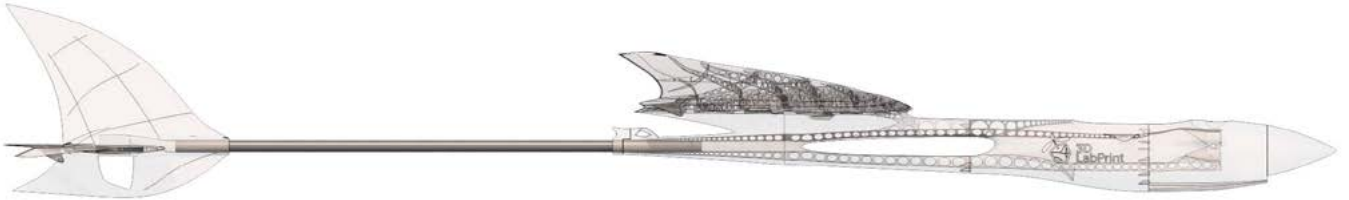




User Guide

rev. 2016/09



Fully 3d printable

EASYMAX 001 electric sailplane

wingspan 1527mm (60.1in)

EASYMAX 001 electric silplane – fully printable R/C plane for your home 3Dprinter

Future of flying - Print your own plane

The first fully printable airplanes with suitable files prepared for your 3Dprinter. Flight characteristics are comparable or even better than classic build model airplane. Simply download and then print it anytime you need only for \$10 (filament cost). This is not a dream, now you can print this HI-TECH at home, print spar parts, and so on...

Extensive hi-tech 3d structural reinforcement which makes the model very rigid while still maintaining lightweight airframe and exact airfoil even when it is made only from plastic. This perfect and exact 3d structure is possible only due to additive 3dprinting technology. So welcome to the 21th century of model flying. Be The first at your airfield.

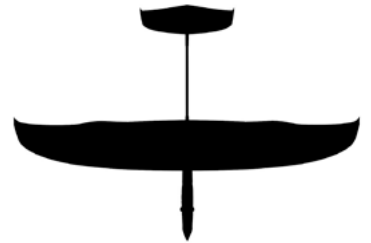
Easy to assembly, you do not need any extra tool or hardware, you only need to glue printed parts together and make pushrods for control. The rest of the assembly is very easy. Simply add brushless motor, ESC, servos and radio system. Don't worry, detailed step by step PDF/VIDEO is included.

You will get easy flying superb performance airplane with High efficient powerplant which let you fly 8+ minutes. of course low stall speed is achieved for easy landing.



General specifications (HP setup):

Lenght:	approx 1033mm (40.7in)
Wingspan:	1527mm (60.1in)
Height:	177mm (7.1in)
Wing area:	29.6 dm2
Wing loading:	31.8 g/dm2
Airfoil:	E205 modified
Print weight:	632g
Empty weight(eq. w/o battery):	820g
Takeoff weight (3s 1500 lipo):	940g
Max takeoff weight:	1300g
Never exceed speed, VNE:	150 km/h
Design maneuvering speed, VA:	90km/h
Stall speed, VS:	20 km/h



Powerplant

Propeller:	11/6 folding propeller
Motor:	Turnigy D3530/14 1100KV or similar 3530-35, 2830-36 1100kv
ESC:	Aerostar 40A Electronic Speed Controller or similar 40Amps
Battery:	Li-Pol Battery 1500mAh/3s – or similar

