



Isar Aerospace's Historic European Commercial Rocket Launch

Description

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A rocket test flight in Norway by German-based Isar Aerospace could make history and give Europe more independence in orbital launches.

Who is launching the rocket?

The company behind the new rocket, named Spectrum, is Isar Aerospace. The rocket is 28 meters tall, has two stages, and uses oxygen and propane as propellant. The upcoming test flight aims to gather valuable data and experience.

Launch Details

The launch will occur at Andøya Space Center in Norway, approved by the Norwegian Civil Aviation Authority, scheduled for 24th March. This launch, if successful, would mark the first continental European orbital launch, excluding Russia.

Other European Launch Companies

Europe is home to established companies like Arianespace, yet emerging companies like Zero 2 Infinity, Rocket Factory Augsburg, and HyImpulse are entering the market.

Why Europe Needs Its Own Launchers

Having European launch providers could simplify the process of building and launching satellites within Europe, offering cost-effective solutions and reducing reliance on US providers.

Launching from Norway

Despite not being near the equator like French Guiana, Andøya Space Center can launch satellites into specific orbits, providing a suitable location for Isar Aerospace's plans.

Success of Isar Aerospace

Experts suggest Isar Aerospace's approach mirrors SpaceX's innovative testing strategies, potentially leading to groundbreaking achievements in the space industry.

Vocabulary List:

1. **Propellant** /prəˈpɛlənt/ (noun): A substance that provides thrust to propel a vehicle or projectile.
2. **Aerospace** /ˈɛəroʊˌspeɪs/ (noun): The branch of technology and industry concerned with aviation and space flight.
3. **Independent** /ˌɪndɪˈpɛndənt/ (adjective): Not relying on others; self-sufficient or autonomous.



4. **Orbital** /'ɔ:rbɪtəl/ (adjective): Relating to an orbit or orbits.
5. **Simplify** /'sɪmplɪfaɪ/ (verb): To make something easier to understand or do.
6. **Innovative** /'ɪnəˌveɪtɪv/ (adjective): Introducing new ideas; original and creative in thinking.

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What term is used to describe the sudden increase in cases of a disease in a specific area?
Option: Cure
Option: Outbreak
Option: Epidemic
Option: Vaccination
2. Which field involves the study of the brain-machine interface?
Option: Sociology
Option: Neurotechnology
Option: Agriculture
Option: Meteorology
3. What term means to accept standards that are lower than desirable?
Option: Standstill
Option: Compromise
Option: Achieve
Option: Defend
4. Which term describes something innovative and pioneering?
Option: Basic
Option: Traditional
Option: Groundbreaking
Option: Obsolete
5. What process is used to convert data into a code to prevent unauthorized access?
Option: Decryption
Option: Finalization
Option: Encryption
Option: Validation
6. Which industry is involved in the research design and manufacture of aircraft and spacecraft?
Option: Automotive
Option: Medical



- Option: Aerospace
- Option: Construction

7. Which term refers to a condition that is very serious or extreme?

- Option: Mild
- Option: Severe
- Option: Moderate
- Option: Normal

8. What is the abbreviation for Artificial Intelligence?

- Option: ML
- Option: CI
- Option: AI
- Option: DI

9. When a threat or danger is completely removed it is said to be:

- Option: Mitigated
- Option: Avoided
- Option: Contained
- Option: Eliminated

10. What term refers to a point where two systems subjects organizations etc. meet and interact?

- Option: Closure
- Option: Interface
- Option: Division
- Option: Expansion

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. After the crime was reported the police launched an _____ to gather evidence.
12. The new software program seems _____ to use without proper training.
13. The expansion of the business opens up new _____ for growth and development.
14. The hacker used a hidden _____ to gain unauthorized access to the company's database.
15. The country celebrated its _____ day with parades and fireworks.



16. The parents were _____ about their child's sudden drop in grades.
17. The flowers on display were so perfect they looked _____ but they were actually made of silk.
18. The project faced numerous _____ that required careful planning and coordination.
19. The patient's condition deteriorated and doctors had to take immediate action to prevent _____ complications.
20. The company _____ the employees for working overtime by giving them extra benefits.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The process of administering a vaccine to protect against a disease.
22. Lacking experience or understanding often resulting in poor judgment or decision-making.
23. The act of making something easier to understand or do.
24. Introducing new ideas or methods that are creative and original.
25. The monitoring of behavior activities or information for the purpose of gathering intelligence or preventing crime.
26. Incapable of producing any useful result; pointless.
27. The possible effects or consequences of an action decision or event.
28. The range of different people or things; variety.
29. A substance that drives or impels an object forward.
30. Relating to or situated in outer space especially in orbit around a celestial body.



Answer

Multiple Choice: 1. Outbreak 2. Neurotechnology 3. Compromise 4. Groundbreaking 5. Encryption 6. Aerospace 7. Severe 8. AI 9. Eliminated 10. Interface

Gap-Fill: 11. Investigation 12. Complicated 13. Possibilities 14. Backdoor 15. Independence 16. Concerned 17. Artificial 18. Complexities 19. Severe 20. Compensated

Matching sentence: 1. Vaccination 2. Naive 3. Simplify 4. Innovative 5. Surveillance 6. Futile 7. Implications 8. Diversity 9. Propellant 10. Orbital

CATEGORY

1. Sci/Tech - LEVEL3

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