





# Mission OVERVIEW

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Mission Sucess Complete 19 June 2024	Mission Sucess Complete 20 Sept 2024	Launching November 2024	Launching Soon	Launching Soon
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# LAUNCH SITE OVERVIEW

Rocket Lab Launch Complex-1  
Mahia, New Zealand



An FAA-licensed spaceport, Launch Complex 1 can provide up to 120 launch opportunities every year. From the site it is possible to reach orbital inclinations from sun-synchronous through to 30 degrees, enabling a wide spectrum of inclinations to service the majority of the satellite industry's missions to low Earth orbit.

Located within Launch Complex 1 are Rocket Lab's private range control facilities, two 100K satellite cleanrooms, a launch vehicle assembly facility which can process

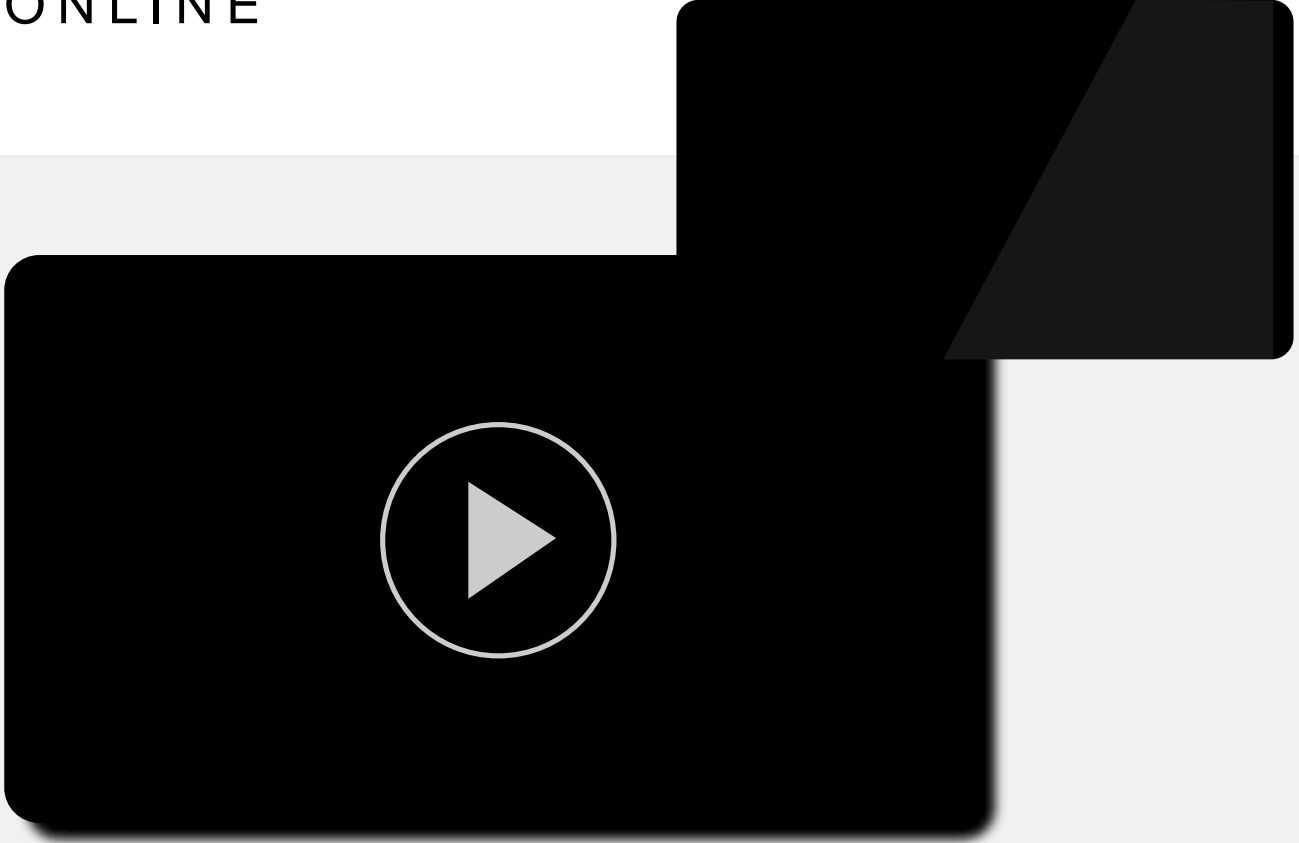
Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

In addition to Launch Complex 1, Rocket Lab operates an additional launch site, Launch Complex 2, at the Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility on Virginia's Eastern Shore. Launch Complex 2 can support up to 12 missions per year.

