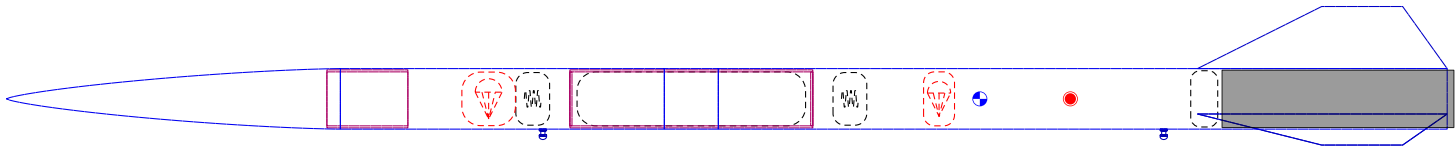


Rocket Design



Shockless-1
Stages: 1
Mass (with motor): 116 oz
Stability: 1.5 cal / 6.28 %
CG: 36.063 in
CP: 39.416 in

J450-14

Altitude	7744 ft	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Flight Time	228 s	J450DM	465 N	2.28 s	541 N	1062 Ns	12.47:1	18 oz	2.13/14.1 in
Time to Apogee	21.3 s								
Optimum Delay	19 s								
Velocity off Pad	91.9 ft/s								
Max Velocity	861 ft/s								
Velocity at Deployment	50.4 ft/s								
Landing Velocity	16.7 ft/s								

J250-14

Altitude	5166 ft	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Flight Time	187 s	J250W	251 N	2.82 s	336 N	709 Ns	7.78:1	12.8 oz	2.13/8.59 in
Time to Apogee	18 s								
Optimum Delay	15.1 s								
Velocity off Pad	83.3 ft/s								
Max Velocity	616 ft/s								
Velocity at Deployment	47.5 ft/s								
Landing Velocity	15.7 ft/s								