

RENTAL LINE

N35ST

N35GT

N35RS

↳ kart



*The new Rental Line
is beyond compare*

*Here it is with
all its plus*

www.birelart.com

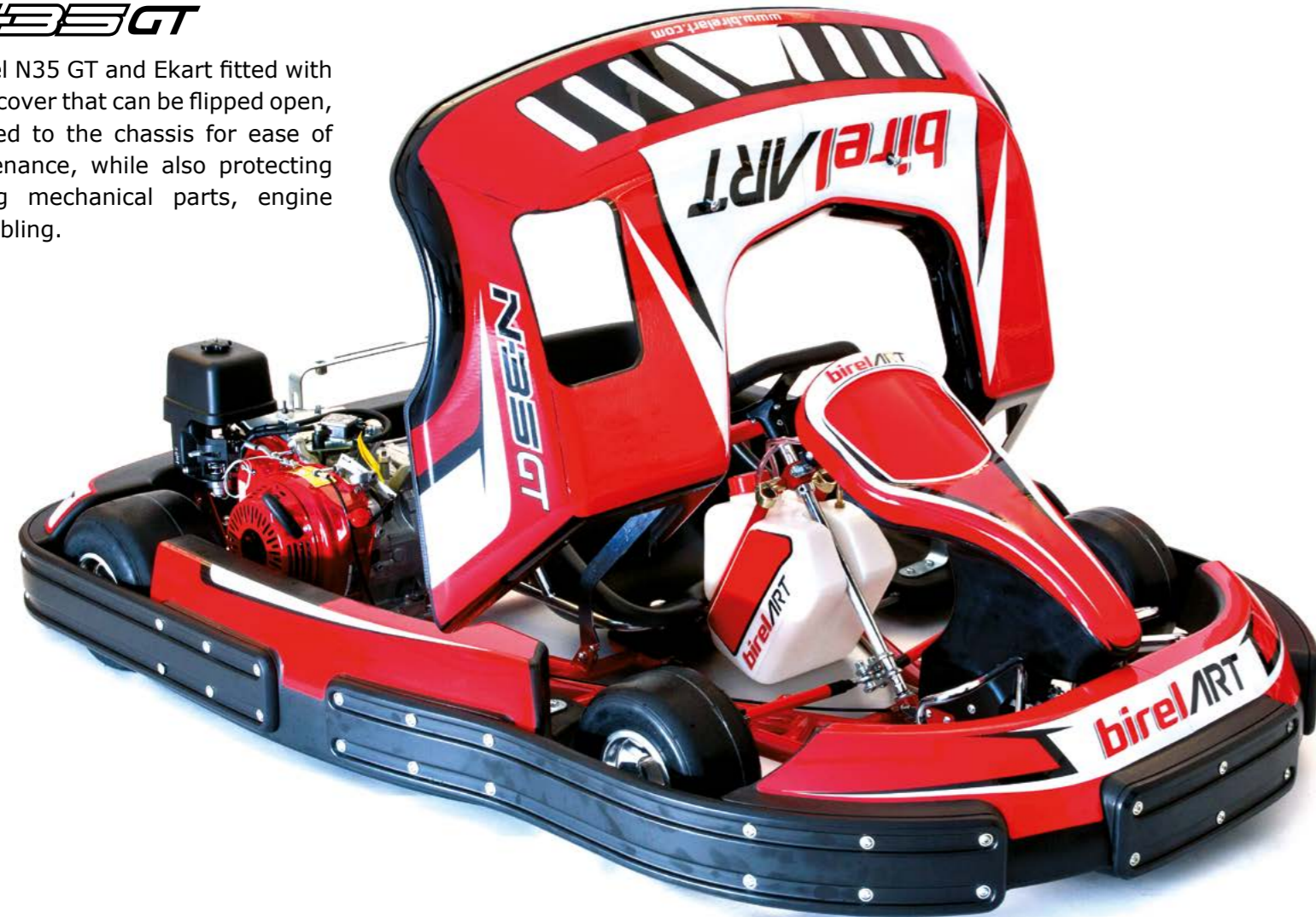
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The **RENTAL KART** of the **FUTURE**

- 30
KILOGRAMS

N35GT

► Model N35 GT and Ekart fitted with a half-cover that can be flipped open, tethered to the chassis for ease of maintenance, while also protecting moving mechanical parts, engine and cabling.



LIGHTNESS

It weighs around 30 kilos less than the competitors, which means reduced fuel consumption, longer tyre life, greater reliability and reduced maintenance and running costs.



ECONOMICAL

A simplified general management for ease of operation for mechanical repairs and longer lifespan for parts.



