

Orbital systems
Satellites
Ground segments
Transversal competencies



Exotrail is a start-up company designing electric propulsion systems and propulsion related software for the small satellites sector.

Exotrail's mission is to deliver agility to the space industry. We enhance constellations of small satellites by optimizing launch and deployment strategies, improving resolution, coverage, lifespan and overall performance, while also providing sustainable solutions that do not add to existing space debris.

COMPETENCIES & CAPABILITIES

- Electric Propulsion System Design (incl. fluidics and electronics)
- System Engineering
- Assembly, Integration & Testing of Electric Propulsion System
- Mechanical & Thermal simulation
- Material & Processes Expertise
- Mission Design Software
- Mission Operation Software
- Flight Dynamics & Space Mechanics
- Product & Quality Assurance
- Project Management



EXOTRAIL

PRODUCTS & SERVICES

Exotrail addresses the propulsion need of the small satellite market, offering a product portfolio composed by electric propulsion systems and software tools:

- ExoMG™-*nano*, a 60W/2mN Hall thruster for 10-20kg satellites;
- ExoMG™-*micro*, a 150W/7.5mN Hall thruster for 20-100kg and more satellites;
- ExoOPS™-*Mission Design*, a cloud-based software that helps engineers to design and plan the operations of your satellite missions;
- ExoOPS™-*Operations*, a cloud-based software that helps operators in optimizing the operation of satellite and constellations;

MAJOR SPACE PROJECTS & REFERENCES

- **Commercial contract with AAC Clyde Space** for the provision of 2 ExoMG™ flight models by the end of 2020, with option for tens in the following years, to equip the satellites of **Eutelsat ELO constellation**;
- **In Orbit Demonstration** flight model delivered in September 2019 (**only 10 months to design, manufacture and qualify the system**), originally scheduled to be launched in November 2019, currently planned in March 2020 due to launcher delays;
- **Several R&D project with CNES and ESA** for the development of new technology to be applied on the future versions of ExoMG™;
- ExoOPS™ – *Mission Design* commercially available. First licenses sold to customers, including **Eutelsat**.

POINT OF CONTACT

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