



# give a new **EDGE** to your riding experience

In OLI we are a **group of demanding riders** with very different approaches to eBiking.

Each one of us contributes and stimulates development. The awareness of what we wanted to achieve, started **two exciting years full of challenges**.

**We are proud of the results** and we are eager to hear rider's reaction to the performances of the **EDGE**.





# give a new **EDGE** to your riding experience



We wanted to realize a **compact** drive unit with exciting **performances**, **efficient** and **reliable**.

Quality, details, reliability and functionality have been paradigm during the development of the project.

**Silent ride** was the most challenging goal we set, but eventually we reached our target





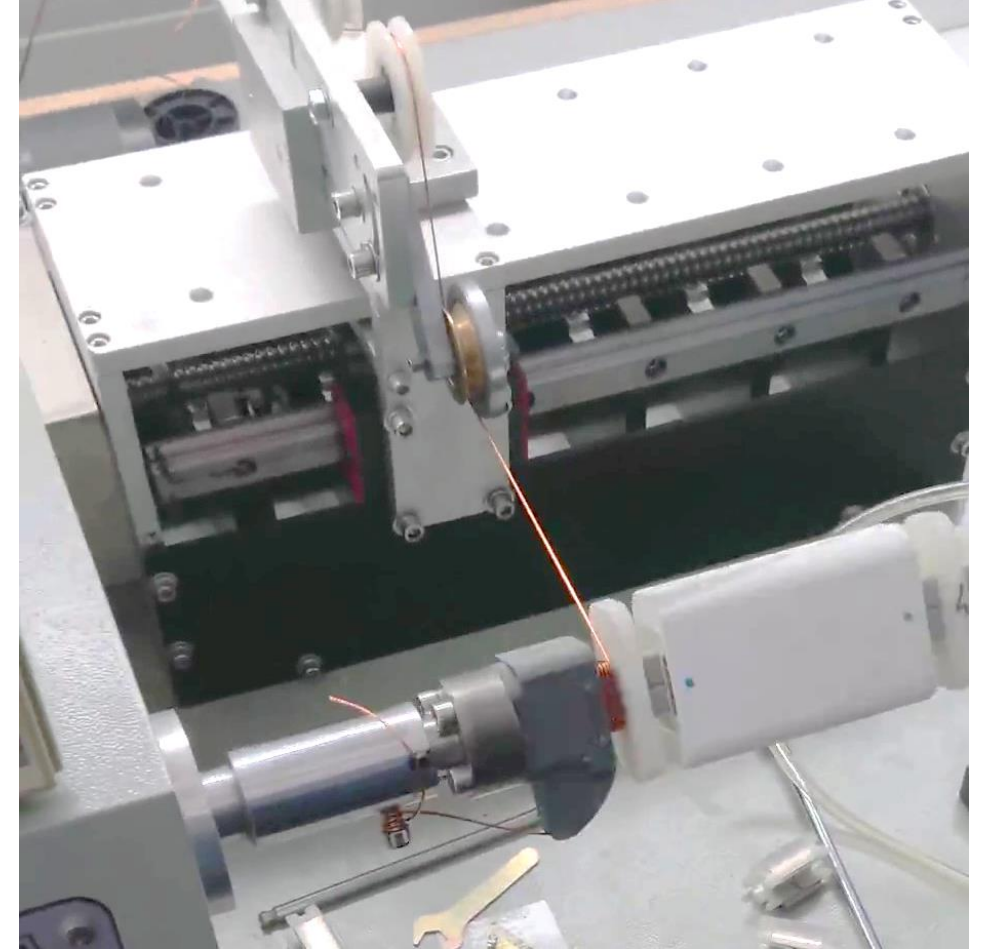
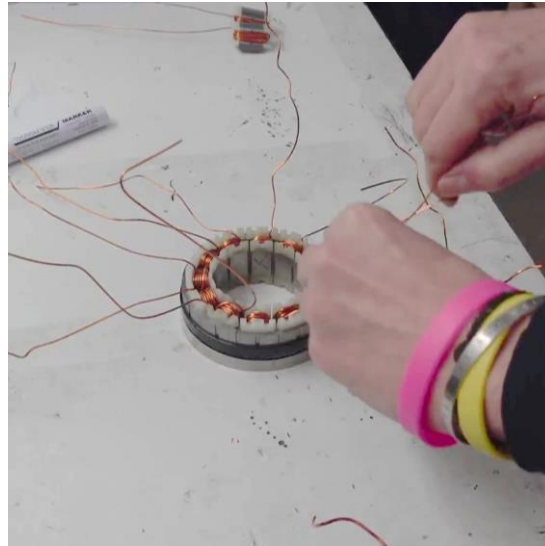
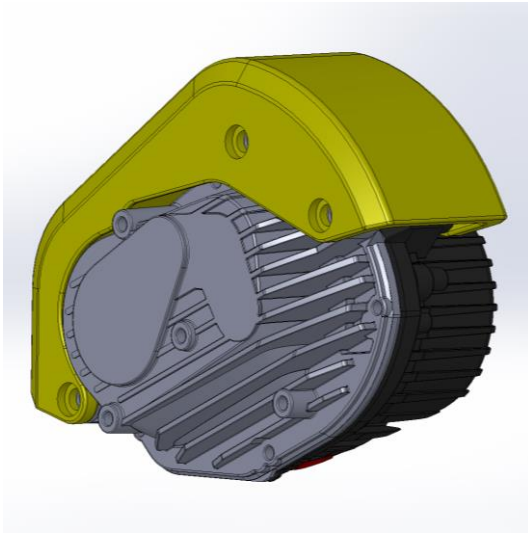
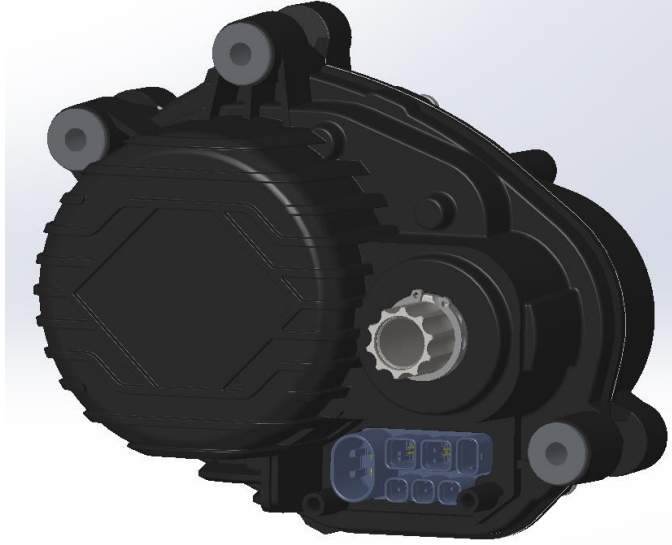
# Tunable performances

Given the **great performances** we achieved for the eMTB use, we offer a full customization program to adapt the behaviour of the EDGE to every application.

