



Savunma ve Alan Tarama
Teknolojileri Sanayi A.Ş.

MBI Savunma ve Alan Tarama Teknolojileri Sanayi A.Ş.

Unmanned Aerial Vehicle (UAV)

MBI SERCE TRT-2.2

► Technical Features

- Automatic Waypoint Navigation
- Secure Digital Communication
- Home Return
- Safe Parachute Landing
- Multi UAV Support (Up to 5 aircrafts on one ground control station)
- Smart Fuel Management System
- Automatic Take Off and Landing (Optional if runway is available)
- Automatic Cruise
- Joystick Assisted Semi-Automatic Control
- Stall Control in Case of Motor Failure
- Spin Control in Harsh Wind Conditions

Comm. Range	> 10 km
Cruise Speed	60-70 knots
Max. Speed	96 knots
Altitude	>2000 m
Ceiling	>3000 m
Endurance	<3 hrs
Wing Span	>2.4m
Length	>2m
Takeoff / Landing	Runway or Catapult
Max Takeoff Weight	100 kg
Payload Capacity	<5 kg
Fuel Type	Gasoline (Oil Mixed)
Engine Type	Internal Combustion

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TRAINING DRONE FOR 37 MM TWIN AD GUN SYS

Technical Data:

Make : MBI Corp.

Type : TDT –2.2,

Model: Mini Serce

Capabilities:

1. Capable of providing a target for detection, acquisition, tracking, and simulated firing with the 37 mm Twin AD Gun sys.
2. Capable of flying according to the ground remote control instructions (level flight, climb, return accelerate and decelerate, etc).
3. Capable of transmitting drone data to the ground control station (GCS).
4. Capable of controlling pre-program flight path as and when required through GCS.
5. Capable of repeated use.
6. Capable of flying in all wx conditions.

System Dimension:

- a. **Overall Length** : 3 feet
- b. **Overall Height** : 0.4m
- c. **Wing Span** : 1.8 – 2.0 m

Fuselage Length:

- a. **Maximum Vertical Width:** 0.30-0.50m
- b. **Maximum Lateral Width** : 1.1 m

Net Weight (Excl fuel and other payload) : 3.5 Kg

Launching Weight : 5 Kg

Total weight of the whole system without fuel: 4.1 Kg

Launch System : Portable Catapult Ramp Launch system

Operating Radius: 4 km up to 70 km

Maximum Flight Duration/ Endurance (without refueling): 65 minutes

Ceiling: 4100 m

Speed : Minimum 150 km/h Maximum 180 km/h

Communication Frequency with ground station (Wireless frequency components used and arrangement to be specified): 917-922 MHz

Ground Support Equipment: Mobile Ground Control Station, Antenna Tracking System, Catapult Launching System, External Engine Starter, Refueling Station.

Engine:

