

HPS

High Performance Space
Structure Systems GmbH

The Team to Trust

HPS High Performance Space Structure Systems

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as of 20 August
2026

HPS High Performance Space Structure Systems

HPS (High Performance Space Structure Systems) designs and manufactures mechanical/thermal space subsystems. Its product lines include Reflector Antennas, Large Deployable Reflector Subsystems (LEA), De-Orbit Subsystems (ADEO), Multilayer Insulation (MLI), Lightweight Structures, Radiators, Smart Structures, Mechanical Ground Support Equipment (MGSE), Electronic Housing, Mechanical & Thermal Interface Elements, Launcher and Re-entry Technology, and Nanosatellite Equipment such as Deployable Deorbit Sails and Deployable UHF-Helix Antennas (UDAN). The company also offers services in Project Management, Engineering & Development, Material Characterisation, and Manufacturing, Assembly, Integration, Test (MAIT). HPS operates as a specialist for subsystems within the space industry, positioned between product suppliers and system leaders. It is headquartered in Munich and Bucharest. The company maintains an HPS Launch Log, indicating flight heritage. HPS is described as an SME, independently and entrepreneurially managed, with strong growth and an international setup.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Engineering & Development

HPS offers comprehensive engineering services from study-level to flight hardware, covering mechanical, thermal, antenna, and systems engineering.

Manufacturing, Assembly, Integration, Test (MAIT)

HPS provides MAIT services, including manufacturing, assembly, on-site integration support, and product testing with partner test houses.

Material Characterisation

HPS offers material characterization services for space applications, including test plan definition, institute selection, and evaluation of test results.

Project management

HPS offers project management services for technology or product developments, including quality assurance, subcontractor management, and technical workshops.

Trainings and Technology Transfer

HPS offers trainings and technology transfer in reflector antennas and CFRP.

Product catalogue



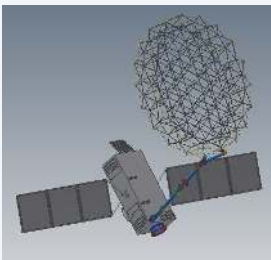
HPS HIGH PERFORMANCE SPACE STRUCTURE SYSTEMS

ADEO Deployable Deorbit Sails

Passive, propellant-free drag-augmentation sail deorbiting satellites from 1kg to 1,500kg — 5-variant scalable family, flight-proven with ION-SVC-003 deployment.

ADEO-Pico	1-20 kg satellites, 0.45 kg module, 10x10x3.9 cm stowed, 1.7 m² sail
ADEO-Cube	5-50 kg satellites, 0.8 kg module, 9.5x9.5x7.2 cm stowed, 3.4 m² sail
ADEO-N (Nano)	20-250 kg satellites, 0.8 kg module, 10x10x10 cm stowed, 5.0 m² sail
ADEO-M (Medium)	100-700 kg satellites, 4.5 kg module, Ø29x13.4 cm, 15 m² sail, electrical motor deployment
ADEO-L (Large)	500-1,500 kg satellites, 9.5 kg module, 40.6x40.6x26 cm stowed, 25 m² sail, release-nut ac
Flight heritage	ION-SVC-003 deployment (Dec 2022)

price on request



HPS HIGH PERFORMANCE SPACE STRUCTURE SYSTEMS

LEA Large Deployable Reflector Subsystems

HPS, as LDRS-Prime, leads a European consortium (WeLEA, with LSS, Beyond Gravity Germany, and von Hoerner & Sulger) delivering complete large deployable reflector antenna subsy

Consortium role	LDRS-Prime (WeLEA consortium)
Subsystem scope	Reflector, boom, hinges, hold-down/release, thermal hardware, deployment electronics
Applications	HYDROTERRA, CIMR/ROSE-L missions

price on request



HPS HIGH PERFORMANCE SPACE STRUCTURE SYSTEMS

UDAN Deployable UHF-Helix Antenna

Compact deployable UHF antenna delivering 10-dBi-class gain for CubeSats — stows in 1U, deploys to 50cm height, ESA/DLR-backed development.

Stowed size	1U cube, <0.3 kg (antenna only)
Frequency	Scalable 300 MHz-1 GHz (baseline 400-460 MHz)
Peak gain	>10 dBi
Lifetime	5 years
Deployed size	50 cm height x 90 cm diameter
Development backing	ESA ARTES programme, DLR

price on request

Contact HPS High Performance Space Structure Systems

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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