Whether you are designing a **URBAN, TREKKING or CARGO** bike, we will find **the perfect tuning** to fit your needs.

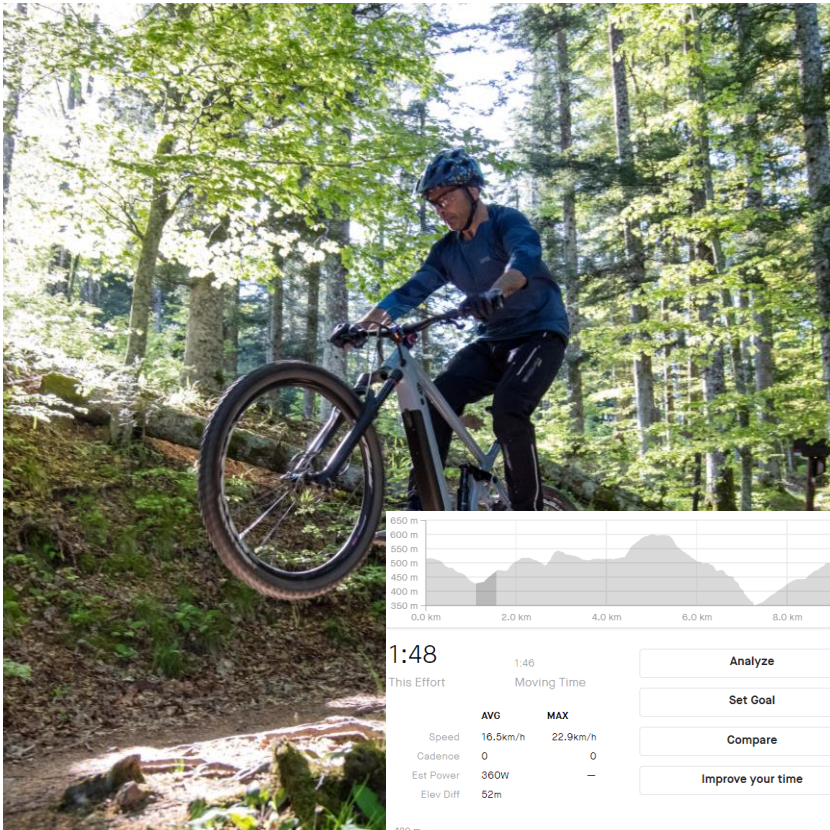


# Designing, prototyping and testing





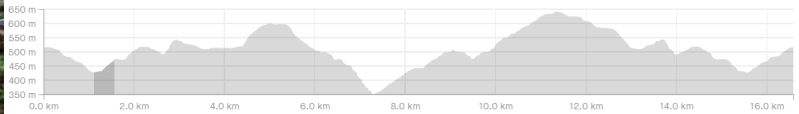
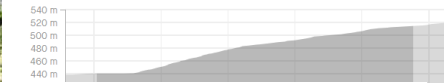
# ...then, we did a lot of R&Ding!



**2:45**  
This Effort      Moving Time

	AVG	MAX
Speed	9.7km/h	25.8km/h
Cadence	0	0
Est Power	364W	—
Elev Diff	63m	—

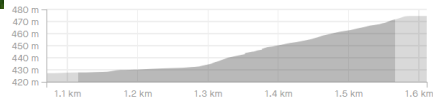
Analyze  
Set Goal  
Compare  
Improve your time



**1:48**  
This Effort      Moving Time

	AVG	MAX
Speed	16.5km/h	22.9km/h
Cadence	0	0
Est Power	360W	—
Elev Diff	52m	—

Analyze  
Set Goal  
Compare  
Improve your time



**Top 10**      My Results

**Your PR 1:48**  
- / 1

Date	Time
1 May 17, 2022	1:48
2 Feb 25, 2022	1:55
3 Apr 8, 2022	1:56
4 Mar 3, 2022	2:02
5 Feb 5, 2022	2:15
5 Feb 21, 2022	2:15
5 Feb 26, 2022	2:15
8 Sep 7, 2021	2:17
9 Feb 17, 2022	2:23
10 Feb 12, 2022	2:25

View full leaderboard



**3:02**  
This Effort      Moving Time

	AVG	MAX
Speed	12.7km/h	23.2km/h
Cadence	0	0

Analyze  
Set Goal  
Compare  
Improve your time



**Top 10**      My Results

**Your PR 2:50**  
- / 10

Date	Time
1 Feb 25, 2022	2:50
2 Apr 8, 2022	2:54
3 Mar 18, 2022	2:59
4 Feb 21, 2022	3:01
5 Feb 26, 2022	3:02
6 Mar 3, 2022	3:03
7 May 17, 2022	3:05
8 Feb 12, 2022	3:19





# Listening and testing with customers

We want to listen to your needs and fine-tune our products based on your feedbacks







# THE EDGE IN PILLS

## PERFORMANCES

- Rated power 250W
- MAX torque: 90Nm @35rpm
- MAX power: 600W @100rpm
- Up to 400% power increase

## ELECTRONICS

- 4 sided torque sensor
- Vectorial electronics
- Dynamic riding modes
- Lights management 36V
- ENVILO and GEARSSENSOR compatibility

