

NEWSPACE MARKET · COMPANY PROFILE



Astronika

Poland · founded 2013 · astronika.pl

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as of 20 August 2026



Astronika

Astronika sp. z o.o. is a Polish private company founded in 2013 as a spin-out from the Space Research Center of the Polish Academy of Sciences (CBK PAN). Staffed by engineers with deep experience in space mechanism design, the company delivers compact, lightweight, and energy-efficient solutions to the global space industry. The company specializes in three core areas: planetary exploration and space resource utilization hardware; deployment systems including antennas, booms, and hold-down and release mechanisms (HDRMs); and positioning mechanisms and actuators for attitude and orbit control systems (AOCS). Astronika has contributed to high-profile missions including NASA's InSight Mars lander (HP3 Mole penetrator, with DLR), ESA's JUICE, RadCube, Hera, PROSPECT, Athena, and ExoMars. Operating from Raszyn near Warsaw, Astronika designs and manufactures deployable structures, lock-and-release devices, ultra-light robotic manipulators, orbital CubeSat deployers, space bearings, electromagnetic actuators, optomechanical structures, and satellite frames. Its engineering services span structural and thermal analysis, tribology, precision manufacturing, functional testing, and GSE design.

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

GSE Design and Production Astronika designs and produces Ground Support Equipment (GSE) for vibration, thermal-vacuum tests, and integration of space systems.	Manufacturing of Deployable Booms and Antennas Astronika offers manufacturing services for various space components and systems.
Space Equipment Testing Astronika offers comprehensive testing services for space equipment, including environmental and contamination verification.	Structural & Thermal Analysis Astronika offers structural and thermal analysis services to ensure the performance and reliability of space systems.
Tribology & Coatings Expertise Astronika offers specialized tribology and coatings expertise, including material properties selection, for space applications.	

Product catalogue



ASTRONIKA

Deployable Booms & Antennas

Astronika designs and manufactures tubular boom-based deployable structures and antenna systems for satellites. Products include rigid-flex PCB-based antennas, carbon-fiber and met

Types	Tubular booms, antenna deployers, dual-wishbone
Materials	Carbon fiber, metals, rigid-flex PCB
Flight Heritage	ESA JUICE, RadCube, multiple CubeSats
Applications	Communication, navigation, science sensors

price on request



ASTRONIKA

Deployment Mechanisms & Space Instruments

Astronika designs and manufactures deployment mechanisms, in-situ measurement instruments, and electromagnetic actuators for space science missions and small satellites. The compan

Heritage	NASA InSight Mars lander (MOLE mechanism)
Products	Deployment mechanisms, coilgun actuators, CubeSat deployers
Technology	Rigid-flex PCB, electromagnetic actuation
Applications	Science missions, CubeSats, small satellites

price on request



ASTRONIKA

Hold-Down & Release Mechanisms (HDRM)

Astronika’s non-pyrotechnic hold-down and release mechanisms (HDRMs) secure spacecraft appendages during launch and release them reliably on command in orbit. Used on NASA In

Type	Non-pyrotechnic, electromagnetic activation
Heritage	NASA InSight (HP3 Mole), ESA Hera
Applications	Booms, antennas, solar panels, instruments
Activation	Electromagnetic / shape memory alloy

price on request



ASTRONIKA

HP3 Heat Probe Hammering Mechanism (NASA InSight)

Astronika is a Polish space engineering company specializing in miniaturized space mechanisms including penetrators, deployable booms, and hammering systems. For NASA’s InSig

price on request

Contact Astronika

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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