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NEW EK3
EK3 *Deluxe*

I do like my comforts.

L3e



COMFORT AND DESIGN MEET HIGH-TECH AND SAFETY!

Modern design Smooth contours, bright colours- a combination of fashion and luxury. Whether young or old, man or woman: you will love EK3! It was created for everyday use to cover longer distances quickly, elegantly and economically. This electric scooter is spacious and comfortable. You will enjoy the cruise control and reverse in some road conditions. Meanwhile, you don't have to worry about the maintenance after many years since it's low cost and simple.



POWER

HIGHLY EFFICIENT, ECONOMICAL ENGINE

The Center Motor developed by HORWIN creates an output of 7.2 kw at a speed of 95km/h. The EK3 accelerates to 60 km/h in six seconds, with full torque being activated immediately when the throttle is activated. The constant power of the engine ensure smoother running under all road conditions. In addition, the highly efficient engine perfectly balances performance and energy consumption. All finely coordinated components ensure that the power train system works efficiently and stably and drives economically far.

95 KM/H
MAX SPEED

6 s
0-60KM/H



7200 W
MAX

LIGHT



LED DAYTIME RUNNING LIGHT FOR MORE SAFETY

The automatic daytime running light DRL (Daytime Running Light) shines with an intensive white LED lamp. This improved lighting brings more safety- especially on rainy and foggy days. An automatic light switch-off delay lights your way to the garage or entrance door when you leave the vehicle.

LED HEAD LIGHTS WITH THREE LENSES

The head lights are equipped with LED lamps. With their brighter and whiter light they literally cut through the night and are far superior to standard incandescent lamps. Compared to the yellow light of conventional halogen lamps, LED lamps also come very close to the colour of daylight. They give the driver a more natural impression of the road situation.

