



SWINCAR

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HISTORY

INVENTOR

Pascal RAMBAUD

An architect who became a solar architecture specialist in 1980.

Mountaineer and expert in risk management in both the mountains and industry, he has conducted hundreds of studies on safety and energy dissipation at many different sites and filed numerous patents.

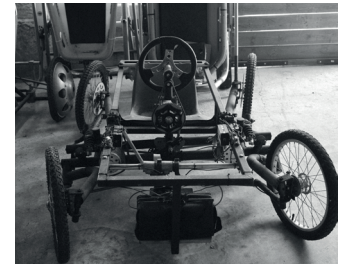
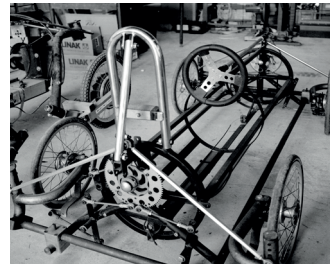
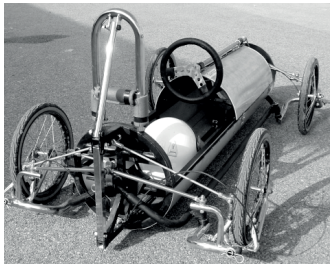


A motorsports driver, he patented, manufactured and marketed the DRIV'UP go-karting trolley, which sold over 10,000 units in Europe and USA.

SWINCAR represents his continuing inventive adventures: the pleasure that comes from research, innovation and new discoveries.

Starting from a blank sheet this original concept involved considerable theoretical and practical work to create a working vehicle, which combines the principles of pendulum balance and kinetics.

Prototypes



CONCEPT

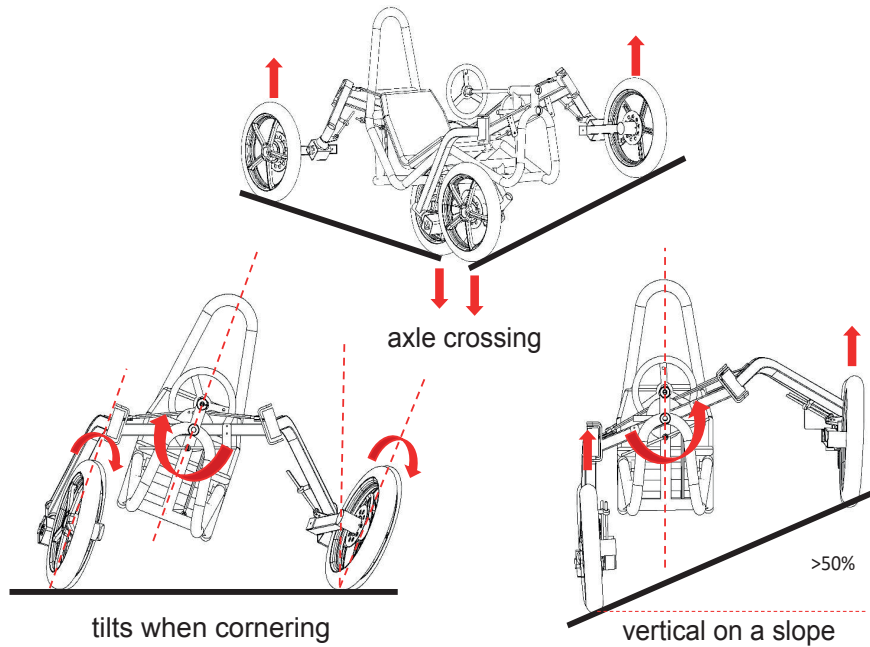
The driver's compartment or nacelle and the wheels are articulated on longitudinal axes, which allows the nacelle to tilt when cornering or on a slope.

This pendulum movement is possible because:

- the center of gravity of the nacelle is situated below its pivot axis,
- the 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.



The pendulum balance concept is protected by international patents.



IN THE NEWS

Media coverage

SWINCAR has already created an extraordinary social media buzz with more than 100 million views worldwide on Facebook, thousands of press articles and many TV reports.



Swincar: Um Carro Elétrico Que É Meio Aranha, Meio Off-roader E Totalmente Incrível

Kiosque  Style de vie  Autre mode de vie  FiatOut  Swincar



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Das soll ein Geländewagen sein? Das Swincar wirkt eher wie ein Modellbausatz, eine Mischung aus Go-Kart, Spinne und Bergziege. Doch im Gelände ist es unaufhaltbar.

Awards



Geneva (Switzerland)