Engine Type : Internal Combustion Engine

Make : DEL

Model : DLE 120

Engine Displacement : 120.0cc

Engine Horse Power (bhp): 12 Hp

Engine RPM : 7,500 rpm

Fuel consumption rate : 950g/ KWH

Environmental

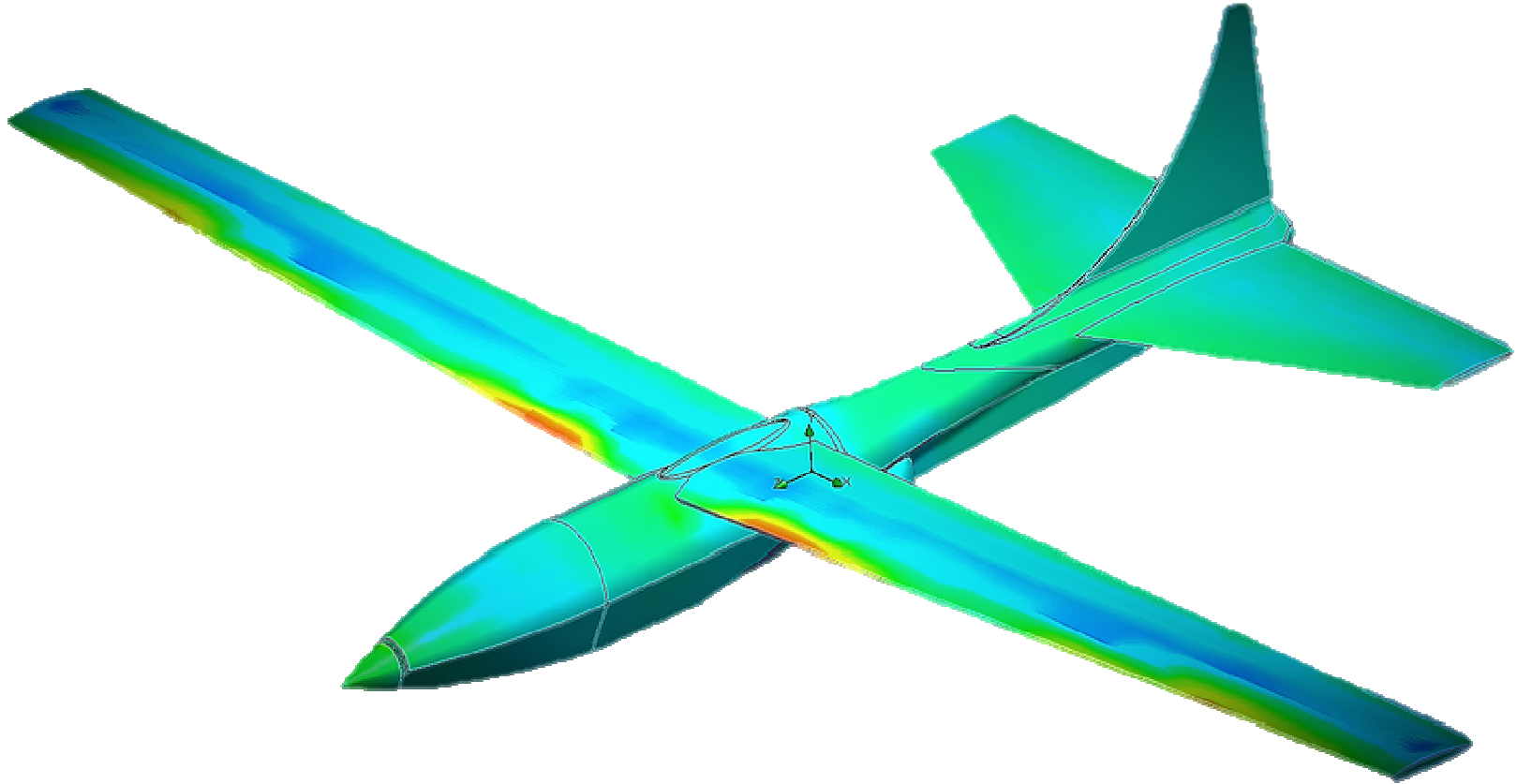
- a. **Wing Resistance** : 5th Grade 20m/ s
- b. **Operating Temperature** : -20+55 Celcius



