



SWINCAR
North America

CONCEPT

Swincar's concept combines the principles of pendulum balance and kinetics.

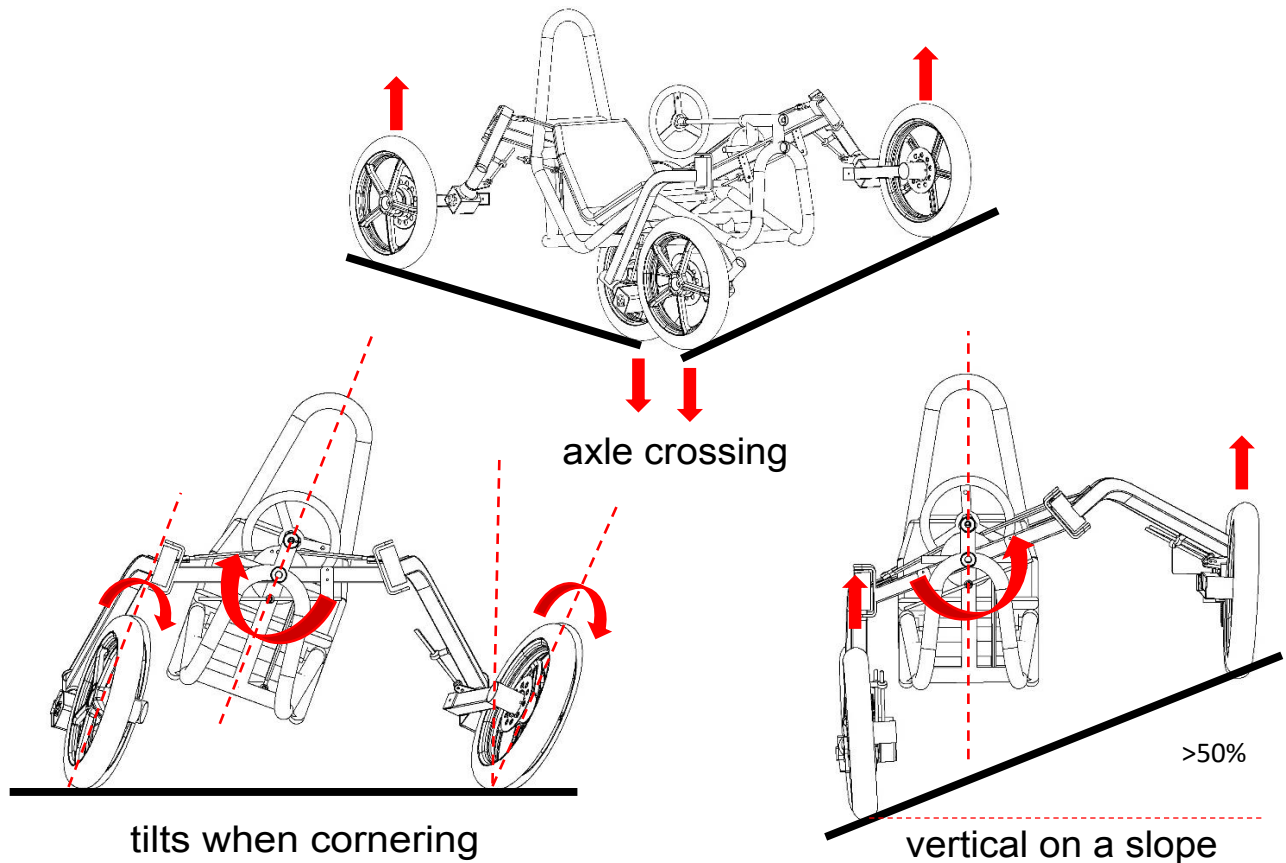
The driver's compartment (or nacelle) and the wheels are articulated on longitudinal axes, which allows the nacelle to tilt when cornering or on a slope.

This pendulum movement is possible because the:

- center of gravity of the nacelle is situated below its pivot axis,
- pivot axis of the wheels is below their contact point with the ground.

