

NEWSPACE MARKET · COMPANY PROFILE



ATMOS Space Cargo

Germany · founded 2022 · atmos-space-cargo.com

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as of 20 August 2026



ATMOS Space Cargo

ATMOS Space Cargo GmbH is a German company founded in 2022, developing reentry capsules and orbital logistics services for the commercial space market. The company operates from offices in Lichtenau, Germany, and Strasbourg, France, and is funded by the European Innovation Council (EIC) and investors including Seraphim, Hightech Gründerfonds, Amadeus Capital Partners, OTB Ventures, E2MC, and others. ATMOS's core product is the PHOENIX reentry capsule family, which uses a proprietary Inflatable Atmospheric Decelerator (IAD) — a heat shield that is also an aerodynamic braking device — instead of traditional ablative heat shields. The IAD approach reduces mass and environmental impact while improving payload-to-mass efficiency. PHOENIX capsules are free-flying spacecraft with integrated propulsion, power, thermal management, and telemetry, capable of multi-week orbital missions before autonomous deorbit and recovery. ATMOS offers an end-to-end orbital logistics service: payload integration, launch integration on commercial rockets (SpaceX Falcon 9 rideshare), orbital operations and mission control, and controlled reentry with recovery near Santa Maria in the Azores, Portugal. The company has partnered with Space Cargo Unlimited for a seven-flight joint program, integrating the BentoBox microgravity platform inside PHOENIX 2 capsules to establish Europe's first fully commercial station-independent two-way orbital logistics service. PHOENIX 2 is scheduled to launch on SpaceX Falcon 9 in 2026. ATMOS raised a €25.7 million Series A in 2026 to build out European orbital return infrastructure. The company is ESA-partnered and supports the IAU, HyPrSpace, and other European space ecosystem partners.

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SERVICES

Services

Controlled Re-Entry & Recovery ATMOS offers controlled re-entry and rapid recovery of payloads, including transport to and from customer-selected general aviation airports.	Data Downlink & Monitoring ATMOS provides data downlink and monitoring services for in-orbit operations, ensuring continuous communication and oversight.
End-to-End Mission Operations ATMOS provides comprehensive mission operations from contract definition to payload recovery, enabling routine access to LEO and autonomous orbital missions.	Logistics & Launcher Integration ATMOS handles the logistics and integration of customer payloads with launch vehicles.
Payload Integration & Qualification (AIT) ATMOS performs Assembly, Integration, and Testing (AIT) for payloads, ensuring they meet mission requirements before launch.	

Product catalogue



ATMOS SPACE CARGO

PHOENIX 2

PHOENIX 2 is a reusable Orbital Transfer and Return Vehicle (OTRV) that enables autonomous cargo operations in Low Earth Orbit with controlled precision re-entry and rapid payload

Payload Capacity	100 kg
Flight Duration	3 hours to 12 months (selectable)
Payload Compartment Pressure	1 atm (pressurized)
Payload Temperature Range	4–40°C
Microgravity Level	< 10 ⁻⁵ g
Power (Mean)	50 W
Power (Peak)	100 W

price on request



ATMOS SPACE CARGO

PHOENIX Reentry Capsule

Free-flying orbital spacecraft with Inflatable Atmospheric Decelerator (IAD) reentry technology, offering commercial two-way LEO orbital logistics for microgravity research, manufa

Vehicle type	Free-flying spacecraft + IAD reentry capsule
Reentry technology	Inflatable Atmospheric Decelerator (IAD) – heat shield and aerodynamic brake
Operations	Fully autonomous, station-independent free flyer
Mission duration	Multi-week orbital missions
Launch vehicle	SpaceX Falcon 9 (rideshare)
Recovery location	Near Santa Maria, Azores, Portugal
Applications	Microgravity research and manufacturing, pharmaceutical, government hypersonic testing

price on request

Contact ATMOS Space Cargo

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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