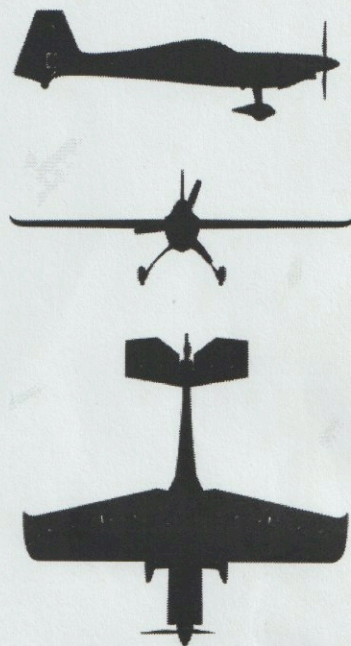


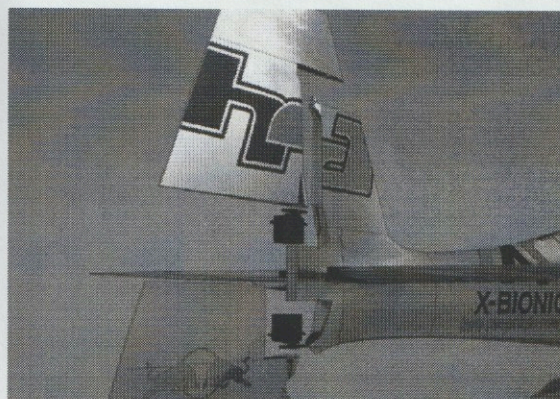
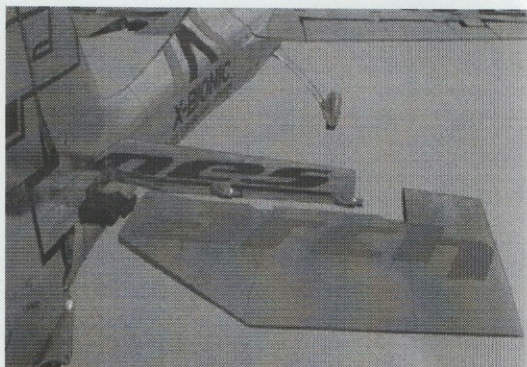
General specifications:

Length:	1620 mm / 64 inch
Wingspan:	1620 mm / 64 inch
Height:	548 mm / 21.6 inch
Wing area:	48dm ² / 5.2 sq ft
Wing loading:	75.3 g/dm ² / 28.6 oz at sq ft
Center of gravity:	95mm / 3.7 in from LE
Airfoil:	3DLabPrint symmetric 02
Weight of printed parts (w/o wheels):	2115 g / 72.7 oz
Takeoff weight (6s 3300mAh Li-Pol):	3630 g / 130.5 oz
Max takeoff weight:	4100g / 148.2 oz
Never exceed speed, VNE:	170 km/h / 105 mph
Design maneuvering speed, VA:	120 km/h / 74.6 mph
Stall speed, VS(full flaps):	32 km/h / 20mph



Performance measurement:

Max speed VH (level flight):	140 km/h – 75.6kn – 87.0mph
Rate of climb:	31 m/s (6 100 ft/min)
Flight time (8s 3000mAh):	8:00 min (+30% reserve)



Item	Qty	Cost	Own	Need	Total
Decals					0
Servo - Corona CS238MG Metal Gear			10	0	0
Servo - Corona DS238MG Metal Gear	8	\$13		5	3
Servo Signal Reverser	1	\$4		1	0
1.5x12mm Self Tapping Screw (1/16" or 15 Gauge)	16			0	16
Carbon Fiber Landing Gear 150mm for Yak 50E	1	\$18		0	1
					18
					0
Lightweight Scale Wheel 83mm (Weight: 19gm / 4mm axle hole)	2	\$2		0	2
4mm Steel Axles w/M5 Thread	2	5		0	2
Landing Gear Wheel Stop Set Collar 9x4.1mm	1	\$2		0	1
M4x30mm self tapping screw	1	\$2		0	1
Aerodrive SK3 - 5055-430KV	1	\$72		0	1
Tail Wheel and 3-4mm axle					0
YEP 120A LV (2-6S) Brushless Speed Controller with Selectable SBEC	1	\$77		0	1
TURNIGY GRAPHENE PANTHER 4000MAH 3S 75C BATTERY	2	\$85		0	2
MASTER AIRSCREW CLASSIC - 18X8 PROPELLER	1	20		0	1
Turnigy Ultra-Light Wood Propeller 18x8	1	\$10		0	0
3-4mm axle for tail wheel	1	\$2		1	0
Super Glue Medium	2	\$6		0	1
Carbon Fiber Wing Tube	1	\$9		0	1
XT90 BATTERY HARNESS 10AWG FOR 2 PACKS IN SERIES	1	\$7		0	1
					7
					436

Edge 540 v3 Aircraft - Printing - Final Parts

Aircraft Section	Filament Used (m)	Filament Cost	Elec Cost	Print Time (hrs)	Weight Target (gm)	Weight (gm)
Fuselage	308	\$27.57	\$5.74	104.0	866	848
Landing Gear	29	\$2.47	\$0.54	9.7	51	80
Left Wing	185	\$16.24	\$3.72	67.4	459	511
Right Wing	213	\$18.10	\$4.52	81.9	527	574
Spinner	27	\$2.36	\$0.53	9.6	38	35
Support	7	\$0.61	\$0.22	4.0	20	17
Tail	129	\$11.26	\$2.99	54.2	324	342
Total	898	\$78.61	\$18.26	330.8	2,285	2,407

Electricit
Filament

Edge 540 v3 Aircraft - All Printing - Including Failures

Aircraft Section	Filament Used (m)	Filament Cost	Elec Cost	Print Time (hrs)
Fuselage	405	\$36.12	\$7.43	134.57
Landing Gear	29	\$2.47	\$0.54	9.73
Left Wing	430	\$37.92	\$8.97	162.45
Right Wing	471	\$40.27	\$10.03	181.75
Spinner	54	\$4.72	\$1.05	19.10
Support	14	\$1.22	\$0.44	8.03
Tail	214	\$18.76	\$4.96	89.90
Total	1,617	\$141.48	\$33.43	605.53

\$174.91

Total Overall Cost

22% Scale

Length: 1620 mm / 64 inch

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Height: 548 mm / 21.6 inch

Wing area: 48dm² / 5.2 sq ft

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Center of gravity: 95mm / 3.7 in from LE

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Rate of climb: 31 m/s (6100 ft/min)

Flight time (8s 3000mAh): 8:00 min (+)

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