



JS Releases JS1C-18 EVO model

Jonker Sailplanes is proud to announce our improved 18m sailplane, the JS1C-18 EVO. This dream sailplane that evolved from the JS1-C18 model was recently revealed at the 33rd World Gliding Championships in Leszno, Poland.

The JS1C-18 EVO redefines handling in the 18m class, offering both an improved roll rate and superb control at slow speeds. The increased wing loading, combined with new tip aerofoils and 3rd generation winglets, also gives JS1C-18 EVO the edge at high speeds. JS1C-18 EVO offers the serious competition pilot a performance advantage while remaining suitable for every pilot due to its handling qualities.

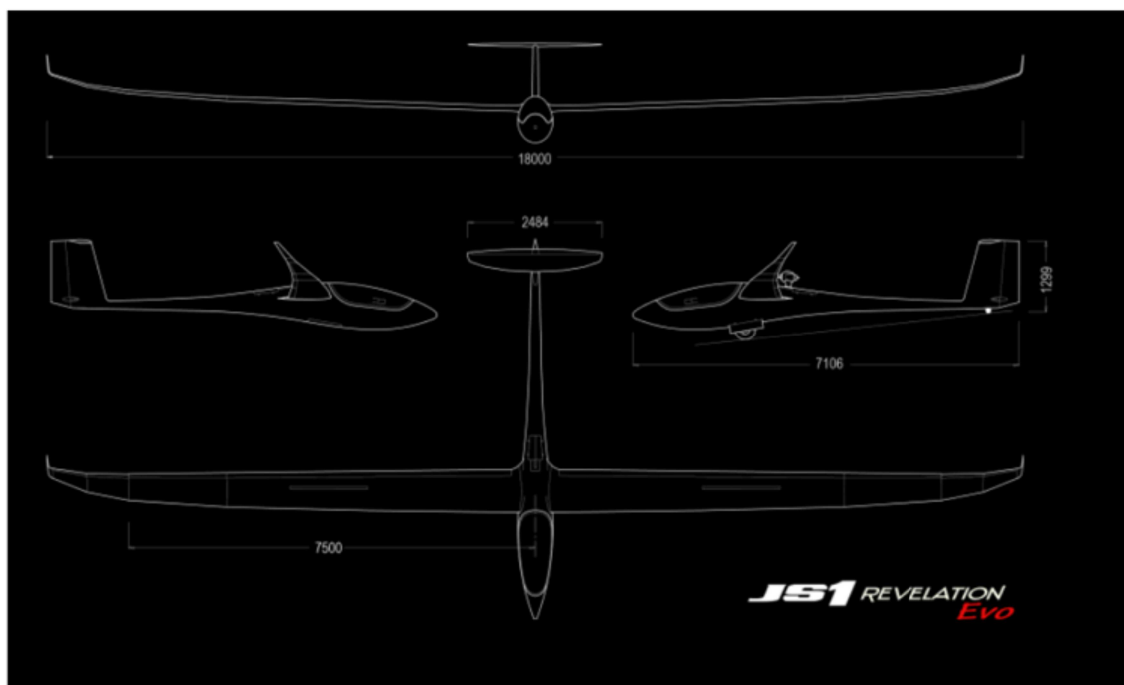
The design of the JS1C-18 EVO started in October 2013 with our Chief Aerodynamic Engineer, Dr. Johan Bosman redesigning the outboard wing using the latest Computational Fluid Dynamics (CFD) design methods. It was planned to have the improved outboard wing sections ready for the WGC of July 2014. Within six months the project went from a paper design to reality, with 2 sets of the new outboard tips making their debut on the gliders of Uys Jonker and Attie Jonker.





