



VIPER KART

**E-Viper Electric Kart, the new frontier
of electric rental karts, by the OTK Kart Group.**



Boasting unmatched performance within its sector and the capability for autonomous driving sessions lasting over one hour when needed, the E-viper, the inaugural electric kart introduced by OTK Kart Group, signifies a groundbreaking transformation in the realm of rental karting.

E-Viper kart combines the latest lithium battery technology with easy maintenance for all operators, guaranteeing an exciting driving experience for all drivers (minimum 13 years old/140 cm tall) and safety standards that protect both customers and business.

TONY//KART

viperkart.com

THE MOTOR

THE ELECTRIC BY OTK KART GROUP

E-Viper Electric Kart is equipped with an electric motor (brushless permanent magnet motor), developed and created specifically for karting, which guarantees a nominal power of 5.5 kW (peak of 12 kW) and an exceptional peak torque of 145 Nm at the wheels (45 Nm at the crankshaft). Its low weight of approximately 197 kg allows the electric rental kart by OTK Kart Group to be the benchmark product in the kart rental sector, for performance and reliability.

Practical advantages

- Zeroing of CO2 emissions (and other gases harmful to humans and the environment) and noise emissions.
- Access (depending on country) to tax breaks and bonuses for sustainable start-ups.
- Streamlining of bureaucratic procedures for obtaining authorizations relating to the opening (and ordinary management) of outdoor and indoor kart tracks.
- Reduced maintenance, thanks to the fewer moving mechanical parts with which they are equipped.



Beyond electric

ALL THE QUALITY (AND RELIABILITY) OF AN OTK KART GROUP CHASSIS

E-Viper Kart features a chrome-molybdenum steel body measuring 32 x 2.5 mm in diameter, 100% produced by OTK Kart Group using highly automated production processes, to offer the highest standards in terms of solidity and durability. Furthermore, the high level of internal production processes (both with regards to the creation of components and their assembly) has a positive impact on the manufacturing times of the E-Viper Kart. Thanks to its functions and equipment, the E-Viper is fully adaptable to the most varied needs of different kart rental users. So as to make driving the electric rental kart by OTK engaging, exciting and safe for everyone.

In detail

Standard accessories for E-Viper Kart are:

- The ergonomic steering wheel (Ø 350 mm), for effortless control
- Adjustable pedals and sliding seat
- Rear position and brake light, to promote safety on the track
- Steering wheel display to offer vital information and customization options, including RPM/boost gauges, battery percentage SOC when the kart is charging, company logos and control and diagnostic screens accessible only to the track manager.
- Boost and reverse functions installed on the steering wheel
- De Haardt Xtra.CAN transponder with remote speed control function



WEIGHT OPTIMIZATION

BATTERIES LASTING OVER 1H, WITH OPTIMIZED CHARGING TIMES

The electric motor of the E-Viper Kart is powered by 116 Ah NCM lithium batteries, a capacity at the top of the rental kart sector. This quality, together with the optimized weight of 197 kg, makes the E-Viper the electric rental kart with the best "capacity/weight" ratio available on the market, 0.589 Ah/kg. This means that for every kilogram of weight, the kart provides almost 0.589 Ampere/hour of battery capacity. Concretely, E-Viper kart offers the best energy storage efficiency and driving times of over an hour per charging cycle.

Power, durability and... safety

CUTTING-EDGE PROTECTIVE EQUIPMENT TO PROTECT YOUR INVESTMENT

E-Viper Electric Kart has been designed to offer maximum safety and longevity. In fact, it boasts an IP64 classified electrical system which guarantees durability and resistance, to dust and water, and represents the highest level of protection offered in the rental electric kart market. Furthermore, E-Viper has the most advanced kart monitoring tools, such as the vehicle control unit (VCU) and the battery management system (BMS). So as to allow all owners of rental kart tracks to always have the actual "health" status of their kart fleet under control. Thanks to these tools, OTK Kart Group offers, for each battery, guarantee and continuous support regarding maintenance and technical assistance.

In detail

- The VCU offers several features, such as stop-on-ramp function and the ability to disable the accelerator pedal while charging or braking.
- The BMS provides real-time monitoring of battery status and error detection, with instant shutdown to protect the component.

In detail

Regarding the charging station and the necessary timing:

- 7 kW three-phase chargers are required. Specifically supplied by OTK Kart Group, they communicate via CAN with the battery control unit, ensuring optimized charging times and greater longevity of the batteries themselves.
- The time ratio between charging and driving is 1 to 1. This means that 20 minutes of charging corresponds to approximately 20 minutes on the track.





**For a
non-stop
business**

EASY MAINTENANCE AND TRAINING PROGRAM, ALL THE ADVANTAGES OF A PARTNER LIKE OTK KART GROUP

Faced with unrivaled performance and durability in the kart rental sector, E-Viper kart has also been specifically designed to minimize wear of the chassis (and its components) during activity on the track and to allow easier maintenance for all kart rental track operators. Furthermore, by carrying out checks on the karts according to the indicated intervals and taking care to offer its customers the right information about the best practices to keep on the track, the items relating to the annual maintenance expense of the kart are reduced to a minimum.