



RAEVOLT

Cruiser



THE RAYVOLUTION

The Rayvolt® philosophy is to develop and promote alternative transportation by offering our riders a clean - high tech and stylish way to commute.

The Rayvolt name is born from the sun [RAY] and the electrical unit [VOLT] which when integrated enable an electrical 'Revolution' or 'Rayvolution'

The Rayvolt ride delivers an energising experience regardless of the direction or purpose you choose.



IT'S TIME TO BREAK THE CHAINS AND
FEEL THE FREEDOM
OF ALTERNATIVE COMMUTING
WITH STYLE AND PERFORMANCE
[#jointherayvolution](#)

STORY

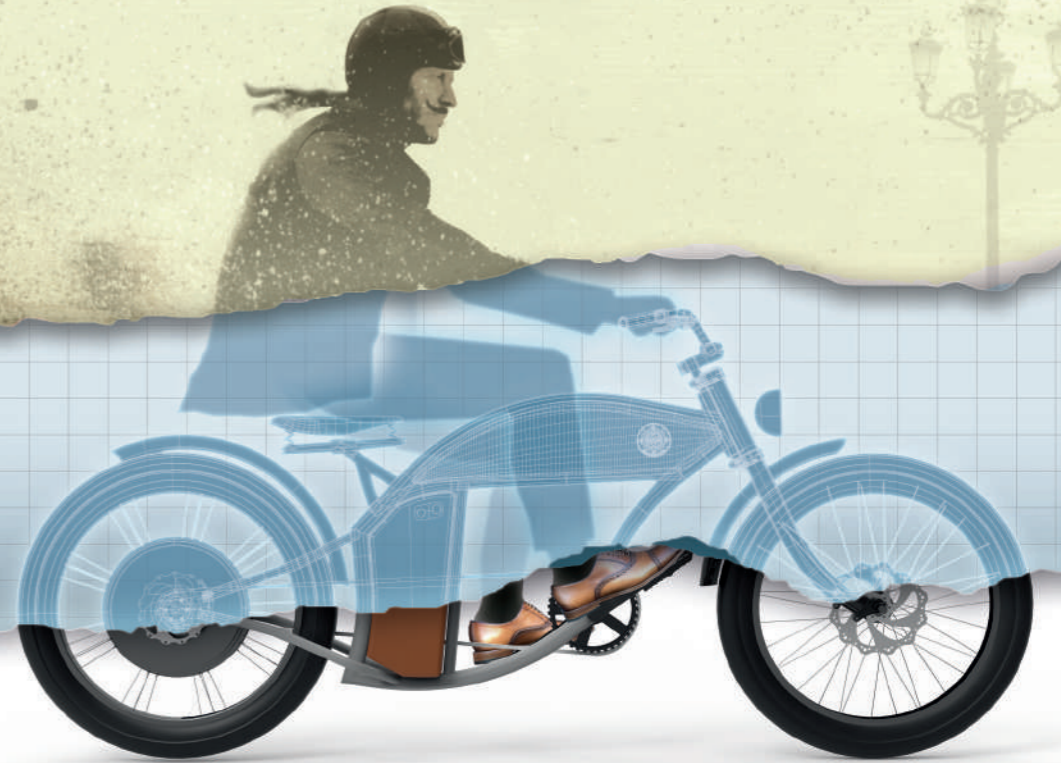
Fossil fuel industry
has taken advantage
of humanity for decades
and has been in the
forefront
of the biggest conflict
in mankind's history.
Our dependence has
converted us to solely
rely on their outdated
technologies.
and pushed all industries and
political parties towards a world
which we are ashamed
to leave our
children



YESTERDAY'S
CHARM

TOMORROW'S
TECHNOLOGY

today's
Solution



YESTERDAY'S CHARM

TOMORROW'S TECHNOLOGY

TODAY'S SOLUTION

TIMELESS DESIGN

Commuting in style is our second focus just as being energy efficient does not have to mean going back to the stone age.