DESIGN

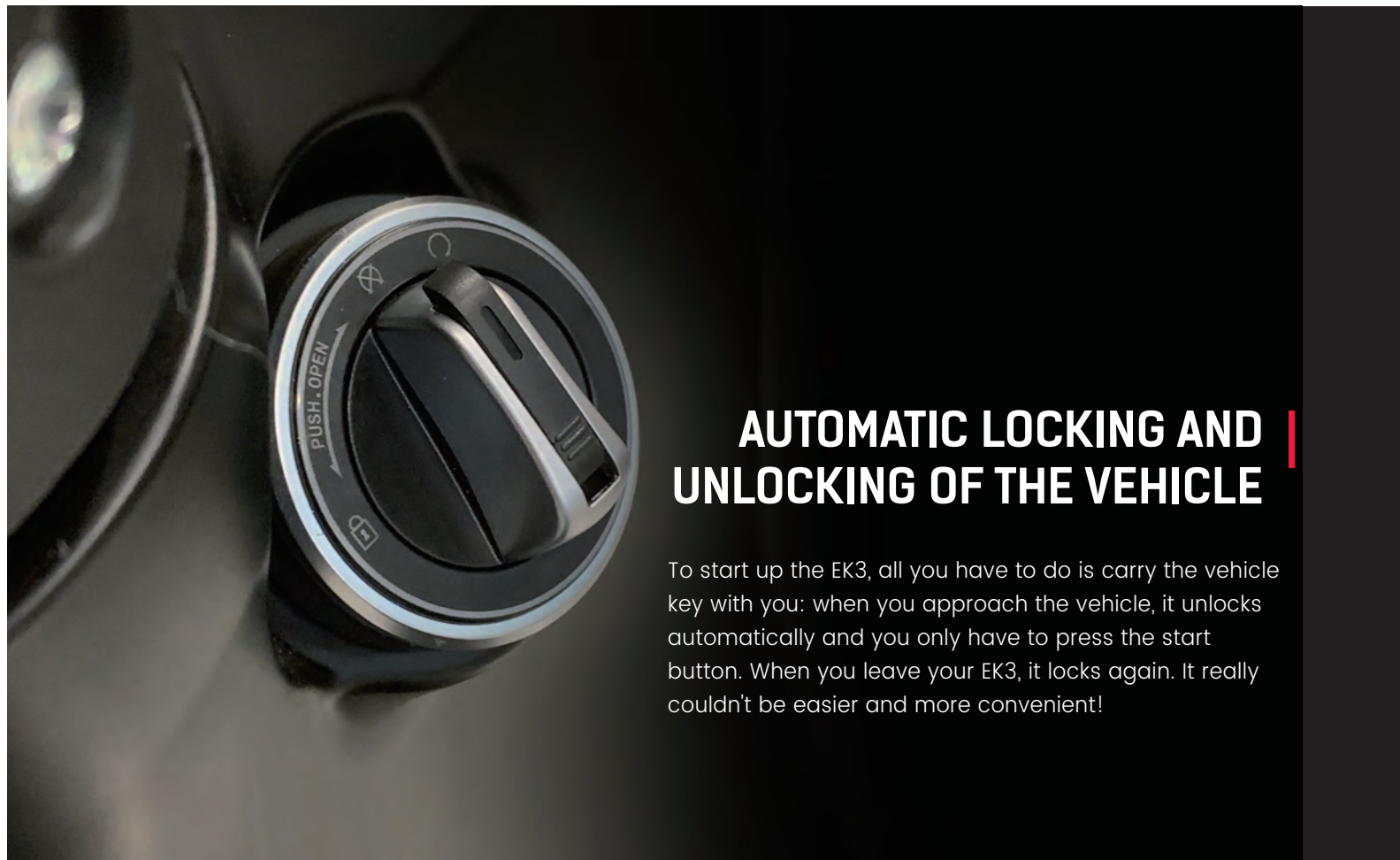
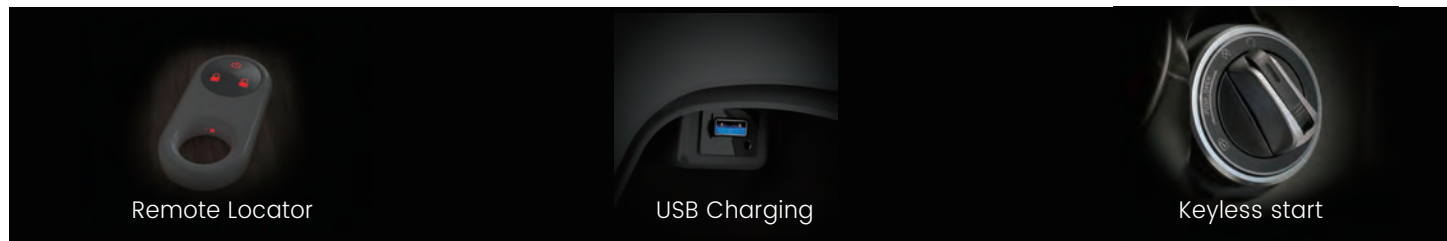


SMART PHONE CAN BE CHARGED WHILE DRIVING

While you are cruising with your EK3, you can charge your smart phone on board via the USB connector. This convenient additional function offers you the security of always having the battery of your mobile companion sufficiently full- no matter when and where.

REMOTE CONTROL VEHICLE KEY

Conveniently, the vehicle key has a remote control built in: This way you can start, stop and even lock the scooter. And all this without having to put the key in the ignition lock!



AUTOMATIC LOCKING AND UNLOCKING OF THE VEHICLE

To start up the EK3, all you have to do is carry the vehicle key with you: when you approach the vehicle, it unlocks automatically and you only have to press the start button. When you leave your EK3, it locks again. It really couldn't be easier and more convenient!

FULL CONTROL WITH A MODERN COCKPIT

The big display of the HORWIN EK3 shows you all information which you need during your journey: topical speed, current, SOC, trip, ODO and a lot more. The sliding-start under the display offers a new simpler way to start your pleasant trip. In the modern design combined with the latest technology, the background light shows you all infos of course also in the darkness.