International Exhibition of Inventions



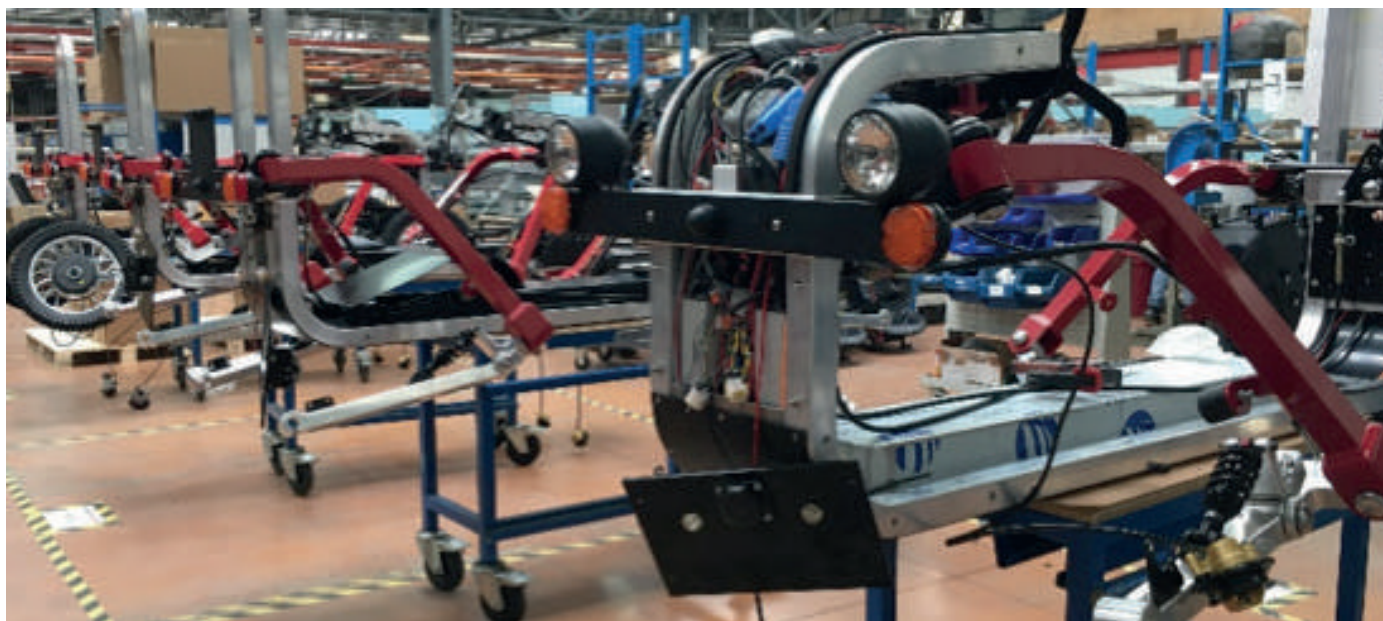
Paris (France)

JANUS Design Excellence Award

MADE IN FRANCE

The SWINCAR e-Spider is designed and manufactured in department of Drôme, located in the Auvergne-Rhône-Alpes region of the South of France.

The assembly is carried out by a specialist, ISO 9001 certified, manufacturer.



EXPERIENCE

OVERCOMING OBSTACLES



ENJOYMENT TOGETHER



ACCESSIBLE TO ALL



RESPECTFUL IN USE



THE SILENCE OF NATURE





PRODUCT RANGE

SWINCAR E-SPIDER MODEL



Light electrical quadricycle one-seater
Four wheel steering on independent suspensions
Reverse gear
Foldable rear rack for bags, equipment etc (optional extra)
Natural tilting when cornering
Vertical correction on a slope
Four wheel drive- Engine brake
2 Front Hydraulic Disc brakes 220mm
2 Back Hydraulic Disc brakes 220mm (optional extras)
All the controls are grouped around the steering wheel
F1 type steering wheel, steering column with lock and 2 keys (optional extra)
Accessible to all
Designed and manufactured in France

 30 km/h

 4 hours

 4 kW

DIMENSIONS

Length:	2.00m
Width:	1.36m
Height:	1.35m
Wheelbase:	1.50m
Ground clearance:	0.26m
Weight with battery 4kWh:	210kg



- Total rated power: 4 kw, total peak power: 12 kW
- Total Max torque: 340Nmm
- LiFePO4 4kWh batteries integrated into the nacelle/body pod
- 4 hours range with up to 1000m ascent
- Charging time 2 to 3 hours
- Battery charging time 2 to 3 hours

SWINCAR E-SPIDER TANDEM MODEL



Light electrical quadricycle two-seater
Four wheel steering on independent suspensions
Reverse gear
Foldable rear rack for bags, equipment etc (optional extra)
Natural tilting when cornering
Vertical correction on a slope
Engine brake on 4 wheels
4 Hydraulic Disc brakes 220mm
All the controls are grouped around the steering wheel
F1 type steering wheel, steering column with lock and 2 keys (optional extra)
Accessible to all
Designed and manufactured in France



30 Km/h



3 hours



>4kW

DIMENSIONS



Length:	2.50m
Width:	1.36m
Height:	1.35m
Wheelbase:	1.95m
Ground clearance:	0.26m
Weight with battery 4kWh:	250kg



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

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 driving style maintaining respect for 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 230V/16A, (or 120V/2015Ah) at a temperature above freezing (0degC).

General conditions of warranty apply. Warranty does not cover wear parts such as tires, brake pads, cables, shock absorbers, etc unless there is a manufacturing defect.



RANGE AND ROAD APPROVAL

The SWINCAR e-Spiders are road legal and can be registered and driven on public roads in Europe:

- The SWINCAR e-Spider range MAGA approved for driving on public roads in France
- SWINCAR e-Spider one seater registered as a light quadricycle (L6e-A) approved for driving on roads under European directive 168/2013 / EC.





Notes



SWINCAR

Brand name registered in France and International
French and international patents
Designed and manufactured in France

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