

# AQUILA



# SYNERGY



## *Thank you for choosing Aquila...*

The Synergy has been designed to be our entry level race car with Motorsport beginners in mind, unlike our other products the Synergy is sold in two different kit formats, alongside a fully assembled option. The ethos of Aquila is to produce affordable racing options and the Synergy is our greatest achievement to date.

Aquila is all about racing, more specifically it is about racing without the need for a large budget. This is why we have carried over the simple component concept that was a success in our CR1, the design of bodywork, running gear and suspension is simplified to be affordable and reduce the amount of spares teams need to carry. The bodywork is broken down into sections that can easily be replaced, therefore it is possible to have an 'off' and then just replace the damaged corner and not half the bodywork. Brake discs, Top hats, Calipers, Pads and Uprights are identical front and rear, as are Hubs, Wheel bearings and Hub carriers. All suspension members are genuinely non-handed, i.e. the same part is used left and right, and all spare suspension arms are jigged and come delivered complete with pressed-in spherical bearings so that no adjustment is required when one is replaced.

Although not the fastest car we have produced the Synergy's low weight of just 400kg makes the car very fun to drive and perfect for beginners. Designed in conjunction with universities, the Synergy is great value for student teams looking to build their own car and go racing on a budget without the fear of making mistakes. The car is very forgiving.

In 2016 and 2017 we ran 3 Aquila Synergy in the BRSCC Excool OSS championship in class, through reliability we achieved 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in class E for 2016, then ran our class in 2017. All three cars ran on one set of slicks, used around a third of the chosen brake pads and the fuel bill was only €250 per car!

We also like to point out that the following items are standard on the Aquila Synergy, thus already included in the price tag:

- ✓ Brake lights and rain light
- ✓ Adjustable pedal box
- ✓ Plex SDM102 Pro dash
- ✓ FIA approved fire extinguishing system
- ✓ FIA specification roll over section
- ✓ Adjustable rear wing
- ✓ Sectional bodywork

<b>Quick spec</b>	
Engine:	1KR-FE
Weight:	410kg (dry weight)
Power:	93hp
Power-to-weight ratio:	227 hp per tonne

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## *Aquila Synergy specification:*

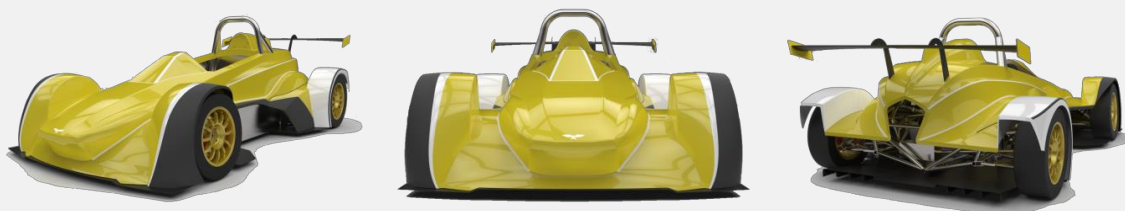
Weight:	410kg (dry weight)
Transmission:	H pattern 5 speed gearbox.
Chassis:	High strength Aluminium bonded and riveted monocoque.
Brakes:	Wilwood 4 piston front and rear with ventilated discs. (interchangeable)
Fuel cell:	27 litre centre mounted fuel cell.
Suspension:	Double wishbone suspension with adjustable ride height, interchangeable left/right on the front and rear.
Wheels:	13"X6.5" front/13"X6.5" rear.
Bodywork:	GRP lightweight composite bodywork. Sectional bodywork for easy repair.
Cockpit:	Simple dash system, over spacious design, adjustable pedal box. Plex SDM102 Pro dash.
Safety:	FIA spec fire extinguisher system, FIA Spec 6 point harnesses, front crash box, FIA spec roll over section. Centred driver position.
Adjustable rear wing:	Yes.
Adjustable ride height:	Yes.
Cockpit adjustable brake bias:	Yes.
Universal uprights:	Yes.

### **The Turn Key version: €32,320.00 + vat**

(Fully assembled—ready to race)

\*Prices are Ex works

Length:	3,020mm	Width:	1,680mm	Height:	1,090mm
Front track:	1,454mm	Rear track:	1,454mm	Wheel base:	2,010mm



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## *Why do our customers choose Aquila?*

- ✓ Multiple championship victories in Europe
- ✓ We take great pride in every car we build, every car comes with registered papers and factory support
- ✓ Our cars have a low possible centre of gravity greatly reducing tyre wear
- ✓ Aquila has an Aerospace grade design team and we produce a lot of our parts based on Aerospace practises
- ✓ We have over 20 years of combined experience building winning race cars
- ✓ Our friendly and inviting sales and service staff are always ready to help
- ✓ Stunning styling
- ✓ We have a very user friendly concept
- ✓ Proven track records
- ✓ We work on a very professional level with both customers and suppliers
- ✓ Our genuine passion can be seen through our pro-active approach to raising awareness about motorsport through students



***‘Proudly made in  
Denmark’***

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