

## robbe EVOA 3.0 High Performance Glider Instruction Manual

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robbe EVOA 3.0 High Performance Glider



## **Product Information**

## **Specifications**

Electric Version: PNP-Version № 2691

• Electric Version: ARF-Version № 2690

• Glider Version: PNP-Version № 2693

• Glider Version: ARF-Version № 2692

• Motor: Ro-Power Torque X-36 800 k/v BL

Controller: RO-CONTROL 6-60 2-6S -60(80)A 5V/5A or 6-80 2-6S -80(100)A 5V/5A SWITCH BEC

• Battery: Ro-Power ULTRA HP or MAXAMP 4S 3200-4000mAh LiPo

• Servos: HR Servo ELE, Servos profondeur - Robbe Servo FS 277 MG HV Digital

• Servos: QR Servo AILE, Servos ailerons - Robbe Servo FS 128 BB MG HV Digital

• Servos: WK Servo FLAP, Servos volets - Robbe Servo FS 128 BB MG HV Digital

MULTIlock: Yes

• MPX Stecker (MPX plugs): Yes

## **Product Usage Instructions**

## **Flight Instructions**

Please read the manual carefully before assembling the model.

## Follow the instructions below for safe and successful flight:

- 1. Ensure that all components are securely connected and properly installed.
- 2. Check the battery level and ensure it is fully charged before each flight.
- 3. Make sure the motor, controller, and servos are functioning correctly.
- 4. Perform pre-flight checks, including control surface movements and range tests.

- 5. Choose a suitable flying location with enough space and minimal obstructions.
- 6. Take off by gently increasing throttle and controlling the model's pitch.
- 7. During flight, maintain smooth control inputs and avoid abrupt maneuvers.
- 8. Monitor battery levels and land the model when they approach the recommended minimum voltage.
- 9. After landing, perform post-flight checks and inspect for any damage or loose components.

## **General Safety Information**

Follow these safety guidelines to ensure safe operation of the model:

- Always fly in accordance with local regulations and guidelines.
- Keep bystanders at a safe distance during flight.
- Avoid flying near people, animals, or property that could be damaged.
- Do not operate the model in adverse weather conditions such as strong winds or rain.
- Use appropriate personal protective equipment, such as safety goggles and gloves, when handling the model.

## **Safety Instructions for Controllers**

Follow these safety instructions when using controllers:

- Read and understand the user manual provided by the controller manufacturer.
- Ensure the controller is properly connected and calibrated before use.
- Do not modify or tamper with the controller's internal components.
- Avoid exposing the controller to water or extreme temperatures.
- Store the controller in a dry and safe place when not in use.

## Safety Instructions for Rechargeable Batteries

Follow these safety instructions when using rechargeable batteries:

- · Only use batteries recommended by the manufacturer.
- Inspect the battery for any signs of damage or swelling before use.
- Charge the battery using a compatible charger and follow the recommended charging procedures.
- Do not overcharge or discharge the battery beyond its specified limits.
- Store the battery in a cool and dry place, away from heat sources and flammable materials.

## **Disposal**

Dispose of the model and its components responsibly at a local municipal collection point or recycling center. Do not dispose of them with household refuse.

#### **FAQ**

Q: Can I use different servos, motor, controller, batteries, or propellers with this model?

A: Yes, you can use different servos, motor, controller, batteries, or propellers with this model. However, it is important to ensure compatibility and make necessary adjustments to the wiring and configuration. Refer to the connection diagram and user manual provided by the respective manufacturers.

Q: What should I do if there are rough edges or imperfections on the model's components?

A: If there are rough edges or imperfections on the model's components, you can carefully remove them using

fine sandpaper or a file. Ensure that the surfaces are smooth and free from any sharp edges before assembly.

#### **PREFACE**

- Congratulations on your purchase of the EVOA 3.0.
- The SCIROCCO is a high-quality all round motor glider with a dynamic flight envelope.
- It can be flown within in a broad speed range. There are various ways of constructing the model, depending on your preferences.
- Therefore the solutions stated in this manual should only be considered as recommendations.
- For the most parts, the PNP (plug and play) version is already prefabricated.
- The ARF version (almost ready to fly) requires modeling experience and basic technical knowledge in construction. Thus there are different ways to achieve a model with good flight skills.
- This is why most alternatives are in fact explained in the manual but not necessary shown in the pictures.
- PLEASE READ THIS MANUAL CAREFULLY BEFORE YOU START ASSEMBLING THE MODEL.