## PHYSICAL CHARACTERISTICS

- Weight: 3.2kg
- BH gen4 or EP8 motor bracket
- Highly water and dust resistant
- ISIS crank interface
- BH chainring interface
- ISCG05 mounting points



# EDGE - Overview

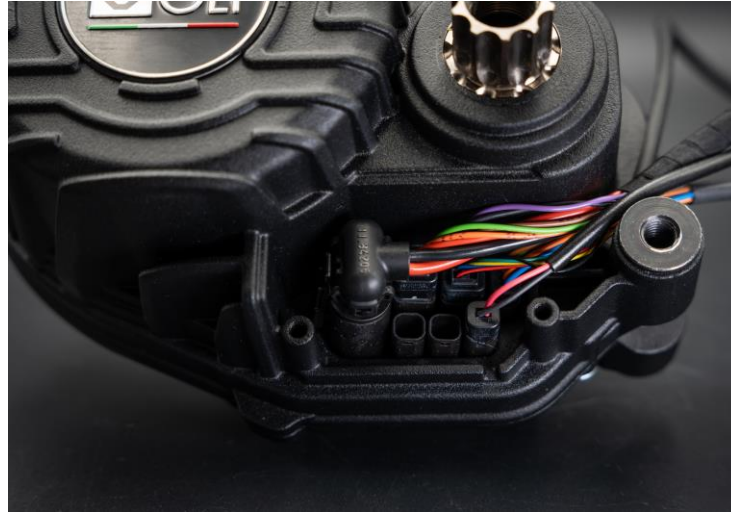


The EDGE is a **three stages architecture**, meaning there are **three gears between electric motor and pedals**. As consequence, we could **reduce the overall volume**. Perfect match with eMTB with complex frame design and advanced suspension's kinematics.

To make life easier to every brands, we **designed the mounting pattern** in order to be compatible with the two most diffused standard.