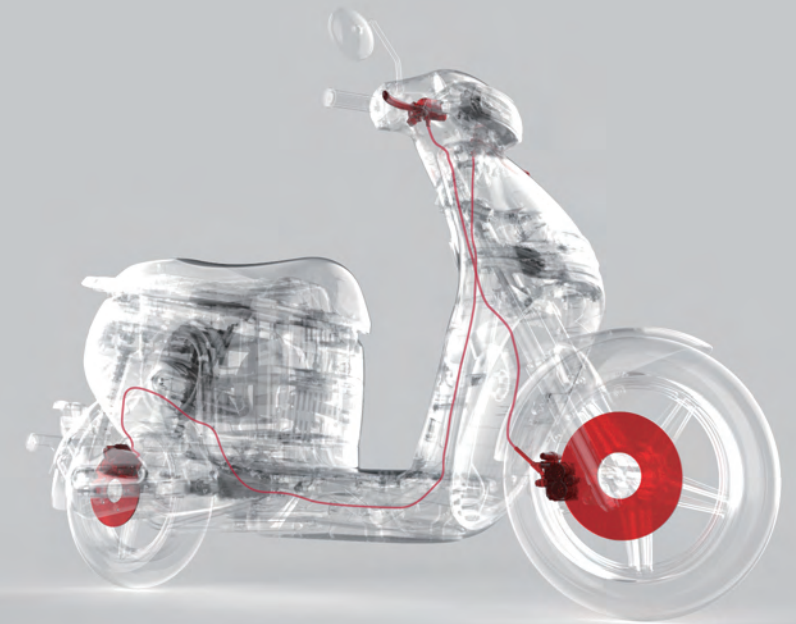




| CBS BRAKING SYSTEM

The CBS braking system will split braking force between the front and rear brake discs when you brake in an emergency, reducing stopping distance and ensuring a safe brake at high speeds.

The sensitive brakes allow extremely precise handling in and around corners, even in wet conditions. 220mm front brake disc and 190 mm rear brake disc guarantee safe and efficient braking in all conditions.



| BATTERY WITH ITS OWN MANAGEMENT

The EK3 scooter can be equipped with two lithium-ion batteries that are easily removable. Both batteries can be charged simultaneously. The battery is supplied with Samsung's efficient 18650 lithium-ion battery cells. The SOC monitoring system and the modern battery management system can prevent malfunctions.

Among other things, they provide protection against over-charging, discharging, over-voltage, short circuit and monitor the temperature of the batteries. One battery cell has a capacity of 9.6Wh, the whole battery has 2.8kWh. The battery life is over 1000 cycles. The standard charging current is 10A. The charging time of one battery is 4 hours.

An intelligent charger is used for this.

40^{AH}
BATTERY &
TWO BATTERIES

100^{KM}
MAX. RANGE
(45 KM/H)

4^H
CHARGING TIME
(ONE BATTERY)

BATTERY

| INTELLIGENT CONTROL OF POWER CONSUMPTION

The field-oriented vector control FOC (Field Oriented Control) ensures a fast and stable start and acts as the brain of your vehicle. To control the motor, it balances power and energy consumption. The system recognises your driving conditions and immediately calls up the engine for optimum performance. What's more, the FOC optimizes energy savings and performance, effectively recycling energy during certain braking periods. And it limits the power output during selected acceleration periods.



MT2.15 × 14
Front wheel hub

MT2.5 × 13
Rear wheel hub

100/80-14
Front wheel

110/70-13
Rear wheel



|| LIGHT WEIGHT WHEEL HUBS PROVIDE STRENGTH!

The high-strength light alloy wheel hubs are made of an aluminium alloy. They give the front and rear wheel excellent strength and hardness and are still comparatively light.

|| VACUUM TYRES THAT PREVENT PUNCTURES

With its vacuum tyres, the EK3 has excellent road grip. They are puncture-proof, wear-resistant and have a longer service life than normal tyres. Safety and comfort are perfectly combined here.

|| INGENUOUS DESIGN FOR COMFORT

The engineers understand "bigger is better" so they designed spacious footboard, wider and longer seat. Also the ergonomical design with optimized sitting position makes your journey more relaxed and comfortable.

|| LOW MAINTENANCE BRAKE SYSTEM

A CBS brake system is used. It serves to make the braking process safe and sound and it increases the protection against the blocking of one of the two wheels. Another plus: maintenance and replacement of the CBS system are very cheap.