## **FLIGHT INSTRUCTIONS**

- Before the first flight, observe the instructions in the "Safety Instructions" section.
- When flying the model, you should choose a day with as little wind as possible
- A large, flat area without obstacles (trees, fences power lines etc.) is suitable for the first flights.
- Please carry out a functional test of the drive train / power set and remote control.
- After assembling the model on the airfield, check once again that all model components such as wing, tail units, wing mounts, engine, linkages, etc. are firmly and properly fastened.
- For a hand start a helper should be present, who can throw the model with enough thrust into the air.
- The start usually takes place against the wind.
- · Do not stall the model near the ground
- Do not initiate tight turns in the immediate vicinity of the ground.
- Check the reactions of the model to the rudder deflections. If necessary, adjust after landing to increase or decrease the deflections accordingly.
- The minimum flight speed must be at an adequate safety altitude.
- · Initiate the landing with sufficient speed

## **GENERAL INFORMATION**

- The model is designed for the components specified by us. Unless otherwise stated, servos and other electronic components are designed for standard supply voltage.
- Recommended cell count for Lipo batteries also refers to standard Lipos voltage of 3.7V per cell. If you use
  other servos, a different motor and controller, batteries, or propellers, please make sure they fit first. In the
  event of deviations, corrections and adjustments must be made by yourself.
- Before starting construction, always put the servos into neutral. To do this, switch on the remote control and
  move the joysticks and trim buttons (save the one for the throttle) to the middle position. Connect the servos to
  the corresponding outputs of the receiver and supply them with a suitable power source. Please observe the
  connection diagram and the operating instructions of the remote control system manufacturer.
- Do not leave your model in the blazing sun or in your vehicle for long periods of time. Too high temperatures

can lead to deformation/distortion of plastic parts or blistering of covering foils.

- Before the first flight, check the wing symmetry, tail unit and fuselage. All parts of the model should have the same spacing from the left and right wing or tail plane to the centre of the fuselage or the same angle.
- If necessary, rebalance the propellers if vibrations are noticeable when the motor is running up.
- Bubble formation in the covering foils normal to a certain extent due to temperature and humidity differences and can be easily eliminated with a foil iron or hairdryer.
- For models in shell construction ("full GFRP/CFRP"), burrs may occur at the seams due to the production process. Carefully remove them with fine sandpaper or a file.

## **GENERAL SAFETY INFORMATION**

- Be sure to read the safety instructions carefully before operating your model.
- Always follow the procedures and settings recommended in the instructions.
- If you are using remote-controlled model aircraft, helicopters, cars or ships for the first time, we recommend that you ask an experienced model pilot for help.
- Remote-controlled models are not toys in the usual sense and may only be used and operated by young people under 14 years of age under the supervision of adults.
- Their construction and operation requires technical understanding, careful craftsmanship and safety-conscious behaviour.
- Mistakes or negligence during construction, flying or driving can result in considerable damage to property or personal injury.
- Since the manufacturer and seller have no influence on the proper construction/assembly and operation of the models, these risks are expressly pointed out and any liability is excluded.
- Propellers on aircraft and all moving parts in general pose a constant risk of injury. Avoid touching such parts at all costs.
- Note that motors and controllers can reach high temperatures during operation. Avoid touching such parts at all costs.
- Never stay in the danger area of rotating parts with electric motors with connected drive battery.
- Overcharging or incorrect charging can cause the batteries to explode. Make sure the polarity is correct.
- Protect your equipment and Models from dust, dirt and moisture. Do not expose the equipment to excessive heat, cold or vibration.
- Use only recommended chargers and charge your batteries only up to the specified charging time. Always
  check your equipment for damage and replace defects with original spare parts.
- Do not use equipment that has been damaged or got wet due to a fall, even if it is dry again! Either have it checked by your specialist dealer or in the Robbe Service or have it replaced. Hidden faults can occur due to wetness or a crash, which lead to a functional failure after a short operating time.
- Only the components and accessories recommended by us may be used.
- Do not make any changes to the remote control which are not described in these instructions.

