

SmallSat Bipropellant Thruster

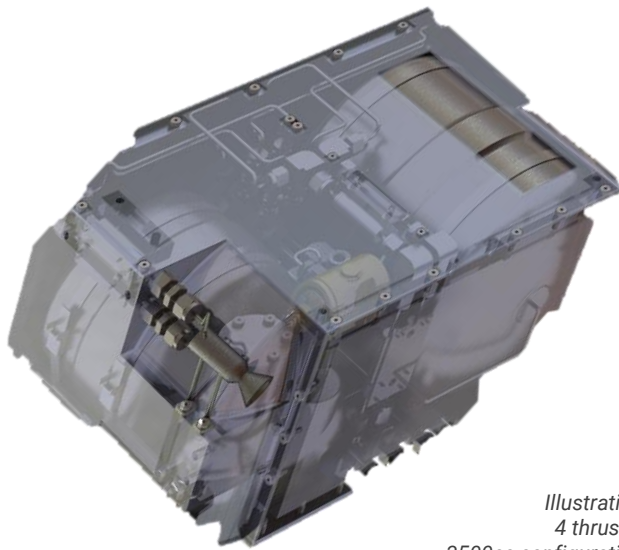


Illustration:
 4 thruster,
 3500cc configuration.

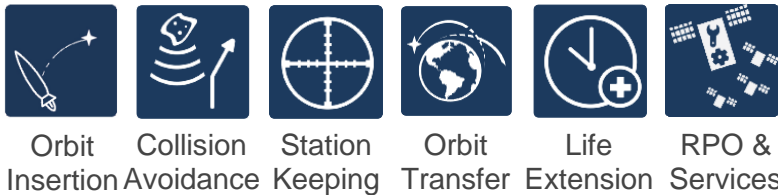
Product Highlights

Benchmark Space Systems' Peregrine delivers a **non-toxic ('green'), high thrust** propulsion system to the small satellite market. Our innovations address challenges with alternative systems in this class: lead time, launch safety, and power consumption.

Our proprietary on-demand pressurization technology and non-toxic propellants will **ease your launch manifest and expand your on-orbit capabilities**. Additionally, Benchmark Space's patent pending micromixing technique eliminates the need for catalyst beds, a high cost, long-lead component used in other chemical propulsion systems.

With in-house components designed for additive manufacturing, Benchmark offers an **industry-best performance and value**.

Applications



Peregrine Configurable for 6U - ESPA satellites

Thruster Size(s)	100 mN - 22 N	Nozzle Configuration	1 to 12
Non-toxic Propellant	HTP + NHMF	Power (pressurization)	10 W
Specific Impulse	270 s	Power (standby)	< 0.1 W
Min Impulse Bit	≤ 0.5 mN·s	Power (thrust valve)	< 3 W

Common Configurations

(Configurable to 200 kN·s)

Volume
Total Impulse
Wet Mass



2000 cc
 1750 N·s
 2500 g



3500 cc
 3500 N·s
 4000 g



7800 cc
 10,000 N·s
 7500 g