

# EM

EPURE RANGE

EM

EXPLORE THE SILENCE



# EXPLORE THE SILENCE





## THE EPURE RANGE

The Epure is the perfect mix of performance and ease of use, and benefits from our latest technology. The Epure range is aimed at all those who want to go trial riding or touring, with a silent motorbike that requires almost no maintenance. The 2024 Epure is the proof that an electric motorbike is as good as a combustion one today. With its diaphragm clutch, power, acceleration, traction and lightness, this bike has all the features riders want. Whether you're a private rider, a riding school or an off-road center, the Epure range will delight a wide range of enthusiasts.

**THE EPURE HAS NO LIMITS... EXCEPT THOSE OF ITS RIDER.**

# EPURE RANGE

EM



**EPURE**  
**FACE**

**FACTOR**

EM



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*THE NEWS*

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*EPURE RANGE*

*RACE*

*FACTOR* 

# NEW ENGINE



## MADE IN EM

The Epure range is equipped with a new powertrain designed 100% by EM. Innovative, it combines two technologies:

1. The advantage of an electric motor with instant low-end torque.
2. A power profile similar to a fuel bike, combining performance and driving pleasure.

This engine has an unmatched power-to-weight ratio (3.3kW/kg), an engine speed capable of reaching 14000rpm, power of up to 18kW, torque of 1400Nm in first gear, all in a specially designed oil

pan to integrate this motor. The high-performance rotor is surrounded by a carbon sleeve to hold the magnets in at extreme rotation speeds. The air-cooling system has been designed to provide homogeneous and controlled heat dissipation. Engine noise has been optimized to provide a very quiet and pleasant transmission, thanks to reduced friction.

Last but not least, the engine's 40% extra inertia gain strongly enhances the roundness and power of the engine. Performance is incredible and accessible to all, particularly thanks to the bikes mapping.



