

## The Steam TunaCan Thruster

Steam Powered Propulsion Technologies for Small Satellites and CubeSats

The Steam TunaCan Thruster is a safe, high-performance, electrothermal propulsion system specifically designed for CubeSats. Its unique shape factor allows its installation in the tunacan volume available in many CubeSats deployers, located outside the main CubeSat structure. Using only low-pressure water as the main propellant, the Steam TunaCan Thruster can be easily integrated into any satellite, supporting all its propulsion needs



Optimization & Manoeuvres



Collision Avoidance



Constellation Management



Life Extension



De-Orbit





## **High Thrust**

50x More Than Electric Propulsion

**Low Power Consumption** 

## Safe

Low Pressure Water as The Main Propellant

Easy to Integrate

No RF interference

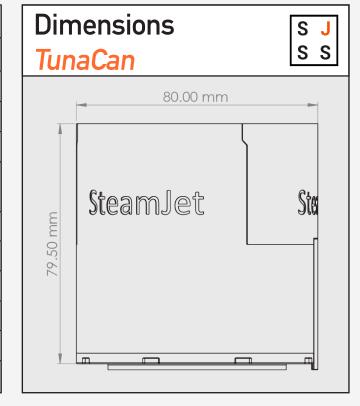
For more Info and Pre-Orders

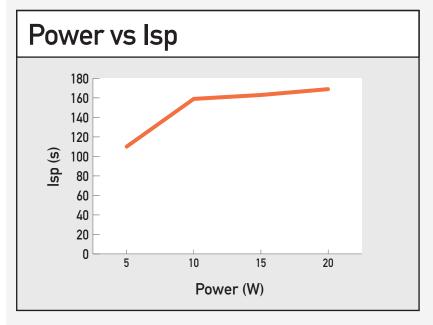
Contact us Today to Receive a Free Engineering Model of the Steam Thruster

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https://steamjet.space

Specifications	Value
Nominal Thrust (mN)	6
Specific Impulse (s)	172
Total Impulse (Ns)	219
Minimum Impulse Bit [mNs]	10
Power consumption Thrusting / Idle [W]	<19.9 / 0.12
Wet Mass [g]	540
Propellant Mass [g]	130
Propellant	Water
Voltage [VDC]	9 - 14
Communication Protocol	RS 422, TTL UART
Dimensions [mm]	Ø 80 x 80





Space qualified according to ESA ECSS-E-ST-10-03C and NASA GSFC-STD-7000A

The Steam TunaCan Thruster can be operated with a power between 5W to 20W depending on the CubeSat availability

## **Typical Applications**

3U (5KG) SATELLITE @ 400KM INITIAL ORBIT

	Total Impulse	Life-time	Orbital Change	Orbit	Collision
Product	(Ns)	(Years)	(Km)	Phasing	avoidance
No Propulsion	0	1.6	No	No	No
TunaCan	219	4.3	± 70	0° to 360°	Yes

6U (10KG) SATELLITE @ 400KM INITIAL ORBIT

Product	Total Impulse (Ns)	Life-time (Years)	Orbital Change (Km)	Orbit Phasing	Collision avoidance
No Propulsion	0	1.6	No	No	No
TunaCan	219	3	± 35	0° to 360°	Yes