

NEWSPACE MARKET · COMPANY PROFILE



SpaceTech GmbH

Germany · founded 2004 · spacetechnology.com

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newspacemarket.com/companies/spacetechnology-gmbh-sti/

as of 20 August 2026



SpaceTech GmbH

SpaceTech GmbH (STI) is an independent German medium-sized space company founded in 2004 by Bernhard Doll and Jost Munder, headquartered in Immenstaad on Lake Constance in southern Germany. Starting from just two founders, the company has grown into an internationally recognised supplier of space equipment, with more than 1,500 STI instruments and units currently operating in orbit. STI's business rests on four pillars: solar arrays (including multi-hinge deployable solar array wings, deployment mechanisms and in-house photovoltaic assembly production), optical/laser instruments (high-stability lasers, laser ranging interferometers and frequency reference units for Earth observation and fundamental science), satellite electronics (laser head electronics, digital and data handling units, actuator drive units) and structures/mechanisms and sensors (including the Coarse Earth and Sun Sensor, CESS). The company has contributed hardware and subsystems to numerous institutional and commercial missions, including FormoSat-5, KompSat-3, GökTürk-2, GRACE Follow-On, MERLIN, JUICE (RIME antenna), Sentinel-5 (UVNS Calibration Subsystem), EUCLID, PLATO, and large-scale solar array production for the Airbus OneWeb Satellites mega-constellation (1,800 solar array deployment mechanisms). SpaceTech's customers include ESA, DLR, Airbus, CNES and other space agencies and commercial space companies worldwide. SpaceTech is ISO 9001 and ISO 14001 certified and operates its own clean rooms, test facilities (thermal-vacuum and shaker) and CNC manufacturing at its Immenstaad headquarters, along with its subsidiary CarboSpaceTech for CFRP composite structures.

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

Consultancy Contracts

SpaceTech offers consultancy services for international and technically challenging projects, leveraging its high-level qualification, experience, and cross-cultural background.

Engineering and Analysis Services

SpaceTech offers comprehensive engineering and analysis services, including project management, system/subsystem engineering, procurement, mechanical, electrical, software, and AOCS engineering, as we

Seminars and Training Courses

SpaceTech provides seminars and training courses across various subjects to help customers achieve their goals in both industrial and practical research settings.

Space Simulation Testing

SpaceTech offers high-level testing services to simulate the harsh space environment, including thermal-vacuum cycling, thermal-balance tests, and bakeouts, to ensure spacecraft robustness.

Structural Dynamics, Acoustic and Thermal Analysis

SpaceTech offers interdisciplinary services for structural dynamics, acoustic, and thermal analysis, implementing tests for challenging tasks in structural mechanics.

Product catalogue



SPACETECH GMBH

SpaceTech CESS (Coarse Earth Sun Sensor)

Passive thermo-optical Coarse Earth and Sun Sensor providing spacecraft attitude information during de-spin and safe mode.

Sensor principle	Passive thermo-optical Coarse Earth and Sun Sensor
Power consumption	Zero power consumption
Configuration	6 orthogonally accommodated CESS heads to determine relative earth and sun vector
Standard hardware deliverable	6 flight model + 2 spare CESS heads incl. protective caps
Software deliverable	Flight S/W algorithm
Options	Customer specific acceptance testing; mission specific mechanical interfaces; AIT support;
Flight heritage	CHAMP, GRACE-F0, TerraSAR-X, TanDEM-X, Paz, CryoSat, SWARM, Sentinel-6

price on request [datasheet](#)



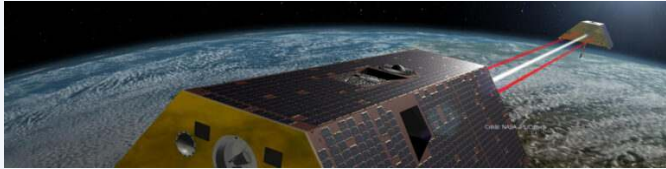
SPACETECH GMBH

SpaceTech Deployable Solar Arrays

One-stop deployable and body-mounted solar array solution with in-house panel manufacturing and multi-hinge deployment mechanisms.

