



# Projekt/ Project: Su-XR Version: 1.0 (07.2022)

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## Spezifikationen und Zubehör/ Specifications and list of components:

<b>Spannweite/ Wingspan:</b>	1.125mm
<b>Länge/ Length:</b>	1.195mm
<b>Flächenbelastung/ Wing load:</b>	Nicht berechnet/ Not calculated
<b>Luft-Geschwindigkeiten/ Air speeds:</b>	45-140km/h
<b>Haupt-EDF/ Main-EDF:</b>	2x 64mm
<b>Hauptluftführung/ Main ducting:</b>	Doppeltes Hosenrohr / Twin Ducting
<b>Gewicht/ Weight:</b>	2250g
<b>Stand Schub / Horizontal thrust:</b>	2400g
<b>Vertikaler Stand Schub/ Vertical thrust:</b>	Nicht notwendig/ Not required
<b>Haupt-Lipo/ Main-Lipo:</b>	4S 4000mAh 60-100C
<b>Regler/ ESC:</b>	2x 80A
<b>Spannungsversorgung/ BEC:</b>	6V/7A
<b>Seitenruder Servo/ Rudder servo:</b>	8mm Microservo CLS0511H, MG
<b>Querruder Servo/ Ailerons servo:</b>	8mm Microservo CLS0511H, MG
<b>Höhenruder Servo/ Elevator servo:</b>	KMST XV 8-309-V
<b>Landeklappen Servo/ Flaps servo:</b>	-
<b>Empfänger/ Receiver:</b>	4-7CH
<b>Vektorsteuerung/Thrust vectoring:</b>	8mm Microservo CLS0511H, MG
<b>EZF Bug/ Front gear retract:</b>	25g Mini Retract
<b>Lenkung Bugservo/ Front gear servo:</b>	8mm Microservo KM04MDHV, HV, MG
<b>EZF Haupt/ Main gear retract:</b>	25g Mini Retract
<b>EZF Fläche/ Wing gear retract:</b>	Nicht notwendig/ Not required
<b>Vorderer Impeller/ Front EDF:</b>	Nicht notwendig/ Not required
<b>Hinterer Impeller/ Back EDF:</b>	Nicht notwendig/ Not required
<b>Flächenimpeller/ Wing EDF:</b>	Nicht notwendig/ Not required
<b>Yaw Impeller/ Yaw EDF:</b>	Nicht notwendig/ Not required
<b>Stabi-Lipo/ Leveling-Lipo:</b>	Nicht notwendig/ Not required
<b>Stabi-System/ Leveling system:</b>	Nicht notwendig/ Not required
<b>Flugstabilisierung/ Flight Controller:</b>	3-Axis Gyro with Deltamix or 2x 3-Axis Gyro
<b>Telemetrie/ Telemetry:</b>	Capacity, Voltage, Air speed

