



Model 35 CM
 Model name Slow Motion
 Rubber 5/99 .023x11.75"
 Best time 2013 Champaign USIC
 28 +Minutes no touch

M/S		
IMS Wood, Sheet weight .010X18X1.150" wide		.202 gram
Cut size .010X41/64X8.5" rolled on glass tube	35CM	.058
Glued		.063
Cut to 8.2"		.060
T/B .008 with .013 C grain web .055 long at the bottom		
.007C grain fill in with tissue cover		.012
M/S with one .003 boron on bottom of tube		.066
M/S with T/B and cap+ gusset		.080
R/H .007 with 6# .023X.027 support post, gusset and front support		.006
Joshua design rear hook		
M/S with T/B, R/H		.094
M/S complete with tail boom extension and .035X.045X2"		
Wing posts		.110

WING

L/E spar TG 4.4# .027.062>>.027x.050X5 "-2--		.016
T/E " " " Same as wing #1 "		.012
Wing tips IMS .023X.035X11 " (2)		.018
Ribs .019X.060 " (4)		.022
Buckling load of L/E spar-.816-- Stiffness coefficient - 236 This is wrong		
Dry weight -----		.070
Covered with Y2K smooth instead of crinkled -----		.100
With 2 paper tubes -----		.106

Wing #4 built 3/10/2010 for model with Blue dot

L/E Wing spar .025x.069x9" unknown density, found in ROG wood tube
Deflection with .2 gm wt at 5" --- .3"

T/E spar .021x.065x9" unknown density ----- .010
Deflection with .2 gm wt at 5" .4"

Center ribs .014x.040 ----- 2 -----	.006
Dihedral ribs .014x.055 ----- 2 -----	.010
Wing tips .018x.035x11" -----2 -----	.014
Dry weight -----	.054
Covered with Y2K2 -----	.080
With paper tubes -----	.088

I could not use wing #3 because the T/E spar was too weak but
#4 wing works great and is 30MG lighter than the original 2 wings

BOOM .006, unknown density, rolled on small fishing rod tip. 10.1" .040
Wrapped large end with tissue to prevent splitting. .042

FIN same wood as stab outline .006
Covered with Y2K

STAB used F1L outline. .022X.027. no taper
.010 C grain ribs Dry .020
Covered with Y2K

V/P prop

Spars .040x.050>>.025sq.x5.25" long (2)	.014
Hub with Aluminum 2 washers	.006
Carbon fiber driver .010x.050x.3" with .008 prop shaft	.010
With tissue hinge and all of the above	.028
With (2) .003" Boron on hub and .005" actuator arms	.032
C/F support arm and 2 00-90 nylon screws.	.006
Spring, 2 wraps of .005" MW	.004
Complete hub with spars	.042
Prop outline 4.2# .018sq.	
#1 rib 6# .018x.025 Ribs 2 & 3, 4# .018x.020	
Prop outline dry with .003 Boron on first 1.2" of the	
T/E outline to prevent rough steering	.056
Covered with Y2K	.068
Designed by Larry Coslick	