

isar aerospace 



# First Test Flight - Press Kit Mission „Going Full Spectrum“

● MARCH 2025

# ⚡ First Test Flight - Press Kit Mission „Going Full Spectrum“

## ○ INTRODUCTION

### ABOUT ISAR AEROSPACE

The European space company Isar Aerospace develops, builds and operates launch vehicles for transporting small and medium-sized satellites as well as satellite constellations into Earth's orbit, with the mission of opening space for future generations. 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. More than EUR 400m in total funding from international investors provides strong backing for the company's pioneering approach to scale and industrialize launch vehicle production through vertical integration. Isar Aerospace's two-stage orbital launch vehicle 'Spectrum' is specifically designed for satellite constellation deployment, enabling access to one of the most critical technological platforms: space. More information: [www.isaraerospace.com](http://www.isaraerospace.com)



### OUR FIRST TEST FLIGHT: “GOING FULL SPECTRUM”



In the last 7 years Isar Aerospace has designed, developed and built its very own launch vehicle 'Spectrum' from scratch. With almost the entire value creation in-house, we have built the teams, machines, production, processes, infrastructure and test stands behind it. Based on a vertical integration and a highly automated serial production, we are able to manufacture launch vehicles at a fraction of the cost, at which they are currently produced in Europe. **Owning the entire value chain of the launch vehicle production gives us maximum flexibility and independence.**

The first test flight of Isar Aerospace's launch vehicle 'Spectrum' is the first integrated test of all systems and tens of thousands of components. And that is how we approach it: as a test. **No matter how far we will get with our first test flight, we will generate valuable data and experience, learn, iterate, and improve for future missions.** Launch vehicles 2 and 3 are already in production for the next flights.



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## OUR LAUNCH VEHICLE: SPECTRUM

Discover the most state-of-the-art two-stage launch vehicle in Europe.

