

TECHNICAL INTRODUCTION
REV.01

CERTECO 10 FAX

CENTO10 HY

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WILIERPEDIA 2020

ROAD COLLECTION

THE FUTURE OF E-ROADS

Cento10 Hybrid is the racing bicycle with pedal assist that sets a new, very high, standard for the category. There are so many aspects that make it unique on the market: aerodynamics, total integration, lightness and greater riding safety, just to name a few.

With the Cento1 Hybrid, we already reached a high level of quality in pedal assist racing bikes. Now, with the Cento10 version, we reach heights of construction quality that were unimaginable until a short while ago.

You can redefine the limits of your own experience on a racing bike with with a design and level of integration that make it even more similar than ever to a traditional racing bike.

CENTO10 HY



LIGHTWEIGHT

Although weight was not an issue in the e-bike world until a short time ago, lightness has become a value determining product quality, performance and usability. With Cento10 Hybrid, we have decreased the frame's weight by 7%*. Integration, with the integrated monocoque handlebar Alabarda and a lightweight frame that weigh in at just 10,5 kg in the top configuration.

With user, route and use being equal, we can save 4,5 % of the battery charge. This major saving further expands the horizons of Cento10 Hybrid riders.

* compared with a Cento1 Hybrid.



TOTAL INTEGRATION

In common with Wilier's other road-racing bikes, all of the Cento10 Hybrid's cables are integrated inside the frame. We chose this solution not only for its sleeker looks, but also to improve performance. In addition to hiding the cables inside the Alabarda handlebar and the frame, we also improved aerodynamics thanks to the tubes we used on the Cento10 Hybrid.

Smaller volumes, smaller surface area exposed to the air and truncated tail profiles improve aerodynamics by 8 %, with respect to the Cento1 Hybrid.



ONBOARD INTELLIGENCE

The Cento10 Hybrid's on-board intelligence allows riders to determine and overcome their limits, as it assists the cyclist at just the right time. There are several options for using and managing the system. The simplest is using only the iWoc controller which turns the system on and off, and allows the rider to select the desired assistance level simply by pressing the backlit button.

Riders wanting a higher level of interaction with the system can download the EBIKEMOTION app from AppStore or PlayStore to discover the heart of the control system. Version X35+ of the Ebikemotion system uses the ANT+ communication protocol, so it can communicate with the most popular Garmin and Polar devices.



CENTO10HY**THE NEW CONFIGURATION OF THE BOTTOM BRACKET**

We also studied and improved the bottom bracket to achieve that look typical of a traditional racing bike.

The Q Factor and the size of the crankset are identical to those of a Cento10PRO. Thanks to the new configuration, we were able to improve the tightness of the charging outlet. Compared to the previous version, the Cento10 Hybrid's charging outlet is inclined by 60° from the top tube.

So, if it rains or if water gets onto the charging outlet, it flows away without affecting the electrical system.

**INCREASED RIDING SAFETY**

We significantly improved riding safety with iWoc's new button configuration. The button is now installed with a support on the handlebar, allowing riders to interact with the Ebikemotion system without having to remove their hands from the handlebar. On the Cento10 Hybrid, riders can both select the assistance level selection and check the battery charge while keeping both hands on the top of the handlebar. On previous models, they had to remove their hand from the handlebar and look down at the button on the top tube.

