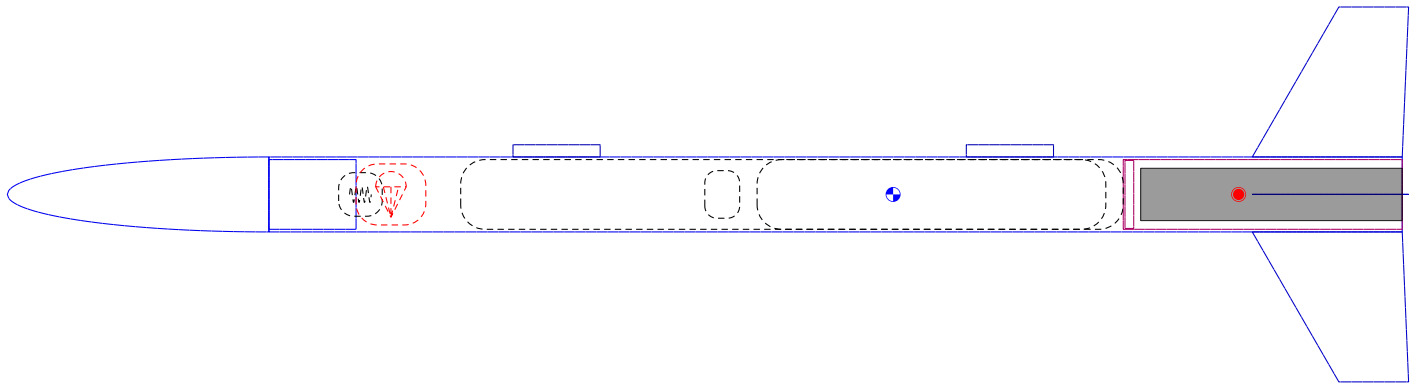


Rocket Design



Rocket
Stages: 1
Mass (with motor): 1024 g
Stability: 4,61 cal
CG: 50,8 cm
CP: 70,6 cm

0-P













Altitude	0 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	8,93 s	0	8,22 N	3,21 s	8,57 N	27,6 Ns	0,83:1	100 g	32/150 mm
Time to Apogee	0 s								
Optimum Delay	N/A								
Velocity off Pad	N/A								
Max Velocity	0 m/s								
Velocity at Deployment	N/A								
Landing Velocity	0 m/s								

My1-0

Altitude	92,4 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
Flight Time	10,2 s	My1	124 N	0,991 s	245 N	123 Ns	12,34:1	122 g	30/150 mm
Time to Apogee	3,3 s								
Optimum Delay	8,17 s								
Velocity off Pad	10,1 m/s								
Max Velocity	114 m/s								
Velocity at Deployment	114 m/s								
Landing Velocity	16 m/s								

Parts Detail

Sustainer

	Nose cone	PVC (1,39 g/cm ³)	Ellipsoid	Len: 15 cm	Mass: 69,3 g
	Body tube	Cardboard (0,68 g/cm ³)	Dia _{in} 4 cm Dia _{out} 4,3 cm	Len: 65 cm	Mass: 86,4 g
	Shock cord	Elastic cord (round 2 mm, 1/16 in) (1,8 g/m)		Len: 40 cm	Mass: 0,72 g
	Parachute	Ripstop nylon (67 g/m ²)	Dia _{out} 30 cm	Len: 4 cm	Mass: 7,98 g
	Shroud Lines	Elastic cord (round 2 mm, 1/16 in) (1,8 g/m)	Lines: 6	Len: 30 cm	
	Servo		Dia _{out} 2,73 cm		Mass: 15 g
	Electronics		Dia _{out} 4 cm		Mass: 63 g
	Inner Tube	Cardboard (0,68 g/cm ³)	Dia _{in} 3,9 cm Dia _{out} 4 cm	Len: 16 cm	Mass: 6,75 g
	Engine block	Cardboard (0,68 g/cm ³)	Dia _{in} 3,9 cm Dia _{out} 3,9 cm	Len: 0,5 cm	Mass: 0 g
	Trapezoidal fin set (4)	Cardboard (0,68 g/cm ³)	Thick: 0,35 cm		Mass: 51,6 g
	Launch lug	Cardboard (0,68 g/cm ³)	Dia _{in} 0,5 cm Dia _{out} 0,7 cm	Len: 5 cm	Mass: 0,641 g
	Launch lug	Cardboard (0,68 g/cm ³)	Dia _{in} 0,5 cm Dia _{out} 0,7 cm	Len: 5 cm	Mass: 0,641 g
	Parachute mechanism		Dia _{out} 4 cm		Mass: 500 g

