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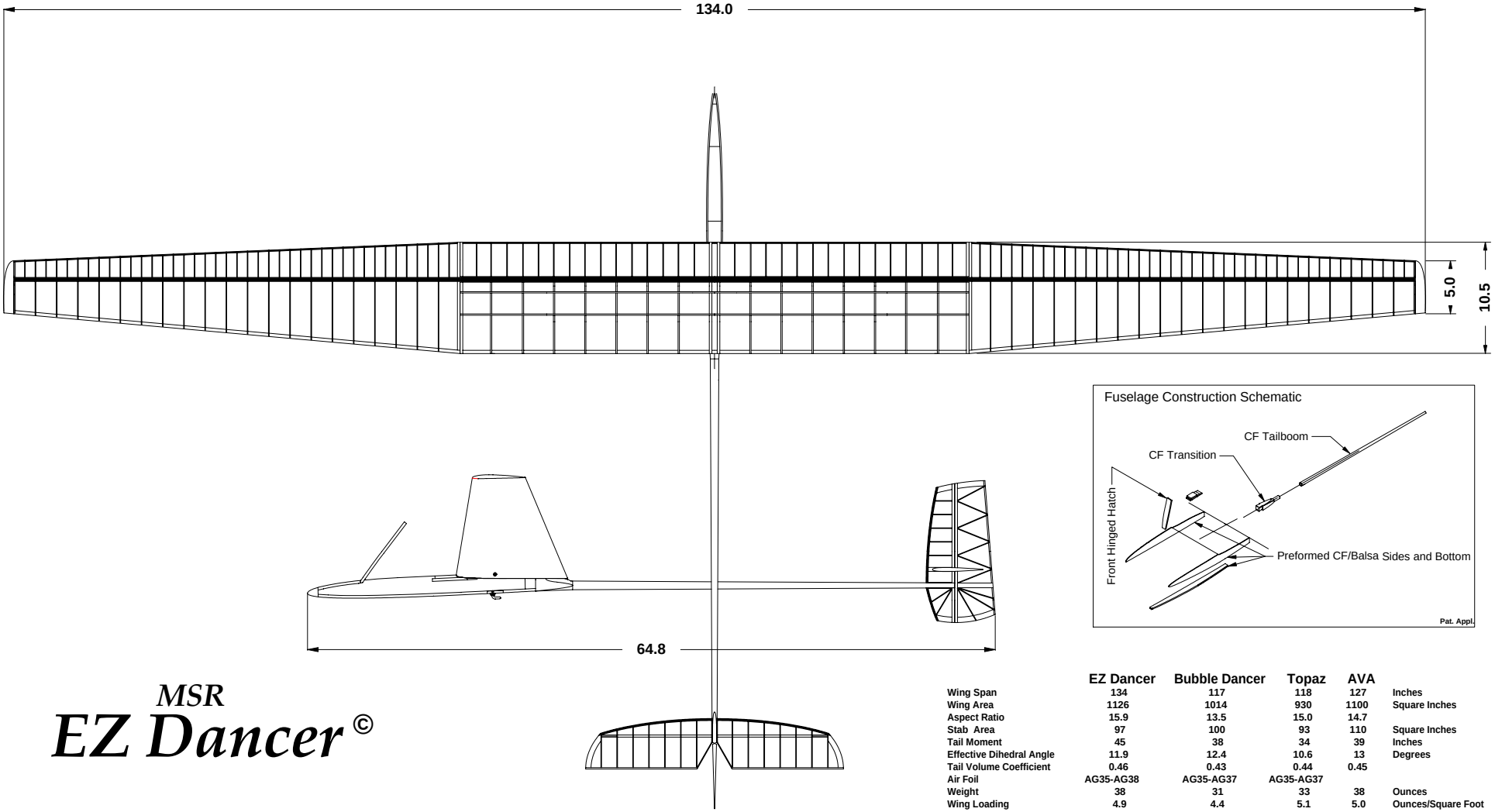
EZ Dancer©

The EZ Dancer is an RES design intended to be competitive with European CF reinforced planes and suited for construction by reasonably competent builders. CF reinforced construction i.e. CF rib caps and TE's is not difficult if the plane is properly designed. All parts of the EZ Dancer have been designed and will come pre-shaped either as laser cut parts, molded parts, or machine cut parts. Wing Spars are CF capped, balsa core and machine wrapped Kevlar with CF joiner rods, designed in the Drela mode – they will come complete and ready use. All construction is self jigging. In keeping with the current trends in RES planes, the four objectives which are emphasized in this design are aerodynamics, weight, strength and the ability to build a very straight plane. The attached drawings show the layout and overall specifications for the plane. Rather than using a fully molded pod, the EZ Dancer utilizes a sort of "Tinkertoy" approach to design, using a prefabricated boom, a CF transition piece and pod parts which attach to the transition and are preshaped from vacuum bagged balsa and uni-directional and bias CF fabrics. This design was selected to reduce manufacturing costs, and to allow easy modification to accommodate other wings, booms and nose lengths. I have other fully molded pods available if this design is not esthetically pleasing to the builder.

I am currently constructing tooling to allow easy construction of the wing spar assemblies, fuselage transition, fuselage parts and controls. If there is interest, I will manufacture and sell kits – anticipated price is around $300. This will include all parts required for construction except covering and adhesives. Spars will come fully fabricated including joiner assemblies and machine wrapped Kevlar reinforcement, D-tube skins will be pre-fabricated, fuselage parts will be laminated and machined to shape, all CF materials will be furnished and all ribs and other parts will be furnished laser cut.

