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The spirit of the SC07

All of us have one great passion – Flying. And among all the possible ways to get in the air, we believe that flying an ultra light airplane is special. Due to the light mass, the sensation of flying is much stronger and more intense compared to a regular aircraft. To put it in fewer words: flying ultra light is more instinctive flying.

Designed by pilots - for pilots!



SC07 speed cruiser

Borne from Passion

Four founders and on goal

The founders of the B.O.T. Aircraft group, Thibaud Berlinmont, Erwin Bigger, Jürgen Ostermeier and Reiner Tauern who all are passionate pilots, have always had the same vision of an ideal ultra light aircraft. After an unfruitful investigation of the existing market, they realized that the only way to get that aircraft was to build it themselves. For exactly that purpose they founded B.O.T. Aircraft in 2007. With the goal in mind - to produce a safe, easy to handle, comfortable and fast long range ultra light aircraft - the project SC07 was born. Together with an experienced production team, B.O.T. Aircraft have brought the SC07 Speed Cruiser to a production ready status.

Static tests

The SC07 had to pass rigorous static tests to apply for German certification. On top of the basic load, which is +/- 4G, B.O.T. Aircraft had to perform tests at a higher basic load due to forces applied at high speed in turbulent air. This higher basic load amounts to +/- 4.4G and allows us to fly in turbulent air at over 200km/h. The German authorities meanwhile instructed us to perform the tests with a security margin of 190%. Together with the security margin, the basic load of +/- 4.4G results into +/- 8.36G. Tremendous loads for the structure of the SC07 Speed Cruiser.

B.O.T. Aircraft realized that floats, glider towing and even a registration according to ELA1 or LSA could be achieved. So we decided to test the SC07 Speed Cruiser not only for a MTOW of 472.5kg for ultra lights, but also for 517kg for ultra lights with floats and for 600kg according to LSA or expected ELA1 rules.

Totally we calculated for the entire structure of the aircraft 480 cases of loads and performed the tests accordingly for the safety of our customers. For ultra light aircraft, a most probably never achieved level of security till today.

Suitable for long range travelling

B.O.T. Aircraft is particularly proud and happy to present an aircraft which is really suitable for long distance travelling - the SC07 Speed Cruiser.

Thanks to the aerodynamic shape and the perfectly adjusted propeller, the SC07 Speed Cruiser dispose of a travelling speed of 215 km/h. Combine that with the 90 liter fuel tank, which gives a range of about 1200km, and a spacious luggage compartment and you have a plane that is predestined for long range travelling. But what would be the benefit of all these features, without the high comfort given by body-contoured seats, an excellent view, a cabin width of 1.24m and a cabin heating system.

SC07 *speed cruiser*

Facts

Dimensions and weights

Wing span	8.10m
Wing area	10.03m
Length	6.65m
Height	2.10m
Cabin with	1.24m
Headroom	1.15m (Adjustable seats)
Legroom	1.15m
Fuel tank	87 Liter
Weight	294kg with rescue system (depending on optional equipment)
MTOW	Depending on registration and according to the national law UL-Class: 450 kg or 472.5 kg with rescue system UL with floats: 517kg ELA1 or LSA: 600kg

Engine group

Engine	Rotax 912 ULS (100HP)
Propeller	Carbon propeller (adjustable on the ground)
Fuel pump	Auxiliary electrical fuel pump

Performances

V _{NO}	232 km/h
V _{NE}	250 km/h (Speed never to exceed)
V _C	215 km/h (at 75% power setting)
V _{FE}	120 km/h (Max. with full flaps)
V _B	209 km/h
V _S	65 km/h
V _R	75 km/h with 15° flaps
V _{REF}	90 km/h with 40° flaps – Landing at 65km/h
Rate of climb	6.2m/s with 0° flaps, 110 km/h and 472.5kg MTOW
Takeoff distance	120m
Landing distance	160m
Range	~1200km

Some of these figures were measured or calculated before or during development. For the most up to date figures please see our internet site.

For more information please contact:

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