THE RAYVOLT® DESIGN
ALIGNS A CLASSIC VINTAGE LOOK
WITH CUTTING EDGE TECHNOLOGY
CREATING A TIMELESS VEHICLE
FULL OF CHARACTER

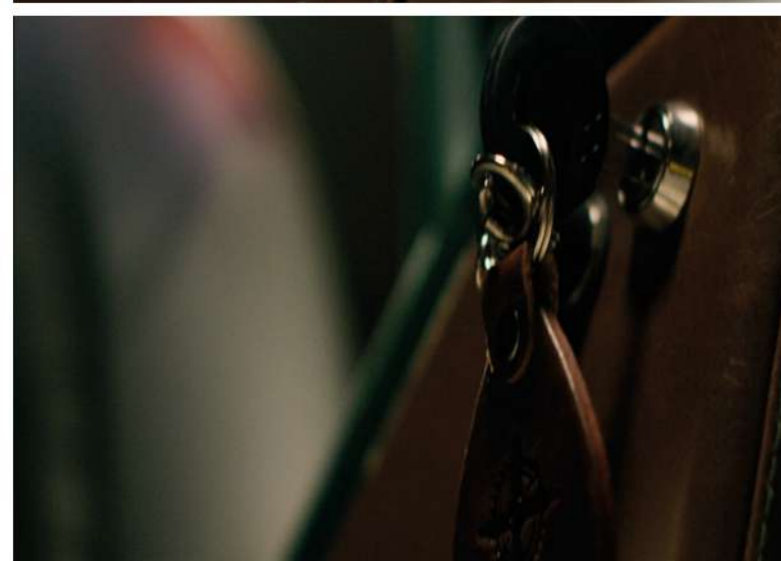


YESTERDAY'S CHARM

Andrew Sawitzki-Pedafiero



YESTERDAY'S CHARM



YESTERDAY'S CHARM

TOMORROW'S TECHNOLOGY

EIVA

The Eiva® is a Rayvolt's developed software to control, customize and monitor your Rayvolt bike.

An Eiva® computer can be purchased and secured mounted to the handlebars, ready to go whenever you are. The software can also be downloaded for use on an existing Android or iPhone.



1. Display 360°

Monitor speed, battery state, MPH/KM Run & essential bike specs

2. Bluetooth bike status

Monitor the connection between the bike and Eiva®

3. iPas Monitoring

Adjust your pedal assistance here

4. Settings

Advanced configurations

Also **Technical support chat** (see more details in the next page)

5. Music

Play your music, your way.

