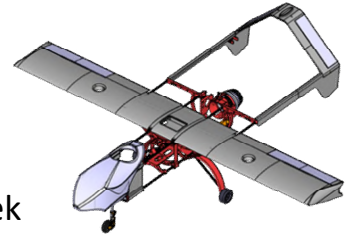


Projekt/ Project: Kestrel-X Version: 1.0 (10.2024)



Projekteigentümer/Project owner: Joel Vlashof, Andreas Siek

Veröffentlicher/ Published by: RC-Jetprint.de

Spezifikationen und Zubehör/ Specifications and list of components:

Spannweite/ Wingspan:	1.520 mm
Länge/ Length:	1.350 mm
Flächenbelastung/ Wing load:	Nicht berechnet/ Not calculated
Luft-Geschwindigkeiten/ Air speeds:	45-140km/h
Haupt-EDF/ Main-EDF:	JP 70 mm – 6S - 2250Kv (CCW rotation) >Affiliate Link<
Hauptluftführung/ Main ducting:	Open Ducting – 95° rotatable thrust vectoring
Gewicht/ Weight:	App. 3.000 gr
Standschub / Horizontal thrust:	2.700 gr
Vertikaler Standschub/ Vertical thrust:	5.700 gr
Haupt-Lipo/ Main-Lipo:	6S, 100C/ 200C, 4.500 mAh
Haupt Regler/ Main ESC:	2 x SEQUIRE 12100 - ESC 5-12S, 100A
Spannungsversorgung/ BEC:	Matek UBEC Duo 4A 5V-12V
Querruder Servo/ Ailerons servo:	2 x Hitec HS-70-MG (or similar)
Höhenruder Servo/ Elevator servo:	2 x Hitec HS-70-MG (or similar)
Empfänger/ Receiver:	Min. 8 CH
Vektorsteuerung/ Thrust vectoring:	2 x Torcster Micro Servo NR-54 MG Digital
Vektordrehung/ Vecor turning servo:	1 x AGF-RC B26CLM Servo (programmable)
Lenkung Bugservo/ Front gear servo:	8mm Micro Servo
Vorderer Impeller/ Front EDF:	JP 70 mm – 6S - 2250Kv (CW rotation) >Affiliate Link<
Flächenimpeller/ Wing EDF:	2 x Galaxy X4 EDF, 40 mm – KV5000, 12,5V – 16,5V
Flächen Regler/ Wing ESC	2 x BLHeli, 2-6S, 45A (LANRC)
Stabi-Lipo/ Leveling-Lipo:	3S SLS XTRON 2200 mAh, 30/60C
Stabi-System/ Leveling system:	KK2.1.5 board – “OpenAero V1.6” flashed (VTOL version)
Flugstabilisierung/ Flight Controller:	3-Axis Gyro (user dependant)
Telemetrie/ Telemetry:	Capacity, Voltage, Air speed, etc. (user dependant)

Hinweise:

Die hier gelisteten Komponenten sind Empfehlungen des Projekteigentümers, die ausgesucht und getestet wurden, um ein optimiertes Schub-Gewichtsverhältnis darzustellen, bei gleichzeitiger verlässlicher Funktionalität der Komponenten. **Die Druckdateien sind auf diese Komponenten ausgelegt!**

Notes:

The components listed are the project owners recommendations that have been selected and tested to provide an optimized thrust-to-weight ratio while maintaining reliable component functionality. **The print files are designed for these components!**

Teile Liste/ Part List		
Part	Amount	Recommendations/ Links
Materials		
LW-PLA	1.000	ColorFabb
PLACF	500 gr.	Bambu Lab
3D Lac Plus	1	
Super Glue	150 gr.	
Super Glue Accelerator	1 bottle	
Sand Paper 80 grid, 120 grid	5 sheets	
Fork heads plastic M2	12 pc.	Linkages
Ball joints M2	12 pc.	Linkages
M2 threaded rod	1 m	Linkages
10 x 1mm Carbon Tube	3.000 mm	Structural rods for fuselage, wings and front gear
8 x 1mm Carbon Tube	300 mm	Front gear
2 mm Carbon rod	1.000 mm	Rudder fastening elevator and ailerons
Nylon screws M4	2 pc.	Fixation of tail vector
Stainless steel screws M2/ M3		Mounting of gear parts, linkages, wheels
Wheels 70 mm diameter (foam)	3 pc.	
Several servo extension cables	6 - 10 pc.	User dependant
Several servo Y-cables	6– 10 pc.	User dependant

Additional Information:

*An actual **RC-Jetprint LWPLA-profile** for the Bambulab X1C printer will be part of the downloadable file-set! This profile is tested on ColorFabb LWPLA only!*

The file names within the complete STL-file set are organized and to read as follows:

“Part name” – “Material to print” – “Recommended infill density” – “Recommended wall loops”

Example: *“Inlet section left-LWPLA 3-1”*

*Material for this part to use is: **LWPLA***

*Recommended infill density is: **3%***

*Recommended wall loops is: **1***