# NEW BATTERY <sup>1.2</sup><sub>2.5</sub>

**NEW WATERPROOF  
QUICK CONNECTORS**

**NEW CHARGING PLUG**

**NEW CONNECTION  
SYSTEM BY PCB + BUS-BAR**

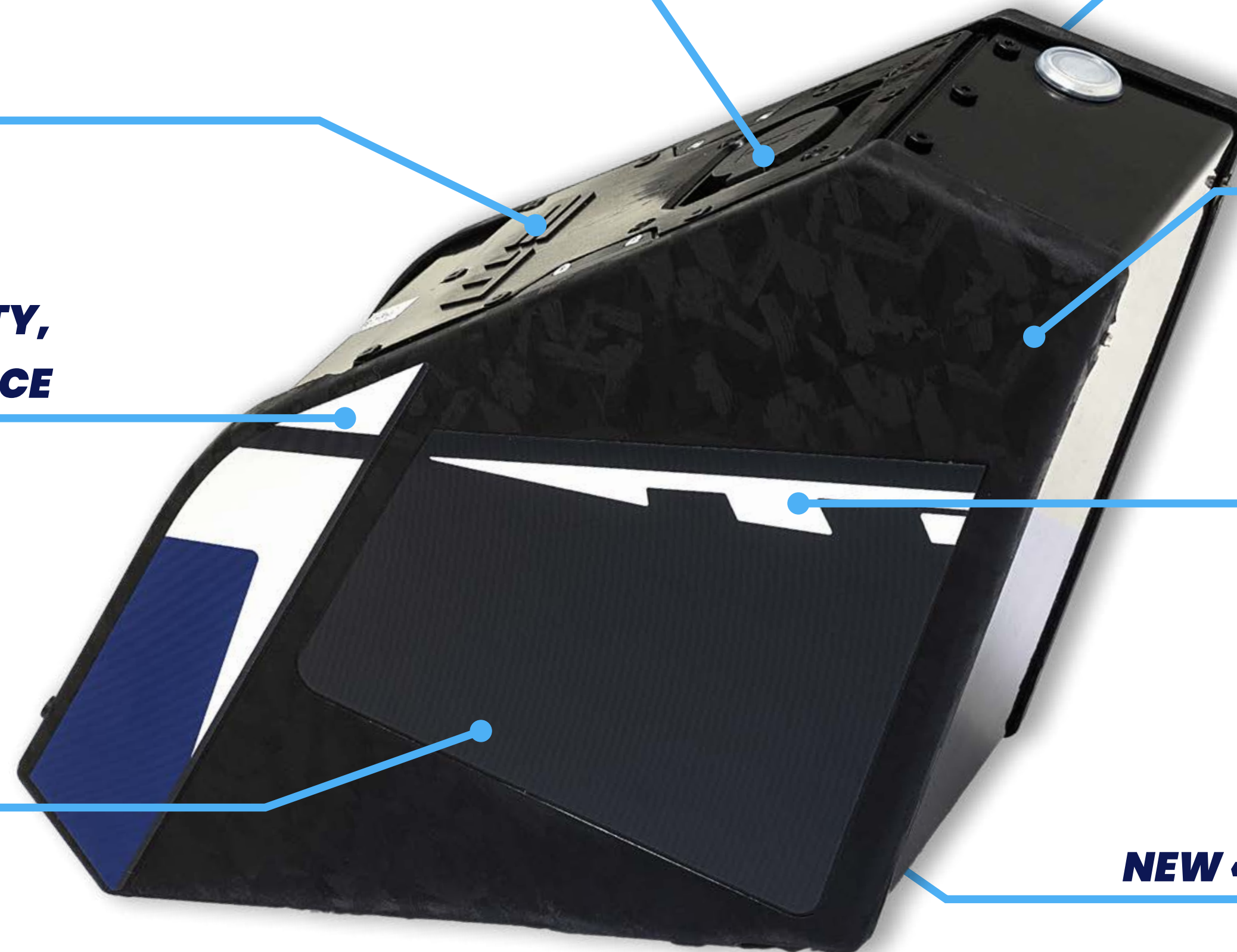
**NEW CASING**

**ENHANCED SOFTWARE, GREATER SAFETY,  
LONGEVITY AND PERFORMANCE**

**NEW SIDE PROTECTION**

**NEW LI-ION TECHNOLOGY**

**NEW « BATTERY SWAP » SYSTEM**







## ***HUGE RANGE***

***Our previous-generation battery offered one of the best weight-to-range ratios. But at EM, we're determined to maintain our technological lead with this new battery, developed in France at our factory.***

***The latest Li-Ion technology has been integrated by our R&D teams, along with a new PCB + Bus-bar connection system. All the software has been improved for more safety, longevity and performance.***

***New casing, new side protection, new charging socket, new waterproof quick connectors, new «battery swap» system... everything has been redesigned and revised to ensure the best performance, final touches and durability.***



# NEW GEARBOX

## INNOVATION

The 4-speed gearbox is an essential asset - not only for performance, but also for control and precision. This innovative gearbox allows the rider to adapt to the bike's behavior depending on the type of track, offering a versatile use:

### **1st (Trial):**

Trials sections with clear steps and obstacles, precision is essential and the bike becomes dynamic and reactive.

### **2nd (Natural Trial):**

The bike is more progressive, with more control and more grip in the obstacles, especially in the preparation before and after obstacles. Traction is accentuated, with a speed more suited to natural obstacles and/or long climbs.

### **3rd (Mixed):**

This gear has been designed for mixed use - for both trial and excursion. (We get the same behavior as our Epure Race model). This gear is also ideal for beginners, who can get their marks without using the gearbox.

### **4th (Excursion):**

Ideal speed for riding between long lap trial sections and excursions thanks to its top speed and driving pleasure, allowing the rider to cruise at a comfortable speed on a trickle of throttle with appreciable mid to high rpm power whilst reducing power consumption. The huge acceleration capacity combined with the gearbox, offers infinite possibilities!