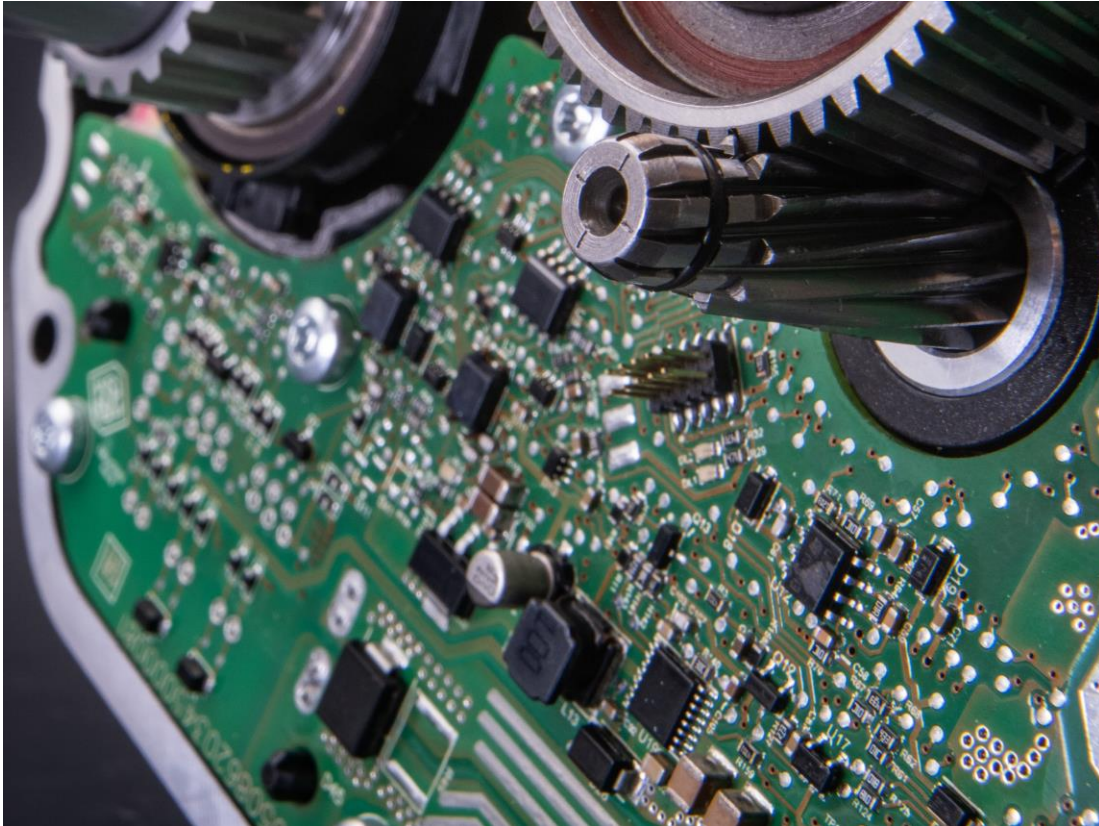


# EDGE - Details





# EDGE - Electronics



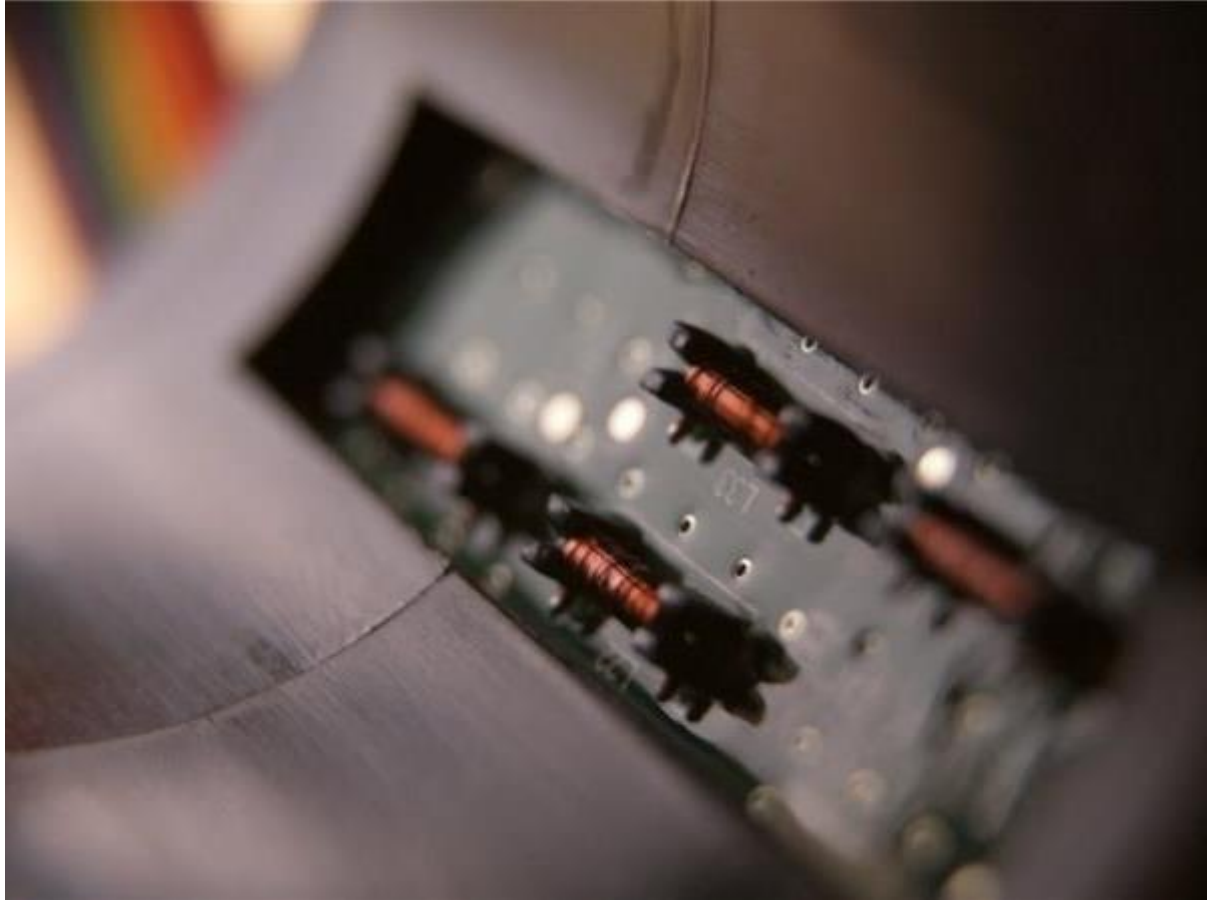
We developed the EDGE around the most sophisticated electronic management in the industry.

It is called **VECTORIAL LOGIC** and allows a super-refined control of the behaviour of the motor.

So that we can develop custom maps and configurations for every need



# EDGE – Torque sensor

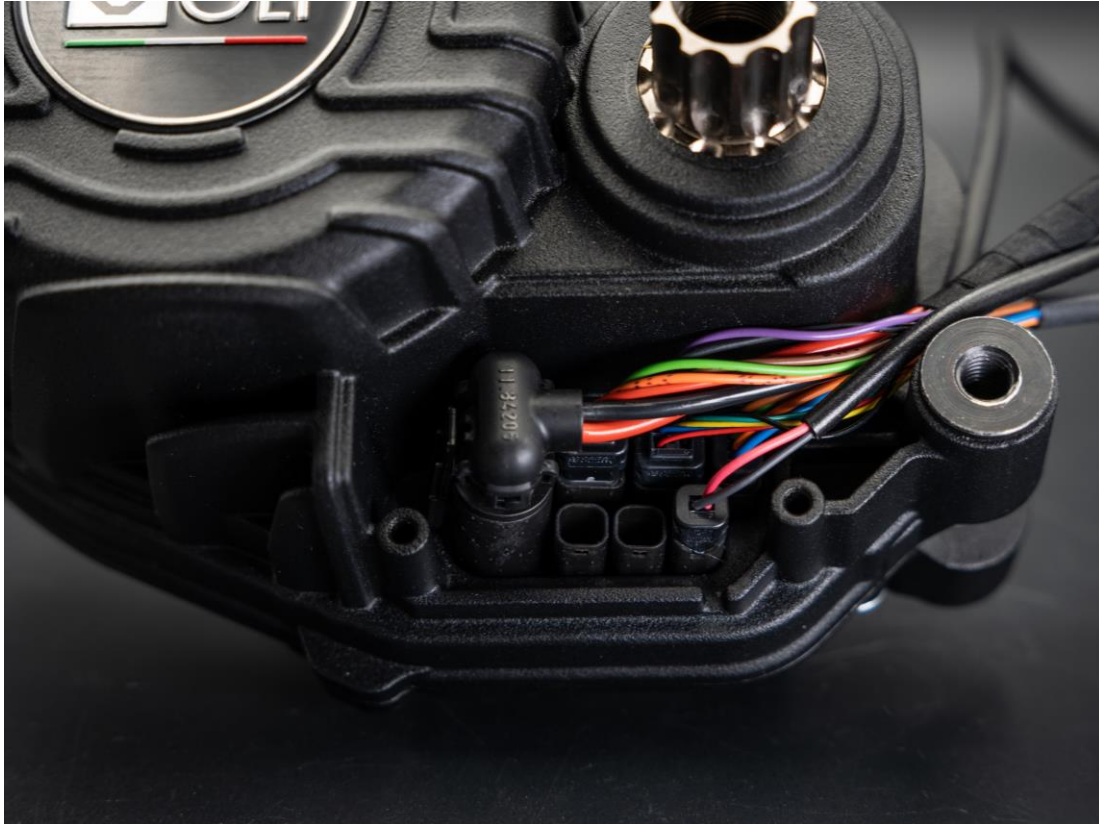


The secret behind the **smooth power delivery** and immediate reaction to rider's inputs, is our unique **torque sensor**.

It measures torque **twice as much as any other competitor**. This gives an unparalleled resolution on rider's behaviours



# EDGE - Connectors



Great attention has been given to cables and connectors.