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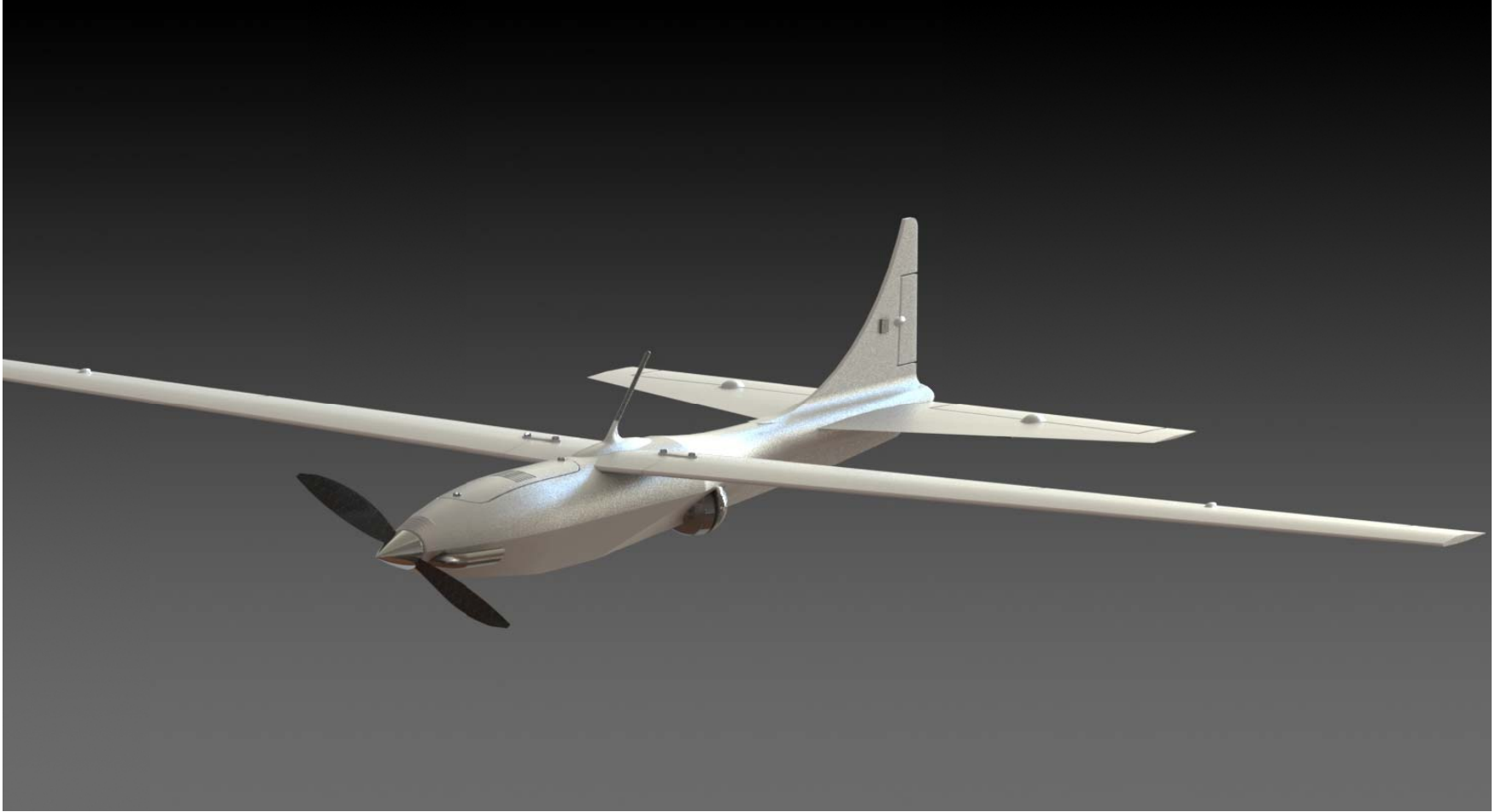
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