TWO FLIGHT MODELS.

Two independent routes to flight heritage.

Two independent missions will validate propulsion system operation and performance across different spacecraft platforms and mission providers, supporting the commercial deployment of STAR-Water-nano Gen1.

NILA III MISSION – HEX20

STAR-Water-nano Gen1 FM1 is integrated into HEX20's NILA III platform for its first in-orbit demonstration mission.

ORIOLE MISSION – C3S LLC

STAR-Water-nano Gen1 FM2 has been delivered to C3S LLC for integration into the ORIOLE mission.



Qualification and environmental testing

Reserve a unit from our first production batch.

OhmSpace is opening customer discussions for the first production batch of STAR-Water-nano Gen1 propulsion systems.

Conditional orders can be structured around successful completion of the in-orbit demonstration programme.

Target deliveries are planned from Q2 2027.

Request:

- Interface Control Document (ICD)
- Mission compatibility assessment
- Technical consultation
- Commercial quotation
- Conditional reservation

CONTACT

sales@ohm.space

About OhmSpace

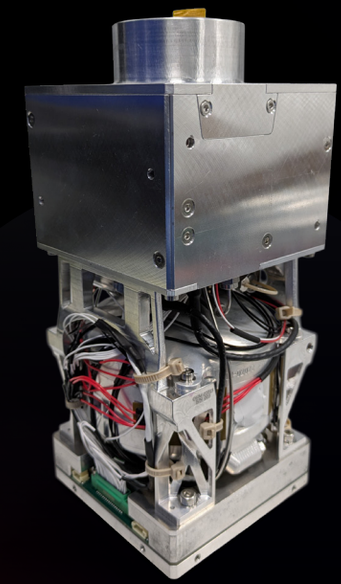
OhmSpace develops advanced resistojet propulsion for the spacecraft industry, enabling safe, sustainable and high-performance in-space mobility.

The company is taking a family of propulsion systems from flight demonstration to commercial deployment, while developing the next generation

ohmspace

STAR-Water-nano

High-performance water propulsion, ready for flight.



A complete first-generation system, now entering flight demonstration.

Two flight models have been delivered for independent in-orbit demonstration missions.

OhmSpace is accepting conditional orders for the first production batch of STAR-Water-nano Gen 1.

Developed with the support of the European Space Agency and the UK Space Agency.

Flight-ready water propulsion for CubeSats and small satellites

STAR-Water-nano Gen1 is OhmSpace's first water propulsion system designed for CubeSats and small satellites.

The system combines thruster, propellant storage, and power control modules into a compact, low-pressure architecture designed for straightforward spacecraft integration.

Using safe, non-toxic water propellant, STAR-Water-nano Gen1 delivers high specific impulse together with moderate thrust to support:

- → **Orbit raising**
- → **Station keeping**
- → **Collision avoidance**
- → **Constellation deployment**
- → **End-of-life disposal**

The low-pressure architecture simplifies handling and spacecraft integration while avoiding the operational constraints associated with toxic or high-pressure propellants.

WHY STAR-Water-nano?

- ✓ Safe, non-toxic water propellant
- ✓ Low-pressure system
- ✓ Compact integrated architecture
- ✓ Designed for straightforward integration
- ✓ High specific impulse
- ✓ Higher thrust for faster maneuvers



STAR-Water-nano Gen1 FLIGHT CONFIGURATION

Propellant Water	**Propellant Capacity** ≥200 g
Specific Impulse ≥170 s*	**Average Thrusting Power** 44 - 62 W
Maximum Thrust Up to 20 mN	**Development Status** Flight models manufactured
Total Impulse From 400 N·s	**Flight Programme** Two independent IOD missions
Wet Mass <1.5 kg	

*Measured performance; Isp > 200 s targeted from Gen 2.

Suitable for CubeSats and small satellite missions requiring reliable, high-performance propulsion with simplified spacecraft integration.

Built. Tested. Preparing for flight.

STAR-Water-nano Gen1 has progressed from development into flight demonstration.

Two independent flight models have been manufactured to support separate in-orbit demonstration missions.

PROGRAMME STATUS

- ✓ Flight models manufactured
- ✓ Vibration tested to SpaceX RPUG levels
- ✓ Thermal vacuum tests complete
- ✓ Hardware delivered
- ✓ Hardware integrated
- ✓ Two independent flight demonstrations in preparation

PRODUCT EVOLUTION

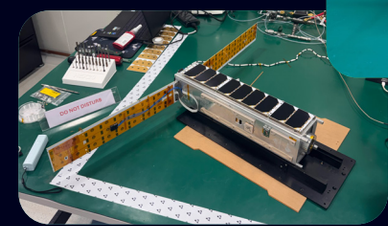
Alongside the commercialization and flight demonstration of Gen1, OhmSpace continues to develop future STAR-Water-nano configurations through programmes supported by the European Space Agency and the UK Space Agency.

Future development focuses on more compact architecture and expanded spacecraft integration options while Gen1 remains commercially available today.

EVIDENCE OF MATURITY

STAR-Water-nano Gen1 FM2 delivered to C3S LLC for the ORIOLE mission





STAR-Water-nano Gen1 FM1 during integration with HEX20's NILA III platform