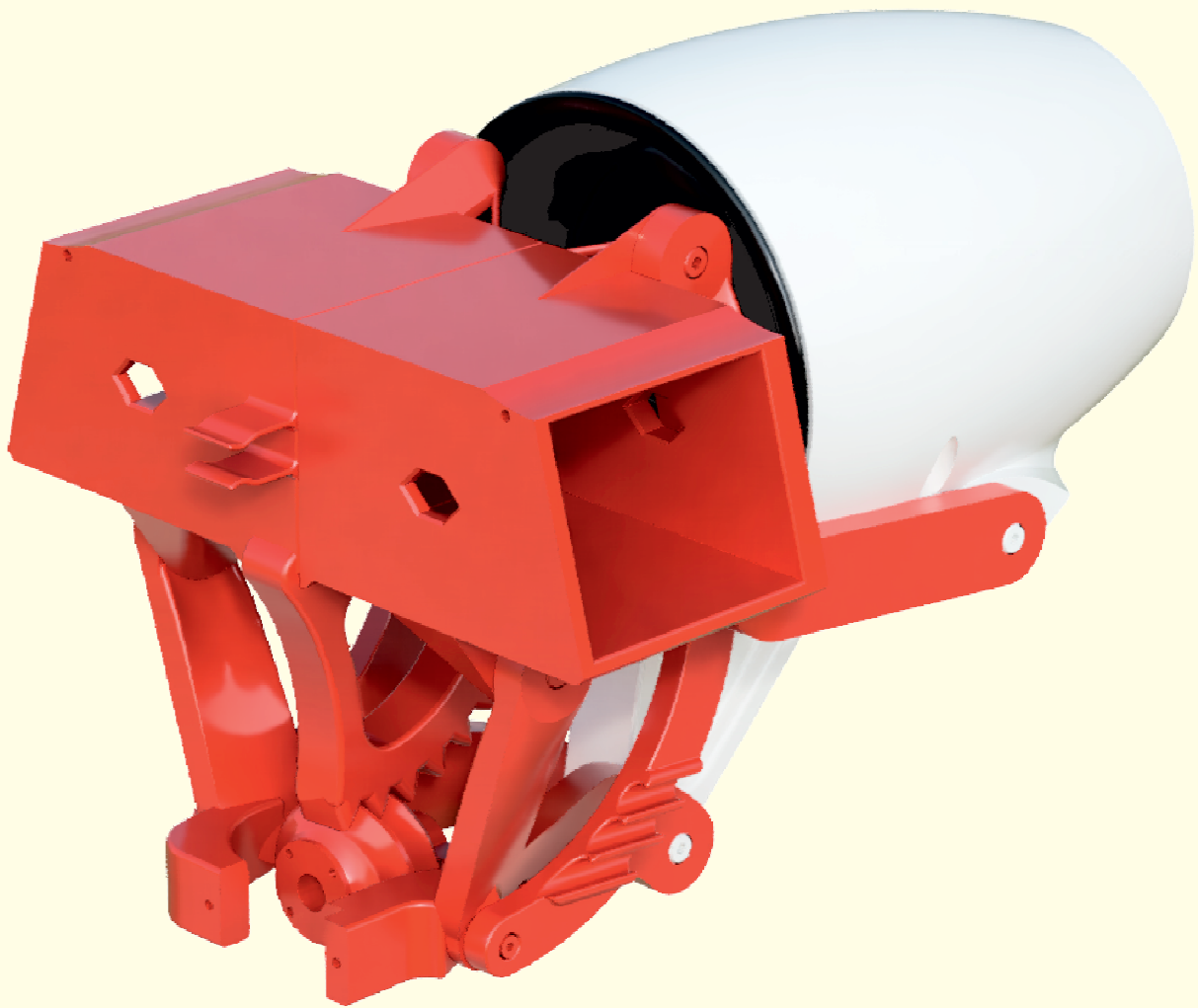


Retractable EDF for DFS Habicht



Part Guide

Advantages and Disadvantages

With this upgrade, you can build a fuselage with a retractable EDF for your DFS Habicht. The contrast of a vintage glider with a „jet engine“ is sure to grab the attention all the flying field! The system was thoroughly designed to achieve maximum performance. Its greatest advantage is the very low cost as you only need a standard 9-gramm servo to power it. However, it also comes with its downsides, such as the increased weight of the fuselage resulting in a lower maximum G-loading. It is also a rather complex build. A great project for tinkerers!

Pure glider

- + lowest weight
- + the most scale and pure
- + no motor needed
- requires a towplane or ridge lift to get airborne

Front mounted propeller

- + the most versatile
- + ground takeoff possible with the included wheels
- + allows you to save the plane if you crash at the slope
- the propeller does look a bit ugly

Retractable 64mm EDF

- + absolute eye-catcher
- + great sound
- + maintains scale look
- adds ~350 grams to the fuselage which brings the maximum G-loading down to 6!

