

FOR IMMEDIATE RELEASE

Space Launch of Aurora Thrusters and Plasma Brake

The ARM-C thruster and Plasma Brake deorbiting modules will be launched into orbit on 26th November with Space X Transporter mission.

Espoo, Finland. 26.11.2025 - Aurora announces the launch into orbit of its latest satellite thrusters and our signature deorbiting product, the Plasma Brake. The Aurora ARM-C single thruster modules and the PB-S-TC module are integrated onto C3S's WISDOM binary satellite, which will be launched on the SpaceX Falcon Block 5, Transporter 15 mission. The integration, mission management and payload processing for the spacecraft were provided by SEOPS.

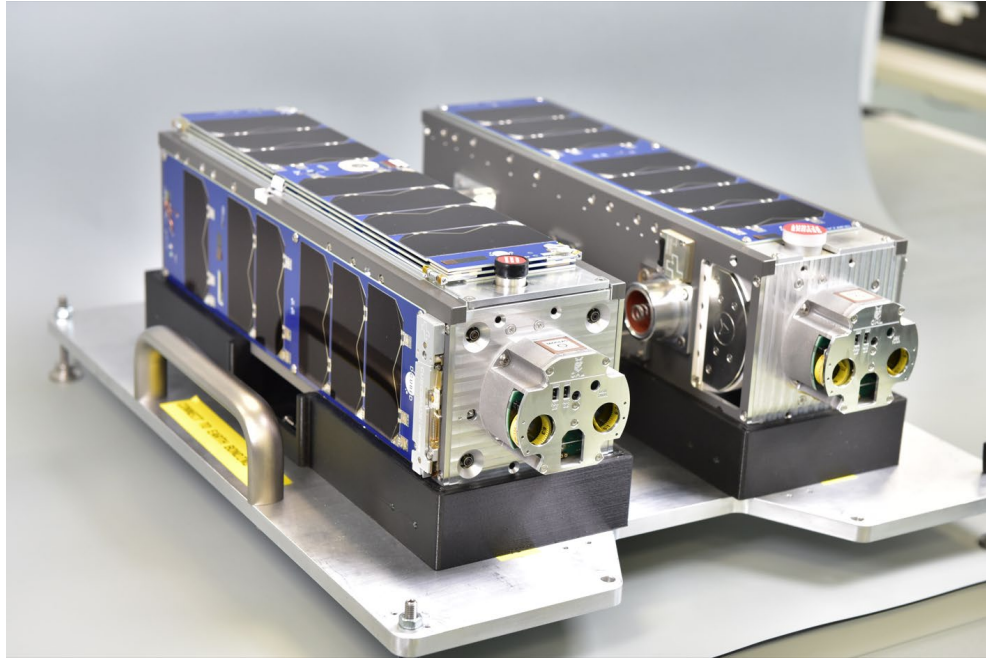
The satellite WISDOM (Wise Integration of Satellites PNT tracking Data using OWL for collision avoidance Management) is built as a collaboration of Hungarian C3S LLC, a CubeSat platform provider, Aurora Propulsion Technologies Oy, a Finnish company specializing in thrusters and plasma brakes for deorbiting and the European Space Agency (ESA), providing the necessary technologies for collision avoidance, including positioning, tracking, inter-satellite communication, and autonomous decision-making capabilities in the absence of human intervention. The technology development of the modules at Aurora Propulsion Technologies was supported by the European Innovation Council (EIC).

"The space launch and mission are the final exciting milestone of a multiyear project with our partners to space qualify our new product line. In addition, this is an opportunity to expand on the mission envelope of our thruster for operations in proximity to another spacecraft." Says Aurora Chairman Roope Takala.

The role of Aurora Propulsion Technologies in the satellite mission will demonstrate proximity operations and deorbiting from orbit with a 6U satellite that separates into two 3U CubeSats in orbit. One of the split satellites will be equipped with a plasma brake and the other with four ARM-C thruster modules.

The Plasma Brake is a superior micro-tether based deorbiting system enabling compliance to deorbiting regulation of satellites, with a uniquely compact and light module. The tether weighs as little as 36 grams per kilometre. The Plasma brakes can be configured to enable deorbiting even if the satellite fails. The Plasma Brake system on this WISDOM mission is a module adapted for CubeSats. With this mission, it will reach TRL9. Aurora plasma brake systems are designed to be scalable for spacecraft in the 2 kg - 1000 kg range.

Aurora Resistojet Modules, the ARM series, are fast response water based micro thrusters that provide a throttleable 1 mN nominal thrust per thruster. Thrust can be controlled from single micro-Newtons up to 5 milli-Newtons, making the thruster optimal for collision avoidance, formation flying and proximity operations missions.



WISDOM satellite images videos and more on the mission:

https://aurorapt.space/wp-content/uploads/2025/11/WISDOM_2.png

<https://navisp.esa.int/project/details/267/show>

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Company images and video content:

<https://aurorapt.fi/media/>

<https://www.youtube.com/@aurorapropulsionstechnologi9567>

About Aurora Propulsion Technologies

Aurora Propulsion Technologies' mission is to ensure sustainable use of space, whilst prolonging the useful lifespan of satellites. Our technologies enable effective and prompt implementation of satellite position and orientation to ensure successful execution and growth for the owners' business as well as the safe and reliable deorbiting of satellites at the end of their useful life. The long-term mission goal is deep space exploration with microsatellite-sized probes using a revolutionary means of propulsion, an electric sail. Visit Aurora Propulsion Technologies at www.aurorapt.fi.