Fill ratio	85%
Panel size range	< 0.5 m² (XS) to > 6 m² (XL) per panel
Deployment technology	Controlled, unsynchronized multi-hinge deployment using standardized C-spring hinges
Manufacturing	In-house panel manufacturing with automated photovoltaic cell laydown
Product scope	Body-mounted panels, single-hinge deployable arrays, multi-hinge deployable solar array wi
Selected missions	OneWeb Satellites, York Space Systems, GökTürk-2, Sentinel-5P, Sentinel-6, EUCLID, CHIME,

price on request [datasheet](#)



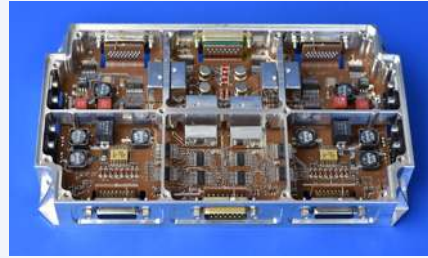
SPACETECH GMBH

SpaceTech Laser Head Electronics (LHE)

Low-noise, high-speed Laser Head Electronics for space and laboratory use, enabling ultra-stable laser sources.

DC bias current	$\leq 500 \text{ mA}$
Ultra-low current noise	$\leq 1 \text{ nA}/\sqrt{\text{Hz}} @ f > 1 \text{ kHz}$
AC current	$\leq 500 \text{ mA}$
Modulation bandwidth	$\leq 10 \text{ MHz}$
Temperature control	Precision Thermo Electric Cooler (TEC) control loops for seed-laser, pump-laser and photod
Telemetry/telecommand interface	UART, SpaceWire or CAN

price on request



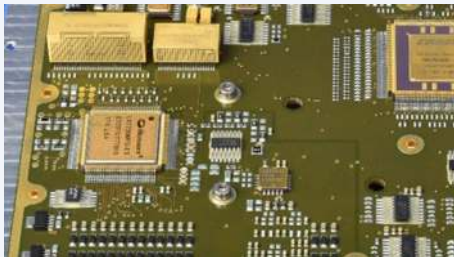
SPACETECH GMBH

SpaceTech Pyro Drive Module (Actuator Drive Unit)

Single-point-failure-free actuator drive electronics for triggering thermal knife and non-explosive actuator (NEA) release devices.

Bus interface	Satellite primary power, 28V nominal
Command interface	OBC command & control; NEA fire control including safe-and-arming functions
Implementation	Fully realized in hardware without soft- or firmware
Command concept	Safe command concept: pre-arm, arm, fire
Drive stage	Switched current source to drive the actuators
Channel logic	Individual logic to combine or exclude firing of more than one channel
Radiation tolerance (TID)	$\geq 50 \text{ krad}$

price on request



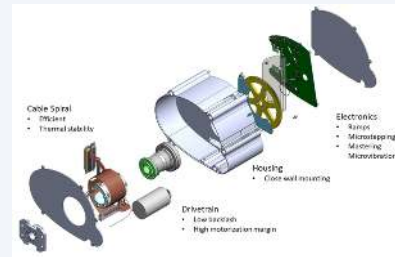
SPACETECH GMBH

SpaceTech Remote Terminal Unit (RTU)

cPCI-Serial-Space based Remote Terminal Unit collecting data from avionic sensors and controlling avionic actuators.

Processor	Dual Core LEON3 processor, also usable for data pre-processing
Onboard connection	CAN-Bus or SpaceWire
IO architecture	Standardized IO-module based on cPCI-Serial-Space standard
PT1000 interface	28 channels
Analogue voltage input	8 channels
Analog input resistive pressure transducer	2 channels
Supply voltage resistive pressure transducer	2 channels

price on request



SPACETECH GMBH

SpaceTech SADA 44/22 (Solar Array Drive Assembly)

Integrated Solar Array Drive Assembly combining drive mechanism and drive electronics for LEO satellite constellations.

Driving method	Current controlled, micro stepping
Command interface	UART (57.6kBaud); RS-422 or RS-485 available
Supply voltage	22V ... 36V
Standby current	$\leq 25 \text{ mA}$
Max load current	$< 0.3 \text{ A}$
Motor type	2-phase stepper motor
Redundancy	Cold redundant drive electronics

price on request

Contact SpaceTech 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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