

EXPLORE THE SILENCE





AVAILABLE IN 2 VERSIONS

THE STORY



FACTOA-E

It all started in ELECTRIC MOTION's R&D department. After 15 years of exquisite experience in electric propulsion in the off-road sector and more specifically in trials, our ambition was to offer 'THE' trial bike of the market.

The origins of this powertrain date back to 2021. Since then, our engineering teams and Marc COLOMER in particular, have been working hard designing, testing, improving, optimizing and enhancing the reliability of this brand-new powertrain. Marc

COLOMER, former Trials World Champion, is in charge of bike development working closely with EM expert design engineers. 3 years of research, data analysis, laboratory tests, trials on different tracks, tested by riders of all levels right up to the very highest... everything has been done to design the best trial powertrain unit ever made.

For EM, this propulsion had to be the most efficient at the highest level but also the most accessible, and only electric power can achieve this.



ORE POWER





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 accessible to all!

our very own engineering department. With newgeneration 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!



MAX SPEED* =.= 85KM/h 50KM

RANGE**

WEIGHT 75 KG GEARS

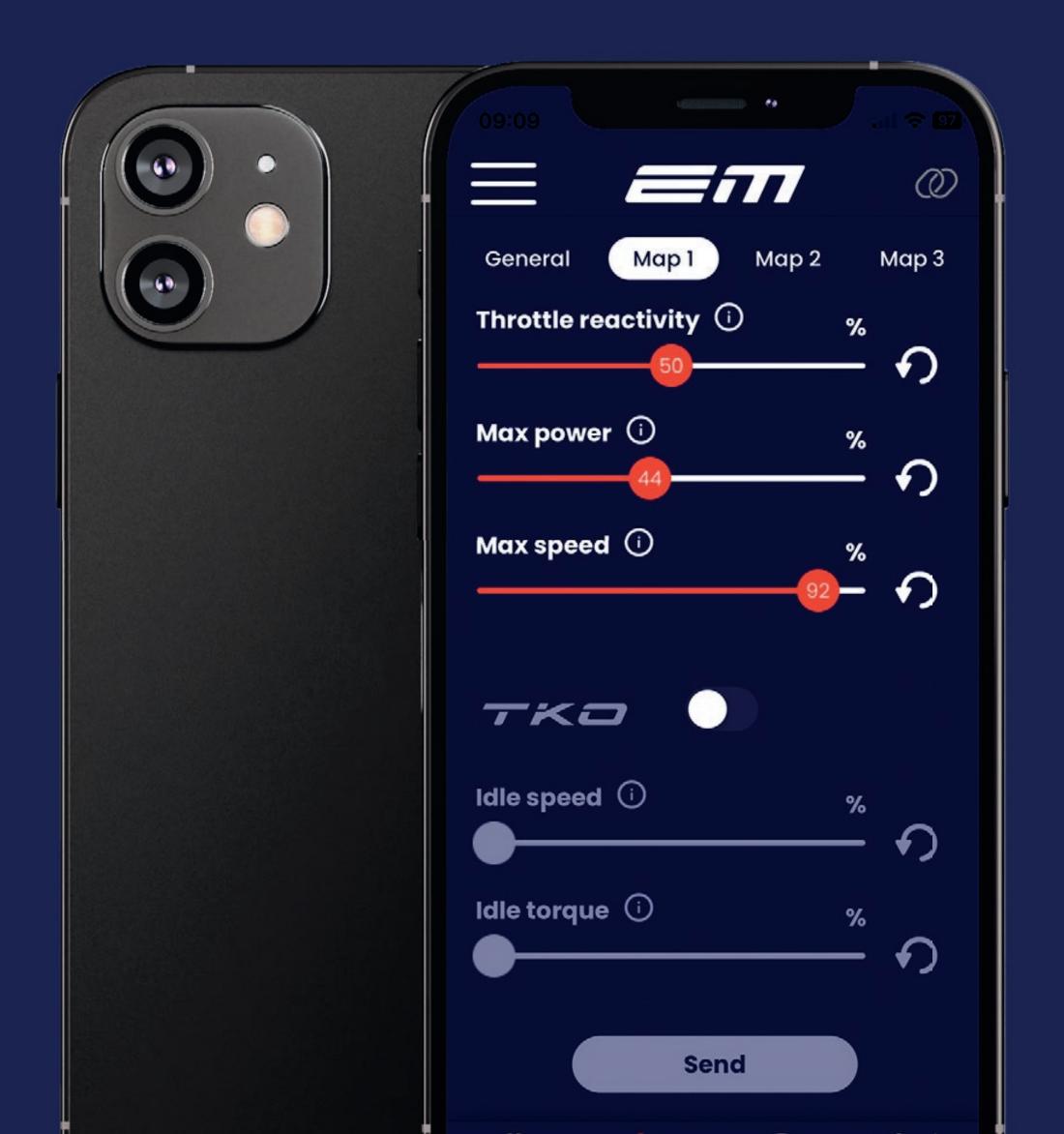
TORQUE 1400 NM ROAD LEGAL 125CM3

1.= 85KM/h 38KM 73KG 4 1400NM 125CM3



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 terrain, your riding style and skill level.
- Lock and unlock your EM motorcycle.
- Contact interface, EM news and real-time diagnostics







made in em

The Epure FACTOR-e 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 1.5



NEW CONNECTION
SYSTEM BY PCB + BUS-BAR

ENHANCED SOFTWARE, GREATER SAFETY,
LONGEVITY AND PERFORMANCE

NEW LI-ION TECHNOLOGY

NEW CHARGING PLUG

NEW CASING

NEW SIDE PROTECTION

NEW « BATTERY SWAP » SYSTEM



HUGE AANGE

Our previous-generation battery offered one of the best weightto-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 and revised to ensure the best performance, final touches and durability.