### 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!**

<b>Teile Liste/ Part List</b>		
<b>Useful links</b>		
<b>Part</b>	<b>Amount</b>	<b>Link/ Keywords</b>
3D-Printer		<a href="#">Mingda (Affiliate Link)</a>
Printer review		<a href="#">Link (YouTube)</a>
Su-XR build tutorial		<a href="#">Link (YouTube)</a>
<b>Materials</b>		
LW-PLA	1,2kg	<a href="#">ColorFabb</a>
PLA	100g	
3D Lac Plus	1	<a href="#">ColorFabb</a>
Super Glue	3	1x thin, 1x medium, 1x thick
Super Glue Accelerator	200ml	<a href="#">Hobbyking</a>
Sand Paper 80 grid, 120 grid	1m	
Fork heads plastic M2 - 1.6 mm bolt 0	4	<a href="#">Zeller Modellbau</a>
Ball joints M2 - 3 mm 0 M1.6 short		<a href="#">Zeller Modellbau</a>
Ball joints M2 - 3 mm 0 M1.6 long		<a href="#">Zeller Modellbau</a>
Ball joints M2 - 5/2 mm 0 long	2	<a href="#">Zeller Modellbau</a>
M2 threaded rod	0,5m	<a href="#">Amazon</a>
8x1mm Carbon Tube	0,5m	
3x1mm Carbon Tube	1,0m	
6x1mm Carbon Tube	0,5m	
4x1mm Carbon Tube	0,5m	
1,5mm Carbon Rod	2,5m	
push rod connection aluminum M2 - 3 mm 0	4	<a href="#">Zeller Modellbau</a>
M1.6x10mm screw	2	<a href="#">Amazon</a>
M2x8mm Hex Screw	2	
M2x6mm Countersunk Screw	4	
M2 Washers, Nuts, Secure Nuts		
3x2 mm Aluminium Tube	0,1m	
Miniature ball bearing MF128 ZZ, 8x12x3.5	4	<a href="#">RC-Causemann</a>
Magnets 5x5x5	12	<a href="#">Amazon</a>
Magnets 5x5x2	36	<a href="#">Amazon</a>
<b>RC Components</b>		
<b>Part</b>	<b>Amount</b>	<b>Link/ Keywords</b>
Elevator-Servo: KMST XV 8-309-V	2	<a href="#">EMC Vega</a>
All other Servos: 8mm Microservo CLS0511H, MG	7	<a href="#">Unilight</a>

Gyro → watch Youtube Video Gyro Settings	01.02.2022	<a href="#">Banggood</a>
UBEC 5A (no Landing Gear) UBEC 7A (with Landing Gear) (only when opto ESC is used)		<a href="#">Banggood</a>
EDF 64mm	2	· FMS 64mm 11-Blades EDF/ 2840 3150KV, 4S · xFly 64mm EDF for 4s
ESC 60-80A	2	<a href="#">Flyingmachines</a>
APD F Series 80F3 8S 34V 80A		
Battery 4S 3300-4000 mAh (max. 410g) 60-100C	1	<a href="#">Amazon</a>
Servo Wire Extensions 5cm	2	<a href="#">Aliexpress</a>
Servo Wire Extensions 10cm	2	
Servo Wire Extensions 15cm	2	
Servo Wire Extensions 30cm	2	
Servo Y-Cable	2	
Servo Reverse Module	1	<a href="#">Aliexpress</a>
Landing Gear Retract	3	25g retract, 25g retractable

General Slicer Settings (Cura) for LW-PLA Parts			
All datas tested on following Creality printers: Ender3v2, CR10v3, CR10Max			
<b>General Settings</b> (all data in °C or mm):			
Nozzle dia.: 0,4mm	Line width:	Layer height: 0,2mm	Wall order: in to out
Print thin walls: yes	Seam Alig.:	Seam Pref.: Hide Seam	Top/Bottom Pat.: Lines
Monotonic Top/Bottom Order: Yes		Skin Overlap 3%	Infill Overlap 2%
Nozzle Temp: 212 -242	Bed Temp:	Initia. Layr Flow:150%	Print Speed: 30mm/s
Travel Speed: 120mm/s	Cooling: 100%		
<b>Retract (Normally Disabled), watch YouTube Tutorial SU-XR Slicer Settings</b>			
Extra Prime: 1mm Retract Minimum Travel: 70mm Combing Mode: All			
<b>Support:</b> Yes Structure: Normal Placement: Everywhere Minimum Area: 5mm <sup>2</sup>			
Overhang Angle: 70° Pattern: Lines Density: 3% Support-Brim: 1mm/Lines			
Z Distance: 0,35mm X/Y Distance: 0,5mm Priority:X/Y overrides Z Support Interface: Yes Roof			
Interface Thicknes: 1 Interface Density 30% Interface Pattern: Grid			
Build Plate Adhesion: Skirt 4 Line Brim: 6-10mm (Depends on Printplate Adhesion Quality)			

