

Viper Sport Power Cycles

Transform your wheelchair in seconds. Transform your life forever...



Introduction

Viper power cycles are powered quick release front attachments designed to fit the majority of fixed frame wheelchairs and will transform your wheelchair into a rugged and reliable battery powered go almost anywhere form of transport.

Easily transported in the back of your car and ready to use within seconds.

Viper power cycles will transform the way that you use your wheelchair.

Taking the dog for a walk for example is now easy; the kids will love it now you can keep up with them. Stroll along the beachfront or meander through wooded paths. Are you a keen angler, if so getting to that out of the way fishing spot is now much easier. Most places that were otherwise inaccessible such as festivals, boot sales, steam rallies and much more are now accessible thanks to the Viper.

Viper Power Cycles are Versatile, Effective and Efficient

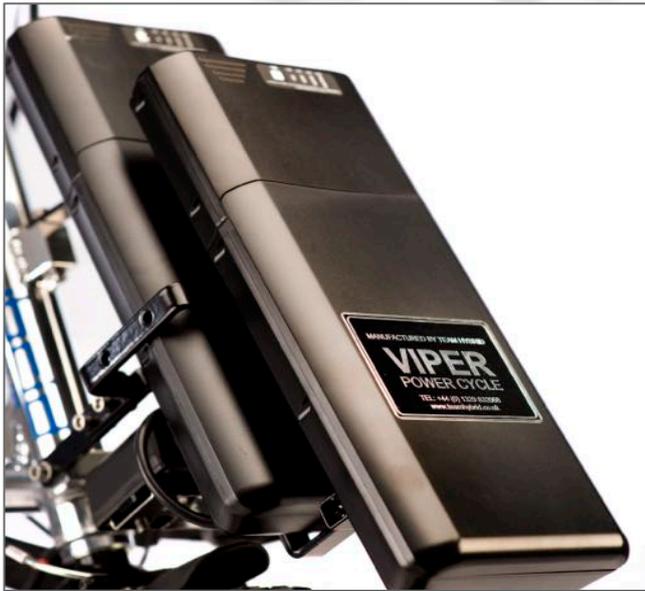
The electric system we have chosen for the Viper Sport is made to the highest standards it is for it's size and weight one of the most powerful there is. By power we mean high torque or great hill climbing capability.

Weighing in at 3.7Kgs the brushless motor with inbuilt planetary gears and freewheel is built with exceptional technical specifications. With minimal drag, the motor spins with minimal resistance when freewheeling downhill for example.

The motor controller (mounted on the battery carrier) is treated with waterproof conformal coating and is potted and sealed with a black rubber material inside the aluminum housing.

Viper Sport comes equipped with double V-Brakes, one of the brake levers cuts power from the motor when the brake is applied. The second lever houses a parking locking button.





Batteries

Highly Compact, Lightweight and long Lasting: Our 36V Lithium-Ion battery weighs only 2.5kg. The 18650 Panasonic cells used in our batteries are widely known to be the finest available.

Protected by a BMS (battery management system), the batteries provide a great combination of energy density and cycle life, allowing you to achieve more miles per charge and minimize customer returns.

Highly Reliable: The battery management technology protects packs from heat, voltage imbalance, under-voltage and over-current. The BMS dramatically improves cycle life and prevents battery fires and explosions. All Li-ion cells benefit from precise battery and pack management technology.

Li-ion battery packs with a capacity exceeding 300Wh are classified as Hazardous Material – Hazmat Class 9 and will not be allowed on aircraft. Our standard Viper battery is over the 300Wh threshold. We can supply 8Ah 288Wh batteries if you intend to fly with your Viper.

Docking System

Viper power cycles can connect to most rigid wheelchair via a lightweight docking system that is permanently mounted under the wheelchair.

The rear of the docking system is clamped to either the back axle or a tube across the back of the chair. The front of the docking tube mounts to the crossbar underneath the seat canvas towards the front of the chair.

Fatigue Testing

Our docking system has succeeded in passing vigorous fatigue trials, this included being dropped tested 6,667 times along with a drum test (rolling road) of 200,000 cycles, without failure or the need for adjustment.

Testing was carried out using the Viper power cycles connected to a Quickie GPV wheelchair.