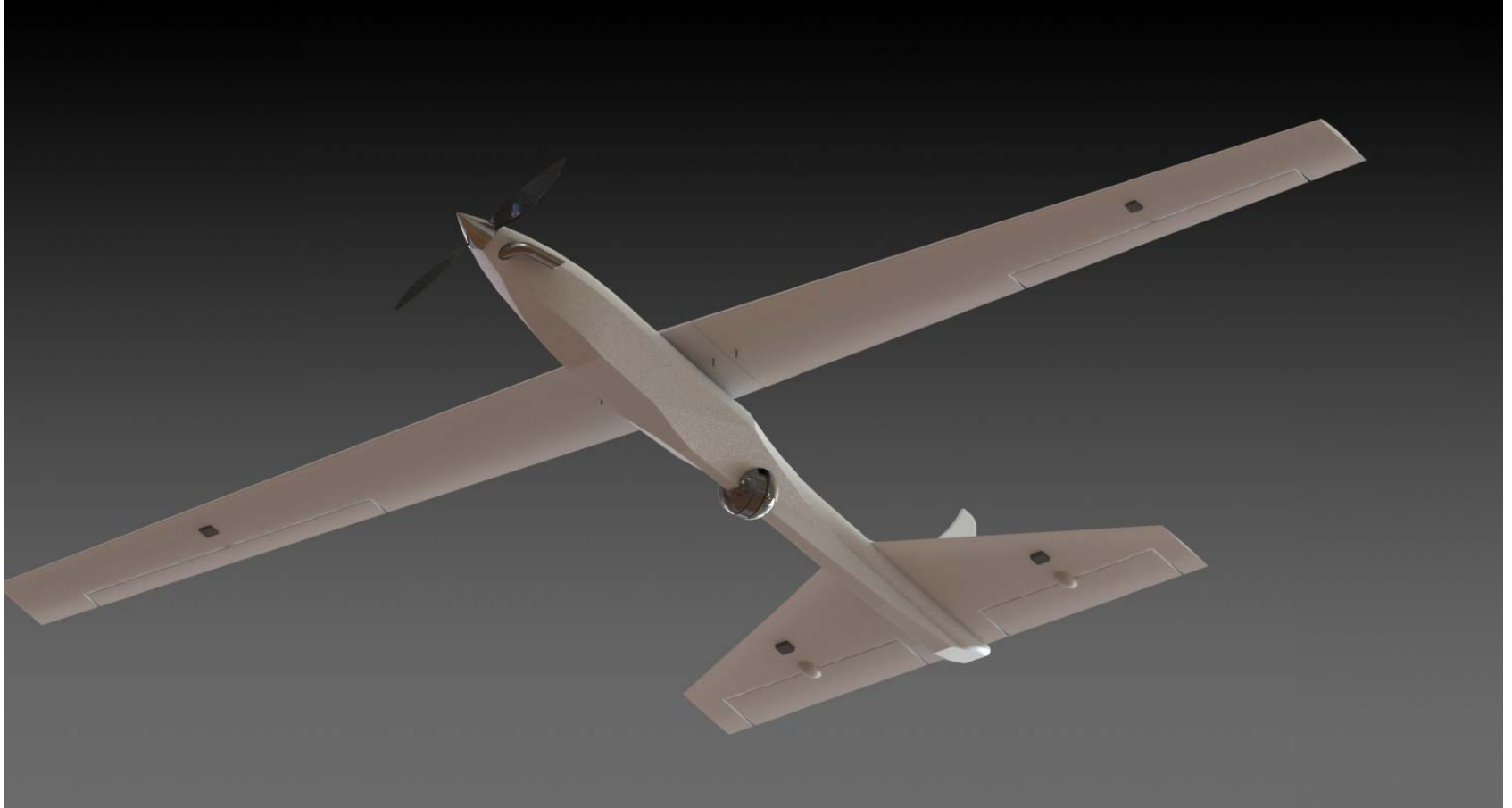
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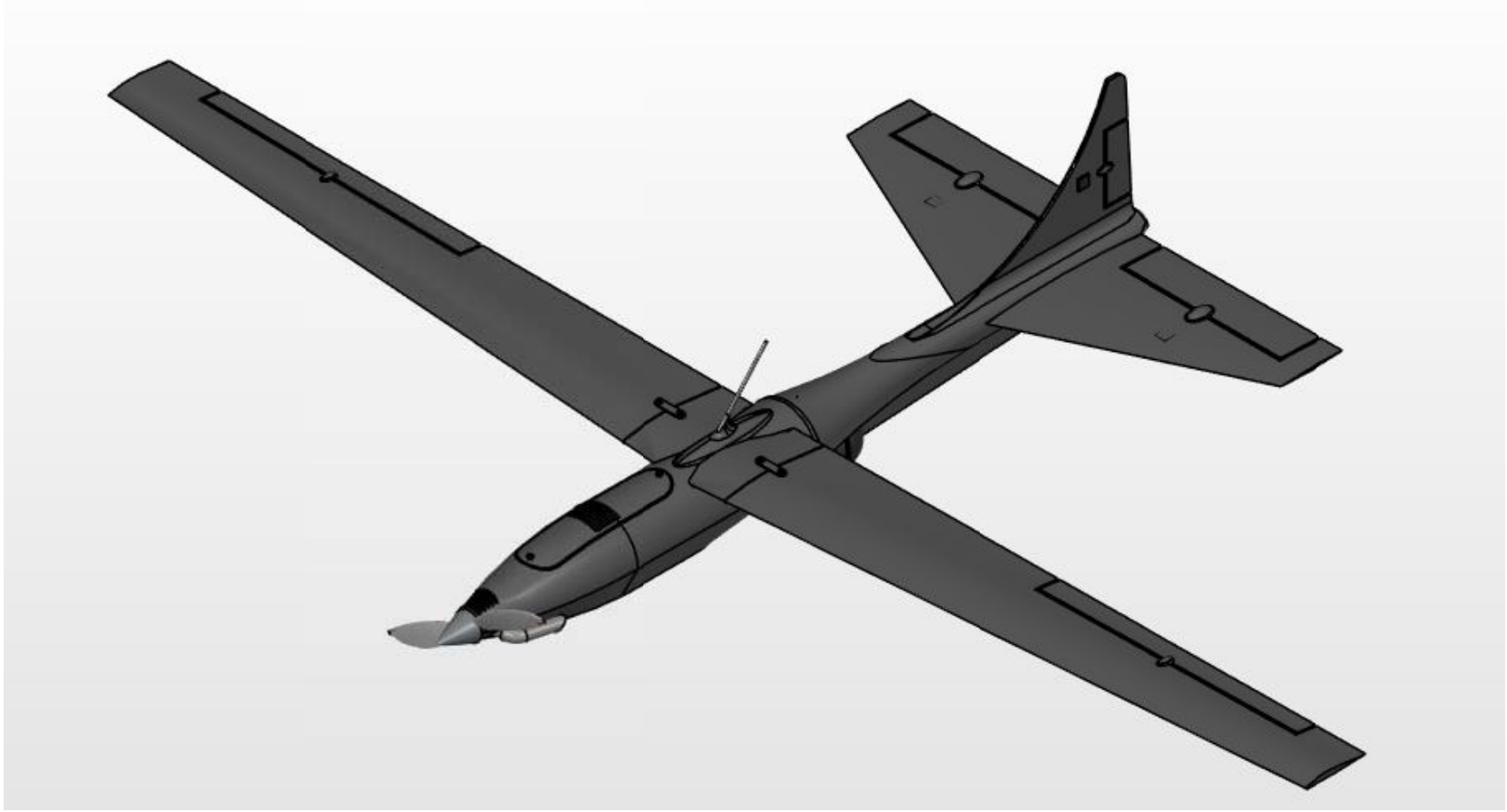