# NEW CLUTCH

*A new engine, gearbox, but also a new clutch.*

*Equipped with a triple-disc hydraulic diaphragm system, this new clutch gains in precision and responsiveness, and can handle the power and torque of the brand new engine.*



# SUSPENSIONS

*The new TECH shock used by the best riders in the world, approved by Marc COLOMER and Gaël CHATAGNO is installed on the Epure FACTOR-e.*

*This shock provides optimized traction and precise rear-end feeling. It comes with two settings, one*

*for rebound adjustment (24 clicks), and one for spring preload (from 1mm to 10mm max).*

*The whole suspension system has been redesigned in line with the new weight and weight distribution.*





## ***NEW FRAME***

*Our specialist team also worked on the frame for the new Epure FACTOR-e.*

*The steering-column assembly has been redesigned and stiffened to further enhance steering precision and the triple clamps have new offsets for a more dynamic front end.*

# NEWS



## **NEW COCKPIT:**

- New main interface via central TFT display, even more information and improved ergonomics
- S3 trial grip
- Grey Neken handlebars



## **ERGONOMY AND DESIGN:**

- New engine guard / optimized engine guard pad for better stability and angle of attack.
- New design
- New plastic color
- New anodized wheels "grey/blue"
- Grey Neken handlebar
- New cut from the mass grey triple clamps



## **NEW CONTROLLER:**

- ***New latest generation controller, new processor***
- ***Heat sink developed for better performance***
- ***New software integrating engine speed drop management***
- ***Completely reworked settings, we still feature the 3 different maps to adapt engine behavior as precisely as possible to each track and user, which can be fine-tuned and adjusted by the rider via the EM Connect app***



**EM**

**EPURE  
RACE**



**DEUX VERSIONS  
1.8/2.5**

**EM**



**EPURE**  
**FACE**

**AVAILABLE IN 2 VERSIONS**  
**1.8 / 2.5**





# EPURE RACE



## AN ICONIC MODEL

The Epure Race needs no introduction; this top of the range 100% Trial model has already conquered the trial world for several years now. Making its mark was simple... it shone in competitions and won titles!

The iconic model from EM has been completely redesigned for the 2025 edition.

Featuring a gearbox-free system for simplified use, the model also benefits from EM's brand-new powertrain, identical to that of the FACTOR-e. The bike gains in power, range, and weight reduction, elevating the Epure Race to new heights in every aspect!

The new chassis also equips the Epure Race, providing it with enhanced stability and performance.

Widely regarded as the best chassis on the market, the Epure Race is by no means the «entry-level» model of the family...

EM aims to continue offering high-performance motorcycles that are very easy to use.

The Epure Race has no limits... except those of its rider.

# EPURE RACE



\*75km/h off-road on private land.  
\*\* According to EU homologation test No 134/2014 the distance covered and speed depend on riding conditions and motorcycle configuration.

**MAX SPEED\***

**RANGE\*\***

**WEIGHT**

**TORQUE**

**ROAD LEGAL**

**2.5**

**80 KM/h**

**50 KM**

**74 KG**

**740 NM**

**125CM3**

**1.8**

**80 KM/h**

**43 KM**

**72 KG**

**740 NM**

**125CM3**

## DIMENSIONS

SEAT HEIGHT	670mm
WHEEL BASE	1325mm
GROUND CLEARANCE	320mm
FOOTREST HEIGHT	360mm
WIDTH	825 mm

## CYCLE PART

FRONT BRAKES	182mm Disc/ 4 pistons Racing
REAR BRAKES	150mm Disc / 2 pistons
FRONT RIM	Morad Trial 1.6"x21" Racing
REAR RIM	Morad Trial 2.15"x18" Racing
TIRES	Michelin X11
FRONT SUSPENSION	TECH Aluminium Racing Fork
REAR SUSPENSION	TECH suspension TJ2