## SAFETY NOTE FOR MODEL OPERATION

#### Attention, danger of injury!

- Always keep a safe distance from your model aircraft.
- Never fly over spectators, other pilots or yourself.

- Always perform flight figures in a direction away from the pilot or spectators.
- Never endanger people or animals.
- Never fly near power lines or residential areas.
- Do not operate your model near locks or public shipping.
- Do not operate your model on public roads, motorways, paths and squares, etc., but only in approved loca-tions.
- Do not operate the model in thunderstorms.
- Before each flight, check your remote control system for sufficient function and range.
- After flying, remove all batteries from the model.
- Do not "aim" the transmitter antenna at the model during operation. In this direction, the transmitter has the lowest radiation. The best position of the antenna is to the side of the model.
- Use of devices with image and/or sound recording function:
- If you equip your model with a video or image recording device (e.g. FPV cameras, action scams etc.) or the mo-del is already equipped with such a device at the factory, please note that you could violate the privacy of one or more persons by using the recording function. An overflight or driving on private ground without the appropriate permission of the owner or approaching private ground can also be regarded as an invasion of privacy. You, as the operator of the model, are solely and fully responsible for your actions.
- In particular, all applicable legal requirements must be observed, which can be found in the roof associations or the relevant authorities. Failure to comply can result in substantial penalties.

#### SAFETY INSTRUCTIONS FOR CONTROLLERS

- · Observe the technical data of the controller.
- Observe the polarity of all connection cables.
- · Avoid short circuits at all costs.
- Install or package the regulator so that it cannot come into contact with grease, oil or water.
- Effective interference suppression measures on the electric motor with, for example, interference suppression capacitors
- Ensure adequate air circulation.
- Never reach into the turning circle of the propeller during start-up Risk of injury
- Dealing with model aircraft and vehicles requires technical understanding and a high level of safety awareness. Incorrect assembly, incorrect adjustment, improper use or the like can lead to personal injury or damage to property. Sudden starting of connected motors can lead to injuries due to rotating parts such as propellers. Always stay away from these rotating parts when the power source is connected. All drive components should be safely and securely mounted during a function test. Use is only permitted within the scope of the technical specification and only for RC hobby applications. Before use, check that the speed controller is compatible with your drive motor or power source. Never operate the speed controller (correct speed controller) with external power supply units. Speed controllers should always be protected from dust, moisture, vibration and other mechanical stresses.
- Even splash-proof or waterproof equipment should not be permanently exposed to moisture or moisture. High
  operating temperatures or poor cooling should be avoided. The recommended temperature range should be
  approximately between -5°C and +50°C. Ensure proper connection and do not cause reverse polarity which
  would permanently damage the speed controller. Never disconnect the device from the motor or battery during
  operation. Use high-quality plug systems with sufficient load capacity. Avoid strong bending or tensile stress on

the connecting cables. After termination of flight or driving operation, disconnect the battery to prevent deep discharge of the battery. This would cause permanent damage. For the BEC version of the controller, check that the BEC power of the device is sufficient for the servos used. Speed controllers should be installed as far away as possible from other remote control components. We recommend carrying out a range test before operation. We recommend regular checking of the controller for function and externally visible damage. Do not continue operating the controller if you notice any damage. The connection cables must not be extended. This can lead to unwanted malfunctions. Despite existing safety and protective devices of the device, damage may occur which is not covered by warranty. The warranty also expires if changes are made to the device.

#### Important information:

- The receiver system is powered by the built-in BEC system of the controller.
- For commissioning, always move the throttle stick to the "Motor off" position and switch on the transmitter. Only then connect the battery. To switch off always disconnect the connection battery motor controller, first then turn off the transmitter. During the functional test, move the servos of the rudders to neutral position with the remote control (stick and trimming lever on the transmitter to the middle position). Please make sure to leave the throttle stick in the lowest position so that the engine does not start. For all work on to the parts of the remote control, motor or controller, follow the instructions supplied with the units. Also read the instructions of the battery and the charger carefully before commissioning. Check the engine mounting bolts in the fuselage regularly for tightness.

