



Mission „Onward and Upward“

● PRESS KIT

○ INTRODUCTION

ABOUT ISAR AEROSPACE

The European space company [Isar Aerospace](#) offers [launch services](#) for transporting small and medium-sized satellites and satellite constellations into Earth orbit. The launch vehicles used to transport these satellites are [developed, manufactured, and tested in-house](#). Headquartered near Munich, Germany, Isar Aerospace was founded in 2018 and has grown to over 400 employees from more than 50 nations, working across [5 international locations](#). Private funding from international investors provides strong backing for the company's pioneering approach to [scale and industrialize launch vehicle production](#) through vertical integration. More information: www.isaraerospace.com



ONWARD AND UPWARD

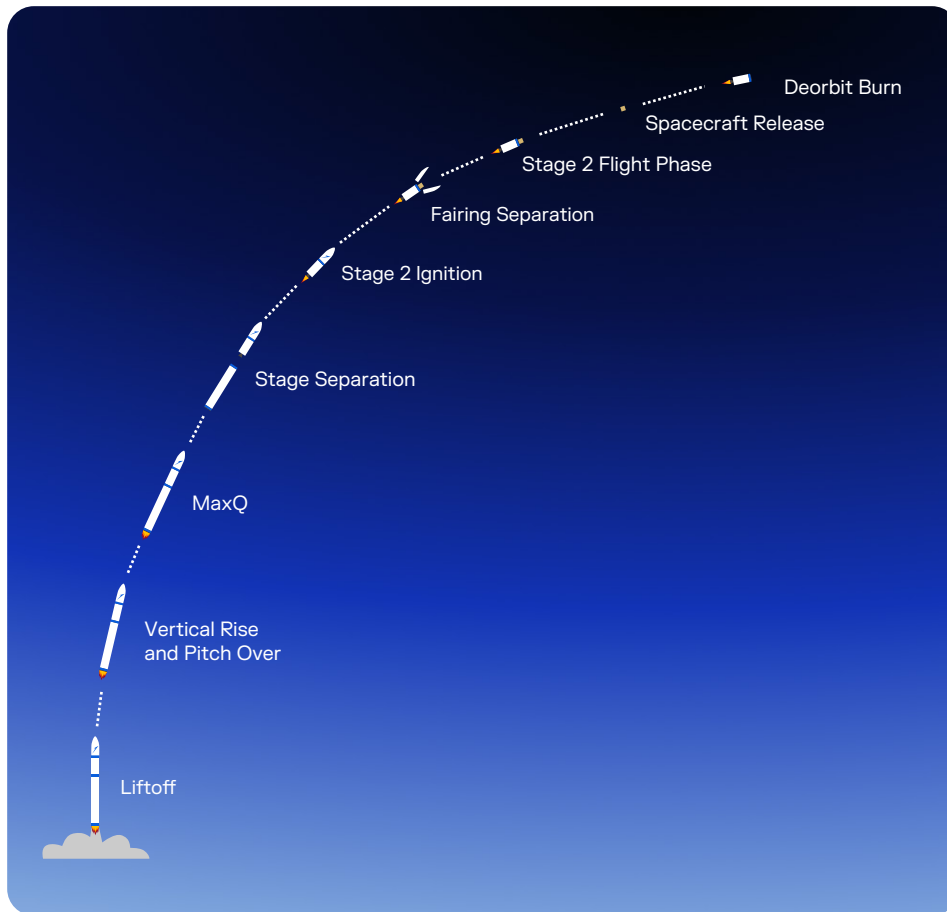
The second flight of our 'Spectrum' launch vehicle marks a significant milestone serving as both the vehicle's qualification mission and its first flight carrying payloads.

"Onward and Upward" symbolizes our relentless drive for progress and continuous improvement, reflecting our determination to build upon the successes and lessons learned from our inaugural test flight.



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MISSION DETAILS



This graphic is an outline of the ideal flight phases during the second flight of 'Spectrum'

Mission “Onward and Upward” will be the first mission to launch payloads, with five CubeSats and one experiment. Mission “Onward and Upward” is supported by ESA’s Boost! Program. Through Boost! Isar Aerospace won the first Microlauncher Competition of the German Space Agency at DLR, which resulted in the selection of the payloads we are carrying on board of this flight.

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PAYLOAD
CubeSat | CyBEEsat

TU Berlin

PAYLOAD
CubeSat | TriSat-S

TU Berlin

PAYLOAD
CubeSat | Platform 6

EnduroSat

PAYLOAD
CubeSat | FramSat-1

NTNU

PAYLOAD
CubeSat | SpaceTeamSat1

TU Wien
Space Team

PAYLOAD
Experiment | Let It Go

Dcubed

● OUR LAUNCH VEHICLE: 'SPECTRUM'

Discover 'Spectrum' – the most state-of-the-art launch vehicle that is making space access scalable

OVERALL

28m

Length

2m

Diameter

Carbon
Composites

Material

Liquid oxygen &
liquid propane

Clean burning propellants

PAYLOAD CAPABILITY

1,000kg

In Lower Earth Orbit (LEO)

700kg

In Sun Synchronous Orbit (SSO)

STAGE 2

1x Aquila
Vacuum Engine

Propulsion

95kN

Thrust

STAGE 1

9x Aquila
Engines

Propulsion

75kN each

Thrust



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○ LAUNCH SITE

Mission ‘Onward and Upward’ will launch from Isar Aerospace’s launch complex at the Andøya Space launch site located in Andøya, Norway. Officially opened by the end of 2023, Andøya Space is the first operational orbital spaceport in continental Europe.



Isar Aerospace launch complex at Andøya Space | © ISAR AEROSPACE

Built to Isar Aerospace’s specifications, we have exclusive access to the first launch complex at Andøya Space for orbital launches.



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Mission „Onward and Upward“

○ STAY UP TO DATE

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Get more insights on Mission “Onward and Upward” and Isar Aerospace’s journey to orbit.

[Mission Page](#)

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CONTACT US

www.isaraerospace.com

press@isaraerospace.com