I anticipate completion of tooling in about 6 weeks. Before kits go on sale, I am looking for five good builders in various parts of the country who are interested in constructing "beta" versions of the kit to ensure that the design is sound from a simple construction perspective and that performance is up to snuff. I have nearly completed the design of all the laser cut parts and will be getting quotes on those in about 3 weeks. If there is interest I would furnish the "beta" versions at my cost of materials (excluding tooling costs). While I am guessing right now, I think that will be between $100 and $150.



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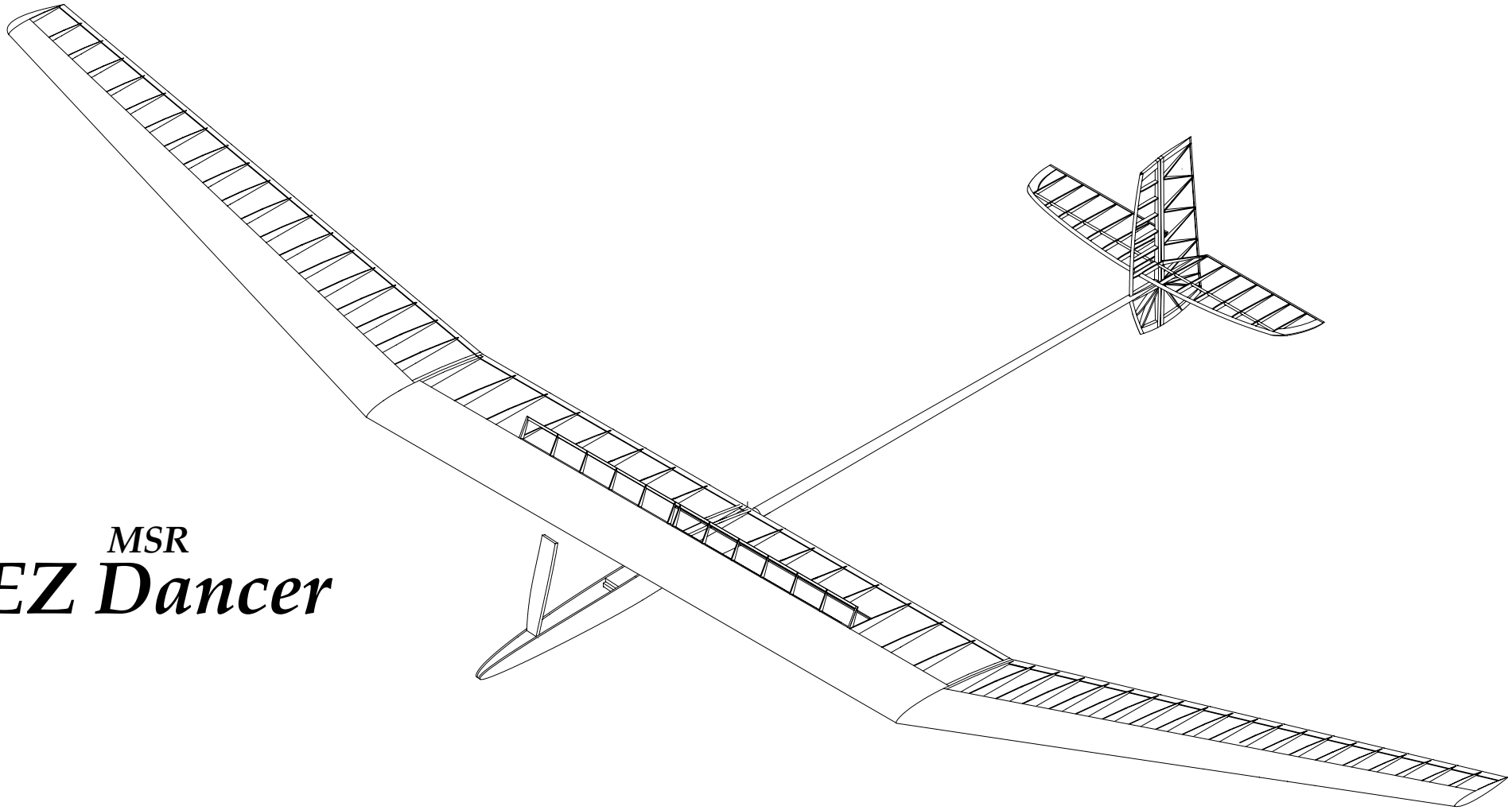
	EZ Dancer	Bubble Dancer	Topaz	AVA	
Wing Span	134	117	118	127	Inches
Wing Area	1126	1014	930	1100	Square Inches
Aspect Ratio	15.9	13.5	15.0	14.7	
Stab Area	97	100	93	110	Square Inches
Tail Moment	45	38	34	39	Inches
Effective Dihedral Angle	11.9	12.4	10.6	13	Degrees
Tail Volume Coefficient	0.46	0.43	0.44	0.45	
Air Foil	AG35-AG38	AG35-AG37	AG35-AG37		
Weight	38	31	33	38	Ounces
Wing Loading	4.9	4.4	5.1	5.0	Ounces/Square Foot



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