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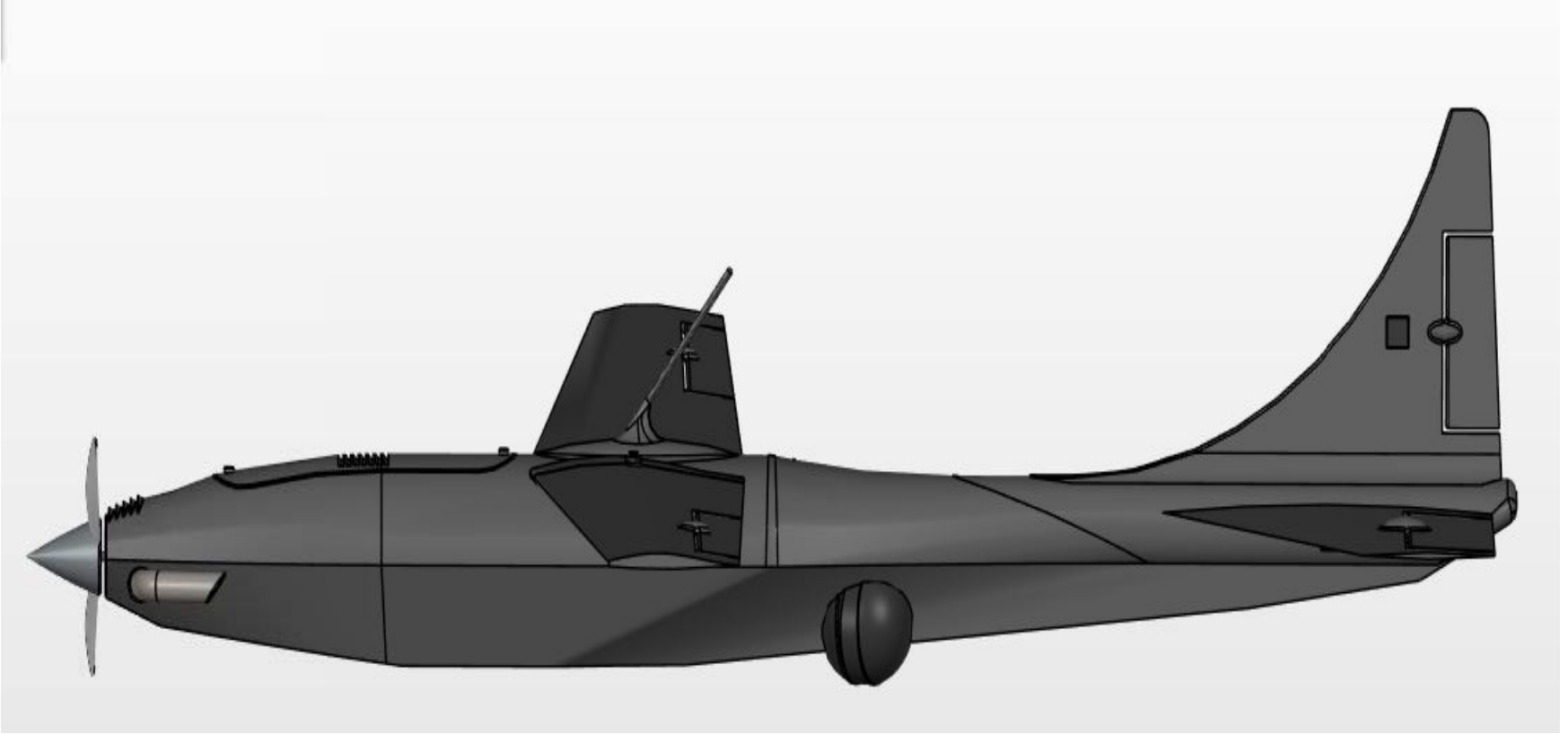
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