CENTO 10 HY

COLOR	IRIDE BRONZE
FINISH	GLOSSY
COLOR CODE	Y7



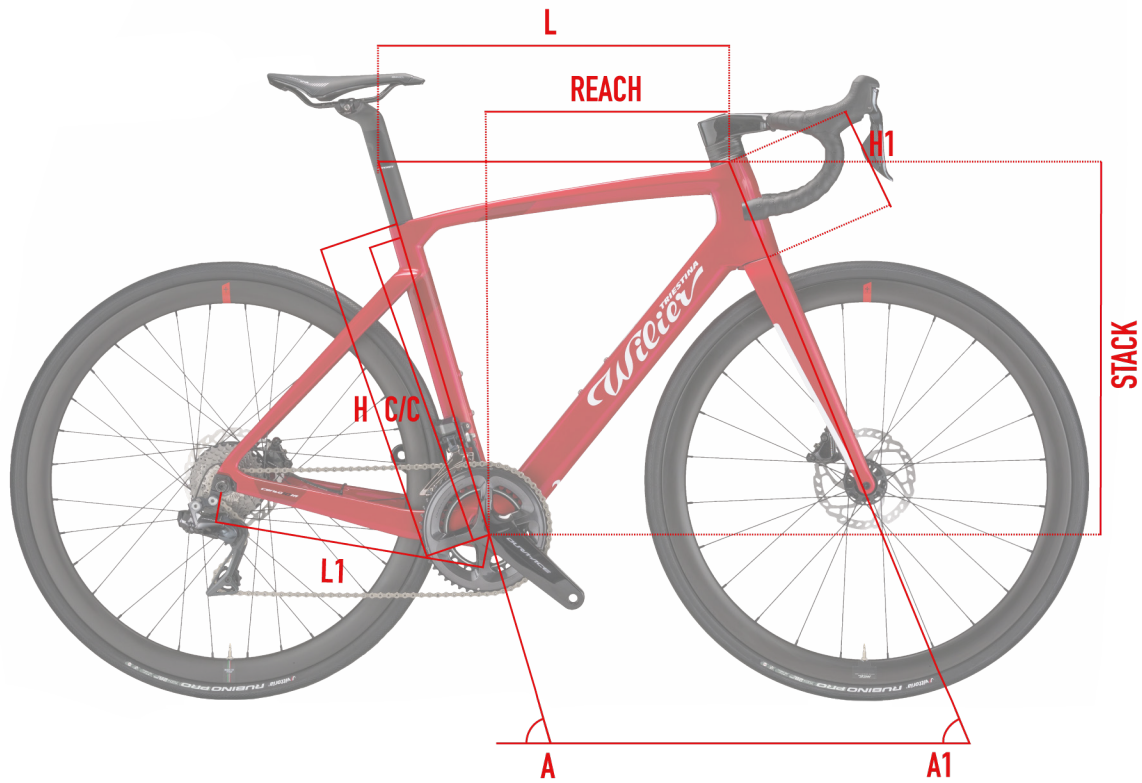
COLOR	RED
FINISH	GLOSSY
COLOR CODE	Y6



COLOR	BLACK / GREY / RED
FINISH	GLOSSY
COLOR CODE	Y5



SIZES AND GEOMETRIES



SIZE	C/C	L	H	A	H1	L1	A1	REACH	STACK	WHEELBASE
	[cm]	[cm]	[cm]	[°]	[mm]	[cm]	[°]	[mm]	[mm]	[mm]
S	44	52.7	46	74.5	136	40.8	71.5	374	546	984
M	47	54.2	49	74	157	40.9	72	379	566	992
L	50	55.9	52	73.5	176	41.1	72.5	384	586	1000
XL	53	57.5	55	73	196	41.2	72.5	389	604	1013

FRAME KEYPOINTS



FRAME DETAILS

HEADTUBE	1"1/4 – 1"1/4
UPPER/LOWER BEARING	FSA MR137
FRONT FORK O.L.D.	100 MM (QR type)
REAR STAYS O.L.D.	136 MM (thru axle type)
BB SHELL	SHIMANO PRESS FIT (86.5 WIDE X 41 DIAMETER)
SEAT POST	WILIER SEATPOST
SEAT COLLAR DIAMETER	CENTO10 HYBRID GEOMETRY (SAME AS CENTO10PRO)
FRONT DERAILLEUR TYPE	Brazed on

SPARE PARTS LIST

X35CHARG-EU	EBIKE X35 CHARGER WIRE FOR EUROPE
X35CHARG-US	EBIKE X35 CHARGER WIRE FOR US
X35CHARGER-C	EBIKE X35 CHARGER-C (WITHOUT WIRE)
X35CHGPNT-C	EBIKE X35 CHARGING POINT -C
X35EXBATSP1	X35 EXTERNAL BATTERY
X35LOCKNUT	EBIKE X35 MOTOR LOCK NUT
X35LOWA-KIT	EBIKE X35 MOTOR LOCK NUT + WASHERS
X35MAGNUT	EBIKE X35 MAGNET LOCK NUT
X35M1-SHIELD	EBIKE X35 SHIELD M1
X35ONE-C	EBIKE X35 ONE REMOTE -C
X35PASSENSOR-B	EBIKE X35 PAS SENSOR B
MR137	HEADSET
WTP110A-15	EXPANDER FORK
WTP110-4	RING FORK
WTP-BHIWOC	HOLDER FOR IWOC CLAMP TYPE
WTP-RDHY-D2	REAR DROPOUT
WTP-HYND-BBSHELL	SCATOLA IN PLASTICO MOVIMENTO CENTRALE
WTP-CSPACER5	SPACERS 5 mm HEIGHT
WTP-CSPACER10	SPACERS 10 mm HEIGHT
WCTC	Top cover
WCTS	Top spacer
WCKITS	WTP-CSPACER5+WTP-CSPACER10+WCTC+WCTS