MANAGEABILITY

Easy to drive thanks to adjustable and anatomical positioning of the seat and pedals, as well as improved performance and lateral grip in corners, replicating the feel of real kart racing.



INNOVATION

A technically innovative product that responds to the demands of the rental market, it took over twelve months to design and develop.



ELEGANCE

Attractive, futuristic artwork that evokes the lines of a racing kart, in terms of its graphics and its accessories.



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THE WINNING TECHNICAL CHOICES



N35RS



COVERS

Each model has a specific cover:

- ▶ Model N35 ST with adjustable seat fitted with rear end cover (to protect moving mechanical parts).
- ▶ Model N35 GT and Ekart fitted with a half-cover that can be flipped open, tethered to the chassis for ease of maintenance, while also protecting moving mechanical parts, engine and cabling.
- ▶ Model N35 RS fitted with a complete cover, featuring a rapid fixing system, made up of five quick-fit screws and a quick release steering wheel (optional) for easy removal. The cover has been designed to enclose the entire front and rear, thus creating a survival cell around the driver, with the aim of increasing safety.

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FENDERS

All the fenders are attached to the chassis by means of rubber inserts to isolate them from the chassis structure, thus ensuring increased safety on impact.



BODYWORK

The bodywork is made from memory system plastic, designed specifically to withstand and absorb impacts of over 10G. There are four practical handles for lifting the vehicle: two within the front bodywork and two at the rear.



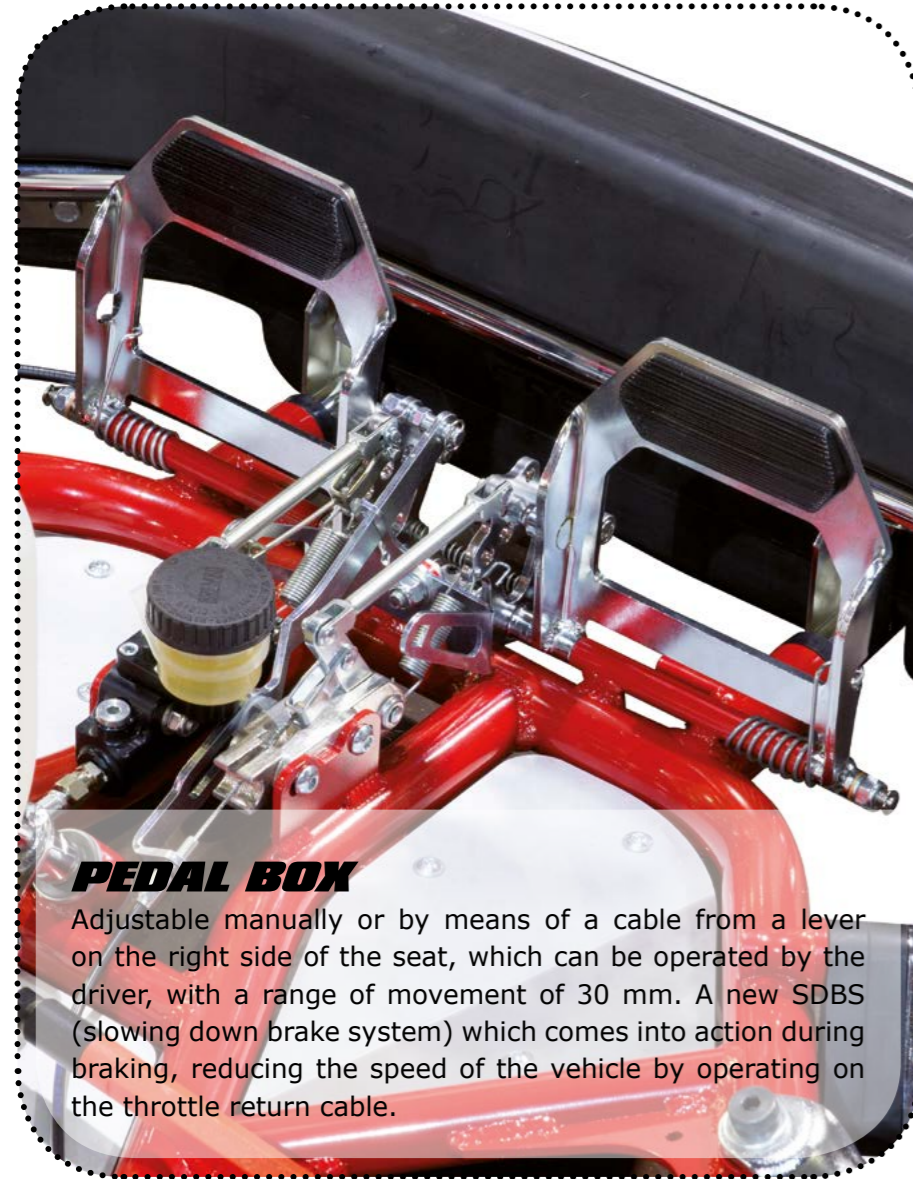
RUBBING STRIP

The plastic rubbing strips protect the extremities of the chassis, connecting all the bodywork elements, so as to absorb impacts and limit damage to the chassis, wheels and the kart's mechanical parts.



