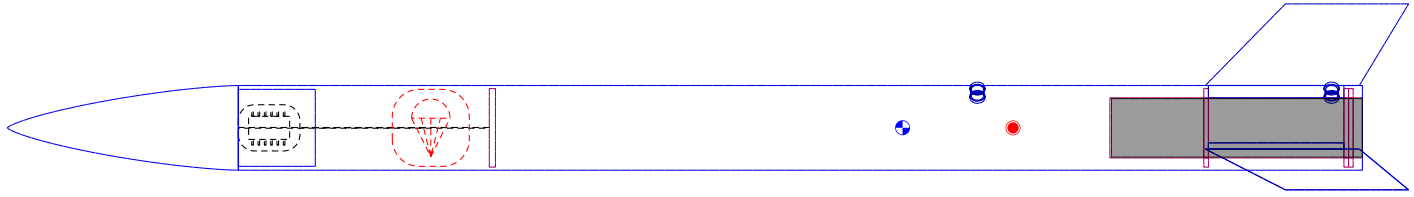


Rocket Design



Mahmut Esat Kolay

Stages: 1

Mass (with motor): 618 g

Stability: 1,3 cal / 7,88 %

CG: 58,1 cm

CP: 65,3 cm

G73-P

Altitude	987 m	Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Motor Wt	Size
Flight Time	151 s	G73	72,8 N	1,95 s	177 N	142 Ns	12,00:1	130 g	38/163 mm
Time to Apogee	12,8 s								
Optimum Delay	10,9 s								
Velocity off Pad	15,3 m/s								
Max Velocity	204 m/s								
Velocity at Deployment	2 m/s								
Landing Velocity	7,01 m/s								

Parts Detail

Stage: Devam Et



burun

Fiberglass
(1,85 g/cm³)

Haack series

Len: 15 cm

Mass: 87,5 g



AVİYONİK SİSTEM

Dia_{out} 3 cm

Mass: 30 g



Gövde

Cardboard
(0,68 g/cm³)

Dia_{in} 5,1 cm
Dia_{out} 5,5 cm

Len: 73 cm

Mass: 165 g



Parachute

Ripstop nylon
(67 g/m²)

Dia_{out} 45 cm

Len: 5 cm

Mass: 13,7 g

Shroud Lines

Braided nylon
(2 mm, 1/16 in)
(1 g/m)

Lines: 6

Len: 50 cm



Shock Cord

Braided nylon
(2 mm, 1/16 in)
(1 g/m)

Len: 200 cm

Mass: 2 g



Kundak

Cardboard
(0,68 g/cm³)

Dia_{in} 3,9 cm
Dia_{out} 3,9 cm

Len: 16,4 cm

Mass: 0 g



Merkezleme halkası

Plywood
(birch)
(0,63 g/cm³)

Dia_{in} 3,9 cm
Dia_{out} 5,1 cm

Len: 0,3 cm

Mass: 1,6 g



Merkezleme halkası

Plywood
(birch)
(0,63 g/cm³)

Dia_{in} 3,9 cm
Dia_{out} 5,1 cm

Len: 0,3 cm

Mass: 1,6 g



Merkezleme halkası

Plywood
(birch)
(0,63 g/cm³)

Dia_{in} 3,9 cm
Dia_{out} 5,1 cm

Len: 0,3 cm

Mass: 1,6 g



Trapezoidal Fin Set (3)

Cardboard
(0,68 g/cm³)

Thick: 0,3 cm

Mass: 33,2 g



PARAŞÜT DESTEK

Plywood
(birch)
(0,63 g/cm³)

Dia_{in} 0 cm
Dia_{out} 5,1 cm

Len: 0,4 cm

Mass: 5,15 g



Rail Button

Delrin
(1,42 g/cm³)

Len: 0 cm

Mass: 0,797 g



Rail Button

Delrin
(1,42 g/cm³)

Len: 0 cm

Mass: 0,827 g