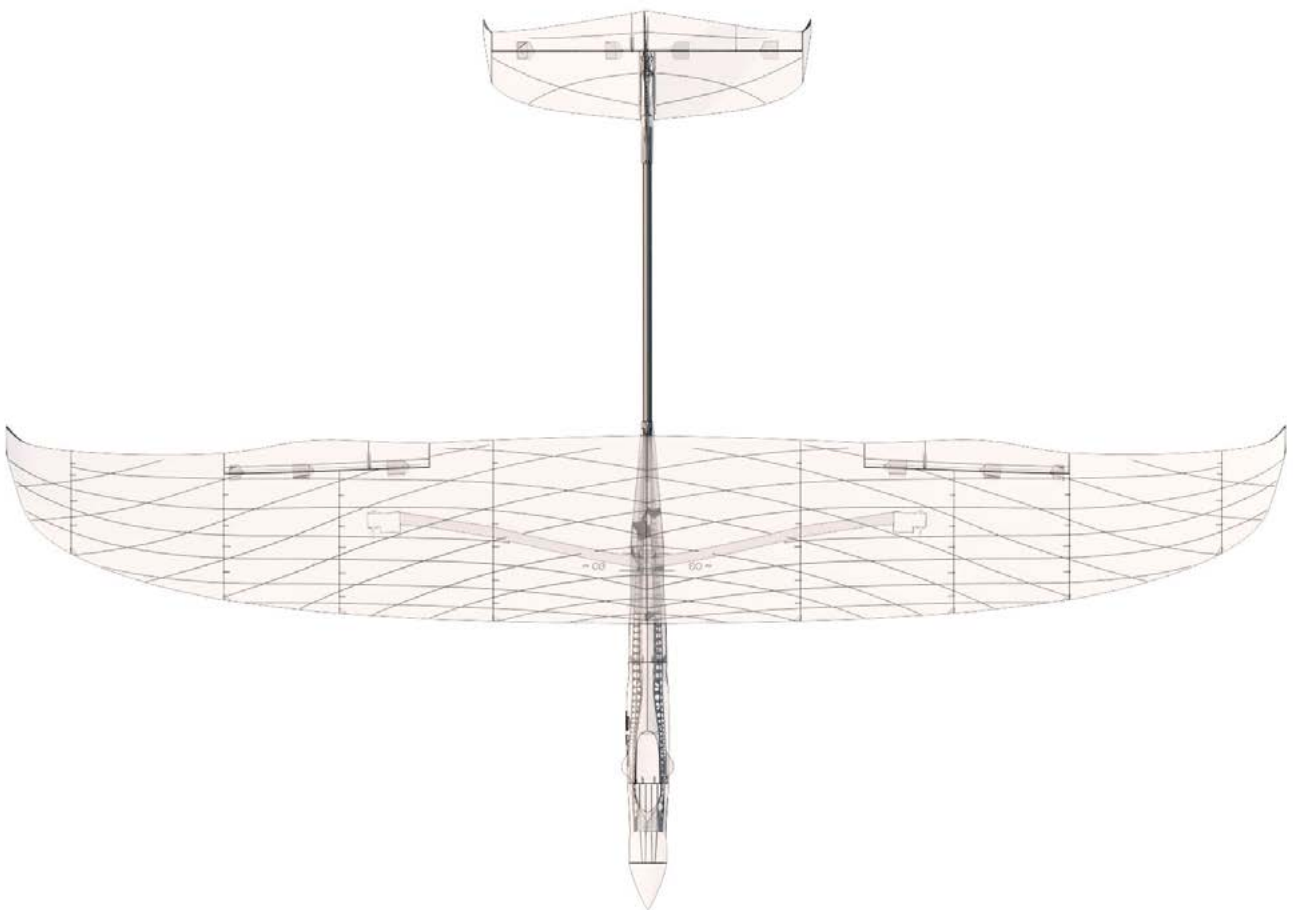


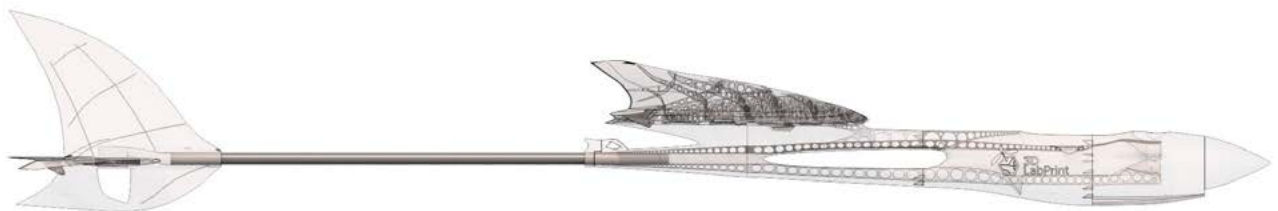
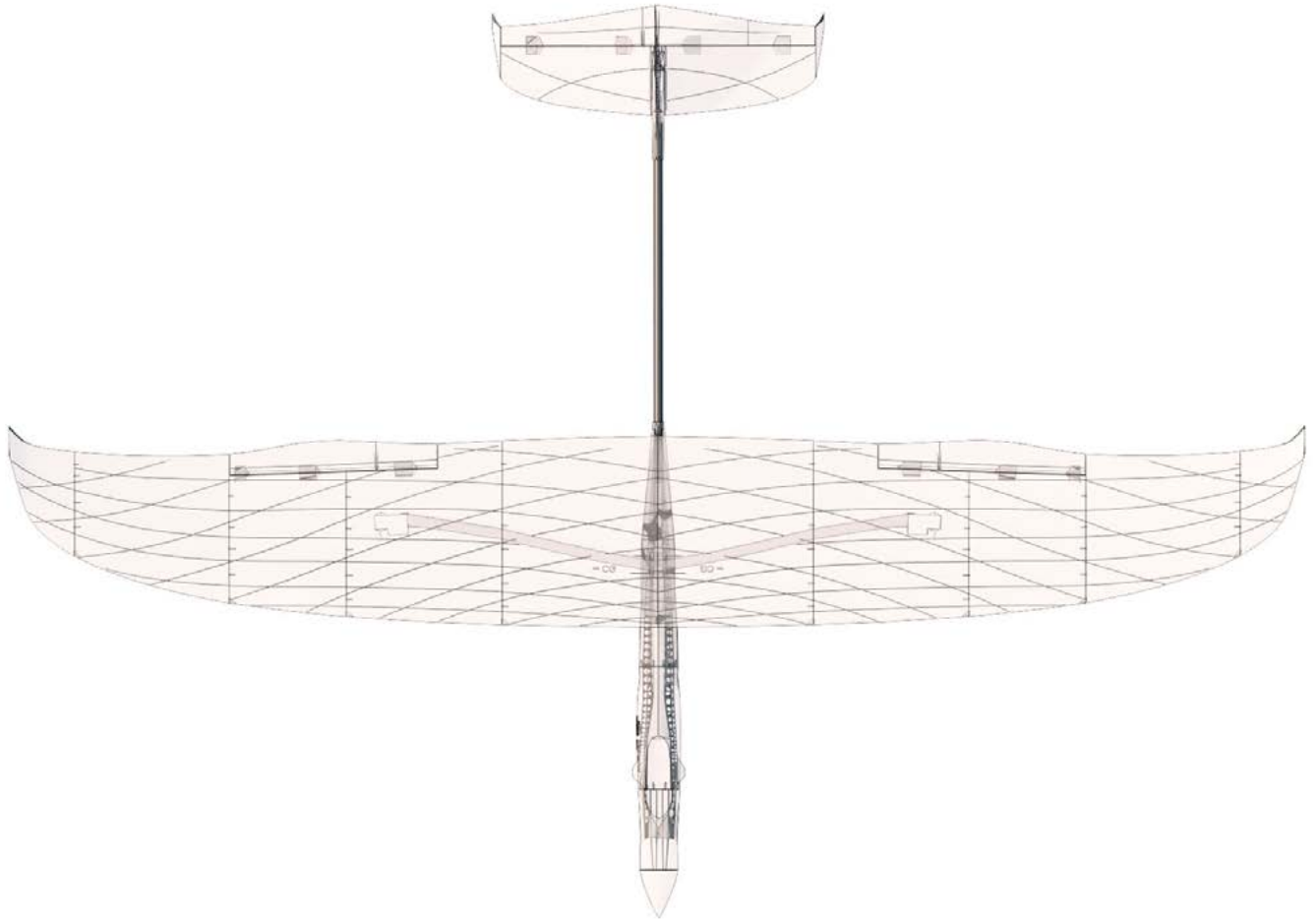
EASYMAX 001 - flight characteristic

This aircraft is based on our Easy001 project which is very suitable plane for beginner, very easy to fly and relatively slow.

