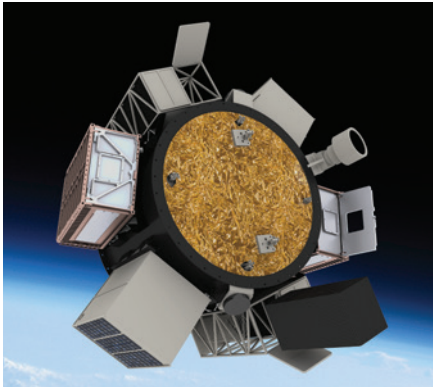


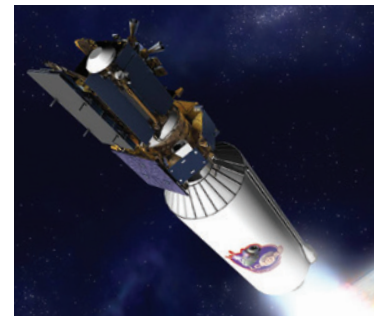
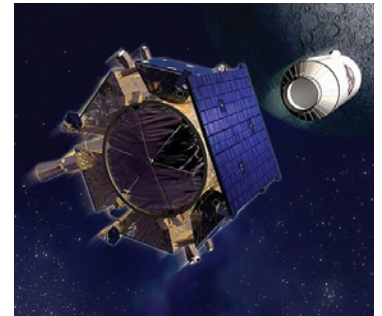
SL-OMV

SMALL LAUNCH ORBITAL MANEUVERING VEHICLE



The Small Launch Orbital Maneuvering Vehicle (SL-OMV) is a propulsive tug for secondary payload deployment focused on Venture Class Launch Vehicles (VCLV) vehicles. The SL-OMV is designed to launch on VCLV with a capacity of 150 kg or greater including spaceport-based systems. It is payload configurable for cubesats through ESPA-Class spacecraft. It can be used to disperse cubesat constellations

or deliver ESPA-Class spacecraft to their ideal orbit. The SL-OMV has its own avionics, power, green propulsion, and communications systems that are configurable for short duration missions.



SMALL LAUNCH ORBITAL MANEUVERING VEHICLE

The SL-OMV offers a space tug capability that enables cubesats to launch on Small Launch Vehicles (SLV) and achieve their ideal orbit and/or constellation phasing.

FEATURES

- Green propellant allows spaceport processing
- Flexible configuration can accommodate various launch vehicle interfaces
- Mass and cost optimized for small launch vehicle and small satellite applications
- Flexible with a wide range of existing dispensers and adapters
- Easily convertible from passive to propulsive adapter

MISSION APPLICATIONS

- Cubesat Tug
- Constellation Deployment
- Technology Demo Platform
- Insertion Stage

SPECIFICATIONS	
Parameter	Performance
Total Impulse	38.3 kN-sec (8,600 lbf-sec)
Thrust (Nominal)	6 x 1 N
Propellant Type	LMP-103S (4:1 Blowdown)
Attitude Control	3 DOF
Orbital Lifetime	12 months or more in LEO
Dry Mass (w/out Payloads)	48 kg
Wet Mass (w/out Payloads)	65 kg
Wet Mass (w/ Payloads)	155 kg for 6 x 6U
Payload Mass	Up to 12 x 3U or 6 x 6U Payloads
Nominal LV Adapter Interface	Ø24" (up to Ø38.81") or 4-point Mount
Nominal Adapter Height	20"
Payload Interface	3U RailPod/P-POD/CSD/ISIPOD, 6U CSD, 3U/6U NASA NLAS
Example Configuration #1	12x3U Cubesats > 260 m/s Delta-V
Example Configuration #2	6x6U Cubesats > 115 m/s Delta-V
Example Mission Scenario	500 km SSO deployment, Deploy 6x6U Cubesats evenly spaced around a plane, Deorbit



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