The nacelle and the wheels each have an independent pendular effect, but are linked in their pivoting.

All 4 wheels steer, which means the driver always has a positive and direct feedback from the steering wheel.



This pendulum balance concept is protected by international patents.

WHAT IS A SWINCAR?

The Swincar e-Spider is an innovative electric off-road vehicle that makes no noise and leaves no trace. Allows drivers to explore:



Adventurously

Powerful 4-wheel drive and independent articulating arms that can take you places you wouldn't expect.



Responsibly

Electric: no noise and no emissions. Lightweight and low-impact to leave the world just the way you found it.



Safely

The patented pendulum design keeps you upright with all four wheels on the ground.



No Matter What

Designed with accessibility in mind, Swincars can become adaptive vehicles like no other.

SWINCAR e-SPIDER MODEL



Four wheel steering on independent suspensions
Four wheel drive- Engine brake and reverse gear
4.5 kWh battery (90Ah) integrated in the body frame (nacelle)
Natural tilting when cornering
Vertical correction on a slope
F1 type steering wheel, steering column with lock
All the controls are grouped around the steering wheel
4 Hydraulic disc brakes 220mm (8.7in)
Accessible to all
Designed and manufactured in France

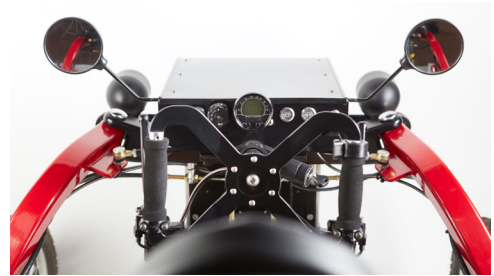
 30 km/h

 4 hours

 4 kW

DIMENSIONS

Length:	6.6ft/2.00m
Width:	4.5 ft/1.36m
Height:	4.4 ft/1.35m
Wheelbase:	4.9 ft/ 1.50m
Ground clearance:	.85 ft/0.26m
Weight with battery 4.5kWh:	463 lbs/210kg



Total rated power: 4 kW, total peak power: 12 kW
Total max torque: 340Nm
LiFePO4 4kWh batteries integrated into the nacelle/body pod
4 hours range with up to 1000m (3,280 ft) ascent
Battery charging time 2 to 3 hours
Battery recharging during downhill driving

SINGLE SEATER IN ACTION



SWINCAR E-SPIDER TANDEM MODEL



Four wheel steering on independent suspensions
Four wheel drive- Engine brake and reverse gear
4.5 kWh battery (90Ah) integrated in the body frame (nacelle)
Natural tilting when cornering
Vertical correction on a slope
F1 type steering wheel, steering column with lock
All the controls are grouped around the steering wheel
4 Hydraulic disc brakes 220mm (8.7in)
Accessible to all
Designed and manufactured in France



30 Km/h



3 hours



>4kW



DIMENSIONS

Length:	8.2 ft/2.50m
Width:	4.5 ft/1.36m
Height:	4.4 ft/1.35m
Wheelbase:	6.4 ft/1.95m
Ground clearance:	.85 ft/0.26m
Weight with battery 4kWh:	551 lbs/250kg



Total rated power:>4 kw, total peak power: >12 kW
Total Max torque: >340Nm
LiFePO4 4kWh batteries integrated into the nacelle/body pod
3 hours range with up to 1000m (3,280 ft) ascent
Battery charging time 2 to 3 hours
Battery recharging during downhill driving

TANDEM IN ACTION





MOBILITY

Swincar's innate design has the needs of drivers with mobility challenges in mind. Either a single seater or a tandem can be configured with one, or more, mobility options.

Standard vehicles are hand-controlled and the "Swingarms" can open wide to enable the driver to transfer from a wheelchair into the Swincar. Other options for accessibility include power steering, progressive brakes, rallye seat with extra support, and a joystick operated model.



The manufacturer is continuously innovating, making the Swincar the best choice for "off-roading for all". For more information check out our website: SwincarUSA.com/mobility/.