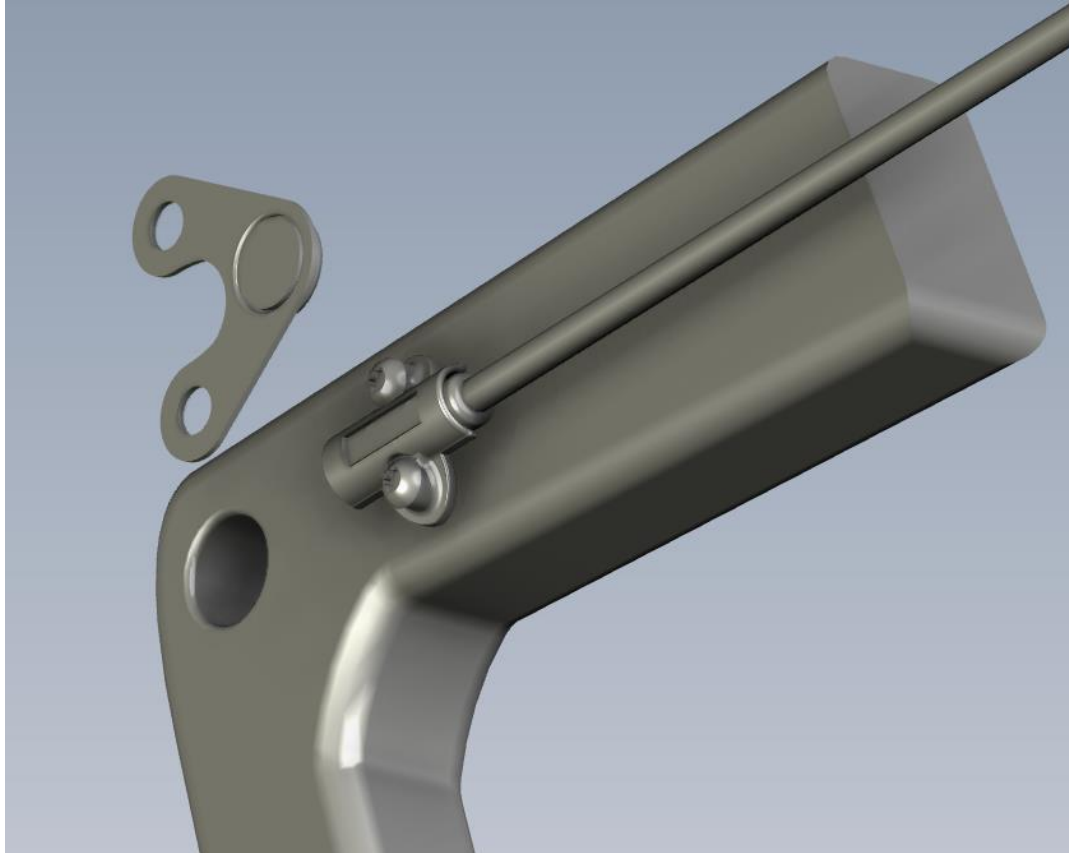
We know how important it is to have **stable and reliable plugs**. This is why all connectors are automotive-standard level.

In particular, **between battery and motor**, the connection must be extremely **solid and reliable**.

This is why we decided to design our proprietary battery connector to the motor.



# ACCESSORIES – Disc speed sensor



6,5mm head  
Fits a standard SH 18.2mm hole  
pattern  
Comes with dedicated magnet



# ACCESSORIES – Chainstay Speed Sensor



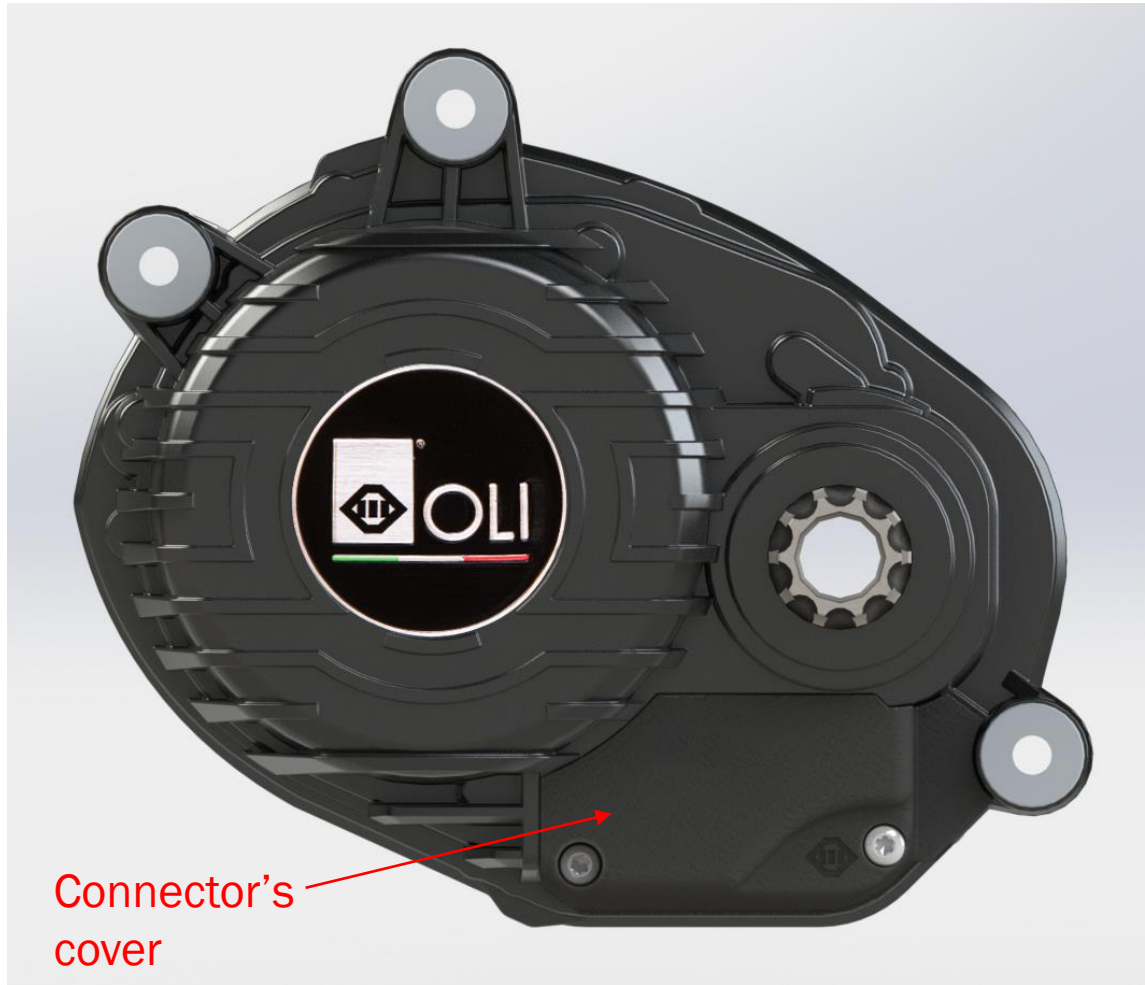
Similar design and mounting point as BH.

