

# FM250 Vampire

„Be as free as a bird,  
as fast as a sports car and  
as powerful as Vampires could be!“



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Vampires are beasts in legends and stories from Eastern Europe, but much of how modern people see vampires was created by Bram Stoker in the famous novel Dracula. A fantasy combination of power, speed and sporty elegance in clouds of perfection. Evolution knows only two species - hunter or prey. Which one are you?



CARBON DESIGN s. r. o., composite specialists - we are an original Czech company focused mostly on production of advanced composite parts from materials such as glass, carbon or carbon-aramid fabrics and composite sandwich constructions. Our mission is to reduce the final weight of products and achieve the positive effects of this such as ecological aspects, fuel consumption and a more sophisticated design. We also have our own products - the FM250 Vampire aircraft and the FM301 Shrew trike.



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BY CARBON DESIGN  
S. R. O.





We are part of great team that gathers more than 300 colleagues, deeply experienced in their field. We offer a full turnkey service from own original design, technology processing, mould and jig preparation and serial production. Time effective production with strong system of quality controls is important for us. We invite you to visit our workshop and consider by yourself if our company fits into your cooperation demand.



ABOUT  
CARBON DESIGN  
S. R. O.





## Certification of Production

100335

# CERTIFICATE

No. 42011245

 LL-C Certification

This is to certify that the Quality Management System of

**CARBON DESIGN s.r.o.**  
Hradecká 315  
551 01 Jaroměř, Pražské Předměstí  
Czech Republic

has been assessed and found to be in compliance with the standard

**ISO 9001:2015**

applicable to

**Development and production of advanced composite parts of high strength and extremely low weight for tailored applications especially for the aerospace and automotive industry.**

The certificate has been issued under No. 42011245 for the registration period from 19<sup>th</sup> July 2017 to 18<sup>th</sup> July 2020.




Approved by  Printed by 

  83137

validity code: **DB2F1C41-014**  
Check the validity of this certificate using this code at [www.ll-c.net](http://www.ll-c.net)

[www.ll-c.net](http://www.ll-c.net)

LL-C (Certification) Czech Republic s.r.o. | Poblěžní 620/3, 186 00 Praha 8

*Letecká amatérská asociace ČR – Light Aircraft Association of the Czech Republic*

## Approval for production, repairs, testing and import of sport flying equipment and its parts

Issued by the Light Aircraft Association of the Czech Republic (hereinafter the LAA CR) based on the authorisation by the Ministry of Transport according to the Act No.49/1997 Coll., on civil aviation, and on Act No. 455/1991 Coll., on engaging in trade (The Trades Licensing Act), as amended.

Registration number:  
**05 / 2016**

Approval holder:  
**CARBON DESIGN s.r.o.**

Address: Hradecká 315, Pražské Předměstí, 551 01 Jaroměř

ID/Date of birth: ID: 05285429

Responsible person:  
**Ing. arch. Roman Ivanov**

Address: 552 21 Rasosky 132

Date of birth: 12.06.1974

Scope of Approval:  
Production, maintenance and service of Sport flying facilities – ultralight aircrafts, aerodynamically driven, all composite construction.


Expert supervision is assigned to:  
**Ing. Petr Chvojka**

The approval holder is obliged to proceed according to the appropriate stipulations of the LAA CR regulation and of the pertinent stipulations of other regulations.

Issued: **16.12.2016**

Valid until: **16.12.2019**

*Letecká amatérská asociace ČR*  
Ke Kolibě 288  
104 00 Praha 10  
TEL: 245 203 887

  
**Ing. Václav Chvála**  
LAA CR Chief Technical Inspector

# BE <sup>FM250</sup> VAMPIRE II



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Be Vampire  
philosophy



FM250 Vampire aircraft is all-composite construction, equipped with quality components, carefully assembled and tested to provide the best flying pleasure. The FM250 Vampire has been well established on the market since 2009 and it has been continuously developing and improving since then. It is one of the lightest airplanes with this configuration on the market and it also fits in the new category rules with 600kg MTOW, which is really great, because it provides to all our pilots even more useful loads, that is always good, especially for long trips.



Flutter Test - part of  
Certification process






The FM250 Vampire is a low-wing UL aircraft, with two seats side-by-side. It is all composite construction consisting of a fiberglass sandwich combined with carbon structural parts. It achieved perfect properties in terms of its rigidity, weight and aerodynamic drag. FM250 Vampire offers a perfect all-round view. Its canopy opens so far that you can comfortably stand up into an upright position in the cockpit. FM250 Vampire is offered as „Ready to fly“ model with engine ROTAX 912 UL 80 HP or ROTAX 912 ULS 100 HP. Full dual controls are part of a standard configuration. There are also plenty of special accessories or options to make FM250 Vampire more customisable for different flying styles. Contact your local distributor or producer for more information.

