](mailto:support@hycon.bike) within the above deadline. Such communication must clearly indicate the will to withdraw from the purchase of the products that must be identified with precision, and to it must be attached a copy of the invoice. The return of the goods must take place within 14 days from the date on which the Customer has communicated his decision to withdraw. This deadline is considered respected if the Customer ship or returns the products before the expiration of 14 days. The Customer may return the products by delivering them to the address provided by HYCON s.r.l. All payments made except for transport and insurance costs will be

refunded to the Customer within 14 days of knowledge of the notice of withdrawal. The transport costs related to the return of the products subject to withdrawal are borne by the Customer and the return is under his complete responsibility. HYCON s.r.l. reserves the right to withhold the refund until the arrival of the marches and the complete check of its integrity. Upon receipt of the goods and after verification of their integrity, HYCON S.r.l. will refund the amount received for the sole purchase of the products and not the transport costs of the return that are fully borne by the Customer, reserving any compensation for damages found on the products. If the returned product has been used, it has defects, even small, found at the time of return, that are attributable to the customer or the transport or a wrong packaging made by the customer, the responsibility is in any case attributed to the buyer and HYCON S.r.l. reserves the right to refuse the right of withdrawal. The return of the product will be at the purchaser's expense. The purchaser will also be charged for a new packaging. Hycon also reserves the right, at its sole discretion, to withhold sums to compensate for damaged or used products subject to the right of withdrawal. The refund of the sums collected by HYCON s.r.l. for the purchase of the products will be made by bank transfer with current currency to the current account provided by the Customer. We recommend that you insure the return shipment. HYCON s.r.l., in fact, is not in any way responsible for theft, loss or damage of returns shipments. Shipments will not be accepted at the expense of HYCON s.r.l. In this case, the package will be rejected to the sender and the shipments (return) will be fully charged to the Buyer. Before returning the goods, the Customer must ensure that the returned products are intact and in normal condition. The handling and packaging necessary for the shipment will all be borne by the Buyer. In case of damage during the return transport, the withdrawal request will be cancelled and HYCON s.r.l. will send notice to allow the Buyer to make a claim against the courier and ask for a refund. If the right of withdrawal is exercised beyond the period provided for by art.64 D. Lgs n.296/2005 the HYCON S.r.l. will reject the good to the Customer by charging him again the costs of transport and delivery.

THANK YOU  
Enjoy your ride!

**Matteo Avaltroni**  
Chief Executive Officer HYCON srl

Join the Community!!!

Instagram: hycon.bike *#hyconbike*  
Facebook.com: hycon.ebikes

If you need help go to [www.hycon.bike](http://www.hycon.bike) in “support” section  
or write to support@hycon.bike

HYCON srl, via Brodolini 77, 60030 Serra de' Conti – An - Italy  
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