## BATTERY

	<i>1.3</i>	<i>2.5</i>
ENERGY	Li-ion	Li-ion
VOLTAGE	50,4V	50,4V
CAPACITY	1800Wh	2500Wh
WEIGHT	11kg	13kg
CHARGER	15A	15A
CHARGING TIME	2h30	3h15
MINI CHARGING TEMPERATURE	0°C	0°C





## ENGINE

NOMINAL POWER  
PEAK POWER  
MAPS

5 Kw  
18 Kw  
3

## GEARBOX

CLUTCH

4 Discs diaphragm

## EQUIPMENT

FRB  
TKO  
CHARGER CASE  
TFT DISPLAY  
FLYWHEEL

## OPTIONS

EM CONNECT  
PRBR  
25A CHARGER  
EM HANDGUARD

EM



EPURE  
RACE

**EM**

**FACTOR**



**TWO VERSIONS  
1.8/2.5**

EXPLORE THE SILENCE

**EM**



**FACTOR**  **AVAILABLE IN 2 VERSIONS**  
**1.8 / 2.5**

# FACTOR-e



## THE POWER

The most powerful model ever designed by EM has pure performance!

EM has designed a new engine offering inertia, torque (1400Nm) and power (up to 18kW) simply unmatched in trials! The arrival of the 4-speed gearbox offers unlimited possibilities in both areas - trials and excursion.

The battery is 100% new and has been designed by our very own engineering department. With new-generation Li-Ion, the performance and lifespan of the

battery exceeds all possible expectations. In addition, there's now a brand new long-range 2500Wh version... in the same size battery case!

The bike offers a pre-programmed mapping system but is also 100% customizable with EM Connect. The Epure FACTOR-e is accessible to all!



**MORE POWER**

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**MORE TORQUE**

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**LIGHTER**

# Already 4 podiums in competition



# FACTOR

\*85km/h off-road on private land.  
\*\* According to EU homologation test No 134/2014 the distance covered and speed depend on riding conditions and motorcycle configuration.



	<b>MAX SPEED*</b>	<b>RANGE**</b>	<b>WEIGHT</b>	<b>GEARS</b>	<b>TORQUE</b>	<b>ROAD LEGAL</b>
<b>2.5</b>	<b>85 KM/h</b>	<b>50 KM</b>	<b>75 KG</b>	<b>4</b>	<b>1400 NM</b>	<b>125CM3</b>
<b>1.8</b>	<b>85 KM/h</b>	<b>43 KM</b>	<b>73 KG</b>	<b>4</b>	<b>1400 NM</b>	<b>125CM3</b>