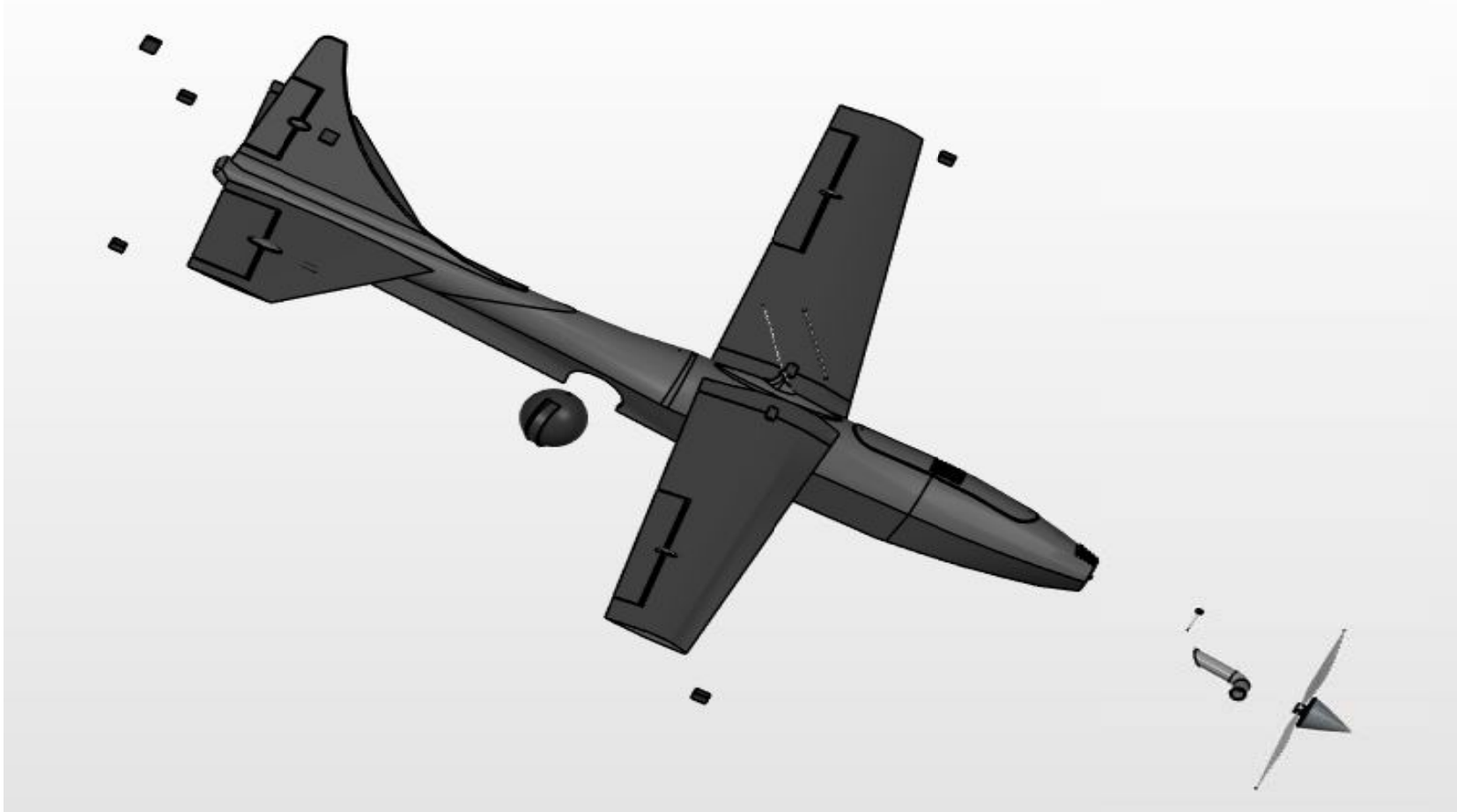
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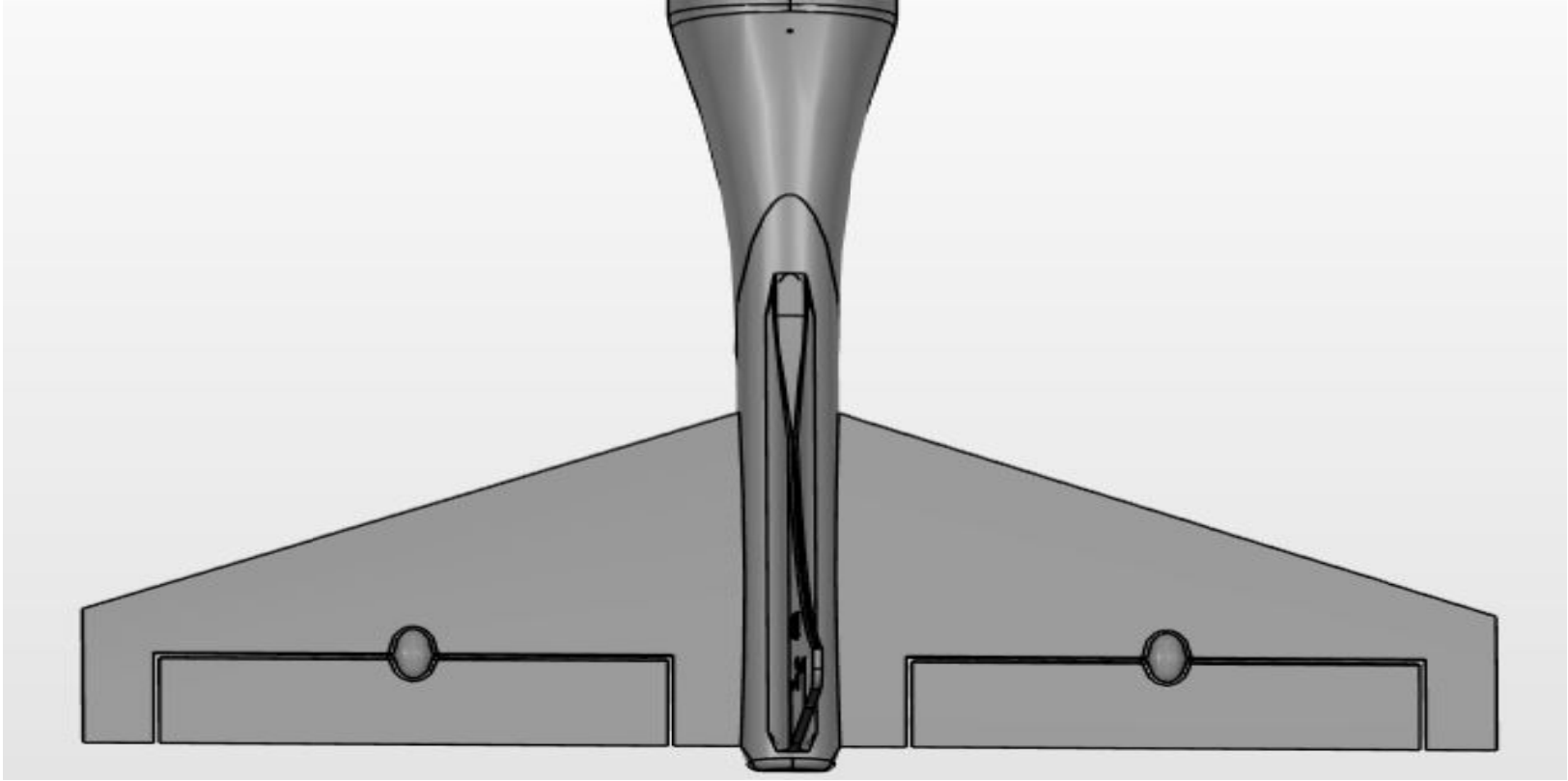
