

NEWSPACE MARKET · COMPANY PROFILE



Astroscale US

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PRODUCTS

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SERVICES

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as of 20 August 2026



Astroscale US

Astroscale is a Japanese-founded, internationally-operating space sustainability company and the global pioneer in commercial active debris removal (ADR) and satellite life extension services. Founded in 2013 by Nobu Okada, Astroscale develops the technologies needed to safely remove defunct satellites and spent rocket stages from low Earth orbit — preventing the chain-reaction of collisions known as Kessler syndrome. Astroscale's flagship missions include ELSA-d (End-of-Life Services by Astroscale-demonstration) and ADRAS-J (Active Debris Removal by Astroscale — Japan), the latter becoming the first commercial spacecraft to rendezvous with and inspect an uncooperative piece of debris (a spent H-IIA rocket body) on orbit. The company is developing end-of-life and life-extension services for geostationary and low Earth orbit satellites, working with operators including JAXA, ESA, and commercial satellite companies. With offices in the UK, US, Singapore, and Israel in addition to Japan, Astroscale works with government space agencies and commercial satellite operators worldwide. The US subsidiary (Astroscale US) is headquartered in Denver, Colorado, pursuing opportunities with NASA, the US Space Force, and commercial customers seeking on-orbit servicing capabilities.

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SERVICES

Services

ADR service

Astroscale provides tailor-made Active Debris Removal (ADR) services to de-orbit assets, whether they are prepared with a docking mechanism or require a robotic system.

debris removal service

Astroscale offers a full-fledged debris removal service, leveraging Rendezvous and Proximity Operations (RPO) to safely approach and characterize existing large debris.

Diagnose and characterize objects in orbit

Astroscale diagnoses and characterizes objects in orbit to enable Active Debris Removal (ADR), End-of-Life (EOL), and Life Extension (LEX) services.

Extend the longevity of your space asset

Astroscale helps extend the longevity of space assets and maximize utility through improving functionality and flexibility, reducing costs, and maximizing value.

on-orbit servicing solutions

Astroscale provides on-orbit servicing solutions powered by rendezvous and proximity operations to extend mission life, enhance resilience, and remove orbital debris.

Product catalogue



ASTROSCALE US

ADRAS-J Debris Assessment Mission

World's first commercial spacecraft to safely approach and characterize an existing uncooperative piece of large debris through Rendezvous and Proximity Operations, demonstrating t

Mission type	Debris approach and characterization (non-contact RPOD)
Target	H-IIA rocket upper stage (large debris object)
Program	JAXA CRD2 (Commercial Removal of Debris Demonstration)
Sensors	Visual cameras, infrared cameras, LiDAR, laser range finders
Orbit	Low Earth Orbit (same orbit as target debris)
Status	Proximity operations completed

price on request



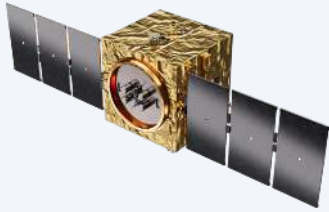
ASTROSCALE US

Docking Plate

A flight-proven, commercially available standardized docking interface that satellite operators install on their spacecraft to enable access to Astroscale's full suite of on-orbit

Generation	Second generation (flight-proven)
Availability	Off-the-shelf, commercially available
Installation	3-bolt solution, assemblable from outside the spacecraft
Capture Compatibility	Magnetic and robotic grappling mechanisms
Thermal Design	De-coupled top plate and structural deck
Flight Heritage	Validated on ELSA-d mission (2021)
Standards Compliance	CONFERS, Space Safety Coalition, Space Sustainability Rating (SSR)

price on request



ASTROSCALE US

ELSA-M Life Extension Service

Commercial satellite life extension vehicle that serviced multiple client satellites sequentially in a single LEO mission, using Astroscale's docking plate standard for capture and

Mission type	Multi-client satellite life extension / repositioning / deorbit
Orbit	Low Earth Orbit
Capture method	Astroscale standardized Docking Plate (pre-installed on client satellites)
Multi-client capability	Designed to service multiple satellites sequentially per mission
Customer	Eutelsat OneWeb (LEO constellation)
Status	In development

price on request



ASTROSCALE US

IRUS In-Orbit Refurbishment Service

ESA and BAE Systems-contracted mission concept enabling satellites to receive hardware upgrades, repairs, and component replacements while in orbit, targeting an In-Orbit Demonstra

Mission Status	Under development (IOD mission targeted by 2030)
Customer	European Space Agency (ESA)
ESA Contract Value	EUR 399,000 for Phase A
Industry Partner	BAE Systems
Key Technology	RP0 + robotic arm for component replacement/upgrade
Long-Term Goal	Routine in-orbit refurbishment standard by 2040
IOD Target Date	2030

price on request



ASTROSCALE US

LEXI-P GEO Multi-Mission Servicer

Astroscale's multi-mission GEO servicer providing inspection, life extension, payload upgrading, relocation, and responsible EOL disposal for most GEO satellites without prior prep

Mission Status	Under development (launch-ready target: 2027)
Target Orbit	Geostationary Orbit (GEO)
Developer	Astroscale U.S.
Services Provided	Inspection, life extension, payload upgrading, relocation, EOL disposal
Key Technology	RP0, robotic arm, 6DoF guidance and navigation
6DoF Testing	Completed at GMV robotics laboratory, Spain
Client Compatibility	Compatible with most GEO satellites (no prior preparation required)

price on request

Contact Astroscale US

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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