## SAFETY INSTRUCTIONS FOR RECHARGEABLE BATTERIES

- Do not immerse the battery in water or other liquids.
- Do not heat, throw into fire or microwave.
- · Do not short-circuit or charge with reversed polarity
- Do not expose, deform or throw the battery
- Do not solder directly on the battery
- Do not change or open the battery
- Only charge the battery with suitable chargers, never connect it directly to a power supply unit.
- Never charge or discharge the battery or charger on a flammable surface.
- Never leave the battery unattended during charging or discharging processes.
- Never charge or discharge the battery in direct sunlight or near heaters or fire.
- Do not use the battery in places subject to high static discharge.

## All this can cause the battery to be damaged, explode or even catch fire!

- · Keep the battery away from children
- Keep leaked electrolyte away from fire, as it is highly flammable and may ignite.
- The electrolyte liquid should not get into the eyes, if it does, rinse immediately with plenty of clear water and then see a doctor.
- The electrolyte liquid can also escape from clothes and other objects with a lot of water or washed off.
- Observe the safety instructions of the battery manufacturer and the charger manufacturer.

#### WARRANTY

- Our articles are equipped with the legally required 24 months warranty. Should you wish to assert a justified warranty claim, always contact your dealer, who is responsible for the warranty and the processing. During this time, any functional defects that may occur, as well as manufacturing or other problems, will be rectified.
- Material defects corrected by us free of charge. Further claims, e.g. for consequential damages, are excluded.
  The transport to us must be free, the return transport to you is also free. Freight collect shipments cannot be accepted. We cannot accept liability for transport damage and loss of your consignment. We recommend appropriate insurance.

## To process your warranty claims, the following requirements must be met:

- Attach the proof of purchase (receipt) to your shipment.
- The units have been operated in accordance with the operating instructions.
- Only recommended power sources and original robbe accessories have been used.
- There is no moisture damage, external interference, reverse polarity, overloading or mechanical damage.
- Attach relevant information for finding the fault or defect.

#### **DISCLAIMER**

Robbe Modell sport cannot monitor compliance with the assembly and operating instructions or the conditions and methods for installation, operation, use and maintenance of the model components. Therefore, we accept no liability for losses, damage or costs arising from or in any way connected with incorrect use and operation. To the extent permitted by law, the obligation to pay damages, irrespective of the legal grounds, shall be limited directly to the invoice value of the claims arising from the event causing the damage.

#### **INSURANCE**

Ground-based models are usually covered by personal liability insurance. Additional insurance or extension is required for aircraft models. Check your insurance policy (private liability) and take out suitable insurance if necessary.

#### **CONFORMITY**

Robbe Modellsport hereby declares that this device complies with the essential requirements and other relevant regulations of the corresponding CE directives. The original declaration of conformity can be found on the Internet at <a href="https://www.robbe.com">www.robbe.com</a>, in the detailed product view of the respective device description or on request. This product can be operated in all EU countries.

# CE

#### **DISPOSAL**

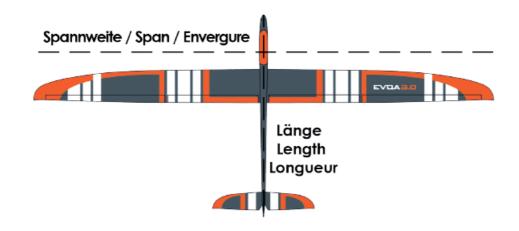
This symbol means that small electrical and electronic devices must be disposed of at the end of their useful life, separated from the household refuse. Dispose of the device at your local municipal collection point or recycling centre. This applies to all countries of the European Union and other European countries with a separate collection system.