We made some changes for better performance EASYMAX001, lower parasite drag and more interesting dynamic characteristic, BUT still maintain friendly flying characteristic,

e a s y p e r f o r m a n c e f u n

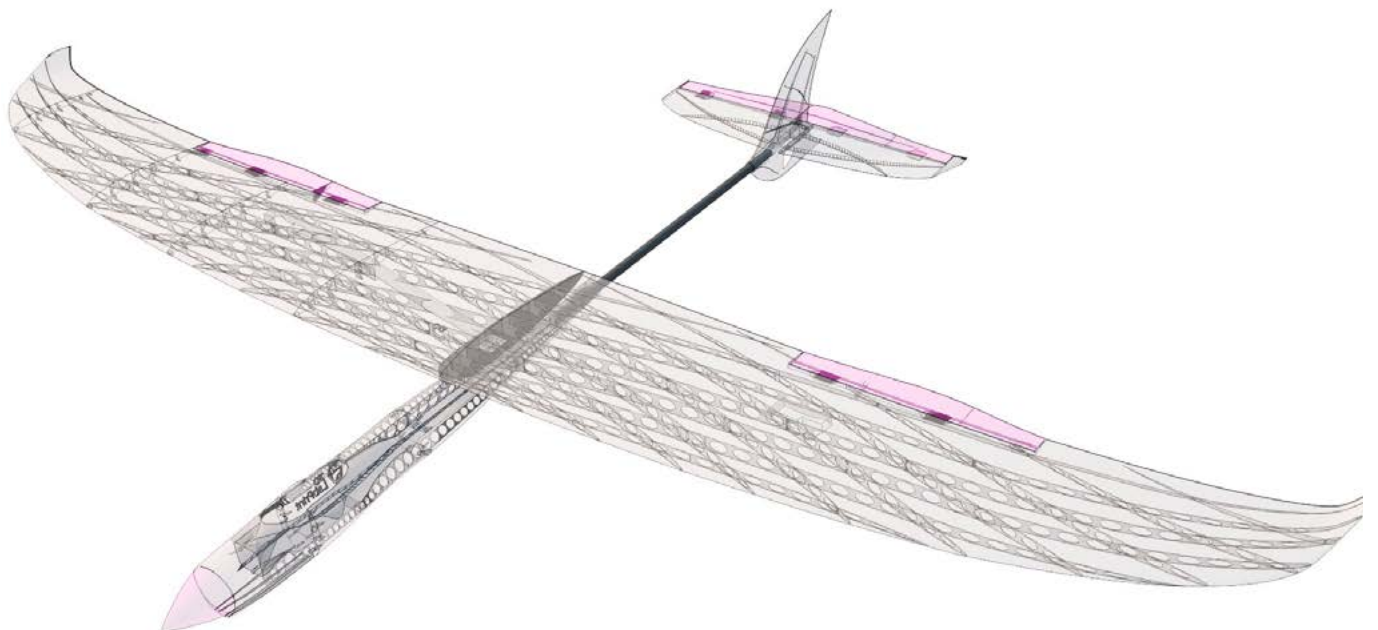




approx 1033mm



1527mm (60.1in)



