

NEWSPACE MARKET · COMPANY PROFILE



Space Structures GmbH

Germany · founded 2011 · spacestructures.com

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PRODUCTS

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SERVICES

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as of 20 August 2026



Space Structures GmbH

Space Structures GmbH was founded in 2011 in Bremen, Germany, by two university friends, Florian Ruess and Dr. Benjamin Braun. The company began as a small engineering consulting firm and relocated to Berlin in 2014, where it remains headquartered today. The company achieved its first project actually flown in orbit in 2016 (ExoMars 2016 Trace Gas Orbiter), and its heritage now spans more than 200 missions and over 500 completed projects for more than 100 customers. Notable milestones include becoming a prime contractor for the ESA Lunar Gateway I-HAB module's internal secondary structures, delivering the first project to GEO in 2017 (Hispasat 36W-1 on the SmallGEO platform), and, since 2022, supplying its family of launch vehicle adapters for rideshare missions. Space Structures specializes in mechanical subsystems for space applications: structural engineering, finite element analysis, thermal analysis, CAD design, fracture control, vibro-acoustic analysis, and structural optimization. It supports customers from initial concept through to manufactured, tested, and delivered hardware, working with primes, subcontractors, spacecraft operators, and launch service providers alike. The company's facility is certified to AS9100 and ISO 9001, and all products are manufactured in Europe. Space Structures serves institutional, corporate, SME, and New Space clients, and counts Airbus DS, Thales, BST, and IAI among its clients and partners.

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SERVICES

Services

Design, Manufacturing and Verification Testing (Build-to-Spec)

Space Structures GmbH offers turnkey solutions for high-performance space structures, handling design, manufacturing, and verification testing for Build-to-Spec projects.

Development of Complete Structure Subsystem

In cooperation with partners, Space Structures GmbH develops complete structure subsystems for various space applications.

Mechanical Aspects Project Responsibility (System Level)

Space Structures GmbH takes responsibility for all mechanical aspects of a project at the system level.

Sizing and Engineering Work for Primary Structures and Instruments

Space Structures GmbH provides sizing for primary structures and engineering support for various instruments within space projects.

Structural Subsystem Analysis and Verification

The company performs complete structural subsystem analysis and verification, often as part of a consortium for complex missions.

Product catalogue



SPACE STRUCTURES GMBH

Honeycomb Sandwich Panels

Custom honeycomb sandwich panels in aluminium, GFRP and CFRP face-skin/core combinations for satellite and launcher structures.

Facesheet/core combinations	Aluminium/aluminium, GFRP/aluminium, CFRP/aluminium, CFRP/CFRP; NOMEX cores optional
Insert materials	Aluminium, titanium, INVAR, CFRP
Insert types	Floating, face-to-face, edge, block
Surface options	Anodising, surtec coating, black/white thermal paint, mirrors, surface-mounted or embedded
Applications	High-performance satellite and launcher structures, optical benches, sunshields

price on request



SPACE STRUCTURES GMBH

Precision Assemblies

High-performance satellite and launcher structures, optical payload structures, and electronic equipment structures built to spec in-house.

In-house processes	Bolting, riveting, bonding, alignment, measurement
Satellite/launcher structures	Primary/secondary structures, integrated radiator functionalities, launch vehicle adapters
Manned space applications	ISS, Orion, Lunar Gateway – fracture control and human- factors design
Optical payload structures	Telescope structures, optical benches, bipods/hexapods, straylight baffles
Electronic equipment structures	Power supply/control/distribution units, data handling/processing units

price on request

SPACE STRUCTURES GMBH

SpaceBolt

Software for verifying thousands of bolted joints under space environments, ESA-evaluated.

Evaluation	Positively evaluated by ESA in a 6-month process
Data import	NASTRAN .PCH files, plain CSV, statics/sine/random loads
Processing	Thousands of load cases processed in seconds
Output	Report-ready HTML output; NASGRO-format output for fracture analysis
Database	Bolts, nuts, inserts, material and friction coefficients (public and custom user data)

price on request



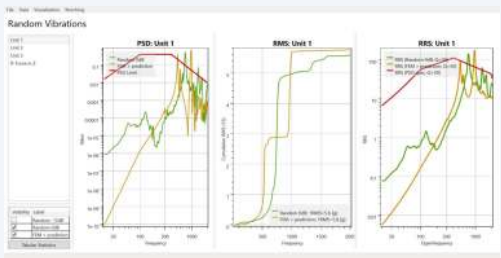
SPACE STRUCTURES GMBH

SpaceStrut Struts and Booms

Family of lightweight, high-stiffness structural parts including struts, booms, rods, bars and beams with low thermal expansion.

Hybrid Strut construction	Composite tube (filament winding, thermoplastic, or prepreg) with metallic fittings (alumi
Full CFRP Strut construction	Integral single CFRP piece with continuous fibres including fittings
DoubleZero variant	Zero coefficient of thermal expansion and zero moisture expansion
Applications	Spacecraft primary structures, launcher structures, telescope structures, bipods/hexapods,

price on request



SPACE STRUCTURES GMBH

SpaceVibe

Vibration test data processing and visualization tool for faster, safer spacecraft vibration testing.

Supported file formats	Nastran punch (PCH), universal 58 (UNV), CSV
Standards	ECSS-E-HB-32-26, NASA-HDBK- 7004
Comparison levels	QSL, sine, PSD, RRS
Performance	Parses hundreds of channels in seconds

price on request

Contact Space Structures GmbH

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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