BOX CONTENT - NEEDED ACCESSORIES ELEKTRO-VERSION: 2690-2691 / SEGLER-VERSION: 2692-26 93

	Nº/ Référ.	Accessories needed	LF: LF: ARF PNP	
Motor / Moteur	5800	Ro-Power Torque X-36 800 k/v BL		Х
Regler/ESC/Contrôleur	8711 8710	RO-CONTROL 6-60 2-6S -60(80)A 5V/5A or 6-80 2 -6S -80(100)A 5V/5A SWITCH BEC	-	_
Akku Battery Accu	7342/7345 7370	Ro-Power ULTRA HP or MAXAMP 4S 3200- 4000m Ah LiPo	_	_
Servos HR Servo ELE Se rvos profondeur	9115	1x Robbe Servo FS 277 MG HV Digital	_	x
Servos SR Servo RUD S ervos dérive	9115	1x Robbe Servo FS 277 MG HV Digital	_	x
Servos QR Servo AILE S ervos ailerons	9114	2x Robbe Servo FS 128 BB MG HV Digital	_	x
Servos WK Servo FLAP Servos volets	9114	2x Robbe Servo FS 128 BB MG HV Digital		X
MULTIlock	_	yes	-	-
MPX Stecker MPX plugs Fiches multiplex	_	yes	_	_
Klebstoff Adhesives Coll e	_	UHU Por Tube 40g	_	_
Locking screw	_	yes	_	
Velcro strap	-	Robbe Velcro strap 3M 30x1000mm	_	_
Spinner	725184	Z-Spinner 38mm / Cône 38mm	_	Х
Propeller	723950	AERONAUT CAM-Carbon "Z" 12×8"	_	Х
TX	_	min. 5 Kanäle / channels / voies	_	_

RX	_	min. 7 Kanäle / channels / voies	_	_
Declaration : LF: Box content not included				

## **INFORMATIONS TECHNIQUE**



Span	3000 mm
Length	1500 mm
Weight (dry) approx.	_
Flying weight approx.	2890 g
Wing Area Surface	71,1 dm²
Airfoil	HQ/W2,5-9
Centre	80 – 86 mm hinter behind the leading edge

Elevator	ja yes oui
Rudder	yes
Querruder Ailerons Ailerons	yes
Flaps	yes
Landing flaps	nonon
Motor	yes
Landing Gear Train	no

**CAUTION!** carry out this work with care, as it is essential for safe operation at a later date. Incorrect installation

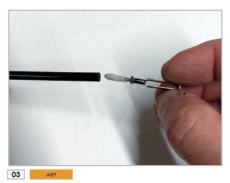
can lead to personal injury and damage to property.

## **FUSELAGE**

- The servos must be placed into the designa-ted wooden frame by already put in neutral position. The servo arm has to be fixed in 90° position.
- The rudder and elevator linkage are pre-built. It just has to be adjusted in its length.
- For the ARF version, the second M2,5 threaded piece must be glued into the carbon tube by thickened epoxy and the clevis mounted.







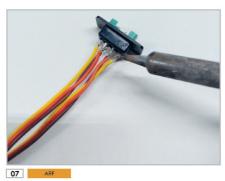
- The elevator linkage will be installed and adjusted also at 90° servo position and neutral pivot arm.
- Sand the rudder control horn well and glue into the rudder by using thickened epoxy resin.
- Then clip the linkage to the servo and rudder horn and adjust the linkage by the clevis to achieve a neutral rudder at 90° servo arm.







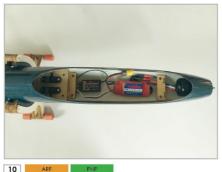
- Make two fuselage harnesses from four servo cables, two green MPX connectors and two black mounting frames.
- Thread the cables through the opening in the fuselage and screw the mounting frame to the fuselage.
- Now install the motor on the motor mount by two M3x6 Allen screws.







- Connect the ESC to the motor and install it under the wooden tray in the front by velcro stripe. Check the running direction of the motor already now and replace if necessary two of the three cables.
- · Make sure the cables are clean.
- The battery will be fixed by a velcro loop on the front battery tray. To avoid slipping the battery, a strip of Velcro should also be glued to the wooden board under the battery.