Specifications JS1-C18 EVO

3D View JS1C - 18 EVO



Dimensions and Weights

Dimensions and Weight

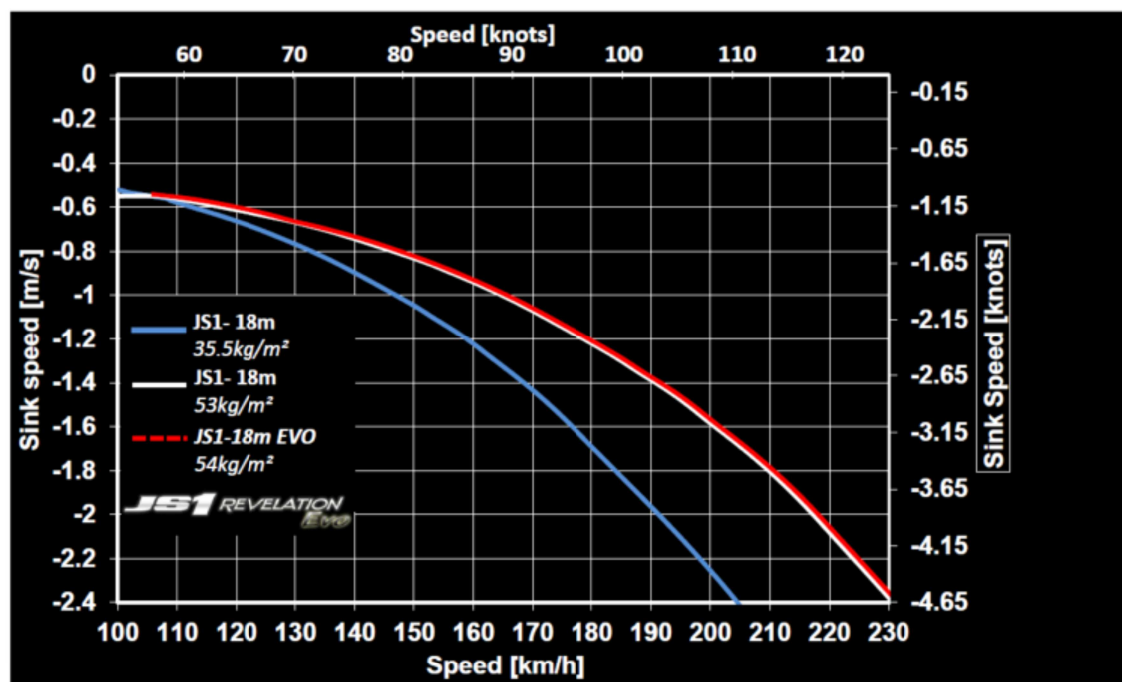
Wing Span	18 m	59.1 ft
Wing Area	11.1 m ²	120 ft ²
Aspect Ratio	29	
Fuselage Length	7.16 m	23.5 ft
Fuselage Height	1.32 m	4.3 ft
Maximum Weight	600 kg	1323 lbs
Wing Loading (max)	54 kg/m ²	11.1 lb/ft ²
Wing Loading (min, 70kg pilot)	35.3 kg/m ²	7.2 lb/ft ²

Performance

Best Glide Ratio	1:53	
Minimum Sink Rate	0.5 m/s	100 ft/min
Best Glide Speed at max. weight	120 km/h	65 kts
Best Glide Speed at 450 kg	100 km/h	54 kts
V _{NE} Never Exceed Speed	290 km/h	157 kts
V _{RA} Rough Air Speed	203 km/h	110 kts



Performance Polar 18m Class



Comments from Attie and Uys

In the handling department we were astonished by the improvements:

1. Higher roll rate with a noticeable increased insensitivity around the stick centre position.
2. Improved roll stability at high angles of attack (near stall)
3. Stall speed not affected with the higher wing loading

“It almost has the feeling of a 15m glider” was Attie’s response. Not sure when Attie last flew a 15m glider.... (UJ)

Special WGC2014 Offer

We are happy to announce that the first 10 offers received during the WGC2014 for the new JS1C-18/21 EVO, will receive a LX9000 included free of charge.



The JS1-C 18X EVO - the most beautiful 18m glider ever made....



The Team that made it possible.....