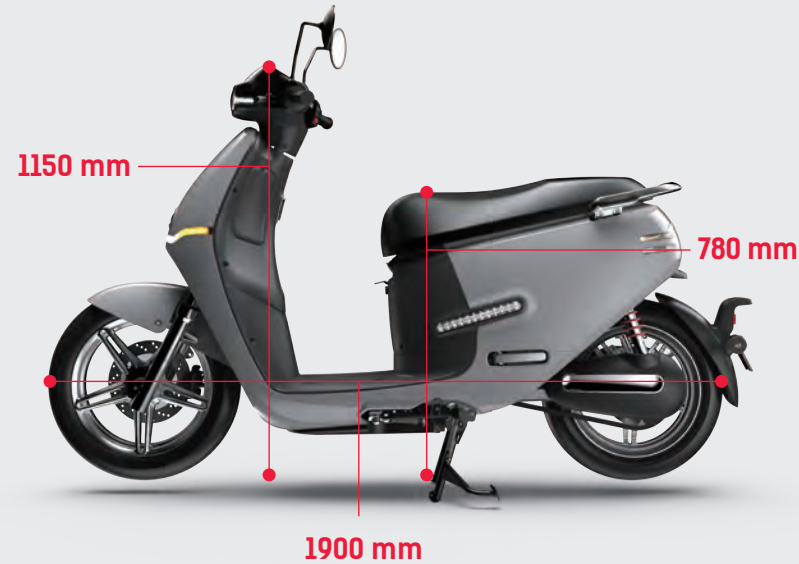
|| COMFORTABLE DRIVING - REGARDLESS OF THE ROAD

The EK3 scooter is equipped with double hydraulic shock absorbers at the front and rear. They offer the driver an excellent driving experience - regardless of the road conditions.



DRIVING EXPERIENCE AT UP TO 95 KM/H

The EK3 is fast on the road and achieves a top speed of 95 km/h. The 14-inch front wheel and 13-inch rear wheel offer excellent manoeuvrability. Safety is provided by the efficient CBS braking system. The central motor delivers a consistent and strong performance. The outstanding ergonomic design and efficient shock absorption system ensure a comfortable driving experience. The EK3 has a long wheel base of 1350mm and a distance of 125 mm from the ground. The generous dimensions- 1900mm length, 500 mm width, 1150 mm height - offer a correspondingly great driving experience. In addition, the EK3 has a maximum load capacity of 200 kg and offers space for up to two people.



EUROPE-WIDE E-MOBILITY SUBVENTIONS

Depending on the country you are living in, buying electric vehicles is financially supported by many governments, organisations or companies. Please get in touch with your local governmental institution to gather further detailed information. Because of this, switching to electric mobility is an absolute win-win-situation.



NO NOISES

It drives without any noise. Even at top speed, the only thing you will hear is the tyre noise.

NO SMELL

No exhaust gases mean no emissions. So don't worry about stinking clothes anymore.

LOW MAINTENANCE COSTS

The HORWIN motor is completely maintenance-free. Only some parts of the brake system and the tyres need to be replaced from time to time.

LOW OPERATING COSTS

A full charge of both batteries will cost you less than 1 € (EURO). The savings are obvious.

LOW INSURANCE COSTS

Normally, insurance costs are much lower than for conventional petrol-powered vehicles (depending on the country).

ENVIRONMENT-FRIENDLY

The drive of the HORWIN EK3 is probably the most sustainable and environmentally friendly way to get from A to B.

EK3 *Deluxe*



DARK BLUE



GREY

EK3



WHITE



BLACK MATT FINISH



RED



GREY MATT FINISH

DIMENSIONS



Length: 1900mm
Width: 500mm
Height: 1150mm
Seat height: 780mm

Motor Type
Controller
Battery

Central Motor
FOC
72V, 40AH (optionally 80 AH with second battery)

MEASUREMENTS

Front hub	MT 2.15x14	Net weight	95 KG
Rear hub	MT 2.5x13	Max loading capacity	200 KG
Front tire size	100/80-14	Wheel hub	Aluminium alloy
Rear tire size	110/70-13		
Wheel base	1350 mm		
Minimum ground clearance	125 mm		

SPECIFICATION

Rated Power	3.5 KW	Range (45KM/H)	>100 KM (with 1 battery)
Max Power	7.2 KW	Charging Times	>1000 times
Rated RPM	2000 R/min	Tire	Front 14/ rear 13'
Torque	160 Nm	Brake System	CBS oil brake
Top Speed	95 km/h	Charging	10A
Reduction Ratio	1: 6.4	Charging Time	4h (0-100%)

FEATURES

Lights	LED (front, rear, flashing)
Swipe screen to start	YES



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