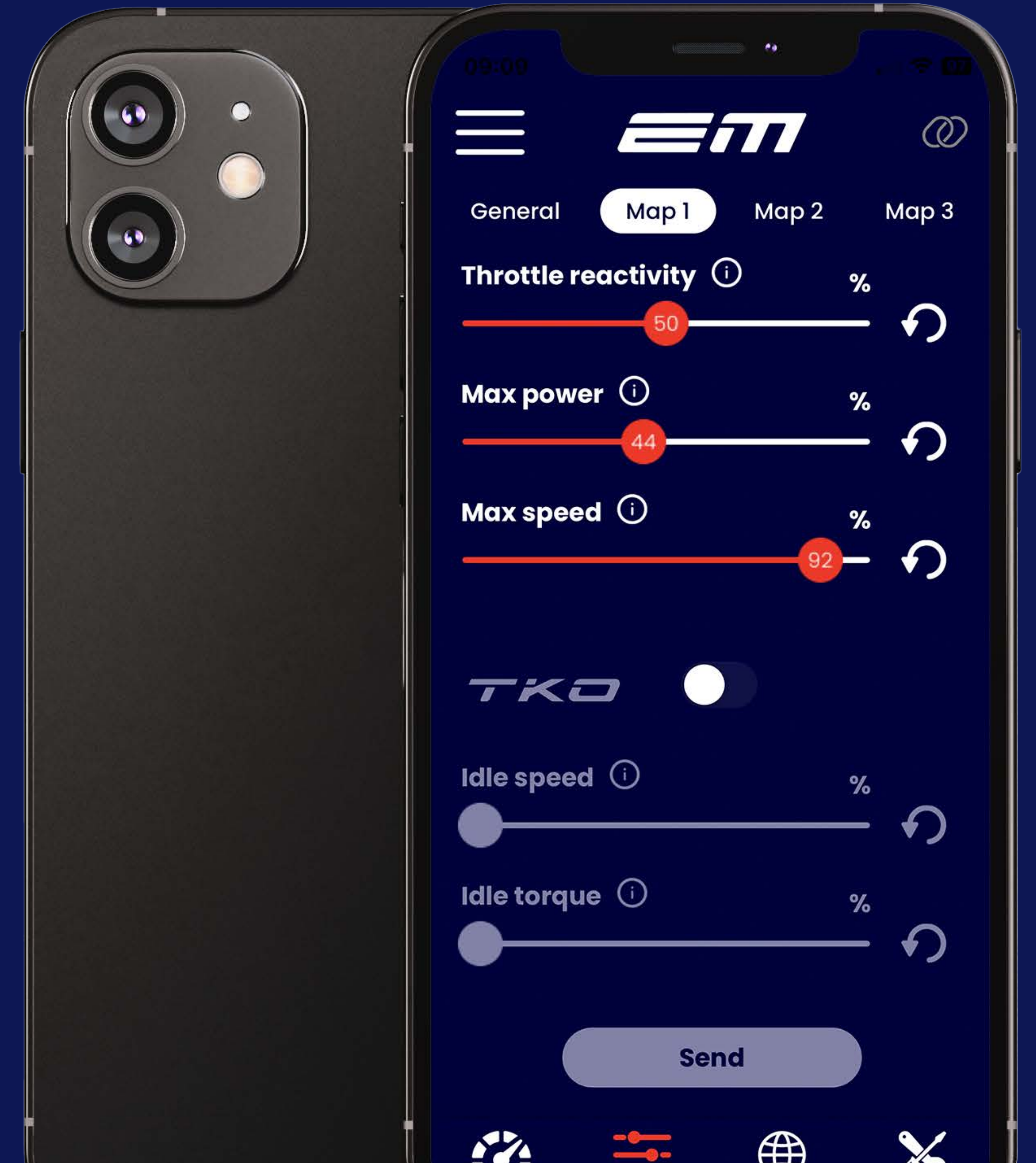
***The huge acceleration capacity combined with the gearbox offers infinite possibilities! The Epure FACTOR-e is equipped with a new secondary transmission with 520 chain and a reinforced swing arm to subsist with the 1400Nm of torque. Finally, the use of this gearbox also means lower***

***energy consumption in fast use, efficiency being one of the priorities of this new propulsion unit. The engine alone weights 5kg. The propulsion unit, inertia, clutch, gearbox, sensors, oil pans, is 3kg lighter than our former propulsion unit.***

# EM CONNECT

THE EPURE FACTOR-e IS EQUIPPED WITH THE MOBILE CONNECTIVITY APPLICATION

- All-new connectivity via the EM mobile app (ios & Android, depending on the list of compatible devices).
- Access to all important information about your EM motorcycle and your rider profile.
- Customize the settings of your EM motorcycle with an engine behavior configurator to adapt your EM's performance to suit the track, your riding style and level.
- Lock and unlock your EM motorcycle.
- Contact interface, EM news and real-time diagnostics.



