

NEWSPACE MARKET · COMPANY PROFILE



Astroscale

Japan · founded 2013 · astroscale.com

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as of 20 August 2026



Astroscale

Astroscale was founded in 2013 by Nobu Okada with a mission to secure long-term sustainable development of space for the benefit of future generations. Headquartered in Tokyo, Japan, the company has grown to become one of only a handful of commercial organizations worldwide with proven Rendezvous, Proximity Operations, and Docking (RPOD) capabilities demonstrated in orbit — the enabling technology for all on-orbit servicing applications. Astroscale operates across four main solution categories. Inspect solutions — represented by the ADRAS-J mission — enable safe approach, characterization, and assessment of non-cooperative or tumbling space objects, including existing debris. Service solutions — including the ELSA-M life extension vehicle — enable satellite mission continuity through repositioning, refueling, or other in-orbit services. Remove solutions address end-of-life satellite disposal and active debris removal to protect critical orbital slots and reduce collision risk. The company's Docking Plate provides a standardized interface pre-installed on new satellites, enabling future servicing at lower cost. The ADRAS-J mission, contracted by JAXA under its Commercial Removal of Debris Demonstration (CRD2) program, achieved the world's first safe approach and close-proximity rendezvous with a large piece of existing orbital debris (a Japanese H-IIA rocket upper stage). Astroscale's ELSA-M program — contracted by OneWeb/Eutelsat for multi-client life extension — is in development for LEO constellation operators. Astroscale operates globally with offices in the United Kingdom (Oxfordshire), United States, France, and Israel, building toward a circular space economy where satellites are maintained, upgraded, repositioned, and retired through routine on-orbit servicing

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SERVICES

Services

Debris Removal Service A full-fledged service to safely approach, characterize, capture, and deorbit existing large debris or inactive spacecraft.	Detection and Tracking of Client Objects The ability to find, track, and understand a client object from kilometers away down to the final few meters using a multi-sensor suite.
On-Orbit Servicing (RPOD) On-orbit servicing solutions including Rendezvous, Proximity Operations, and Docking (RPOD) to extend mission life, enhance resilience, and remove orbital debris.	Onboard Intelligence for Autonomous Operations Enabling autonomous decision-making in orbit through Guidance, Navigation and Control (GNC) algorithms for resilient and efficient operations.
Precision Maneuvering for Proximity Operations Precise and controlled movement in the final, critical phase of proximity operations using advanced propulsion systems and thrusters.	

Product catalogue



ASTROSCALE

Active Debris Removal (ELSA-M / ADRAS-J)

Astroscale's ELSA-M and ADRAS-J missions for commercial and government active debris removal — capturing defunct satellites and rocket bodies for controlled deorbit.

ELSA-d	Launched March 2021 – magnetic capture demonstrator
ELSA-M	Commercial multi-satellite removal vehicle (partnership: OneWeb)
ADRAS-J	Launched Feb 2024 – non-contact inspection of H-IIA debris (JAXA contract)
Capture Method	Magnetic capture (ELSA series); visual inspection (ADRAS-J)
Customers	JAXA (government), OneWeb (commercial)
HQ	Tokyo, Japan (global offices)
Founded	2013

price on request

Contact Astroscale

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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