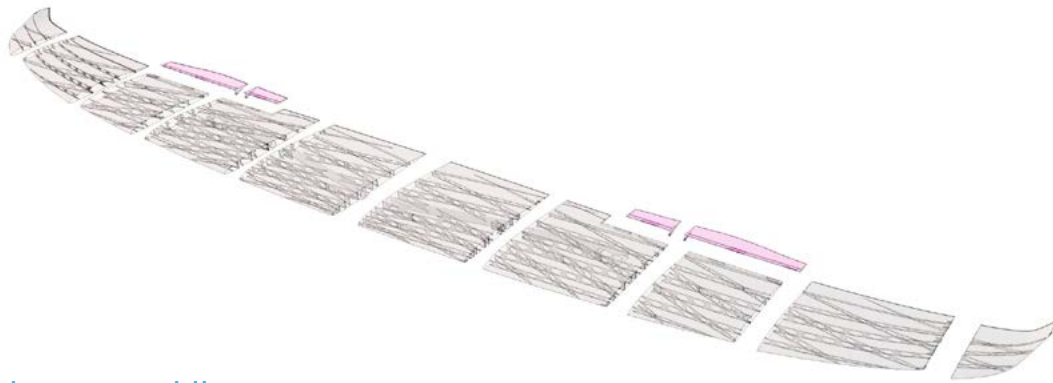
5. Assembling printed parts

5.1 Wing assembling

Glue wing parts with CA glue together, use activator and instal ailerons (updated)...

[See video guide #4](#)

you will need: [CA Glue - medium](#) or similar medium viscosity CA glue
[Activator for CA Glue](#) or similar, but not-mechanical is better
[AC Hinge Sheet](#) or similar
 Scissors
 Snap knife
 Some cloth for wiping CA glue...

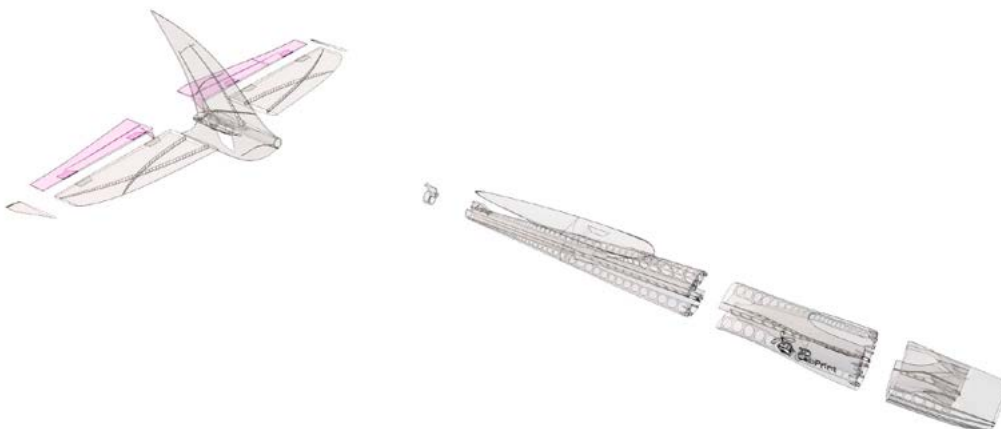


5.2 Fuselage assembling

Glue with CA glue fuselage parts together, use activator, instal elevator (updated), fine tune parts shape with knife or sandpaper.

[See video guide #5](#)

you will need: [CA Glue - medium](#) or similar medium viscosity CA glue
[Activator for CA Glue](#) or similar, but not mechanical is better
[AC Hinge Sheet](#) or similar
 Scissors
 Snap knife or Sandpaper
 Optionally some cloth for wiping CA glue...
 Carbon tube 10/9mm lenght min. 460mm
 Dremel or ...



6. R/C equipment

6.1 motor setup

Complete your RC Powerplanr unit, now without any soldering (differ from videoguide)

[See video guide #6](#) (for HP setup)

ECO PERFORMANCE SETUP(spent only 30 bucks without any soldering)prop 9/6 10/5:

you will need: [Turnigy D3530/14 1100KV](#) or similar 3530-35, 2830-36 1100kv

[40A Electronic Speed Controller](#) or similar 40Amps

[Turnigy 1500mAh 3S 20C](#) or similar 1500-2400/3s

printed motor mount, find the one which fits... (25/19)

you can also use your own setup with suficient thrust, always check CoG

6.2 servos

Test and center all servos with servo tester or transmitter, then instal horns in midle position and cut wing Servos mount... use HXT900 or any 21x21x23mm

[See video guide #7](#)

you will need: 4x [9g Servo HXT900](#)

2x [Servo Lead Extension](#) or similar

Snap knife

Soldering Iron or Small handsaw or Dremel

7. R/C Equipment instaling

Instal prepared RC equipment: Motor, ESC, Servos...

