

B.O.T. aircraft



SC07 Speed Cruiser, the new world of freedom!



SC07 *speed cruiser*

from Pilot to Pilot!



...Made in Germany

*"Speed" and "Cruise" do not fit together?
Then it is time to meet the flying proof!*



The SC07 Speed Cruiser is a perfect long range traveller not only because of its wide cabin and the great comfort; but also the remarkable view which underlines the entire flying experience.

A high-end ultra-light aircraft **"Made in Germany"** which combines **technology, security** and **comfort!**

"Speed" + "Cruise" = modern and enjoyable flying!

Great words? **Yes!**

The proof is ready for your test flight! Fly the SC07 Speed Cruiser before you find yourself "sitting in a compromise"!



The most important arguments:



No Magic

No wonder, we as pilots, designed without accepting any compromises in precision the SC07 Speed Cruiser to match our personal needs. So we created a **carbon made** aircraft in a class of its own, and you will love it.



VB of 209 km/h (Green Arc)

Why does one need a fast aircraft, if one is not permitted to fly at cruise speed in any weather condition? We choose the safe way and offered the SC07 Speed Cruiser a VB of 209/km/h, a real safety feature.



Safety over all

We from B.O.T. Aircraft consider safety as the first priority. As a matter of principal, we deliver the SC07 Speed Cruiser only with a rescue system which is part of our standard equipment package.



20kt Demonstrated Cross-Wind component!

Coming from the northern part of Germany we are familiar with all weather conditions. For that reason we designed the SC07 in such a way that this aircraft may also be landed safely under strong cross-wind conditions.



Easy refuelling

Everybody likes easy refuelling. A big disadvantage of a high wing aircraft with fuel tanks in the wings is the refuelling process. With the SC07 Speed Cruiser refuelling it is as easy as refuelling a car, at the height of your hips and easily accessible.



Cabin width

The **124 cm** cockpit width is one of the biggest in the Ultra-Light Class and often even bigger as it is in the "PPL"-Class aircraft. Just enjoy this particular comfortable feeling with extra headroom space which is beyond your expectations.



Big Luggage compartment

Who really likes to travel caring only a tooth brush and a credit card? That is why we believed that a large luggage compartment (**~350 litre and 20 kg**) may be very much appreciated, especially by the ladies.



Easy maintenance

Except for the engine, the maintenance is generally easy and does not require much time. This helps to save money and increase the "fun factor" of flying as the forefront consideration.



Disabled Version

We also have a version for disabled pilots and those who dream to start flying: easy handling, cantilever high wings, upward opening doors and a big luggage compartment for the wheel chair, all ideal for the disabled version.



Multifunctional

The SC07 Speed Cruiser is, thanks to its easy handling and its traveller quality, predestined to be used for several purposes. What's more, flight schools can upscale their training programs!



87 Litre = Big range

With 87 litres, the fuel capacity enables one to fly within a range up to 1200 kilometres. Especially, in combination with the new D-Motor LF-26, the fuel capacity is very generous and invites long distance travel.



Available for you...

We know exactly how it feels when one is in trouble and requires immediate help. This is why we never hesitate to respond quickly your needs for help. We are always available for you!



Customer is king

One of our biggest strengths is to fulfil special requests from our customers. According to the principal, "nothing is impossible" and "wonders never cease" we do all to make your wildest dreams come true.



Colours

The main color must be white for technical reasons. However, regarding both internal and external cosmetic detailing, your choices of colors are limitless and extend as far as your imagination goes. Do not limit your fantasy.



No "off-the-peg" stuff

One can choose from a host of numerous extra equipment to satisfy your "ready-to-fly" unique SC07 Speed Cruiser that meets your custom requirements and technical demands.



German type certification

The German Ultra-light type certification is one of the most highly regarded certifications to have, hence, a definite seal of quality. Furthermore this aircraft was tested up to **600 kgs** (according to LSA MTOW) and offers even more security.



Technical Pole Position

Thanks to ever improving perfective enhancements we are at the cutting edge of aircraft development. The large payload in combination with the D-Motor, the safety factor, the incredible view and generous cabin, is unique in the UL-World.



Price/Performance ratio

We use mostly noble materials and highly valuable components; which is why our price/performance ratio is better than with most other manufactures. Notice our prices and substantial standard packages.



Alternative motorization

The SC07 Speed Cruiser exceeds other Ultra-light aircraft inasmuch as it can be ordered with two different motorizations schemes. The SC07 can be equipped with the innovative D-Motor LF-26 as well as with the most standardized Rotax 912 ULS.



On the water and as a towing machine

The SC07 Speed Cruiser can be equipped with our own production floats which opens new environment fields. The SC07 Speed Cruiser is also designed to tow gliders or banners.



Ultra-light not only a class

The SC07 Speed Cruiser, in its second edition, lost weight massively giving us an empty weight of **275 kg** with minimum equipment including the rescue system. This gives some room for a bit of luxury within an acceptable payload.