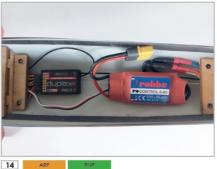






- For later adjustment of the center of gravity, this can vary in its position. Only after the exact determination of the center of gravity you make a mark on the battery and the board.
- The receiver has its place under the rear of the wooden tray and should be fixed by velcro.
- Mount the propeller center section with propeller blades on the motor shaft. Pay attention to a firm but sensitive tightening of the nut.







## **WING**

- Install the servos in the servo bay as shown. Use a wire to pull the servo cables through the openings provided. Then fabricate the aileron linkages from the M3 threaded parts and clevises. Hook the aileron linkages into the rudder and servo horns (outer servo). Again, make sure the rudder is neutral with the servo horn at a right angle and adjust this at the clevises if necessary.
- The green 6-pin MPX connector system should be used as connection to the fuselage. The EVOA 3.0 is already provided with appropriate fits for our mounting frames.







- You can choose the pin assignment yourself, but pay attention to the polarity on the opposite side! Solder the cables to the pins and insulate them with heat shrink tubing.
- Glue the connector to the mounting frame with super glue to form a unit and screw it into the recess.
- Glue the torsion pins with epoxy. Check the precise fit of the two wing parts to each other beforehand. If necessary, slight corrections can be made at this stage.





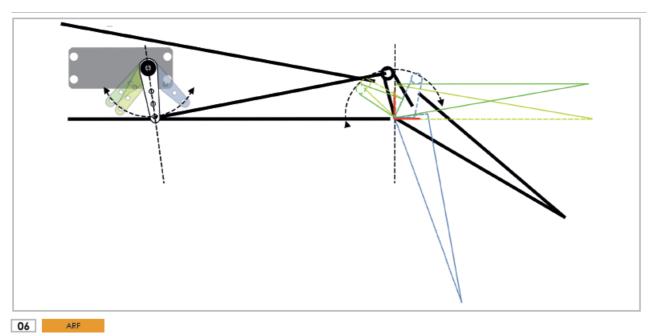


• The linkage of the flaps is realized by a crossover connection through the surface of the wing. Therefore the rod must initially be connected to the bottom side of the flap servo and routed through the upper side of the wing in order to be connected with the flap's rudder horn. If the servo horn is positioned in a right-angle (neutral position), the deflection of the flap should read approximately 25mm downwards. To do this, make a rod approx. 82mm long.

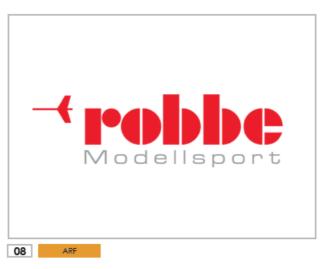




• Pay attention to a proper cable guide. Stash the excessive length of the leads away in the wing by surrounding with foam to avoid nasty noises.

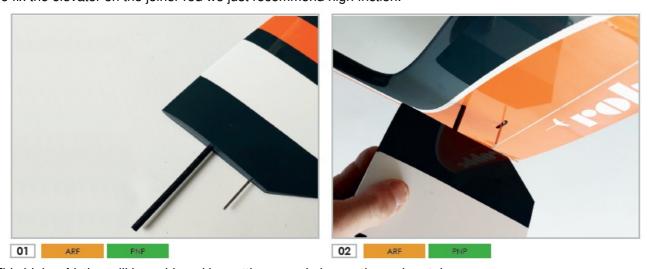


• Glue the servo and rod covers only after all electronic adjustments with UHU-Por. So the linkage can still be fine-tuned.



## **ELEVATOR**

- The elevator is connected to the fuselage by the carbon rod and the 2mm steel wire through the bore of the pivot arm.
- To fix the elevator on the joiner rod we just recommend high friction.



• This higher friction will be achieved by putting speed glue on the carbon tube.

- The intensity of friction can be easily adjusted by applying or grinding the hardened glue.
- Always pay attention to complete curing of the superglue before putting on the elevator!



• To prevent the pins from being lost so easily during transport, they can also be glued firmly into one tail unit half.