Easy to implement on existing frames

Comes with dedicated magnet



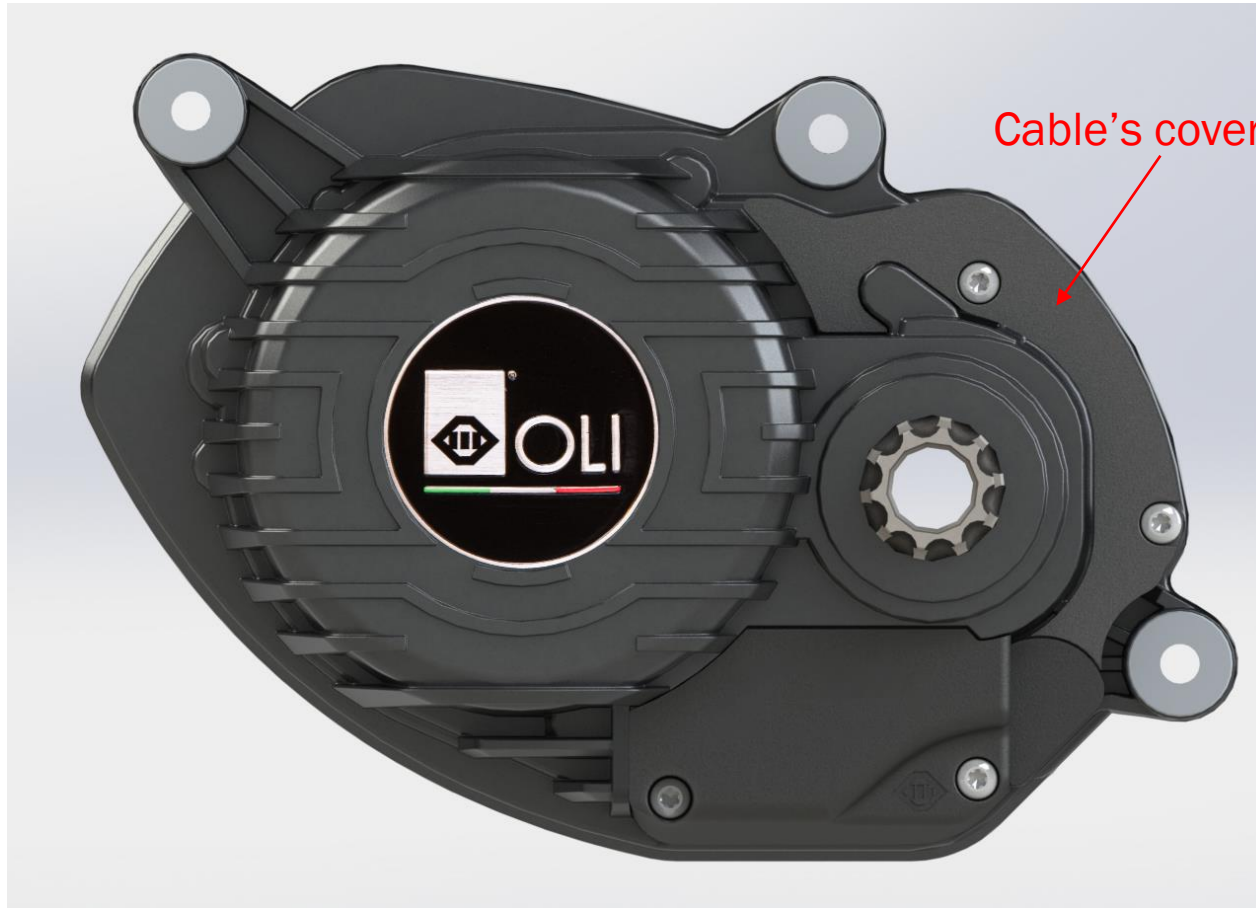
# ACCESSORIES – connector's cover



The CONNECTOR'S COVER is an accessory we designed to complete the design and protect cables. It can be used alone or integrated under a bottom motor cover.

Comes with two self-threading screws

# ACCESSORIES – Cable's Cover on SH Version



Due to the different design of the SH version, we realized a specific version of the connector's cover.

Moreover, for the EDGE-SH, a CABLE'S COVER is available to properly shield the cables on the motor's side.

This component follows the most diffused motor-bracket designs and is available as a separate part.



# CONNECTOR'S COVER - Detailing



We love details, especially when they bring advantages.

