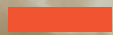


# HALCON

## AMBITION 1

# REACHING THE SKIES. EXPLORING THE SPACE.



The Sounding Rocket – Ambition 1 is a cost-effective platform designed to carry payloads to Low Earth Orbit (LEO) altitude for the purpose of low gravity experimentation. It is propelled via two-stage propulsion system of Solid Propellant Rocket Motors. Ambition 1 is the first Emirati sounding rocket, which is designed by HALCON in the United Arab Emirates.



# S P E C I F I C A T I O N S



<b>Wing span</b>	1.3 m
<b>Length</b>	10.5 m
<b>Takeoff weight</b>	1,100 kg
<b>Payload</b>	100 kg
<b>Engine</b>	Two stages rocket motors
<b>Endurance</b>	30 minutes
<b>Max altitude</b>	160 km

## 1<sup>ST</sup> STAGE ROCKET MOTOR

<b>Diameter</b>	480 mm
<b>Length</b>	3 m
<b>Propellant type</b>	Composite propellant

## 2<sup>ND</sup> STAGE ROCKET MOTOR

<b>Diameter</b>	370 mm
<b>Length</b>	3.5 m
<b>Propellant type</b>	Composite propellant