6. Maps

GPS access

7. Information

Display Help



EIVA  
App
Available for iOS & Android

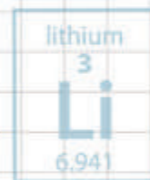
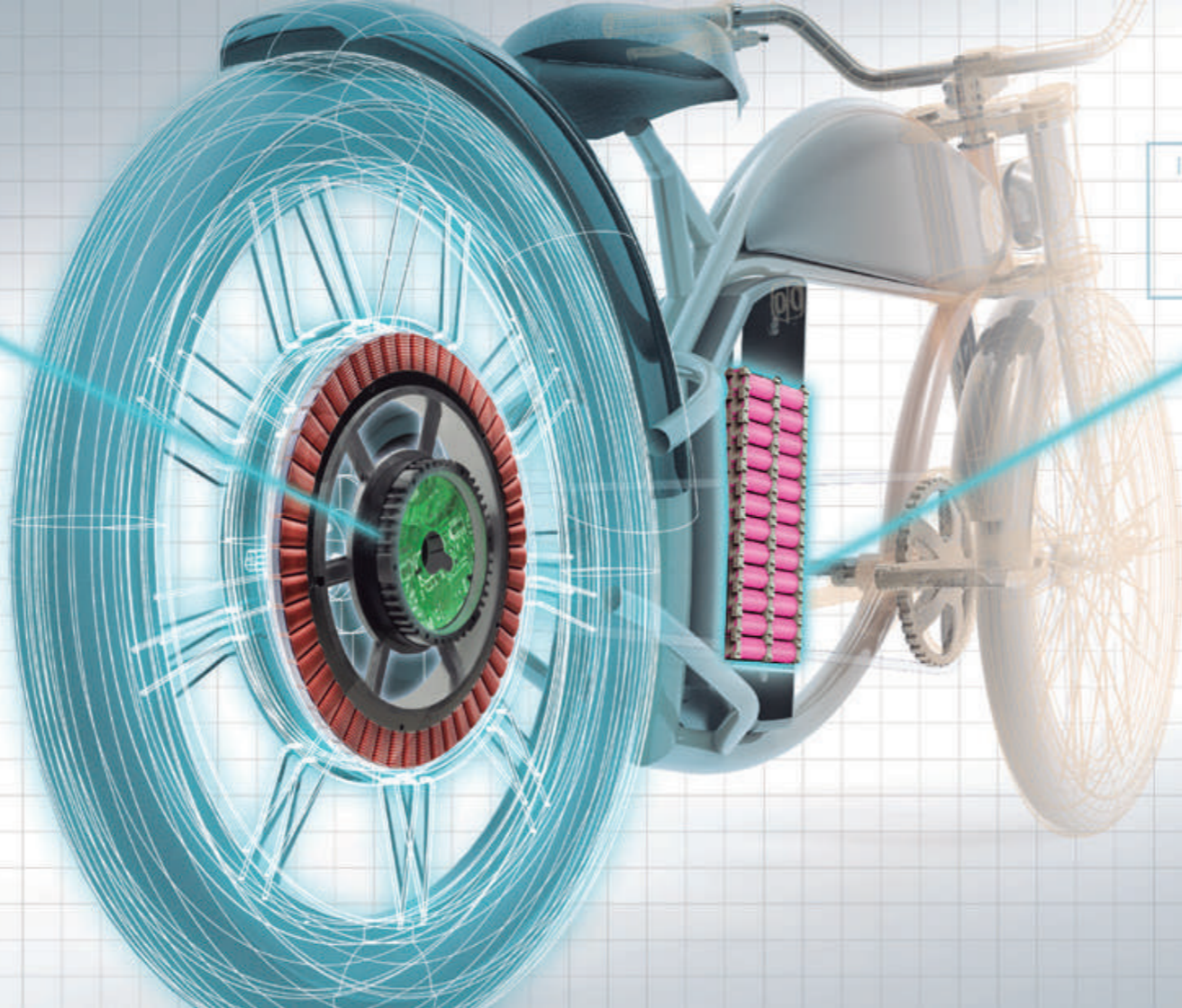
THE MOTOR

Rayvolt hubs are a very complex brushless 3 phase dc motor comprising of 48 different copper coils and magnets that are placed on the outermost perimeter of the motor for the best possible torque.

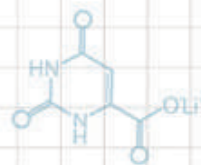
The built-in controller receives heat and position data from the coils and within one millisecond computes where to put the next load.

Such accuracy produces a Pure Sine Wave (PSW) current, offering unmatched ride comfort:

- More Acceleration
- More Torque
- More Response
- Less Noise
- Less Vibration
- Less Consumption



OUR BATTERIES



At the core of any electric vehicle, its performance and life expectancy are directly linked to the type of cell used.

The capacity of the battery pack also depends on the amount of cells used. Rayvolt uses 13 cells in a series to reach a nominal voltage of 48V. At peak voltage, a full charge of 54.6V gives incredible power.

We use a minimum of 4 cells in parallel (52 cells in total) or 8 cells in parallel (104 Cells in total).

This gives an unmatched capacity of 550Wh and 1100Wh - most of the industry uses 300 to 360Wh.

Battery quality is linked to the cells used and also the way it is packed. Using a state-of-the-art battery management system in our packs, each cell is connected to it before delivering the charge. This high-tech design balances the charge between each individual cell and can cut the connection in case of a short circuit. This ensures best possible performance while making the battery safer.