### 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

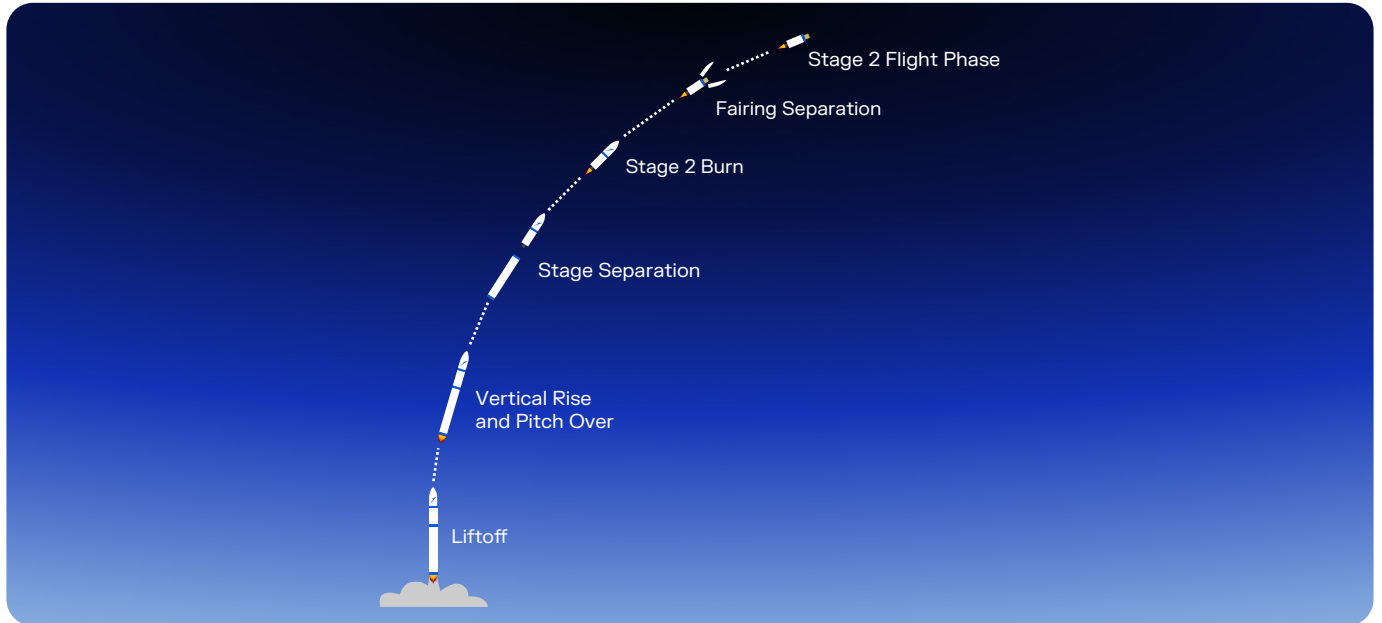
Thrust



# First Test Flight - Press Kit

## Mission „Going Full Spectrum“

### ○ OUTLINE FLIGHT PHASES



This graphic is an outline of the ideal flight phases during the first test flight.

### LAUNCH PERIOD

The launch period for Spectrum's first test flight is set to begin March 20, 2025.

### LAUNCH DAY

During launch day, a countdown of carefully timed processes and steps needs to be completed before the final 'go' for lift-off can be granted. Only when and if each part of the countdown is completed successfully, our team will move on to the next step and eventually get ready for lift-off.

Follow updates on the launch period in our [Newsroom](#).





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## ○ LAUNCH SITE

‘Spectrum’ will launch from Isar Aerospace’s launch complex at the Andøya Spaceport launch site located in Norway. Officially opened by the end of 2023, Andøya Spaceport is the first operational spaceport in continental Europe.



© ISAR AEROSPACE LAUNCH PAD AT ANDØYA SPACEPORT | Location: Andøya

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

Related Information: [Andøya Spaceport Website](#) | [Press Release Opening of Andøya Spaceport](#)

Assembly and Integration ○

Propane Tank ○

Nitrogen Tanks ○

Propane Pipes ○

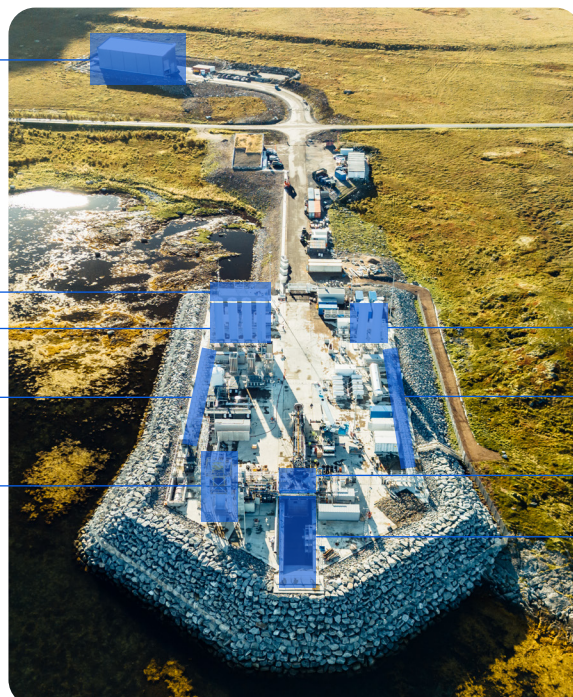
Test Stool  
Second Stage ○

Liquid Oxygen Tanks ○

Liquid Oxygen Pipes ○

Spectrum Launch Table  
Hold Down Release Mechanism ○

Flame Trench ○



© ISAR AEROSPACE LAUNCH PAD OVERVIEW | Location: Andøya Spaceport



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○ [STAY UP TO DATE](#)

## YOUR RESOURCES

### [FIRST TEST FLIGHT NEWSROOM](#)

Central place for all Updates, Information, Statements, Images and Videos etc.

### [MISSION PAGE](#)

Get more insights on Mission 'Going Full Spectrum' and Isar Aerospace's journey.

Sign up to our distribution list for press releases:

Send an email to [press@isaraerospace.com](mailto:press@isaraerospace.com) and we will add you to our distribution list.

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