SEAT

The seat is plastic, mounted to a steel frame on runners that allow for a range of movement of 80 mm. The adjuster handle is conveniently situated on the left side of the seat. It is possible, on request, to have a version with a fixed seat.



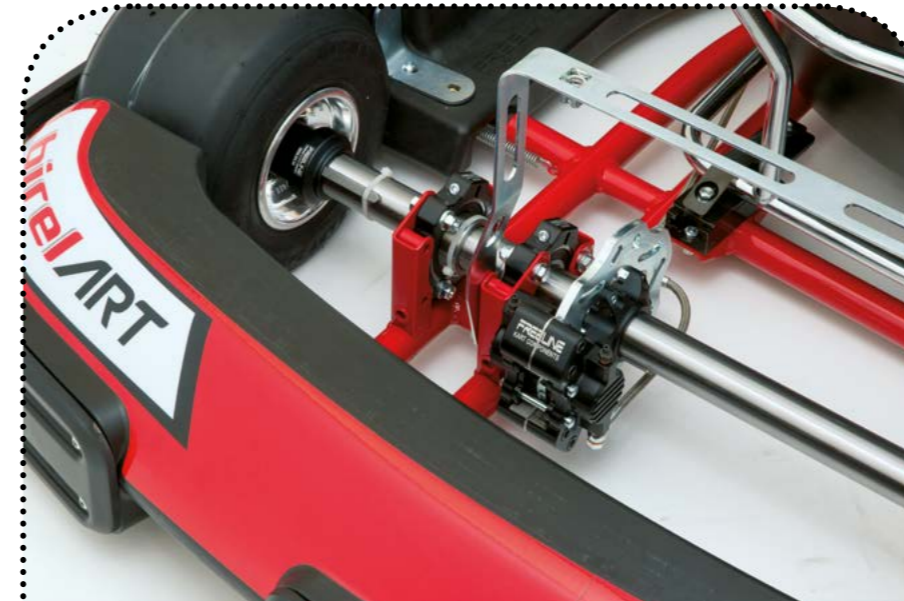
PEDAL BOX

Adjustable manually or by means of a cable from a lever on the right side of the seat, which can be operated by the driver, with a range of movement of 30 mm. A new SDBS (slowing down brake system) which comes into action during braking, reducing the speed of the vehicle by operating on the throttle return cable.



CHASSIS

Made from Ø 35x2 mm chrome molybdenum, with additional strengthening at key points. The design is derived from experience gained in racing, to produce a real Wow effect when driving.



BRAKE SYSTEM WITH SELF-ADJUSTMENT

- ▶ A Ø 22 mm master cylinder with separate fluid reservoir above the cylinder.
- ▶ Calliper with two Ø 38 mm pistons with road-car derived pads for longer life, which work on stainless steel runners to reduce friction and increase mileage.
- ▶ Aeronautical standard nylon brake lines, covered in stainless steel weave to withstand over 1000 bar pressure.
- ▶ Steel Ø 180 mm x 8 mm Wave disc, fitted to a fully machined aluminium calliper.



STEERING GEOMETRY

- ▶ Spindles with cast stainless steel body, with pressed lever and removable wheel axle by means of a fixing bolt.
- ▶ Steering tie rods made from special plastic material with aluminium bushes to fix uniball.
- ▶ Steel steering column with two positions to allow variations in steering geometry so as to choose the most suitable, according to use (indoor track, outdoor track, short, quick, mixed...)
- ▶ Each front wheel is mounted on four bearings to reduce axle loads as much as possible.
- ▶ Angled steering wheel support in pressed aluminium.
- ▶ 320 mm leather-covered steering wheel.



FUEL TANK

- ▶ 12-litre tank with automotive type bayonet fitting, accessible via a flap on the top surface of the bodywork for the RS model.
- ▶ Traditional fuel tank with 10-litre capacity for the ST and GT models.