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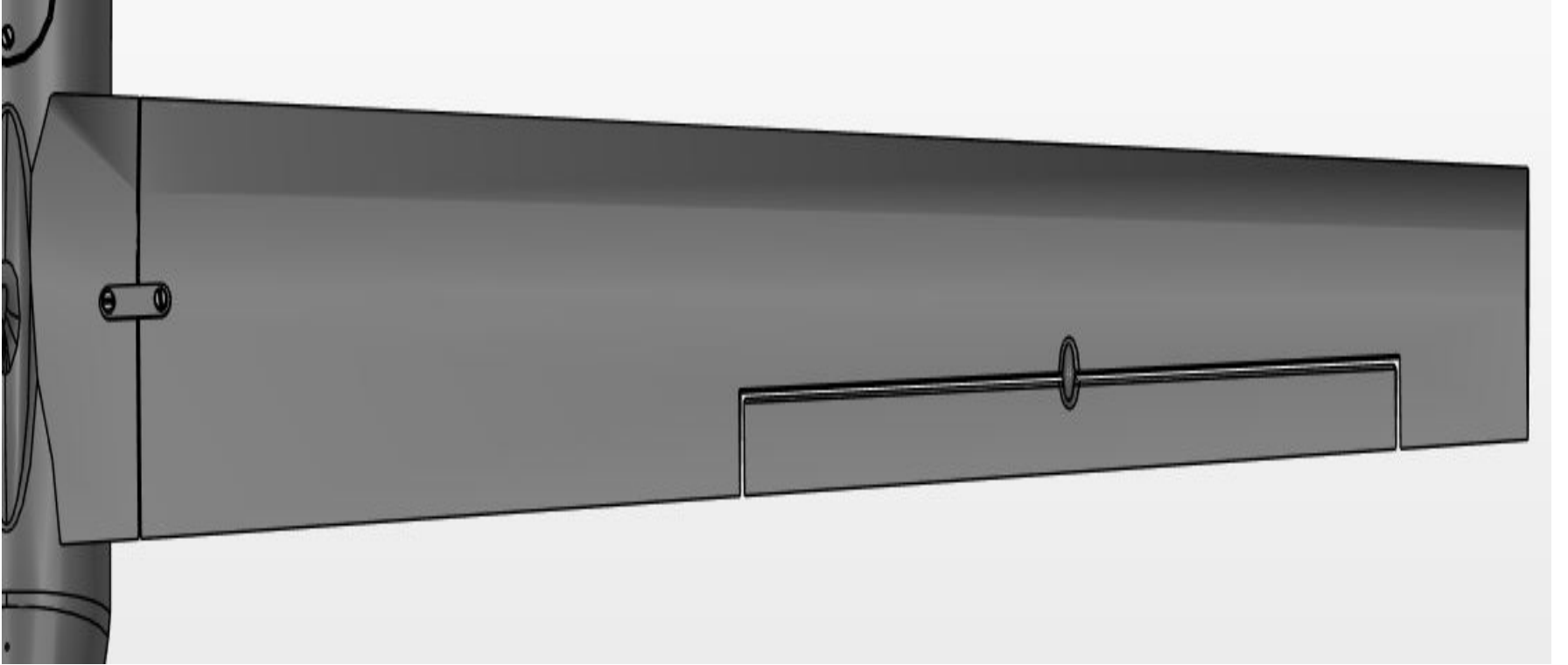
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