SMART FEATURES



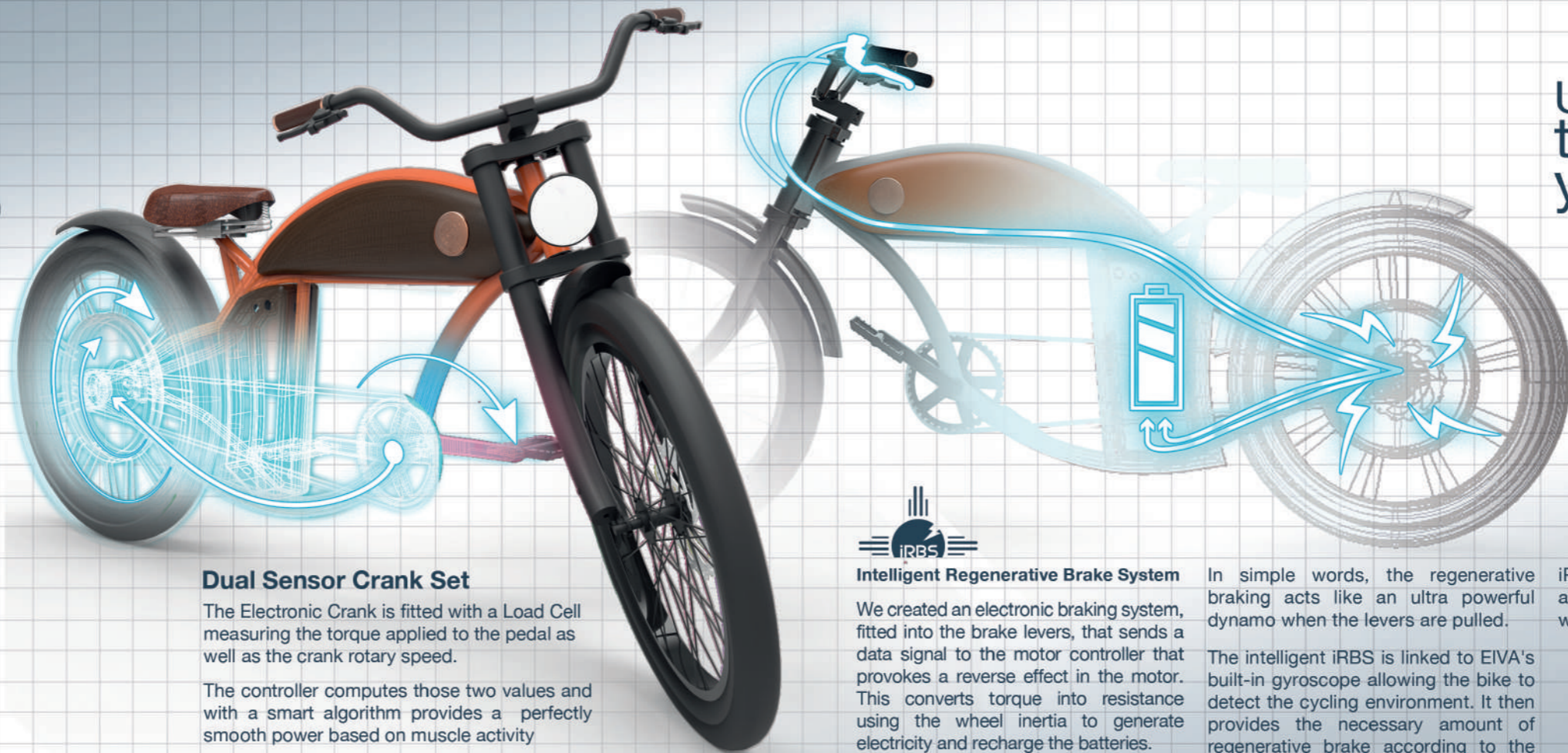
AI adapts to cycling environment⁺
with
Gyrosensor



Intelligent Pedal Assist
with multiple choices

Power assistance with
gyroscope hill detection

Motor aid self adjusts



Use bike inertia
to **recharge**
your battery

Dual Sensor Crank Set

The Electronic Crank is fitted with a Load Cell measuring the torque applied to the pedal as well as the crank rotary speed.

The controller computes those two values and with a smart algorithm provides a perfectly smooth power based on muscle activity

A Real Bionic Sensation !