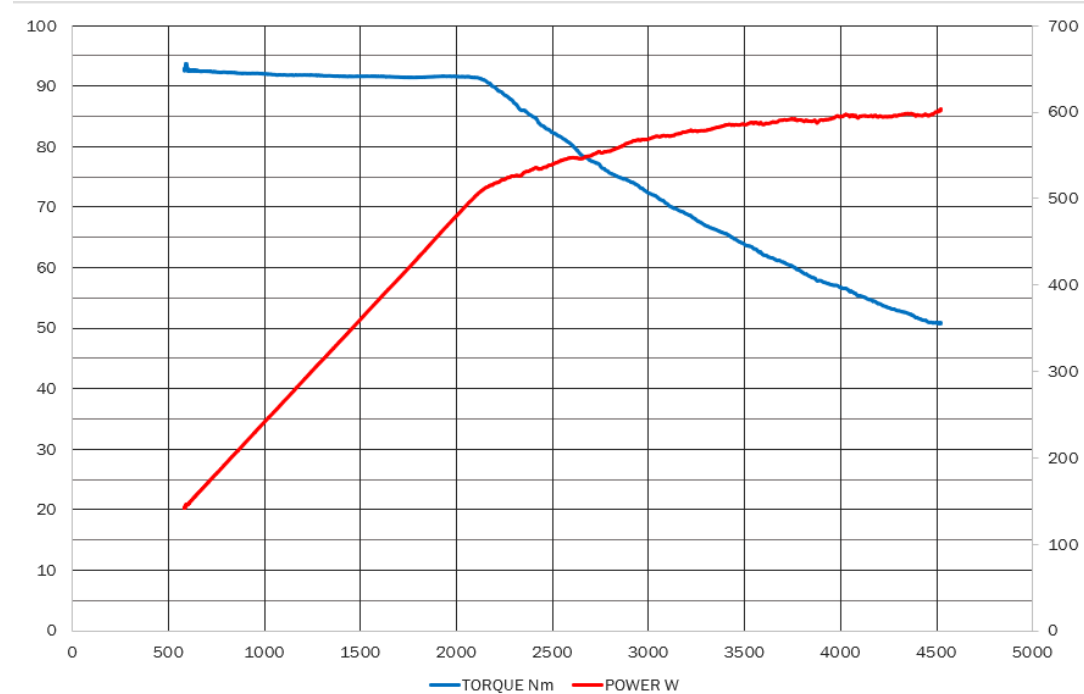
Outside the CONNECTOR'S COVER we debossed the OLI logo



Inside, you can find the connector's scheme for easy matching.

A small hole on the bottom part drains water and moisture keeping the plug area dry and clean

# EDGE – Electric motor performances

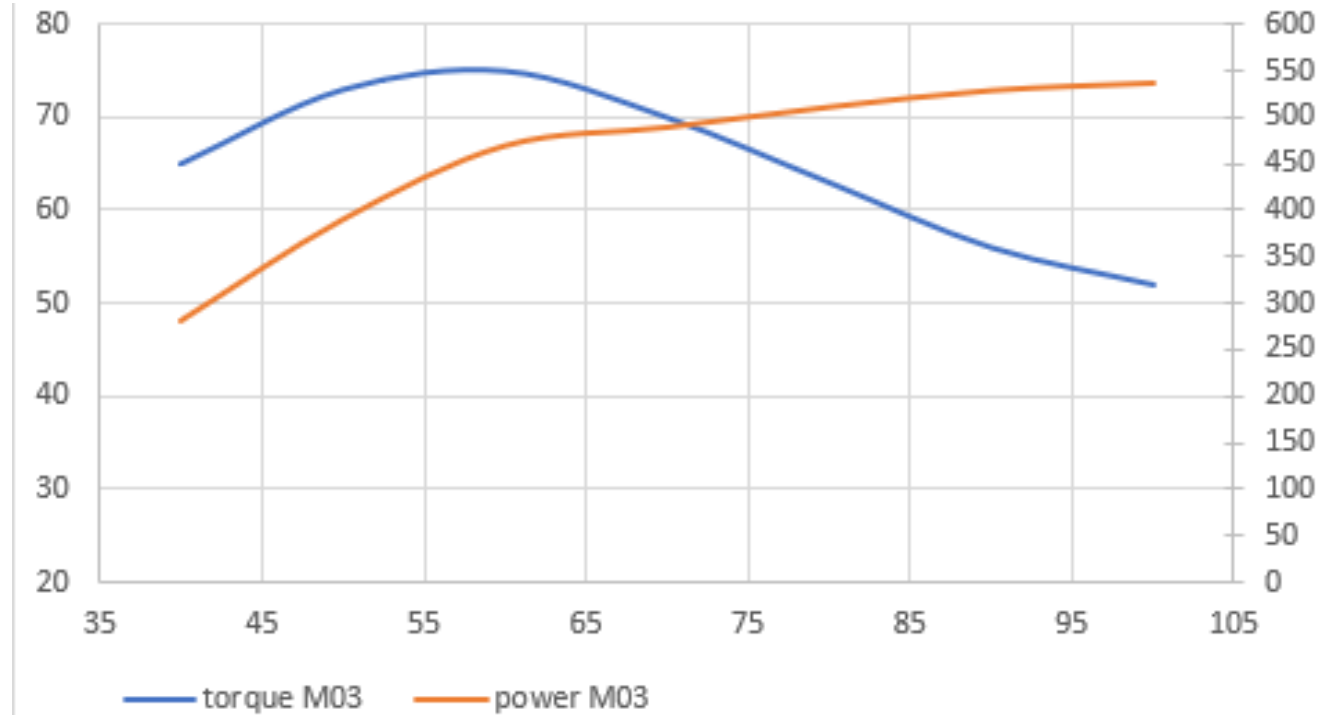


Testing various competitors we understood that **torque is important**, but **power at high rpm** is what gives the rider that “**endless push**” effect very much appreciated by sportive bikers in the most demanding situations.

We designed and developed the electric motor to **push 90Nm peak torque**, but we very much focused on the **power curve that keeps increasing** well above 110rpm