REW 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!



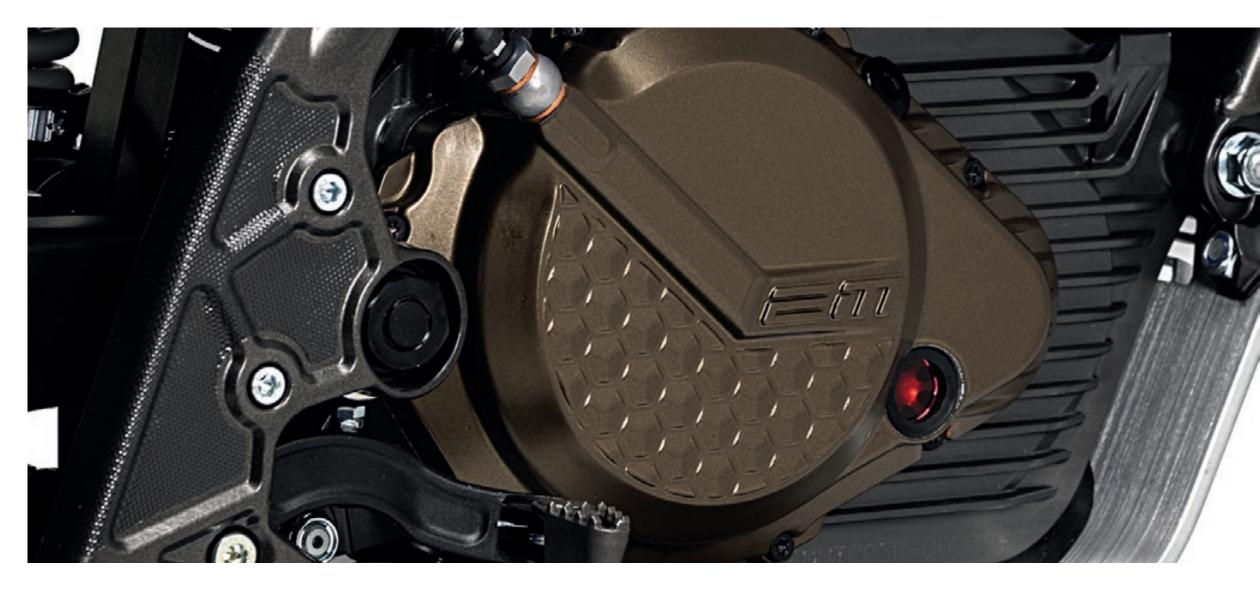
The huge acceleration capacity combined with the gearbox, offers infinite possibilities! The Epure FACTOR-e is equipped with a new secondary transmission with 520 chain and a reinforced swing arm to subsist with the 1400Nm of torque. Finally, the use of this gearbox also

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.

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, developed by Marc COLOMER and approved by Gael 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.







NEWFRAME

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.



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.



DIMENSIONS

Seat height670mmWheel base1325mmGround clearance320mmFootrest height360mmWidht825mm

STOCK EQUIPMENTS

MAPS 3(unlimited)

FRB
TKO
EM Connect
Charger case
TFT screen
Flywheel

DPTIDNS

PRBR 25A charger EM handguards

ENGINE

Nominal power 5kW
Peak power *16kW

GEAROX

Clutch triple-disc hydraulic Gears 4





TECHNICAL SHEET

Frame 15CDV6
Front brake 182mm discs / 4 pistons racing 150mm discs / 2 pistons racing 150mm

BATTEAY

Energy
Voltage
Capacity
*1800/2500Wh
Weight
Charger
Charging time
***2h30
Mini charging temperature
Li-ion
50,4V
*1800/2500Wh
***11kg
***2h30





CYCLE PART

FRONT BRAKE
REAR BRAKE
FRONT RIM
REAR RIM
TIRES
FRONT SUSPENSION
REAR SUSPENSION

182mm discs / 4 pistons racing 150mm discs / 2 pistons racing Morad Trial 1.6"x21" Racing Morad Trial 1.6"x18" Racing Michelin X11 TECH alu racing front fork TECH suspension TJ2

BATTERY

ENERGY
VOLTAGE
CAPACITY
WEIGHT
CHARGER
CHARGING TIME
MINI CHARGING TEMPERATURE

Li-ion 50.4V *1800/2500Wh **11kg 15A ***2h30 0°C

ENGINE

NOMINAL POWER
PEAK POWER
MAPS

5Kw ****16Kw 3 (unlimited with EM connect)

EQUIPMENTS

FRB
TKO
EM CONNECT
CHARGER CASE
TFT SCREEN
FLYWHEEL

OPTIONS

PRBR
25A CHARGER
EM HANDGUARD





ELECTRIC MOTION

86 impasse de la pépinière 34670 Saint-Brès, **FRANCE**

www.electric-motion.fr info@electric-motion.fr

Landline: 04 67 4110 90 Mobile: 06 51 05 51 69



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
ion and/or regulations in force in your region, including article L.362-1 and following of the Environment Code.

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.