ACCESSORIES

Swincar is constantly innovating and has developed many optional accessories, more can be found on SwincarUSA.com



Top Case

This stylish storage case gives the extra capacity you need to take the essentials with you on the trails. Fits perfectly on the folding rear cargo rack.



Foldable Cargo Rack

Take your essential gear with you. This sturdy cargo rack will hold over 100 lbs of gear and folds up and out of the way when not needed.



Mud Guards

Durable and flexible, they reduce spray of water, mud dirt and debris from the tires. Have these installed to protect driver, passenger and vehicles behind you.



Foldable Windshield

Provides protection against wind and debris. Meets 49 CFR 571.205 standards for registering Swincars on-road as Low Speed Electric Vehicles.



Performance Brakes

Combine hydraulic and electric braking to maximize stopping power and efficiency. Ideal for those who want to control braking with a very light touch.



USB Port

Charge your devices on the go directly from your Swincar. For standard phone charging, experience virtually no reduction in range, while staying connected.



Trailer

Custom design allowing you to carry more gear on your adventures! Single wheel and swivel hitch keep trailer upright while the Swincar pendulum keeps driver upright



Solar Panel

Keep the adventure going! This kit provides enough power to charge an empty battery in under 3 hrs; it folds down to be carried on the trailer or cargo rack.

OWNING A SWINCAR FLEET

”Eco-Tourism Perfected”

Swincar fleet operations are on the cutting edge of adventure tourism. Our tours are the first of their kind, giving guests freedom to explore without disturbing people nor wildlife, and without leaving any permanent mark on the landscape.

Still brand new in the U.S.A. and Canada, tour operators can give their guests an experience they’ve never had and that they’ll never forget.



Special fleet pricing is available, along with detailed training on safe operations and maintenance, on-going support and turnkey operation tools. Contact the Swincar North America team to inquire about how to start your own profitable Swincar business.

OWNING A SWINCAR

Driving and Maintenance

Driving is easy and accessible to all, but with its powerful performance the vehicle should be driven in a gentle and controlled style, respecting other people and the environment.

The absence of transmission and lubrication means minimal maintenance requirements. Maintenance and technical settings are described in the owner's manual.

The battery can be charged on a standard socket 120V/20A at a temperature above freezing (32F).

Warranty covers manufacturing defects for 1 year, and battery for 2 years or 250 hours of drive time.

Road Approval

When properly equipped, the Swincar e-Spider can be registered as a Low Speed Electric vehicle in the U.S.A., as it complies with Federal Motor Vehicle Safety Standard #500, published 2006 by the US National Highway Traffic Safety Administration (NHTSA) and the U.S. Department of Transportation (DOT). Specific requirements vary by state.

Swincar North America is evaluating Canadian regulations for on-road registration. Consult your Canadian Swincar dealer for more details.



SUPPORT FOR OWNERS

Adventure Sports Innovation (ASI) is the official Swincar distributor in North America. Individuals or business partners can purchase Swincars directly through ASI, or through our growing network of Dealers, Service Providers and Test Drive locations.

Swincar purchasers will receive comprehensive training materials (including manuals and videos), and support (including live video calls) to prepare them to safely operate and maintain their vehicles. On-going service support is available from Adventure Sports Innovation, or from the nearest Swincar service location.



HISTORY



The Swincar concept began as the brainchild of Pascal Rambaud - architect, inventor, and motorsports enthusiast. He perfected the patented pendulum design at his home in France, where the Swincar factory continues to innovate and produce vehicles engineered to world-class standards.

The ISO-9001 certified factory in Allan, France assembles, certifies, and test drives each Swincar before they are shipped.



Test drive your Swincar now!

Exclusive North America Distributor:
Adventure Sports Innovation
191 River Street. Chattanooga TN 37405
www.SwincarUSA.com

For information on dealers, test drive locations,
and how to purchase, contact us at:
info@AdventureSportsInnovation.com

(423) 225 -4300

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The photos in this guide are for illustrative purposes only, and the manufacturer reserves the right to make modifications to the components and manufacture of the vehicle without updating this brochure.