Intelligent Regenerative Brake System

We created an electronic braking system, fitted into the brake levers, that sends a data signal to the motor controller that provokes a reverse effect in the motor. This converts torque into resistance using the wheel inertia to generate electricity and recharge the batteries.

In simple words, the regenerative braking acts like an ultra powerful dynamo when the levers are pulled.

The intelligent iRBS is linked to EIVA's built-in gyroscope allowing the bike to detect the cycling environment. It then provides the necessary amount of regenerative brake according to the angle of the hill.

iRBS paired with the cloud-based iTS allows you to remotely lock your rear wheel.



GPS



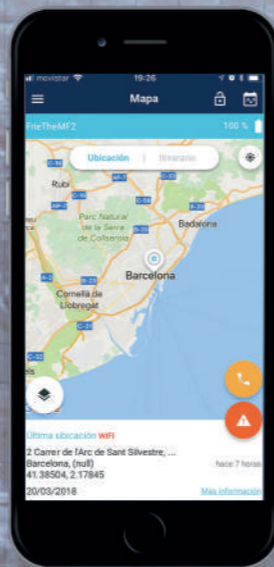
WIFI



BEACON



IoT



Intelligent Tracking System (ITS)

Using the Intelligent Tracking System (ITS), you can check your bike's location in real time from your mobile device, anywhere in the world.

The ITS IoT Technology uses GPS, GSM and surrounding Wifi IPs to track the bike's location.

When the bike is within 20 meter range, the ITS system uses bluetooth for short-range communication, that will display distance as a percentage as you approach the bike's pinpointed location.

Technical support Cloud based



Having issues configuring my iPAS



Please allow me to connect to your device and tune it



Sure, fantastic



Done, your iPAS was disabled in settings, I turned it on for you



Works great now! Thanks

Live Support directly from your EVA device

Need assistance?

Chat Live with our dedicated Rayvolt Technical Support Team directly from your connected EVA device.

Remote access allows the Technical Support Team to connect to your Rayvolt for help with settings or troubleshooting.

today's

Solution

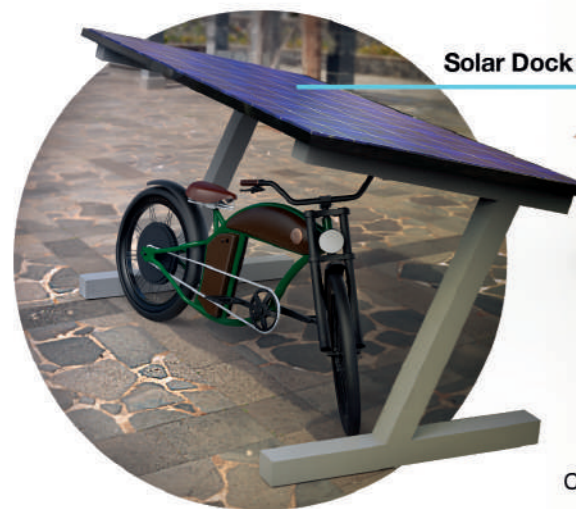


With a simple touch of the **EIVA** App
YOU CAN SWITCH
from **25 km/h pedal assisted** vehicle
to a full powered **45 km/h Moped***

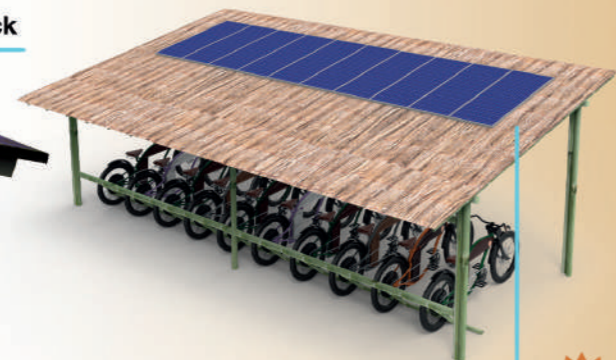
PEDAL MOPED

Assisted
Bike

*This option may need a
licence plate in your country



Solar Dock



Solar Docking station
10 Bikes Bamboo Solar Park
Custom design 100% ECO Solar charging parking.
Designed and built for starboard



Solar

As protecting the environment is our primary goal, we offer **Solar Charging Bike Covers** at factory cost in order to encourage customers to go carbon neutral. Commuting with a Rayvolt electric bicycle is 100% environmentally friendly as it produces zero emissions. Our state of the art technology powers the bikes with maximum efficiency.