By operating two launch complexes in two hemispheres,

'Ice AIS Baby' Payload Integration  
Launch Complex 1, Mahia, New Zealand

# Viewing A LAUNCH ONLINE



## Live stream

The live stream is viewable at:

[https://www.youtube.com/watch?v=...](#)

## Launch footage & images

Images and footage of "Ice AIS Baby" launch will be available shortly after a successful mission at:

[https://www.nasa.gov/iceaisbaby/](#)

## Updates

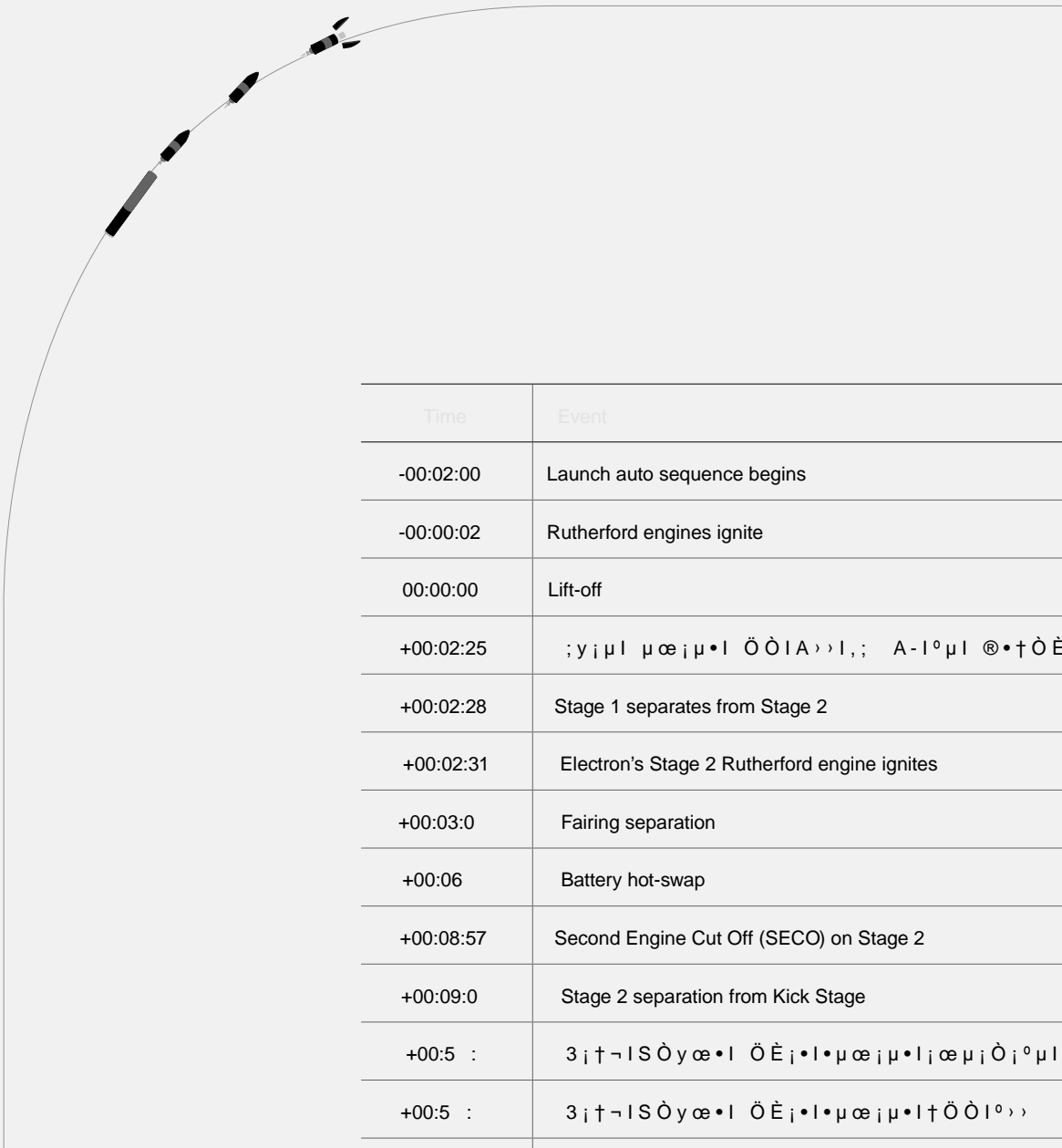
For information on launch day visit:

[https://www.nasa.gov/iceaisbaby/updates/](#)

## Follow Rocket Lab:

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Time	Event
-00:02:00	Launch auto sequence begins
-00:00:02	Rutherford engines ignite
00:00:00	Lift-off
+00:02:25	Stage 1 separates from Stage 2
+00:02:28	Stage 1 separates from Stage 2
+00:02:31	Electron's Stage 2 Rutherford engine ignites
+00:03:00	Fairing separation
+00:06	Battery hot-swap
+00:08:57	Second Engine Cut Off (SECO) on Stage 2
+00:09:00	Stage 2 separation from Kick Stage
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# Electron Launch Vehicle

## Overall

### LENGTH

18m

### DIAMETER (MAX)

1.2m

### STAGES

2 + Kick Stage

### VEHICLE MASS (LIFT-OFF)

13,000kg

### MATERIAL/STRUCTURE

Carbon Fiber Composite/Monocoque

### PROPELLANT

LOX/Kerosene

## Payload

### NOMINAL PAYLOAD

320kg / 440lbm To 500km

### FAIRING DIAMETER

1.2m

### FAIRING HEIGHT

2.5m

### FAIRING SEP SYSTEM

Pneumatic Unlocking, Springs

## Stage 2

### PROPULSION

1x Rutherford Vacuum Engine

### THRUST

5800 LBF Vacuum

### ISP

343 Sec

## Interstage

### SEPARATION SYSTEM

Pneumatic Pusher

## Stage 1

### PROPULSION

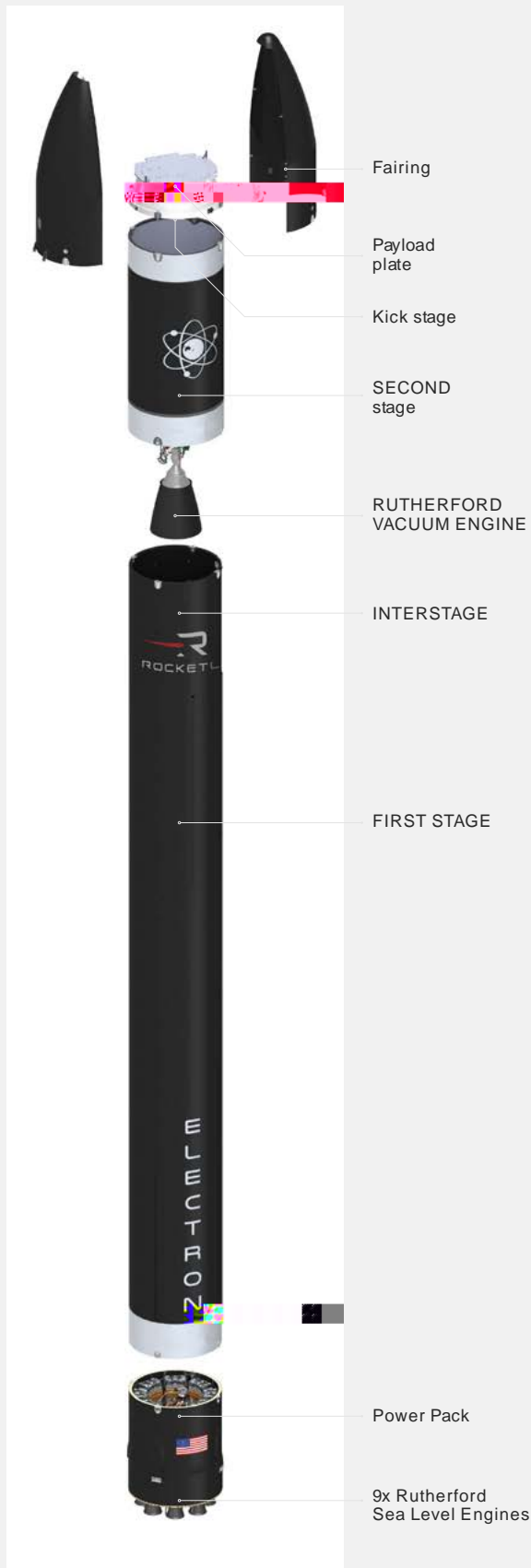
9x Rutherford Sea Level Engines

### THRUST

5600 LBF Sea Level (Per Engine)

### ISP

311 Sec



# MISSION PATCH ANATOMY

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