The white aircraft with a black soul

Even though the outside must remain white, the SC07 Speed Cruiser has a black soul of **carbon**. The entire aircraft is made out of carbon except for the skin of the wing tips which are made of fiberglass (about 1.5 m length).



The time is running

Welcome to the new dimension of freedom – Do not waste precious time to realise your dream of flying. You will never ever be so young and able to take your decision to order a SC07 Speed Cruiser.

The innovative D-Motor LF26

B.O.T. Aircraft GmbH, namely our team of engineers, have spent tremendous time in testing this engine and together with the engine manufacturers have improved it continuously. The UL-World has had to wait a long time for this engine, but it has been worth the wait. The D-Motor sounds like a "real" aircraft engine and is subjectively much quieter than a standard Ultra-light engine. In fact, it is reminiscent of these nice older aircraft. The exceptional sound and the special running smoothness makes this engine, in tandem with the SC07 Speed Cruiser, a perfect traveller for long distance flights and guarantees a lot of fun.



Caution: compelling addiction

Please be careful because you would risk a serious addiction to the SC07 Speed Cruiser equipped with the D-Motor LF26. You could be bind permanently to the aircraft as together they are just the perfect harmony.

The D-Motor LF26 is, equipped with an electronic multi-field injection and an electronic double ignition, technically state-of-the-art. The direct driven concept is also a tremendous advantage. Less parts = less problems and easier for maintenance.



Here a few facts:

- Double ignition !!
- Low consumption !!
- 93 HP / 220 Nm - direct drive !!
- Exceptional running smoothness !!
- 4-Stroke, 4 Cylinders !!
- Multi Point injection !!
- Robust and compact engine !!
- High engine torque !!
- 2.7 litre engine displacement !!
- Straight forward construction !!
- Extremely light !!



SC07 Speed Cruiser Specifications

Dimensions

Wing span	8.10 m
Wing area	10.03 m ²
Length	6.65 m
Height	2.22 m
Cabin width	1.24 m

Weight

Empty weight	> 275 kg including rescue system (depend on the equipment configuration)
MTOW	Depending on the registration and according to national law UL-Class: 450 kg or 472.5 kg including rescue system UL-Class with floats: 517 kg or ELA1/LSA: 600 kg

Engine group

Engine	ROTAX 912 ULS (100 HP) or D-MOTOR LF26 (93 HP)
Propeller	Carbon propeller adjustable on ground
Fuel pump	Auxiliary electric fuel pump
Fuel tank	87 litres

Performances

V _R	75 km/h	Lift-off speed with flaps at 15°
V _{REF}	90 km/h	Speed of approach with flaps at 42°– Landing at 65 km/h
V _{SF}	64 km/h	Minimum speed with Flaps at 42°
V _{SF15}	80 km/h	Minimum speed with Flaps at 15°
V _S	90 km/h	Minimum speed with Flaps at 0°
V _{FE42}	120 km/h	Maximum allowed speed Flaps at 42°
V _{FE15}	150 km/h	Maximum allowed speed Flaps at 15°
V _X	120 km/h	Speed for best angle of climb
V _Y	140 km/h	Speed for best rate of climb
V _A	156 km/h	Maximum manoeuvring speed
V _B	209 km/h	Maximum allowed speed with heavy vertical gusts
V _C	215 km/h	Cruising speed at 75% power setting and 100 HP
V _H	240 km/h	Maximum horizontal speed
V _{NE}	250 km/h	Maximum allowed speed to never exceed
Climb performance	6.2 m/s	Flaps at 0°, 110 km/h, 100 HP and 472.5 kg MTOW
Take off distance (1)	290 m	Over 15 m obstacle (flaps set to 15°)
Take off distance (2)	130 m	With flaps set to 15°
Landing distance	160 m	
Range	~1200 km	Depending on the speed, equipment and motorization
Cross wind	20 kt	Maximum demonstrated cross wind at landing

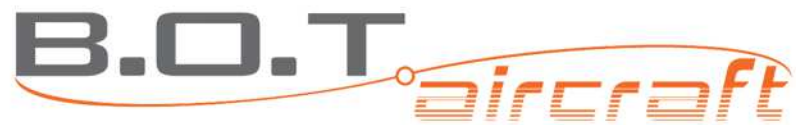


Born from Passion – The spirit of the SC07 Speed Cruiser

"Born from Passion" is B.O.T Aircraft's program. All of us, employees and owners alike live their passion for aviation. This passion gave the SC07 Speed Cruiser its spirit and birth to a world class aircraft full of technical refinements and intelligent solutions but also full of emotions which reflects all our passion.

The initiators of B.O.T Aircraft have realised with the SC07 Speed Cruiser their very personal dream and are ambitious to share it with other pilots and those who would like to become one. Beyond all possibilities to realize the dream of flying, flying with the SC07 Speed Cruiser, a full-fledged aircraft, is something very special. Ultra-light is poised here for conquering the skies in an economical and affordable manner.

This is the freedom we are looking for - ***Welcome to the New World of Freedom!***



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