## DIMENSIONS

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WHEEL BASE	1325mm
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## CYCLE PART

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FRONT SUSPENSION	TECH Aluminium Racing fork
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## BATTERY

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CHARGER	15A	15A
CHARGING TIME	2h30	3h15
MINI CHARGING TEMPERATURE	0°C	0°C





## ENGINE

NOMINAL POWER

5 Kw

PEAK POWER

18 Kw

MAPS

3 (unlimited with EM Connect)

## GEARBOX

CLUTCH

3 Discs diaphragm

GEARS

4

## EQUIPMENT

FRB

TKO

EM CONNECT

CHARGER CASE

TFT DISPLAY

FLYWHEEL

## OPTIONS

PRBR

25A CHARGER

EM HANDGUARD

**EM**



**FACTOR 3**



# EPURE

## RACE

### CYCLE PART

FRONT BRAKE	182mm Disc / 4 pistons Racing
REAR BRAKE	150mm Disc / 2 pistons
FRONT RIM	Morad Trial 1.6"x21" Racing
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	1.8	2.5
ENERGY	Li-ion	Li-ion
VOLTAGE	50,4V	50,4V
CAPACITY	1800Wh	2500Wh
WEIGHT	11kg	13kg
CHARGER	15A	15A
CHARGING TIME	2h30	3h15
MIN CHARGING TEMPERATURE	0°C	0°C

### ENGINE

NOMINAL POWER	5 Kw
PEAK POWER	18 Kw
MAPS	3

### CLUTCH

CLUTCH	4 Discs diaphragm
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### EQUIPMENT

FRB  
TKO  
CHARGER CASE  
TFT DISPLAY  
FLYWHEEL

### OPTIONS

PRBR  
EM CONNECT  
25A CHARGER  
EM HANDGUARD

# FACTOR

### CYCLE PART

FRONT BRAKE	182mm Disc / 4 pistons Racing
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WEIGHT	11kg	13kg
CHARGER	15A	15A
CHARGING TIME	2h30	3h15
MIN CHARGING TEMPERATURE	0°C	0°C

### ENGINE

NOMINAL POWER	5 Kw
PEAK POWER	18 Kw
MAPS	3 (unlimited with EM Connect)

### GEARBOX

CLUTCH	3 Discs diaphragm
GEARS	4

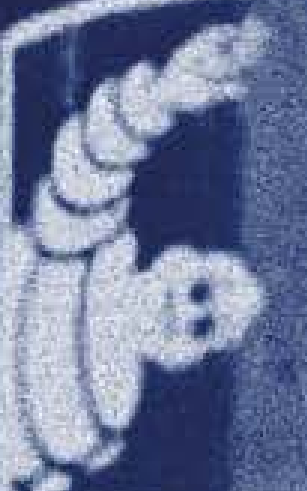
### EQUIPMENT

FRB  
TKO  
EM CONNECT  
CHARGER CASE  
TFT DISPLAY  
FLYWHEEL

### OPTIONS

PRBR  
25A CHARGER  
EM HANGUARD



  
**MICHELIN**

**ET**

**MICHELIN**  


# OUR SPONSORS





## **ELECTRIC MOTION**

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### EXCLUSION OF LIABILITY

Please note that this brochure contains photos taken on private property and/or abroad.  
The use of these vehicles in a similar environment in your jurisdiction may be prohibited  
by the legislation and/or regulations in force in your region, including article L.362-1 and following of the Environment Code.  
The photos do not contain any contractual information and the potential buyer of this vehicle will remain solely responsible for the use of the vehicles,  
as well as for the respect of the legislation and regulations in force.

Example not to be followed. The drivers shown are professionals.

Electric Motion draws the attention of all motorcyclists to the importance of wearing the prescribed protective equipment  
(approved helmet, gloves, jacket, trousers and boots) and the need to ride responsibly,  
in accordance with the highway code.

The purchase and use of a motorbike requires compliance with the instructions and warnings  
of the user's manual.

The motorbikes shown in the photos may differ from the standard model in some details and some are equipped with optional accessories.

All information on appearance, performance, dimensions and weights of the motorbikes is not binding and may contain typing errors or errors in the information provided.

May contain typing or printing errors. They are therefore subject to change.

Please note that model specifications may vary from country to country.