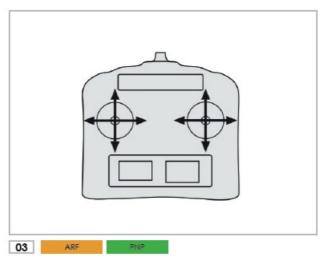


## **INSTALLATION AND TUNING PROCESS**

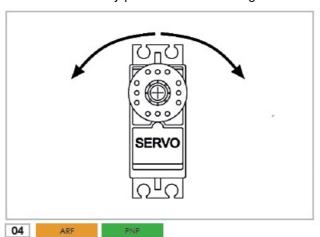
- Pin both wings together with the wing connector in the fuselage until the multiblock engage.
- Alternatively, a transparent strip of adhesive tape is sufficient to secure the wings connection.



• Turn your transmitter and receiver on. Make sure that the correct model is adjusted on the memory of your transmitter. If possible, try to adjust all rods mechanically.



- The next step is to check the running direction and travel ways of the servos. Therefore please note the grid below.
- Mark the exact battery position in the fuselage with a felt-tip pen or tape.





## **CONTROL THROWS**

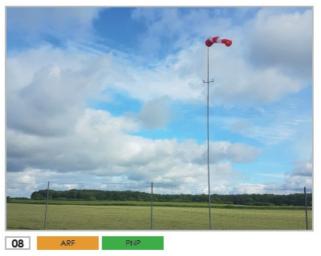
## (measured at the end rail)

Funktion / Function	Normal	Speed	Thermik / Thermal / Thermique	Landung / Landing / Atterissage
Querruder / Ailerons /Ailerons	▲ 18 mm ▼ 10mm	▲ 1 mm	▼ 2 mm	▲ 8 mm
Höhenruder / Elevator / Profondeur	▲ 13 mm ▼ 13 mm	▲ 1-2 mm	-	▼ 4-5 mm
Seitenruder / Rudder / Dérive	<ul><li>✓ 20 mm</li><li>► 20 mm</li></ul>	-	-	-
Wölbklappen / Flaps / Volets	-	▲ 2 mm	▼ 3 mm	▼ 30 mm

- The center of gravity is 80-86mm behind the leading edge. For beginner-compatible
  flight behavior, first set the center of gravity to 80mm. For faster all-rounder behavior, the center of gravity can
  slowly be moved further back
- Elevator angle of incidence is about 1-1.5°, depending on the adjusted CG.
- **Simpler:** with the fuselage level on the fuselage skid and tail plane, the elevator end rail should have approx. 64mm height.
- **NOTE**: Of course, the glider version does not require the installation of the motor and regulator. Only the receiver battery and a trim lead of approx. 300g are mounted in the nose of the fuselage. The installation of a tow release is possible and is done at your own discretion.



• Now look for a day with suitable weather conditions for the first flight. With the mentioned settings you will be spared bad surprises. We recommend, at least on the first flight, to make the start with a starting helper.

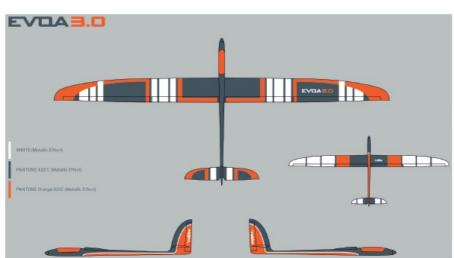


• Enjoy your new model aircraft and "always happy landings!"



**SPARE PARTS** 

Spare part	Item N.	Quanti ty
Fuselage electric version	269001	1
Spare Wing pair (without Servos)	269002	1
Canopy	269003	1
Wing and tail plane connectors	269004	1
Elevator	269005	1
Fuselage glider version	269006	1
Servo covers GFK	269007	1









## **DISTRIBUTOR**

- Robbe Modellsport
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## **Austria**

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• Mail: info@robbe.com

• **UID No.**: ATU69266037

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- www.robbe.com



## **Documents / Resources**



<u>robbe EVOA 3.0 High Performance Glider</u> [pdf] Instruction Manual EVOA 3.0 High Performance Glider, EVOA 3.0, High Performance Glider, Performance Glider, Glider

## References

- Robbe Modellsport Offizielle Markenwebsite und Shop
- User Manual

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