Nose and motor mount are already in angle for compensating rotating propeller stream.

Find the right Center of Gravity with moving the carbon tube in-out (CoG tags on wings)

[See video guide #8](#)

you will need: Printed motor mount, find the one that fits for your motor...

2-4x Screw 3/12-30mm depends on motor-mount

Small screwdriver+

Your earlier prepared R/C equipment

3x Self Tapping Screw M3x8mm or similar

Carbon tube 10/9mm lenght min. 460mm

8. Pushrods

Made steel pushrod for ailerons, elevator, rudder and connect within servo arms...

[See video guide #9](#)

you will need: Steel pushrod, diameter 1.0mm

Pliers

[CA Glue](#) - medium

[Activator for CA Glue](#) or similar, but not mechanical is better

9. Finalization

Instal your reciever, connect batery, setup servos and etc. with your trasmitter, lock servo position, then instal propeller...

!!!Make sure that the battery is placed properly and secured with wing battery holder, if battery moves during flight it can shifts the center of gravity backwards and aircraft will be uncontrollable!!!

[See video guide #10](#)

you will need: Your own Rx/Tx system

[Li-Pol Battery 1500mAh/3s](#) – or similar

[Folding propeller spinner 11/6](#) +

[Prop blades](#) or better (Aeronaut, Graupner and so on)

(with fix prop you gain some drag..., but it is option)

Small screwdriver+

[CA Glue](#) - medium + [activator](#)

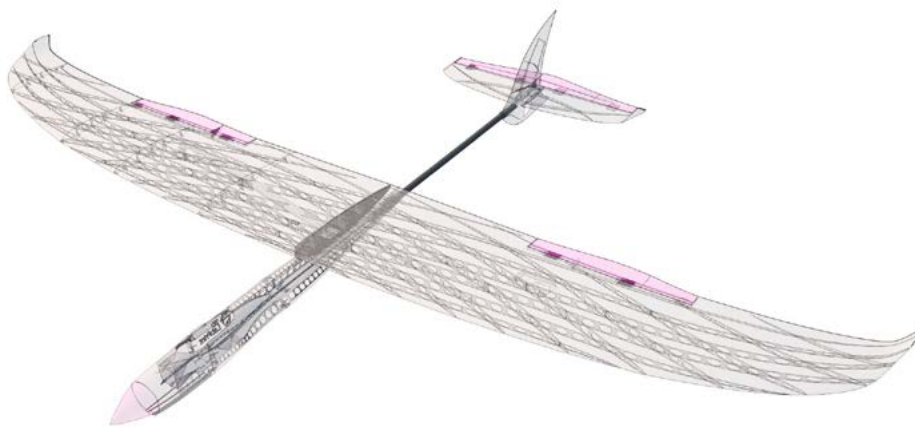
!!!Never set ESC with instaled propeller, this is very dangerous!!!

10. Go flying

Before flight check: **center of gravity is very important** (move it forward for the first flights see CG markings and chapter 11 bellow), battery properly charged, ailerons and elevator deflection check, your own flying skills or RC simulator training...

Then go flying: set full throttle, put the elevator little upwards (1-2mm) and throw it energetically to the wind approx 10 grades up, wait till plane gain speed, then fly it in your manner...

[See video guide #11](#)



11. Pilots Please Attention!!!

For the first flights we recommend set **center of gravity** of the airplane by about **5 mm forward** of the CG tag (nose heavy, this increases the stability) is also good to **increase expo** settings on your transmitter for elevator and ailerons to **80 %** (this calms response from your stick inputs)

Also you can decrease elevator and ailerons deflection.

Make sure the **battery is well fixed** in proper position if it moves during flight it will cause move CoG aft and will lead to uncontrollable flight behavior...

You can then return to the center of gravity (balance aircraft) the CoG points and expo set to 60 % as stated in the video/instructions... this gain back extra maneuverability when you will be sure with flying your airplane.

!!!Never fly aft positioned CoG!!!

And Please, use this files only for your own purpose, do not send further... Thank you very much