FAQ

What is the maximum speed attainable in assisted mode?

The maximum speed attainable with a Cento10 Hybrid with the motor in traction is 25 km/h.

How much does the entire pedal assist system weigh?

The pedal assist system weighs 3.7 kg with the battery and electric motor. It is the lightest system currently available on the market.

How many levels of assistance does the Cento10 Hybrid have?

There are three different assistance levels that can be selected via the iWoc button on the handlebar. The assistance levels can be adjusted to your needs in the eBikemotion app (once the app has been paired to the bike, go to Settings > Motor Settings).

How much autonomy does the Cento10 Hybrid have?

Guaranteed autonomy varies depending upon a number of factors: driving style, assistance level, the user's weight, the slope of the route and pedalling ability. Testing shows the possibility of covering an uphill distance of between 1000 m and 2000 m depending on the difficulty of the route, with the battery working for more than an hour and a half.

Can the Cento10 Hybrid be used without the battery?

We do not recommend removing the battery. However, the Cento10 Hybrid can also be used in off mode.

Is it possible to increase the Cento10 Hybrid's autonomy?

Yes, by installing an optional second battery placed inside a "dummy bottle" on the seat tube of the Cento10 Hybrid. The total capacity is 500 W/h.

Do I have to wait until the battery is fully discharged before charging it?

No, Cento10 Hybrid's lithium battery can be charged at any time, because it does not have a memory effect.

How many times can I recharge the Cento10 Hybrid?

The guaranteed number of recharges to 100% capacity is 500 times. After that, recharges will decrease until the end of the cycle (equal to approximately 60%).

Can I check the battery charge level?

Yes, you can check the approximate charge level via the iWoc indicator light on the handlebar. The key to the light colour is available in the Cento10 Hybrid leaflet. If you want to know the precise value of the battery charge, connect to the Ebikemotion app.



FAQ

After how much time do I have to recharge the battery?

If the bike is not going to be used for a long period, we recommend you charge the battery at least up to 60% before storing it. If after six months, the charge level is less than 20%, we recommend charging it again up to at least 60%.

Can I use a Cento10 Hybrid in the rain?

Of course. The system is waterproof.

How can I wash the Cento10 Hybrid?

You can clean Cento10 Hybrid like any other racing bike. Do not use a pressure washer, as water could get into the motor or communication port above the central drive box. We recommend wiping it with a soft cloth and mild soap, then drying it completely before use.

Should the electrical assistance system be checked regularly?

The electrical system requires no special maintenance. To maintain maximum pedalling efficiency over time, Wilier Triestina strongly recommends regular maintenance and inspections every 12 months at an official Wilier Triestina dealer.

Is there a diagnostic tool?

Yes, the Ebikemotion app has a basic diagnostic function. Your authorised Wilier Triestina dealer has more advanced diagnostic tools.

What should I do in the event of a fault or anomaly?

If your bike should have a failure or anomaly, you can first consult the Ebikemotion app diagnostic/troubleshooting tool. If the problem persists, you will need to contact an official Wilier Triestina dealer to check the problem using advanced diagnostic tools. Any personal action different from those specified in the troubleshooting guide will void the product warranty.

Who do I contact for questions about the pedal assist system?

Contact the Wilier Triestina dealer where you purchased your bicycle or use the contact form at <https://www.wilier.com/en/contacts>

Where can I find the user manual?

A printed getting started guide is provided with the Cento10 Hybrid at the time of sale.

Can I replace the Cento10 Hybrid's cassette?

Yes, you can replace the cassette with one of the same size. Ensure you reinstall the original closure ring in the same position or the system will not function.