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Length .....	6.049 m
Height .....	2.164 m
Wing span .....	7.8 m
Wing area. ....	10,05 m <sup>2</sup>
Empty weight (basic version) .....	265 kg
450 kg MTOW UL category .....	450 kg / 472,5 kg
600 kg MTOW UL category .....	600 kg
Never exceed speed VNE .....	270 km/h
Stall speed in landing configuration VSO .....	63,0 km/h *
Stall speed in clean configuration VSI* .....	78,0 km/h *
Cruise speed .....	180-220 km/h
Climb rate .....	4-7 m/sec at 120 km/hod
Take off distance over 15 m obstacle .....	290 m *
Engine options .....	ROTAX 912 UL / ULS
Fuel tank capacity .....	68-100 l
Range .....	800-1200 km
Glider air tows .....	up to 750 kg
Number of seats .....	2 (pilot, copilot)
* UL category 472,5 kg	

FM250 Vampire

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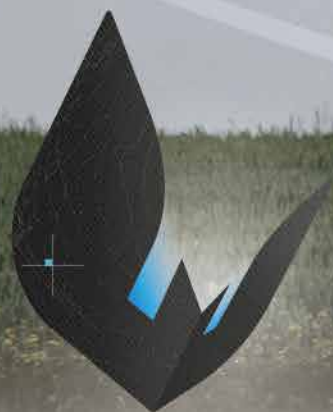
It proved to be a perfect plane for sport or recreational flying, pilot training and an ideal towing machine approved for towing gliders up to 750 kg. The production capacity as well as FM250 Vampire community is growing. Get into the Vampire team now!

FM250 Vampire uses only modern safety equipment with the name of best quality. The hottest model of FM250 Vampire accommodates the GARMIN G3X touch system and accessories, (the analogue version is still available for basic model), it has a redesigned interior with comfortable leather seats and other improvements, which are based on the feedback of pilots and instructors. So you can really enjoy flying.



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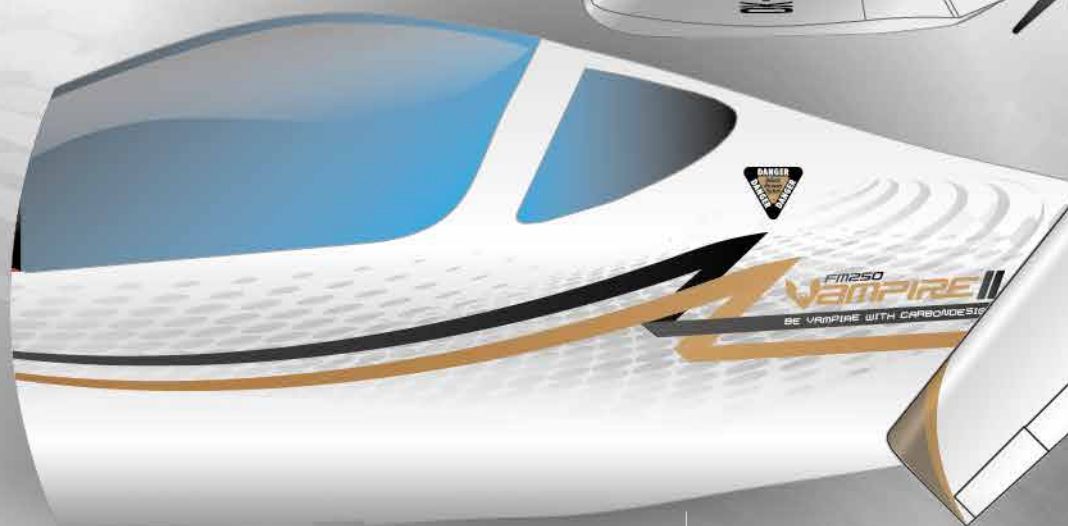
FM250  
**VAMPIRE II**





## Creative Scheme Catalogue

Get a unique style for your FM250 Vampire







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Creative Scheme







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Creative Scheme







Creative Scheme

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10<sup>TH</sup> ANNIVERSARY  
OF THE 1<sup>ST</sup> CERTIFICATION



During the 2019 season we celebrate 10 year anniversary of the 1st FM250 Vampire certification in a big style. Especially for FM250 Vampire we got a song written by Peter Freestone, personal assistant of Freddie Mercury. The Song „Free As a Bird“ is presented by music band Bohemians. Story of the plane FM250 Vampire is very similar to the song - everything has started with a big dream. Do you have a dream, something to achieve? „Free As a Bird“ was formed also as a song for all pilots who had similar dreams. You can believe that they will come true. Check it here:



And what do we wish to Vampire for the next years? - Be as free as a bird, as fast as a sports car and as powerful as Vampires could be!



FM250 Vampire  
10 year anniversary celebration

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GOLD VAMPIRE  
COLLECTION



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BE VAMPIRE STYLE  
Show that you are Vampire, join our team!



VAMPIRE  
BUSINESS CLASS

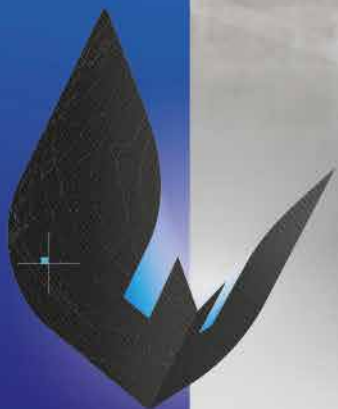






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**BE VAMPIRE STYLE**  
Show that you are Vampire, join our team!





REAL VAMPIRE  
STYLE

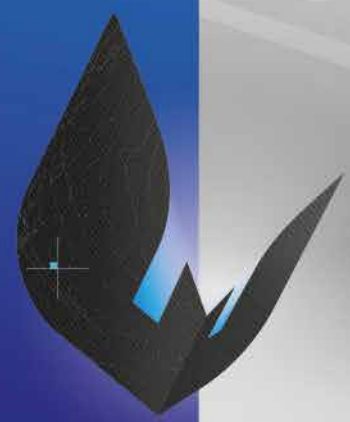


BE VAMPIRE STYLE  
Show that you are Vampire, join our team!

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VAMPIRE  
YOUR DESIGN







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