AXLE

Axle made of molybdenum chrome steel with \varnothing 40 mm x 5 mm thickness, mounted on four bearings. Rear hubs made from fully machined aluminium with \varnothing 40 mm x 100 mm length, which are fixed with an 8 mm key that blocks the hub.



EXHAUST SILENCER

The karts can be fitted with exhaust silencers tailor-made for the Honda GX 200-270-390 and Briggs & Stratton 210-300-420 engines and are designed to increase performance and reduce both CO2 emissions and noise.



RICCIARDO KART RENTAL LINE



GRAPHIC CUSTOMIZATION SERVICE

On request, we can provide a personalised graphics for the karts, for tracks/sponsors/partners.

The **ELECTRIC RENTAL KART**

ONLY
165
KILOGRAMS

Be-kart



EASY AND QUICK REMOVABLE BATTERY



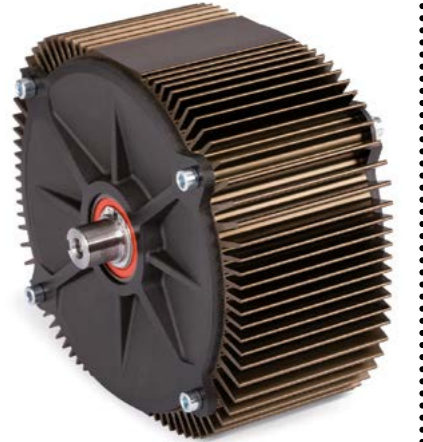
BATTERY

- ▶ Nominal voltage is 102 Volts
- ▶ Lithium Ion chemistry
- ▶ The most compact and light battery in the business for the amount of energy contained in battery
- ▶ Battery is referred to as 'Power Pack' by Zero Motorcycles



POWERTRAIN

Birel ART together with the Dutch specialist Be Karting has optimized the integration of the powertrain and the management software in order to warrant safety, reliability and performance, stability, consistency, weight and balance, based upon the functional simulation and on-track tests done by the Birel ART's R&D department.



MOTOR TYPE	FXS 75-5
MAX TORQUE	57 Nm
MAX POWER	27 hp (20 kW) @ 3.700 rpm
POWER PACK MAX CAPACITY	3.3 kWh
MOTOR COOLING	Air cooled with IPM Motor (Interior Permanent Magnet) for significantly better cooling
(ESTIMATED) PACK LIFE to 80%	127.000 km

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Our PARTNERS



Zero Motorcycles

- ▶ Based in Scotts Valley, California
- ▶ Worldwide leading manufacturer in electric motorcycles
- ▶ Dedicated Zero Motorcycles APP to configure the power settings



Be Karting

- ▶ Started collaboration with Zero Motorcycles in 2011
- ▶ Vision of Be Karting is to accelerate the introduction and acceptance of electric karts, both in the Rental market and the Racing market, by using the best in the business modular electric powertrain



Birel ART

TECHNICAL CHART

	N35ST	N35GT	N35RS	E-kart
WEIGHTS	140 KG	145 KG	150 KG	165 KG
Ø TUBES	D. 35	D. 35	D. 35	D. 35
WHEEL BASE	1070	1070	1070	1070
REAR WIDTH	1410	1410	1410	1410
FRONT WIDTH	1208	1208	1208	1208
LENGTH	2036	2036	2036	2036
AXLE	40x5x1080 K	40x5x1080 K	40x5x1080 K	40x5x1080 K
BRAKING SYSTEM	HYDRAULIC RR	HYDRAULIC RR	HYDRAULIC RR	HYDRAULIC RR
BRAKE POSITION	REAR	REAR	REAR	REAR
BATTERY BOX WEIGHT	---	---	---	21KG (including the box)
TANK CAPACITY	10 LIT ca	10 LIT ca	10 LIT ca	---
STEERING WHEEL	D. 320	D. 320	D. 320	D. 320
WHEELS	CH 120 or 130 DH 180	CH 120 or 130 DH 180	CH 120 or 130 DH 180	CH 120 or 130 DH 180
TYRES	VEGA RH8 <small>manufactured for Birel ART</small>	VEGA RH8 <small>manufactured for Birel ART</small>	VEGA RH8 <small>manufactured for Birel ART</small>	VEGA RH8 <small>manufactured for Birel ART</small>
PODS	N 35 ST	N 35 GT	N 35 RS	N 35 GT
BACK COVER	FIXED	DUMPING SYSTEM	FULL COVERED BODYWORK	DUMPING SYSTEM
SEAT	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM
PEDAL	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM	ADJUSTABLE SYSTEM
HOMOLOGATION-CE	2006/42/CE	2006/42/CE	2006/42/CE	---



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Birel-ART

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