Foldable Solar Charger
std Battery : 15% Charge in 1 hour*
dual Battery : 7% Charge in 1 hour*

* Depends on solar condition

CHARGE AND RANGE

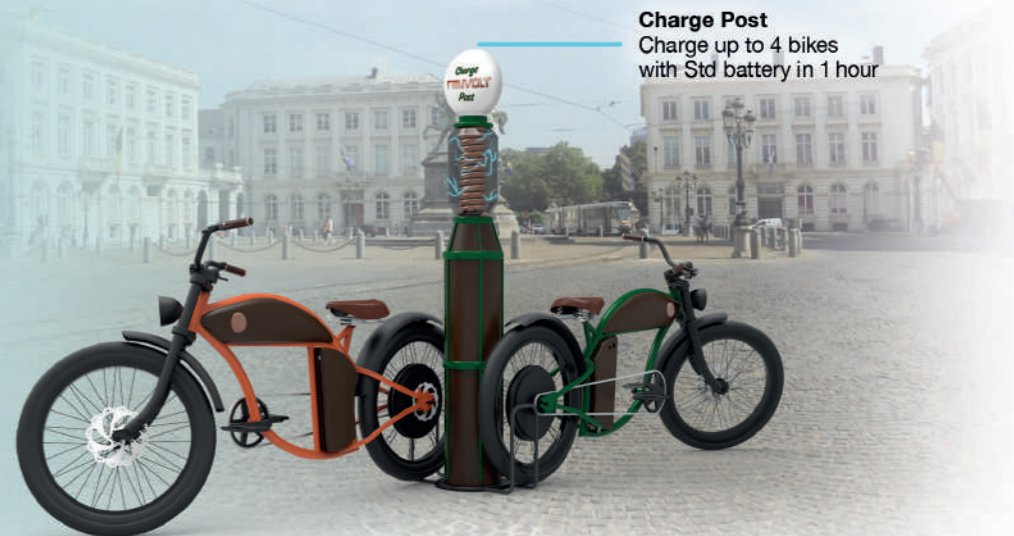
powered by...

Electricity

Even if EV are a lot cleaner than their combustion counterpart, keep in mind that grid electricity is never 100% clean. Nowadays maybe electricity companies offer renewable energy (Solar, we encourage you to switch to one of those companies. If your electricity is generated by coil, please consider our solar options.

Range Epac (25km/h)
Standard 60km
Dual 120km

Range Moped (45km/h)
Standard 40km
Dual 80km



Charge Post
Charge up to 4 bikes
with Std battery in 1 hour

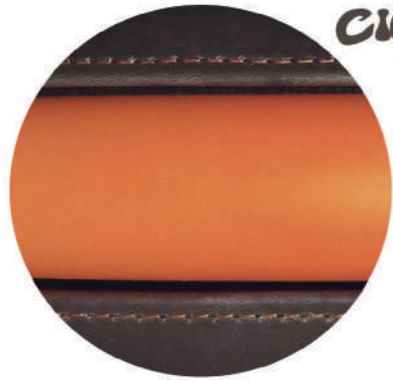


**Rayvolt
Li-ion Fast Charger**
Output 54.6V 10A
Std Battery: 1 hour charge
Dual Battery: 2 hour charge



**Rayvolt
Li-ion Charger Standard**
Output 54.6V 4A
Std Battery: 3 hours charge
Dual Battery: 6 hours charge

For indoor use only. Do not open High Voltage inside machine.



