

## SmallSat Monoprop/Dual Mode Thruster

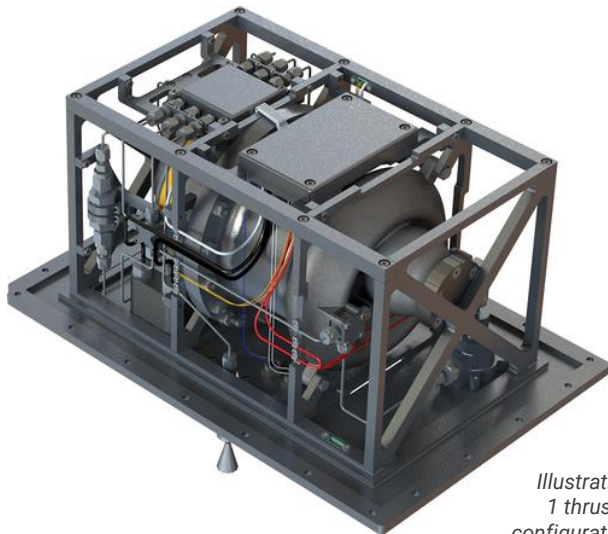


Illustration:  
 1 thruster,  
 configuration.

### Product Highlights

Benchmark Space Systems' Halcyon 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.**

Halcyon is offered in monopropellant HTP or dual mode HTP + Butane creating the most innovative small satellite solution for your high thrust, or pulse-mode operational needs.

First mission is launching in 2021.

### Applications



Orbit  
 Insertion



Collision  
 Avoidance



Station  
 Keeping



Orbit  
 Transfer



Life  
 Extension



RPO &  
 Services

### Configurable for 6U - ESPA satellites

<b>Thruster Size(s)</b>	100 mN - 22 N	<b>Nozzle Configuration</b>	1 to 12
<b>Non-toxic Propellant</b>	HTP + (optional) Butane	<b>Power (pressurization)</b>	10 W
<b>Specific Impulse</b>	140s - 320s	<b>Power (standby)</b>	< 0.1 W
<b>Min Impulse Bit</b>	≤ 50 mN·s	<b>Power (thrust valve)</b>	< 3 W