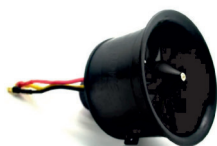
What you need

RC Components

1 additional 9-gramm servo



64 mm EDF
(EDF shells available for Powerfun and FMS 64mm EDF)
50 Amp ESC



2 additional channels
(compared to pure glider)



2600mAh 4S LiPo
recommended



Screws / Hardware / Tools

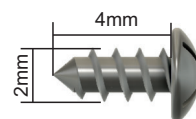
rubber bands



soldering iron



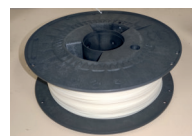
15 self tapping screws



15cm servo wire



250 gramms PLA

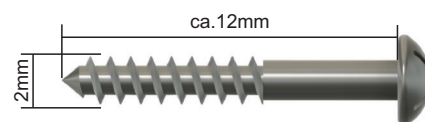


2 self tapping screws

3x 20cm motor wire

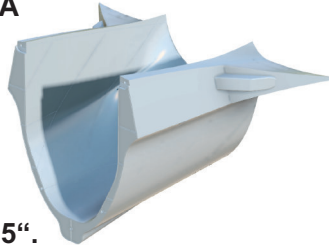


grease



Fuselage 5 EDF

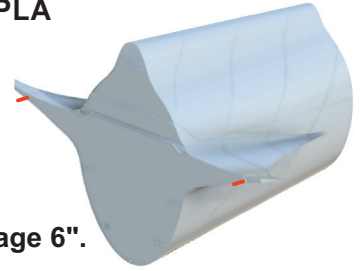
Slicing Mode: Surface
Rec. Material: LW-PLA
Quantity: 1



Note: Replaces „Fuselage 5“.

Fuselage 6 EDF

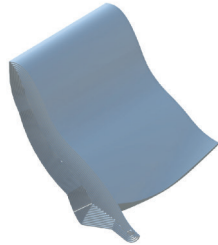
Slicing Mode: Surface
Rec. Material: LW-PLA
Quantity: 1



Note: Replaces „Fuselage 6“.

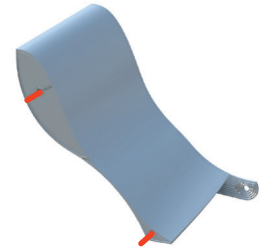
EDF Door 1

Slicing Mode: Surface
Rec. Material: LW-PLA
Quantity: 1 normal, 1 mirrored



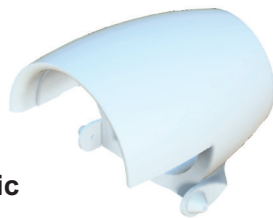
EDF Door 2

Slicing Mode: Surface
Rec. Material: LW-PLA
Quantity: 1 normal, one mirrored



EDF Shell Top

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 1
Top/Bottom Layers: 3/2
Infill: 3% cubic



Note: Available for Powerfun and FMS 64mm EDF

EDF Shell Bottom

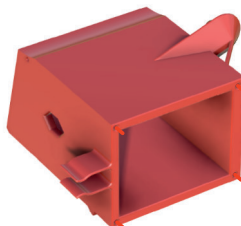
Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 1
Top/Bottom Layers: 3/2
Infill: 3% cubic



Note: Available for Powerfun and FMS 64mm EDF

Sparbox EDF Right

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Note: Replaces „Sparbox Right“. 3 levels of tolerance available.

Sparbox EDF Left

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Note: Replaces „Sparbox Left“. 3 levels of tolerance available.

Upper Arm R

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%
Support: Tree



Upper Arm L

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%
Support: Tree



Lower Arm R

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%
Support: Tree



Lower Arm L

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%
Support: Tree



Middle Arm R

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Middle Arm L

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Gear

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Worm Gear

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Worm Spacer

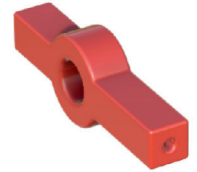
Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Note: Only needed if there's a gap between servo and worm gear. Adjust the height to fit your servo.

Worm Holder

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Potentiometer Holder

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



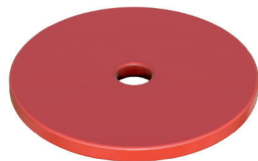
Potentiometer Adjuster

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 1
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Washer Large

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 8
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Washer Small

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 4
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Hook

Slicing Mode: Normal
Rec. Material: PLA
Quantity: 2
Walls: 2
Top/Bottom Layers: 4/3
Infill: 15%



Build

Scan this code to get to the build video:



Or click this link:

https://youtu.be/BeukYMHx_YI