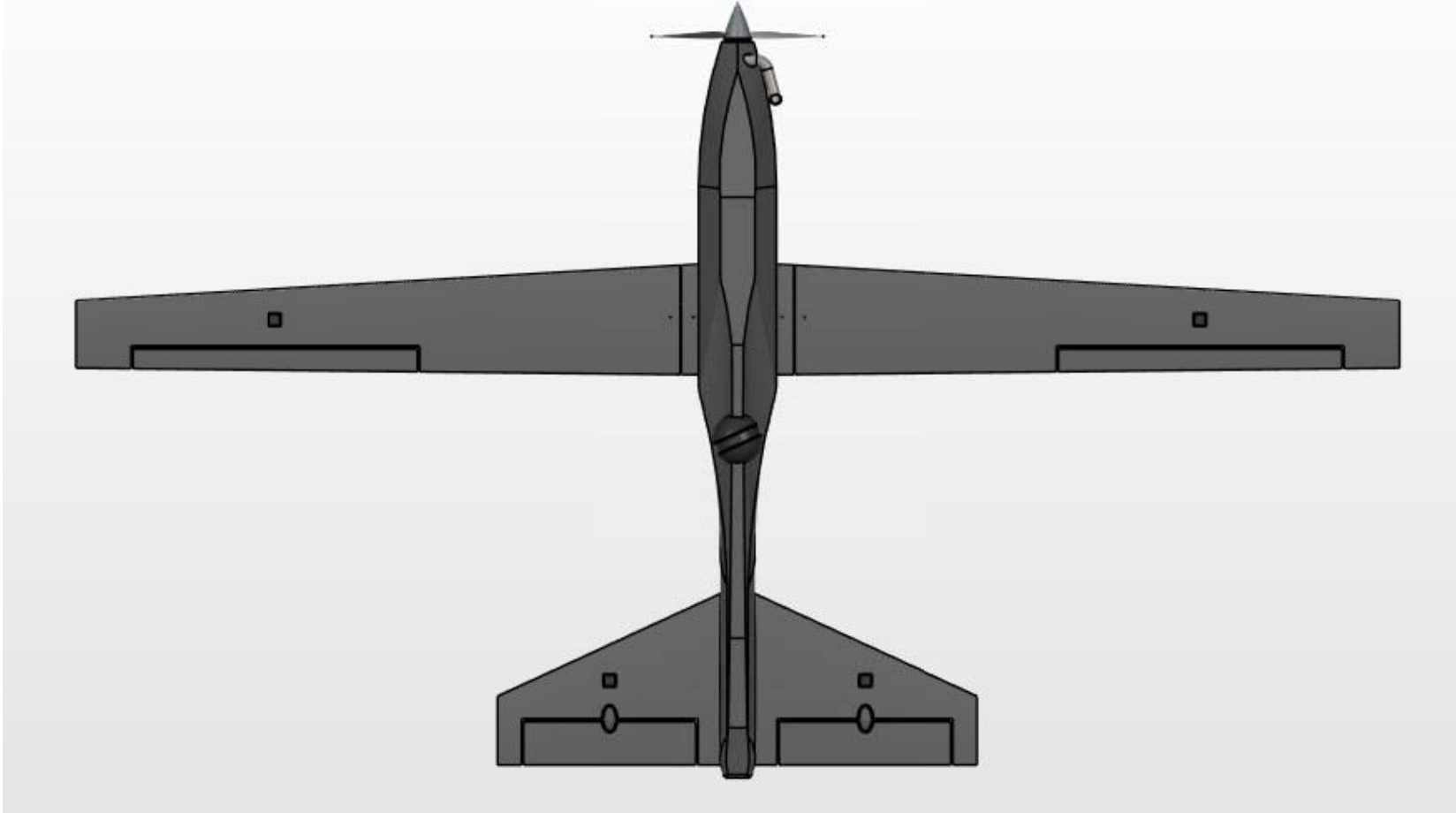




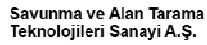
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