

NEWSPACE MARKET · COMPANY PROFILE



Spartan Space

France · founded 2021 · spartan-space.com

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as of 20 August 2026

Spartan Space

Spartan Space is a French deep-tech startup developing smart habitats and life support systems for human exploration in extreme environments — space, stratosphere, and deep ocean. Founded in 2021, the company is headquartered in Marseille, France, with offices in Munich, Germany and Miami, USA. The team is composed of senior space and underwater engineers, former astronauts, and architects. Spartan Space focuses on modular habitat design enabling long-duration human presence in low gravity environments including lunar surface, orbital stations, and subsea installations. Key programmes include EUROHAB — a lunar surface habitat concept developed in collaboration with ESA — and EUROSUIT, an exploration suit for planetary surface operations. The company also develops LISE, a lightweight interactive space airlock, and CANDELABRA, a deployable lighting system for habitat exteriors.

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SERVICES

Services

Deep Space Habitat Ground Simulator Study

Spartan Space leads a consortium to study the paradigm shift in human exploration missions for a Mars transit habitat, identifying knowledge gaps and defining simulation needs.

Feasibility Study and Development of a Modular Airlock

CNES contracted Spartan Space for a feasibility study and development of a modular airlock for the 'LISE' secondary habitat, adaptable to other missions.

Human-in-the-Loop Model Development for Ergonomic Trials and Astronaut Training

Spartan Space develops full-scale human-in-the-loop models for ergonomic trials and astronaut training for modules like I-HAB on GATEWAY.

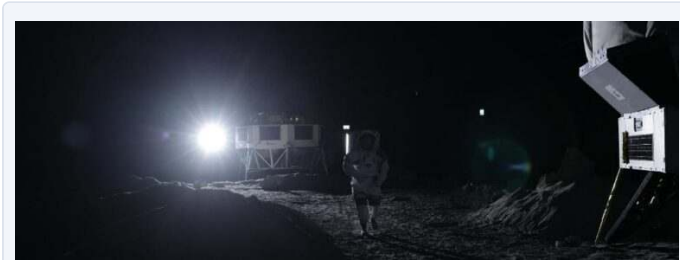
Lunar Agriculture Module – Ground Test Demonstrator (LAM-GTD) Development

Spartan Space designs and develops full-scale modules for ground-based testing of advanced life support systems and space agriculture technologies for DLR.

Space Mission Simulation and Analogue Platform Qualification

Spartan Space conducts and qualifies analogue platforms for space mission simulations, testing systems in extreme environments like high altitude.

Product catalogue



SPARTAN SPACE
CANDELABRA

Precision artificial sun simulator for the ESA-DLR LUNA Analog Facility in Cologne, replicating the grazing-angle, high-contrast lighting conditions of the lunar south pole over a

System type	Artificial sun simulator / precision lighting array
Simulated environment	Lunar south pole lighting conditions
Coverage area	30 × 20 m
Lighting characteristics	Grazing incidence angles, tunable intensity, deep polar shadow patterns
Control system	Advanced programmable, tunable illumination
Installation facility	ESA-DLR LUNA Analog Facility, EAC, Cologne, Germany
Customer	German Aerospace Center (DLR)

price on request [datasheet](#)



SPARTAN SPACE
EUROHAB

Inflatable, deployable lunar surface habitat delivered as payload by a robotic lander, serving as an outpost, emergency refuge, and autonomous science station for extended lunar ex

Architecture	Inflatable, deployable
Delivery mode	Payload of robotic lander (unpressurised transit)
Target deployment site	Lunar south pole (PSR craters, Peaks of Eternal Light)
Compatible landers	ESA Argonaut (EL3), The Exploration Company NYX
Mass constraint	≤1500 kg
Original prototype diameter	7 m
Exploration range with pressurised rover	12 km from HLS

price on request [datasheet](#)



SPARTAN SPACE
EUROSUIT

Europe's first IVA space suit prototype designed for launch and landing protection aboard crewed spacecraft, featuring autonomous donning/doffing in under two minutes — a world fir

Suit type	Intra-Vehicular Activity (IVA)
Application	Launch, landing, and emergency phases inside crewed spacecraft
Don/doff time	<2 minutes (autonomous, unassisted)
Helmet design	Lattice-structured, 3D-printed, custom-fit to astronaut morphology
Mobility features	Bellows at shoulders, elbows, and knees
Closure system	Air-tight zippers with ergonomic pullers
Length adjustment	Compensates microgravity body elongation

price on request [datasheet](#)



SPARTAN SPACE
LISE Airlock

Deployable lunar surface airlock with hybrid rigid-inflatable architecture for the LISE habitat, enabling safe EVA crew ingress/egress with integrated dust mitigation, thermal cont

Architecture	Hybrid rigid + deployable (inflatable) structure
Application	EVA crew ingress/egress at lunar surface
Host habitat	LISE (Lunar Integrated Shelter for Exploration) atop a robotic lander
Dust mitigation	Validated strategies integrated into design
Crew rescue capability	Dedicated lifting system for incapacitated crew recovery
Thermal analysis partner	Airbus Defence and Space (full lunar day/night range)
Test facility	DLR-ESA LUNA Analog Facility, Cologne (full-scale prototype)

price on request [datasheet](#)

Contact Spartan Space

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