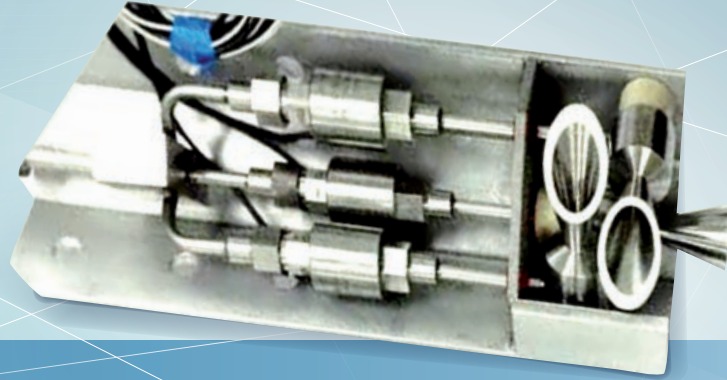
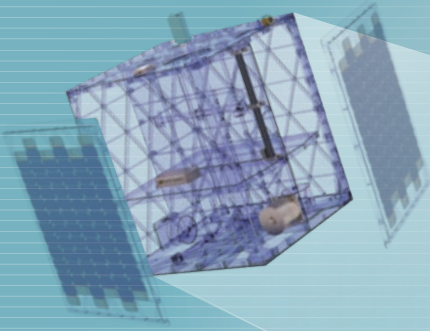


PROPULSION PRODUCTS



PERFORMANCE

	Hydrogen Peroxide Monopropellant Thrusters				Hydrazine Thrusters			
	M005HP	M010HP	M050HP	M100HP	M005	M010	M050	M100
FUNCTIONAL CHARACTERISTICS								
Thrust (N)	0.050	0.1	0.5	1.0	0.005	0.05	0.5	1.0
Isp (sec.)	120	120	120	120	150	160	180	220
Inlet pressure (Pa)	350000	350000	350000	350000	350000	350000	350000	350000
Minimum impulse bit (N-sec.)	1.8×10^{-4}	9×10^{-4}	4×10^{-3}	8.5×10^{-3}	1.7×10^{-4}	6×10^{-3}	3×10^{-2}	3×10^{-2}
Pulse life	>500,000	>500,000	>500,000	>500,000	>100,000	>100,000	>100,000	>300,000
PHYSICAL CHARACTERISTICS								
Exit Diameter	3.81 mm	5 mm	6.35 mm	7.6 mm	3.81 mm	4.45 mm	8.9 mm	8.9 mm
Weight	10 g	11 g	15 g	20 g	10 g	30 g	70 g	100 g
Power	0.5 W	0.5 W	1.0 W	2.0 W	0.5 W	0.5 W	2.0 W	5.0 W

CONFIGURATION MANAGEMENT: Specifications are subject to change. Please refer to latest version.

FEATURES

- Propulsion systems include warm gas, hydrogen peroxide and hydrazine solutions
- Propulsion R&D services for a variety of systems such as gels, aerospike, unique bi-props and hybrids

APPLICATIONS

- Tailored to the CubeSat (3 U to 27 U) satellite market, this product line is scalable to support larger systems

IN PARTNERSHIP

NewSpace Systems is a South African, privately owned company, whose activities are geared around a "lean", yet high-quality engineering and verification approach. Particularly strong in the area of Attitude Control Systems, and with the capability to design and manufacture a range of components and sub-systems; at NewSpace (NSS) we are able to offer our client's even more thanks to our incredible partners.

For this particular product offering NSS has partnered with a leader in thruster design and propulsion systems for small and nanosatellites based in the United States.

Established in 2000 in Florida, this company has proven itself increasing dynamic and today boasts a diverse, global customer base that has yielded solid partnerships with prominent academic institutions, multiple government agencies and leading aerospace companies.

As a partner and African representative, NSS today has the pleasure of making a variety of efficient propulsion solutions available to our client's.