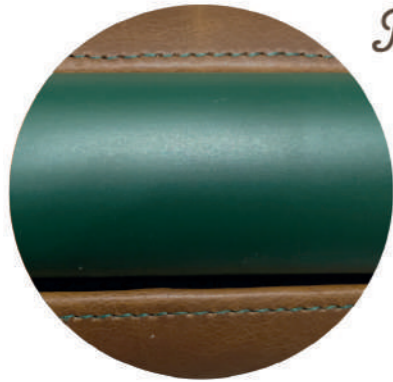
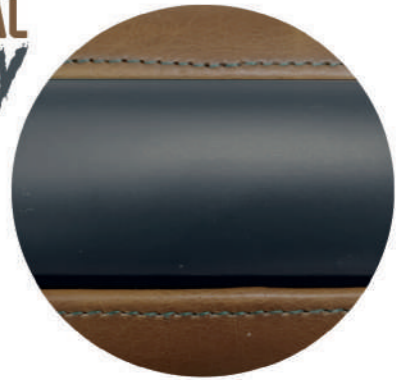
Clock Work
Orange



RIDE
CUSTOM
COLORS AND TRIMS



GUN METAL
GREY



British Racing
Green



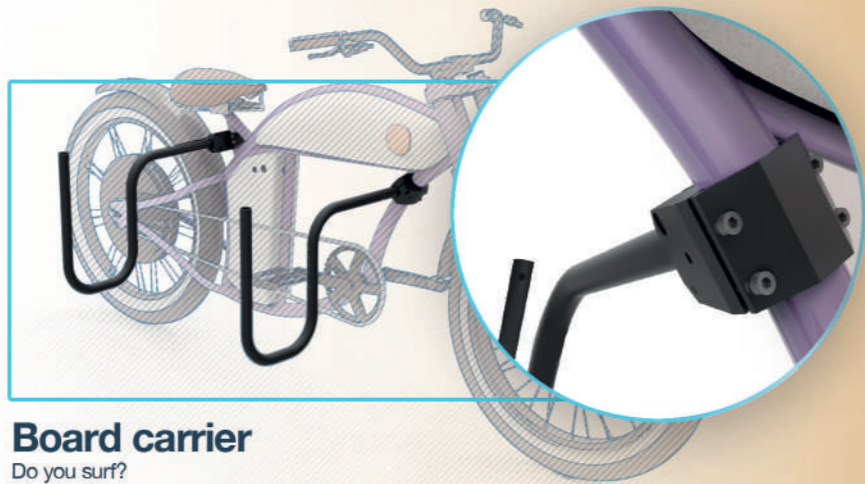
Get your
CUSTOM COLOR



ORIGINAL ACCESORIES & PARTS



Rear pack
with extra saddle



Board carrier
Do you surf?





Cruzer

RAYVOLT

Bike

Frame Material
Carbon Steel

- Medium w/ 24" wheel
24 Kg weight.
- Large w/ 26" wheel
34 Kg weight.

Battery cover
Composite shell covered by leather

Brakes
Rayvolt oil disk brakes with iRBS

Chain
KMC extralong silver chain

Crankset
Rayvolt two piece crankset

Pedals
Flat Rayvolt pedals

Tires

- 24X3.0 for 24"
- 26x3.0 for 26"

Spokes

13G for the back HUB
Regular 26" for the front tire.

Rims

Double wall 40 mm wide

Saddle

Vintage spring and PU leather

Speed control

- PAS (Pedal Assist System)
- Thumb Throttle
- LED Light kit:
Headlight, Red Backlight
- E-Drive system: Rayvolt EIVA®

Motor

- Rayvolt SMART HUB
200W - 400W. (25km/h, 15,5 Mile/h)
- Rayvolt POWER HUB
250W - 1000W. (43 km/h, 27 Mile/h)

Battery

Both life of 1000 Cycles

- SAMSUNG Li-ion Dual 48V-21A
- SAMSUNG Li-ion 48V-10.5A

Charger

- Li-Ion Smart Charger
54V and 4 A. 2h30' charge time
- Smart Fast Charger
54V and 10 A. 1h charge time
- Foldable Solar Charger
54V and 2 A. 4h charge time

JOIN
THE
RAY
VOLUTION
ON



RAYVOLT

