

FUTURE SPACE TRANSPORTATION FLPP AUTUMN SESSION 2025



ATTITUDE CONTROL SYSTEM FEASIBILITY DEMONSTRATION

ARKADIA SPACE



Location: Castellon, SPAIN

Founded: December 2020

Employees: 26

Mission: We are an in-space propulsion company. We design, develop and commercialise engines and propulsion systems based on green propellants (hydrogen peroxide) – the best alternative to current hydrazine-based toxic solutions, at a fraction of the cost. We are enablers of the space logistics market, and we want to lead the transition towards a greener in-space propulsion landscape. Arkadia has already flown the first HTP propulsion system in Europe (in 2025), has started delivering thrusters to commercial customers, and is offering custom propulsion systems with both monoprop and biprop technologies.



GET IN TOUCH

Contact: info@arkadiaspace.com

Website and Socials: www.arkadiaspace.com | [linkedin.com/company/arkadiaspace](https://www.linkedin.com/company/arkadiaspace)

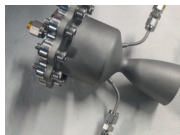
TECHNOLOGY AND INNOVATION

What we developed: 250N Green Monopropellant ACS thruster using HTP

Unique feature: It is the first commercially available 98% HTP monopropellant thruster in its class.

KEY RESULTS

- From nothing to product delivery to customer in less than 2.5 years. Started with FLPP in June 2023 with a 40N subscale in the first 3 months, first 250N flanged prototype tested in January 2024, and first fully welded engine tested in May 2025.
- >100kg of throughput/ engine demonstrated so far, and more to come!
- >2,000 pulses demonstrated, and counting!
- Can work with both 98% and 90% HTP



NEXT STEPS AND MARKET READINESS

- **Roadmap:** ground qualification (sea-level) is ongoing, to be finished before end of 2025
- **Opportunities:** looking for more commercial opportunities, both in the ACS / RCS for launchers, but also in space transportation like kick-stages, capsules or re-entry vehicles.
- **Target Launch:** first product batch is ready for delivery to client! Launch date TBD