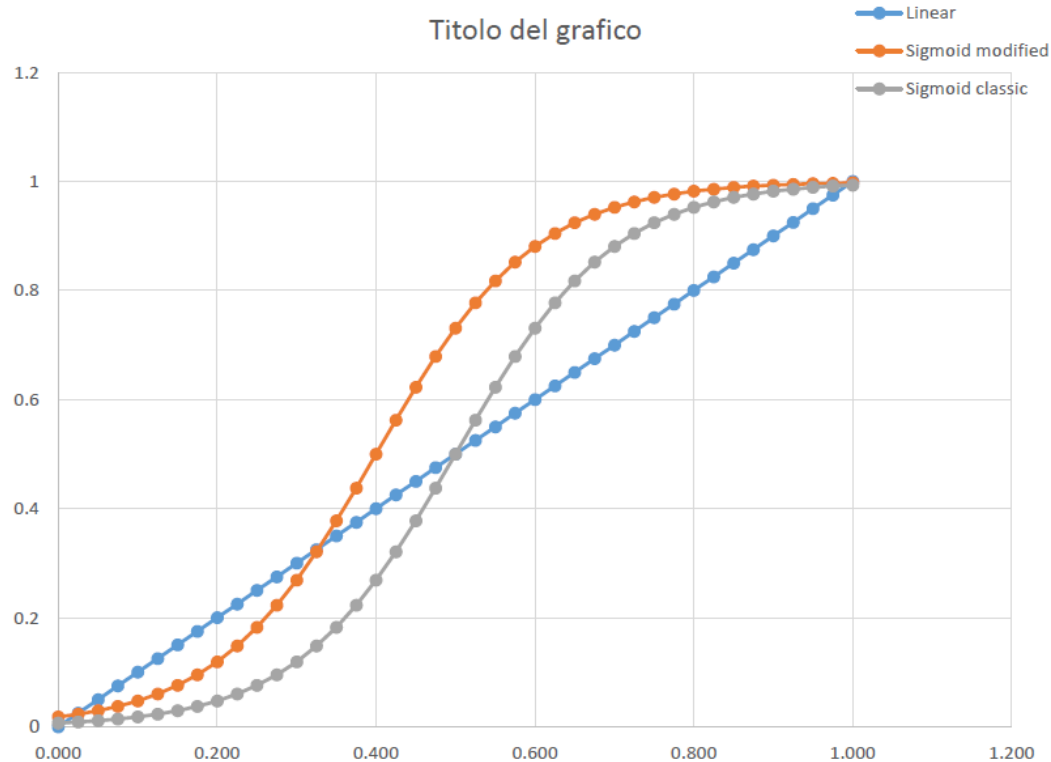
# EDGE – Performances on the bike



## IMPORTANT NOTE

1. This test has been performed on a complete bike, mechanical and measuring losses must be considered.
2. Torque is measured in Nm and mechanical power in W. Both values are vs. cadence in rpm
3. The test is designed to measure from 40rpm onward.

# EDGE – Riding modes



We developed a **base set of configuration** that can cover the majority of necessities.

Level 1 to 5 multiply rider's power up to **400%**

A **dynamic ramp control** has been introduced to deliver an exquisite natural riding feel





eBike Systems

# USER'S INTERFACES

# USER'S INTERFACES – High Vision



## GENERAL CHARACTERISTICS

- Two pieces design
- The thinnest and most ergonomic controller in the industry
- Gorilla Glass®
- Twilight sensor: automatically trims brightness, manages lights and turns to dark mode
- Integrated air thermometer for motor's management

[PLAY VIDEO](#)  YouTube

## SHOWN INFORMATIONS

- Current speed
- Assistance level
- Battery's charge
- Trip distance
- Trip Time
- Avg. battery consumption (Wh/Km)
- Odometer
- Light management (on/off/auto)
- Cadence
- Burnt calories
- Rider's power input
- Motor's power output
- Walk mode



# HIGH VISION – 35mm bracket



## Features

- 35/31.8mm handlebar clamp
- 4 position options
- 2.5mm hex-head screws
- Anti-drop groove for threaded insert
- Embossed OLI logo

# USER'S INTERFACES – Side Vision



## GENERAL CHARACTERISTICS

- Fully integrated design: display and controls buttons all in one compact component
- Integrated air thermometer for motor's management
- OLI's family feeling

## SHOWN INFORMATIONS

- Current speed
- Assistance level
- Battery's charge
- Trip distance
- Trip Time
- Avg. battery consumption (Wh/Km)
- Odometer
- Light management (on/off)
- Walk mode



# USER'S INTERFACES – Side Vision



# USER'S INTERFACES – Matrix



Simple and functional.

## SHOWN INFORMATIONS

- Battery indicator
- Assistance-level
- Speed
- Odometer
- Trip time
- Trip distance
- Lights management (on/off)
- Backlight function
- USB-C port for charging devices

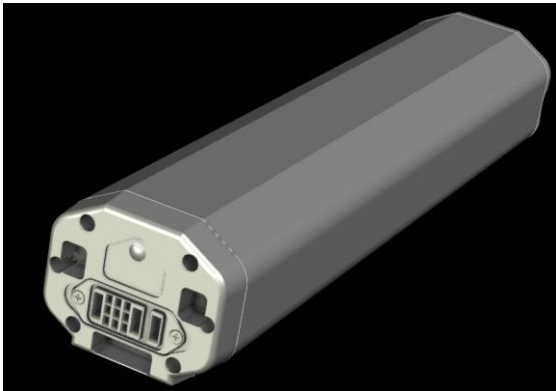




eBike Systems

# BATTERIES

# BATTERIES



MODEL	SHADE370	G-522	G-630	G-630/BH	G-720
CODE	EDSB36105YT3020700	EBBOGH36522001	EBBOGH36630001	tbd	tbd
MANUFACTURER	SPARD	PHYLION	GREENWAY	AKKUVISION	DARFON
MOTOR COMPATIBILITY	SPORT / MOVE	SPORT / MOVE / EDGE	SPORT / EDGE	EDGE	SPORT / EDGE
POSITION	Semi-integrated	Integrated	Integrated	Integrated	Integrated
ORIENTATION OPTIONS	-	Horizontal/ Vertical	Horizontal	Horizontal/ Vertical	Horizontal
TENSION	36V	36V	36V	36V	36V
CAPACITY	10.3Ah / 370Wh	14.5Ah / 522Wh	17.5Ah / 630Wh	17.5Ah / 630Wh	20Ah / 720Wh
WEIGHT (approx)	2.5kg	3Kg	3.5Kg	3.5kg	4Kg
DIMENSIONS	363x73x67mm	412x84x63mm	417x82x67mm	416x84x65 mm	397x88x72 mm
CHARGER	2A	2A/4A	4A	4A	4A
SIDECUT					





eBike Systems

CONNECTIVITY  
-  
IOT INTEGRATION  
-  
APPS

# CONNECTIVITY



## Trackting

OLI eBike partners up with [Trackting](#) to develop its entire IOT integration.

Together we are offering:

- Remote fleet management
- GPS tracking
- Quick development of proprietary app for brand (file SDK)



