



AstroForge

United States · founded 2022 · astroforge.com

8

PRODUCTS

newspacemarket.com/companies/astroforge/

as of 10 September 2026

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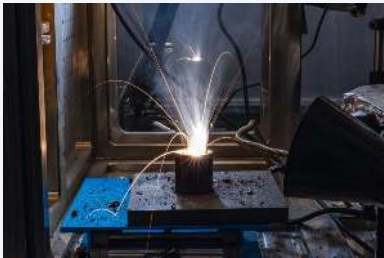
AstroForge

AstroForge is a deep-space mining company that designs and builds low-cost, replicable spacecraft. These spacecraft are capable of tracking and mining asteroids in deep space, with a focus on extracting valuable metals such as platinum group metals (PGMs).

The company's mission is to bring space resources into Earth's supply chain to reduce the reliance on traditional terrestrial mining methods. AstroForge is currently developing its second mission, DeepSpace-2, which is intended to be the first commercial rendezvous with a body outside the planetary gravity well. The company's staff includes individuals with experience from organizations such as SpaceX, NASA JPL, RocketLab, Virgin Orbit, Virgin Galactic, and Terran Orbital. AstroForge was founded with the goal of enabling human thriving when growth is constrained by planetary limits.

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Product catalogue



ASTROFORGE

Asteroid Refinery Technology

AstroForge's in-space metallurgical refining technology for processing platinum group metal ore extracted from asteroids directly in orbit.

Target metals	Platinum group metals (Pt, Pd, Ir, Rh, Os, Ru)
Process	In-space pyrometallurgical/hydrometallurgical refining
Processing location	Asteroid orbit (in-situ processing before Earth return)
Return method	Reentry capsule (refined metal ingots)
Terrestrial pgm grade	<1 ppm (Earth crust average)
Target asteroid grade	100+ ppm (M-type and chondritic asteroids)
Demonstration	Ground-tested; Odin spacecraft tech demo (Jan 2024)

price on request



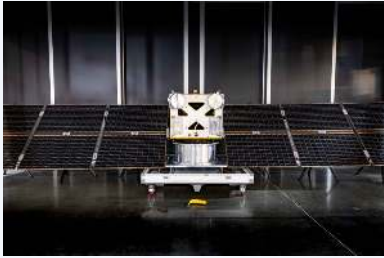
ASTROFORGE

DeepSpace bus

The DeepSpace bus is a modular platform for low-cost, high-efficiency deep space missions, built for startups, researchers, and commercial teams.

Payload Capacity	Up to 50 kg (customizable mount points)
Total Mass	200 kg
Total ΔV	>5 KM/S
Power	2 kW Bol solar, 1 kwh battery
Propulsion	ELECTRIC
Mission Lifetime	UP TO 24 months
Communication	secure s-band; roadmap to optical comms

price on request



ASTROFORGE
DEEPSPACE-2

DeepSpace-2 is a new kind of interplanetary spacecraft: low-cost, autonomous, and built to fly often, designed to rendezvous with a near-Earth asteroid.

Mass	200 kg
Power	2 kW solar
Lifespan	Up to 2 years
Propulsion	Hall-effect thrusters
Delta-V	5 km/s
Communications	S-band, up to 20 million km
Avionics	NVIDIA Jetson AGX Xavier Industrial

price on request



ASTROFORGE
Odin

Odin is a spacecraft designed to capture critical images and analyze the composition of asteroids, serving as a crucial step in advancing asteroid mining missions.

Weight	100 kg total, 30 kg payload capacity
Power Source	High-efficiency solar panels, 250W output
Autonomy	Operates independently for up to 6 months
Propulsion System	Electric propulsion, achieving speeds up to 20,000 km/h
Navigation	AI-driven system with autonomous obstacle avoidance
Thermal Resistance	Withstands re-entry temperatures over 1,600°C
Communication	Real-time data transmission up to 10 Mbps

price on request



ASTROFORGE

Odin Asteroid Prospecting Spacecraft

AstroForge's Odin spacecraft — the world's first commercial deep-space prospecting mission targeting metal-rich near-Earth asteroids for future platinum group metal extraction.

Mission type	Commercial asteroid prospecting (deep space)
Launch	January 2024 (SpaceX Transporter-10 rideshare)
Target	Near-Earth asteroids (metal-rich, high PGM content)
Instruments	Cameras + spectrometers (surface composition characterization)
Goal	Identify viable platinum group metal (PGM) extraction targets
Founded	2022, Long Beach, California, USA

price on request



ASTROFORGE

Roid Rage

A podcast by AstroForge on all things related to deep space mining, specifically asteroid mining, hosted by Jack Beyer and Matt Gialich.

price on request

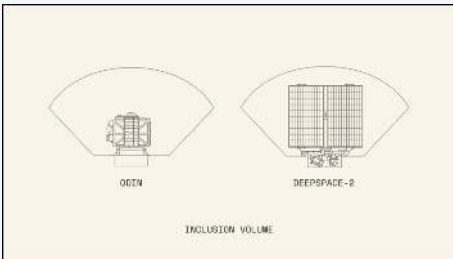


ASTROFORGE

Spacecraft Solar Array Structures

AstroForge designs and engineers solar array structures for spacecraft, balancing power generation, structural integrity, mass limitations, and deployment reliability.

price on request



ASTROFORGE

Spacecraft Structures

AstroForge's spacecraft structures are designed to support, deploy, protect, and correctly orient various equipment and instrumentation, ensuring hardware survives launch and funct

Vehicle Mass (DeepSpace-2)	200 kg
Axial Load Factor (DeepSpace-2)	8.0g
Lateral Load Factor (DeepSpace-2)	12.5g
Bolt Circle for Mounting	24 inch
Propellant Tank Mass	11 kg
Xenon Gas Mass	60 kg
Minimum Structural Mode Frequency	40 Hz

price on request

Contact AstroForge

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.

<https://newspacemarket.com/companies/astroforge/>

<https://www.astroforge.com/>

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